

# Oracle7<sup>TM</sup> Server Messages

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ORACLE<sup>®</sup>

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Oracle7™ Server Messages, Release 7.3

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# Preface

**T**he purpose of this manual is to provide complementary information about messages generated by the Oracle Server and its integral parts. The integral parts of an Oracle Server can include the following: the SQL processor, PL/SQL, Server Manager, precompilers, the Export and Import utilities, and SQL\*Loader. Except for operating system-specific messages, all messages in this manual are common to all Oracle products that interface with the Oracle Server.

Operating system-specific messages generated by the Oracle server are listed in the Oracle documentation set for each system. For convenience, this manual indicates which document contains these specific messages.

Each message listing in this manual contains the message statement, an explanation of the probable cause(s) of the message, and recommended action. If the message is a warning or indicates that an error occurred, the message listing usually indicates a corrective action.

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## Audience

This manual is intended for all Oracle7 users.

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## How *Oracle7 Server Messages* Is Organized

*Oracle7 Server Messages, Release 7.2* contains twenty chapters and three appendices. The following is a brief description of the contents of each chapter and appendix:

### **Chapter 1: Using Messages**

This chapter describes how to gain the most information from this manual. It is important to read this chapter if you wish to report a problem to Oracle customer support.

### **Chapter 2: Server Messages ORA–00000 to ORA–25699**

This chapter lists messages generated by the Oracle7 Server.

### **Chapter 3: PL/SQL and FIPS Messages**

This chapter lists messages generated by PL/SQL. This chapter also lists warnings generated when FIPS flagging is set in an Oracle product and an Oracle extension to the SQL92 standard is used or a SQL92 feature is used in a non-conforming manner.

### **Chapter 4: Precompiler Messages**

This chapter lists messages generated by Oracle Precompilers.

### **Chapter 5: SQL\*DBA Messages**

This chapter lists messages generated by SQL\*DBA.

### **Chapter 6: Export/Import Messages**

This chapter lists messages generated by the Export and Import utilities.

### **Chapter 7: SQL\*Loader Messages**

This chapter lists messages generated by SQL\*Loader.

### **Chapter 8: SQL\*Module Messages**

This chapter lists messages generated by SQL\*Module.

### **Appendix A: Messages Alphabetically**

This appendix contains an alphabetic list of all messages within this manual.

### **Appendix B: Operating System-Specific Information**

This appendix contains a list of operating system-specific references within this manual.

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## Related Publications

Messages not listed in this manual are likely to be listed in one of the manuals in the following list. If you cannot find a message in a manual listed below, try the Oracle installation or user's guide for your product and platform.

### **SQL\*Net Generic Messages**

*Oracle Network Products Messages manual*

Note that some product-dependent SQL\*Net messages may be listed in the installation or user's guide for your platform.

### **Alpha**

*Oracle7 for Alpha AXP OpenVMS Installation Guide*

### **AMDAHL**

*Oracle7 for Amdahl UTS Installation and Configuration Guide*

### **AT&T**

*Oracle7 Server for AT&T System 3000 Installation and Configuration Guide*

### **BULL**

*Oracle7 Bull DPX/2 Installation and User's Guide*

### **Data General**

*Oracle7 for Data General AOS/VS Installation and Configuration Guide*

### **DEC**

*Oracle7 for DEC Alpha AXP OSF/1 Installation and Configuration Guide*

*Oracle7 for VAX OpenVMS Administrator's Guide*

*Oracle for DEC VAX/UNIX Installation and User's Guide*

### **Fujitsu**

*Oracle7 Server for Fujitsu DS/90 (100-900) Series Installation and User's Guide*

### **Hewlett Packard**

*Oracle7 Server for HP 3000/900 Installation and User's Guide*

### **Hitachi**

*Oracle7 for Hitachi HI-OSF/1 Installation & Configuration Guide*

### **ICL**

*Oracle7 For ICL DRS Systems ICL DRS6000 Installation and User's Guide*

*Oracle7 Server for ICL DRS 6000 Installation & User's Guide*

### **IBM**

*Oracle7 for IBM RISC System/6000 Installation and Configuration Guide*

*Oracle7 for IBM AIX/ESA Installation & Configuration Guide*

*Oracle7 for MVS Messages Guide*

*Oracle7 for VM Messages Guide*

### **Intel**

*Oracle7 Server for Intel-based SVR4 (iABI) Installation and Configuration Guide*

<b>nCUBE</b>	<i>Oracle7 for nCUBE Installation and User's Guide</i>
<b>NCR</b>	<i>Oracle7 Server for NCR System 3000 Installation and User's Guide</i>
<b>Olivetti</b>	<i>Oracle7 Server for Olivetti UNIX System V Release 4.0 Installation and User's Guide</i>
<b>Pyramid</b>	<i>Oracle7 for Pyramid DC/OSx Installation and Configuration Guide</i>
<b>SCO</b>	<i>Oracle7 for SCO UNIX Installation and User's Guide</i>
<b>Sequent</b>	<i>Oracle7 for Sequent DYNIX/ptx Installation &amp; Configuration Guide</i>
<b>Sequoia</b>	<i>Oracle7 for Sequoia Installation and User's Guide</i>
<b>Stratus</b>	<i>Oracle7 for Stratus FTX Installation and Configuration Guide</i>
<b>SUN</b>	<i>Oracle7 for SUN Sparc Solaris 2.x Parallel Backup/Restore Installation &amp; Configuration Guide</i>
	<i>Oracle7 for SUN-4 Sparc Sun OS 4.1x Installation &amp; Configuration Guide</i>
<b>Unisys</b>	<i>Oracle7 for Unisys U6000/PTX Installation and User's Guide</i>
<b>UNIX Generic Messages</b>	<i>Oracle7 Server for UNIX Administrator's Reference Guide</i>

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## Your Comments Are Welcome

We value and appreciate your comments as an Oracle user and reader of the manuals. As we write, revise, and evaluate, your opinions are the most important input we receive. At the back of this manual is a Reader's Comment Form which we encourage you to use to tell us both what you like and what you dislike about this (or other) Oracle manuals. If the form has been used, or you would like to contact us in California, please use the following address.

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# Using Messages

**T**his chapter gives you general information and helpful tips about messages. The following topics are covered:

- locating message documentation
- accuracy of messages
- message format
- recognizing variable text in messages
- message stacks
- message ranges
- calling Customer Support
- Oracle exception messages
- trace files
- the Alert file

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## Locating Message Documentation

<b>Oracle Server</b>	These messages are generated by the Oracle Server when running any Oracle program. This manual documents messages that are common across Oracle products and tools.
<b>Product Specific</b>	These messages are specific to one product and are documented in manuals for that product. For example, if you work on a Macintosh and use SQL*Net, you would need to refer to the messages contained in the <i>SQL*Net for Macintosh Manual</i> .
<b>Operating System-Specific</b>	<p>These messages are specific to one operating system. A range of message code numbers is reserved for each operating system. For example, the range 7500 – 7999 is for DEC VAX/VMS messages; these messages are listed in the appropriate operating system-specific documentation.</p> <p>The prefix of the message indicates where to find information about the message. For example, some messages in this manual have the prefix “ORA”. If you encounter a message without a prefix, first check the manuals for the product you are using, then check this manual.</p>

---

## Accuracy of Messages

The accuracy of the messages in this manual is our primary concern. Occasionally, an enhancement to a message is not incorporated into the Oracle software. Should you encounter a message generated on your system that differs from the message in this book, be assured the improved message text is usually incorporated in the next release of the software. If you should encounter a discrepancy, please contact us using the information contained in the Reader Comment Form at the back of this manual.

<b>Message Format</b>	<p>All messages you see displayed are prefixed by text that indicates which program issued the message. For example, the prefix “ORA” shows that the message was generated by the Oracle Server. The location of messages in this book depends on the prefix of the message. The following table lists the prefixes of messages that you may encounter and the location of the message in this book.</p> <p>All messages are listed in order by the message code number. To look up a message, use the message code number.</p>
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**Message Prefixes  
Listed in this manual**

The following messages per prefix *are* listed in this manual:

<b><i>Prefix</i></b>	<b><i>Type of Message</i></b>	<b><i>Location</i></b>
DBA	SQL*DBA	Chapter 5
EXP	Export utility	Chapter 6
IMP	Import utility	Chapter 6
LCC	Parameter file	Chapter 6
MOD	SQL*Module	Chapter 8
ORA	Generic Oracle Server	Chapter 2
PCC	Precompiler	Chapter 4
PLS	PL/SQL	Chapter 3
SQL	Precompiler Runtime	Chapter 4
SQL*Loader	SQL*Loader	Chapter 7

**Message Prefixes of  
Oracle Products Not  
Listed in this manual**

The following message per prefix *are not* listed in this manual:

<b><i>Prefix</i></b>	<b><i>Type of Product</i></b>
ACF	File Access
ACG	Oracle Access
ACI	IAC Access
ACM	Mail Access
ACS	SQL Access
ACT	Text Retrieval Access
ADA	SQL*Connect to ADABAS
ADM	Office Administration
APP	Applications
ASY	SQL*Net Driver (Async Manager)
BLD	VM Install
BRW	Data Browser
CAL	SQL*Calc
CCC	CASE*Core
CIC	CICS Attach
CPR	CASE*Project

<b><i>Prefix</i></b>	<b><i>Type of Product</i></b>
CRM	CASE*Repository
CPY	Oracle Tools
DBU	DBU
DIR	Directory Services
DLN	Datalens
FRM	SQL*Forms
GC*	Oracle Charting Library
GO*	Oracle Graphics
GWP	Oracle Procedural Gateway
GWT	Oracle Transparent Gateway Developer Kit
GTW	Gateway and Connect Kit
IAP	SQL*Forms
IDM	SQL*Connect to IDMS
IMP	IMPORT
IMS	SQL*Connect to IMS
INS	Install
KNT	SQL*Net Driver (Knet TCP/IP)
MAI	Oracle Mail
MGR	Server Manager
MBC	Multi-byte CASE Library
MOD	SQL*Module
MPA	SQL*Net Driver (LU6.2/APPC)
MPI	SQL*Net Driver (DECNet)
MPM	MPM
MPV	SQL*Net Driver (VTAM)
MST	VM Network Master (listener)
MTC	SQL*Net Driver (IBM TCP/IP)
NBD	VM net install
NSM	SQL*Net (VTAMaster)

<b><i>Prefix</i></b>	<b><i>Type of Product</i></b>
NSS	VM-specific shared segment/memory Configurator
OAP	SQL*Net Driver (APPC/LU62 Manager)
OCL	ORAINST
ODM	Document Manager
OFC	Oracle Office
OFF	Oracle Office
OG*	Oracle Graphics
OIN	VM ORAINST
OIT	SQL*Net Driver (SNS TCP/IP)
ONS	SQL*Net Driver (VTAM)
ONT	SQL*Net Driver (NCR TCP/IP)
OPW	Oracle Password
OSN	SQL*Net Driver (VTAM)
OXA	Oracle XA Interface
OXQ	Office Automation Query Builder
PDE	PL/SQL Development Environment
RDB	SQL*Connect to RDB
RMS	SQL*Connect to RMS
RXS	Pro*Rexx
SCH	Office Scheduler
SDS	Source Control
SP1	Oracle Tools
SP2	Oracle Tools
SRV	VM server (child process)
TST	Ora*Tst
VG*	Virtual Graphics System
VSA	SQL*Connect to VSAM



---

## Recognizing Variable Text in Messages

To help you find and fix errors, Oracle embeds object names, numbers, and character strings in some messages. These embedded variables are represented by *name*, *num*, *str* and so on. For example, the message

```
ORA-00020: maximum number of processes (num) exceeded
```

might actually appear as follows:

```
ORA-00020: maximum number of processes (50) exceeded
```

---

## Message Stacks

Occasionally, you may see a “message stack.” This is simply a series of related messages issued at different levels of Oracle.

The following message stack is a generic example:

```
ORA-06502: PL/SQL: numeric or value error
ORA-06512: at "SCOTT.VALUE_ERR", line 1
ORA-06512: at line 1
```

The following message stack is a VAX/VMS example:

```
ORA-01034: Oracle not available
ORA-07625: smsget: $MGBLSC failure
%SYSTEM-W-NOSUCHSEC, no such (global) section
```

In this example, notice that the message at the bottom of the stack is issued by the VMS operating system. Seeing the messages at each level in the system may help you trace the originating event. For example, in this case, Oracle may not be available simply because it has not been started, and consequently there is no system global area (SGA). If you need the help of customer support, be sure to report all the messages in the stack.

---

## Message Ranges

Oracle7 Server messages, which are found in Chapter 2 are grouped into specific ranges indicating the type or cause of event that generated the message. Most of these messages are listed in this manual. Because Oracle runs on many different platforms, operating system-specific messages are listed in the appropriate Oracle manual for each platform.

The following list shows all current Oracle7 Server message ranges. Ranges highlighted in **bold** type are operating system-specific messages that are not listed in this manual. For information about operating system-specific documents, see “Related Publications” in the Preface.

00000–00100: Oracle Server  
00101–00149: Multi-Threaded Server  
00150–00159: Oracle\*XA  
00200–00249: Control Files  
00250–00299: Archiving and Recovery  
00300–00369: Redo Log Files  
00370–00389: KCB External  
00390–00399: Redo Log Files  
00400–00420: Oracle Compatibility  
00436–00437: Licensing  
00440–00460: Detached Process Startup  
00470–00485: Detached Process Death  
00486–00569: Interrupt Handlers  
**00570–00599: SQL\*Connect Opening & Reading Files**  
00600–00639: Oracle Exceptions  
**00640–00699: SQL\*Connect**  
00700–00709: Dictionary Cache  
00816–00816: Message Translation  
00900–00999: SQL Parsing  
01000–01099: User Program Interface  
01100–01250: Oracle Files  
01400–01489: SQL Execution

01490–01499: Miscellaneous, ANALYZE, SQL Parsing, Execution  
01500–01699: Oracle Commands  
01700–01799: SQL Parsing  
01800–01899: The Date Function  
01900–02039: SQL Parsing  
02040–02099: Distributed Transactions  
02100–02139: Oracle Runtime Library SQL Messages  
02140–02299: SQL Parsing  
02351–02375: SQL\*Loader in Direct Path Mode  
02376–02399: Oracle Resources  
02400–02419: EXPLAIN PLAN Command  
02420–02429: Schemas  
02430–02449: Constraint Enabling and Disabling  
02450–02475: Hash Cluster Commands  
02476–02479: Parallel Direct Loader  
02480–02489: Trace Facility  
02490–02499: Resizeable Datafiles  
**02500–02699: CTOS**  
**02700–02757: UNIX Two Task**  
**02875–02899: IBM RS/6000**  
03000–03099: Features Not Implemented  
03100–03199: Two-Task Interface  
03200–03289: Extent Allocation and Other Space Management Errors  
03290–03295: TRUNCATE Command  
03296–03299: Resizeable Datafiles  
**03300–03499: Meiko**  
**03500–03699: Macintosh**  
**03700–03999: AOS/VS**  
04000–04109: Command Parameters  
04020–04029: Library Object Locks

04030–04039: System Memory  
04040–04069: Stored Procedures  
04070–04099: Triggers  
**04500–04899: CMS**  
**04900–09429: ICL DRS6000**  
**05000–05899: OEM**  
**05900–05999: Wang**  
**06000–06429: SQL\*Net**  
**06430–06499: NCR System 3000**  
06500–06599: PL/SQL  
**06581–06591: European OEM Ports**  
**06600–06699: SQL\*Net**  
**06700–06899: SQL\*Net TLI**  
**06900–06939: CMX**  
**06950–06999: SQL\*Net AppleTalk**  
**07000–07099: SQL\*Connect for DB2**  
**07100–07199: SQL\*Connect for IMS**  
**07200–07499: UNIX**  
**07500–07999: VAX/VMS**  
08000–08174: Accessing Data  
08175–08190: Discrete Transactions  
**08200–08399: nCUBE**  
08401–08499: PL/SQL Utility Packages for Procedural Gateway  
**08500–08799: SQL\*Connect**  
09100–09199: Oracle Gateways  
**09200–09499: DOS, OS/2, and Novell**  
**09500–09699: MPE/XL**  
**09700–09999: UNIX**  
**10000–10999: Internal**  
**11000–11999: SQL\*Net MVS**

12000–12019: Table Snapshots  
**12100–12299: SQL\*Net**  
12300–12399: Multiple Mount  
12400–12499: Trusted Oracle  
**12500–12699: SQL\*Net**  
12700–12799: National Language Support NO TAG  
12800–12849: Parallel Query/Index Creation  
13000–13199: Spatial Data Option  
14000–14099: Partitioned Objects – Parsing  
14400–14499: Partitioned Objects – Execution  
14500–14999: Partitioned Objects – Analyze  
19999–21000: Stored Procedures  
**21100–21299: Internal Messages**  
23300–24299: DBMS PL/SQL Packages  
24300–24999: UPI/OCI Messages  
25000–25099: Trigger Errors  
25100–25199: Parsing Errors  
25200–25699: Advanced Queueing

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## Calling Customer Support

Some messages recommend calling Oracle's customer support to report a problem. When you call customer support, please have the following information at hand:

- the hardware, operating system, and release number of the operating system on which Oracle is running
- the complete release number of the Oracle Server. For example, 7.0.16 or 7.1.3
- all Oracle programs (with version numbers) in use when the error occurred. For example, SQL\*Net V2.0 or SQL\*Forms V3.0
- if you encountered one or more error codes or messages, the exact code numbers and message texts, in the order they appeared

- the problem severity, according to the following codes:
  - 1 = Program not usable. Critical impact on operations.
  - 2 = Program usable. Operations severely restricted.
  - 3 = Program usable with limited functions. Not critical to overall operations.
  - 4 = Problem circumvented by customer. Minimal effect, if any, on operations.

Also, you will be expected to give your

- name
- company's name
- company's Oracle Support ID Number
- phone number

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## Oracle Exception Messages

Oracle's extensive self-checking helps detect internal errors. Rather than frustrate you with cryptic messages, Oracle uses the following catchall message for Oracle internal exceptions:

```
ORA-00600: internal error code, arguments: [num], [], [],[],[],[]
```

An actual message might appear as follows:

```
ORA-00600: internal error code, arguments: [1042], [3],[upilam], [], [],[]
```

Notice that the message text is followed by up to six arguments, which indicate the origin and attributes of the error. The first argument is the internal error number. Other arguments are various numbers, names, and character strings. Empty brackets may be ignored.

In addition to being returned to the user, internal errors are also written to the Alert file along with additional information about the event causing the message. The Alert file also lists any trace files that may have been generated because of an internal error. See the following sections for descriptions of the trace and alert files.

If you receive an ORA-00600 message, report it as a software bug to customer support.

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## Trace Files



OSDoc

A trace file is created each time an Oracle instance starts or an unexpected event occurs in a user process or background process. The name of the trace file includes the instance name, the process name, and the Oracle process number. The file extension or file type is usually TRC, and, if different, is noted in your operating system-specific Oracle documentation. The contents of the trace file may include dumps of the system global area, process global area, supervisor stack, and registers.

Two initialization parameters specify where the trace files are stored:

### **BACKGROUND\_DUMP\_DEST**

Specifies the location for trace files created by the Oracle background processes PMON, DBWR, LGWR, and SMON.

### **USER\_DUMP\_DEST**

Specifies the location for trace files created by user processes such as SQL\*DBA, SQL\*Plus, or Pro\*C.

The Alert file also describes the location of trace files generated when internal errors occur. See the next section for a description of the Alert file.

You may need to format the trace file before using it to diagnose problems. To format a trace file, use the DUMPFMT utility, which is available on most systems and is described in your operating system-specific Oracle documentation. Customer support may ask you for a formatted trace file to help solve a problem.

For more information about trace files, see the *Oracle7 Server Administrator's Guide*.

---

## The Alert File

The Alert file is a log file that records information about internal errors and administrative activities, such as backups. When an internal error occurs, the message is sent to the terminal screen as well as written to the Alert file. Oracle also writes additional information about internal errors to the Alert file, such as the location and name of any trace files generated because of the error and so forth.



OSDoc

The name of the Alert file is operating system-specific. The location of the Alert file is the same as the location of the background process trace files. This location is specified by the BACKGROUND\_DUMP\_DEST initialization parameter. For more information, see your Oracle7 operating system-specific documentation.

If your system uses an operator's console, some messages from Oracle may appear on the console. All important messages are written to the Alert file as well as the operator's console. Because non-Oracle messages also appear on this console, the Alert file is a better record for tracing all Oracle administrative activity and errors than the console log.

The Alert file also records information about administrative activities, such as backups and archiving online redo log files. For more information about the Alert file, see the *Oracle7 Server Administrator's Guide*.





## CHAPTER

## 2

# Server Messages ORA–00000 to ORA–25699

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**00000–00100: Oracle Server**

This section lists the messages generated by the Oracle Server.

**ORA–00000    normal, successful completion**

**Cause**    An operation has completed normally, having met no exceptions.

**Action**    No action required.

**ORA–00001    unique constraint *table.column* violated**

**Cause**    An update or insert statement attempted to insert a duplicate key.

**Action**    Either remove the unique restriction or do not insert the key.

For Trusted Oracle7 configured in DBMS MAC mode, you may see this message if a duplicate entry exists at a different level.

**ORA–00017    session requested to set trace event**

**Cause**    The current session was requested to set a trace event by another session.

**Action**    This is used internally; no action required.

**ORA–00018      maximum number of sessions exceeded**

**Cause**      An operation requested a resource that was unavailable. The maximum number of sessions is specified by the initialization parameter SESSIONS. When this maximum is reached, no more requests are processed.

**Action**      Try the operation again in a few minutes. If this message occurs often, shut down Oracle, increase the SESSIONS parameter in the initialization parameter file, and restart Oracle.

**ORA–00019      maximum number of session licenses exceeded**

**Cause**      All licenses are in use.

**Action**      Call customer support before increasing the number of session licenses.

**ORA–00020      maximum number of processes *num* exceeded**

**Cause**      An operation requested a resource that was unavailable. The maximum number of processes is specified by the initialization parameter PROCESSES. When this maximum is reached, no more requests are processed.

**Action**      Try the operation again in a few minutes. If this message occurs often, shut down Oracle, increase the PROCESSES parameter in the initialization parameter file, and restart Oracle.

**ORA–00021      session attached to some other process; cannot switch session**

**Cause**      The user session is currently being used by someone else.

**Action**      Do not execute calls in a user session concurrently.

**ORA–00022      invalid session id; access denied**

**Cause**      Either the session specified does not exist, or the caller does not have the privilege to access it.

**Action**      Specify a valid session ID. This requires ownership of the session id or the CHANGE\_USER privilege.

- ORA-00023      session references process' private memory; cannot detach session**
- Cause** An attempt was made to detach the current session, which contains references to the process' private memory.
- Action** A session may contain references to process memory (PGA) if it has an open network connection, a very large context area, or operating system privileges. To allow the detach, it may be necessary to close the session's database links or cursors. Detaching a session with operating system privileges is always disallowed.
- ORA-00024      logins from more than one process not allowed in single-process mode**
- Cause** An attempt was made to log in more than once from different processes after Oracle had been started in single-process mode.
- Action** When Oracle is running in single-process mode, out of the previous process before trying to log in from another one.
- ORA-00025      failed to allocate *num***
- Cause** An allocation failed because Oracle ran out of memory.
- Action** Restart Oracle with a larger SGA heap.
- ORA-00026      missing or invalid session id**
- Cause** The session ID string specified in the ALTER SYSTEM KILL SESSION command was invalid, or no string was specified.
- Action** Retry the command with a valid session ID.
- ORA-00027      cannot kill current session**
- Cause** An attempt was made to kill the current session with the ALTER SYSTEM KILL SESSION command.
- Action** If it is necessary to kill the current session, do so from another session.
- ORA-00028      your session has been killed**
- Cause** A privileged user killed the session and it is no longer logged in to the database.
- Action** Contact the database administrator. The administrator may be attempting to perform an operation that requires users to be logged out. When the database administrator announces that the database is available, log in and resume work.

**ORA–00029      session is not a user session**

**Cause**      The session ID specified in an ALTER SYSTEM KILL SESSION command was not a user session. For example, the session may be recursively started.

**Action**      Retry the command with a valid session ID.

**ORA–00030      user session ID does not exist**

**Cause**      The user session ID no longer exists, probably because the session was logged out.

**Action**      Use a valid session ID.

**ORA–00031      session marked for kill**

**Cause**      The session specified in the ALTER SYSTEM KILL SESSION command cannot be killed immediately because the session is involved in a non-interruptible operation. For example, rolling back a transaction or being blocked by a network operation. The session has been marked to be killed as soon as possible after the current operation is done.

**Action**      No action required. The session will be killed when the operation is completed. Further executions of the ALTER SYSTEM KILL SESSION command may cause the session to be killed sooner.

**ORA–00033      current session has empty migration password**

**Cause**      An attempt was made to detach or clone the current session, and it has an empty migration password. This is not allowed.

**Action**      Create the session with a non-empty migration password.

**ORA–00034      cannot COMMIT or ROLLBACK in current PL/SQL session**

**Cause**      An attempt was made to ROLLBACK from a PL/SQL object (procedure, function, package) in a session where COMMIT and ROLLBACK are disabled by an ALTER SESSION DISABLE COMMIT IN PROCEDURE statement.

**Action**      Enable COMMITs from PL/SQL in this session or do not attempt a COMMIT or ROLLBACK when disabled.

**ORA–00035      LICENSE\_MAX\_USERS cannot be less than current number of users**

**Cause**      Specified value for LICENSE\_MAX\_USERS is less than current number of users.

**Action**      Check the license limit and drop extra users or purchase more licenses.

- ORA-00050**    **O/S error occurred while obtaining an enqueue. See O/S error**
- Cause**    Could not obtain the operating system resources necessary for an Oracle enqueue. This most often occurs when the user resource quota on the operating system is too low.
- Action**    Look up the operating system error in the operating system-specific Oracle documentation and perform the needed action.
- 
- ORA-00051**    **time-out occurred while waiting for resource**
- Cause**    This message is usually caused by an instance that has terminated abnormally.
- Action**    Restart any non-recovered instances.
- 
- ORA-00052**    **maximum number of enqueue resources *num* exceeded**
- Cause**    An operation requested a resource that was unavailable. The maximum number of enqueue resources is specified by the initialization parameter ENQUEUE\_RESOURCES. When this maximum is reached, no more requests are processed.
- Action**    Try the operation again in a few minutes. If this message occurs often, shut down Oracle, increase the ENQUEUE\_RESOURCES parameter in the initialization parameter file, and restart Oracle.
- 
- ORA-00053**    **maximum number of enqueues exceeded**
- Cause**    An operation requested a resource that was unavailable and the enqueue list for the resource had reached its maximum length. If a request is made for a resource that is unavailable, the request is enqueued to wait for the resource. The number of requests that may be queued for a given resource is specified by the initialization parameter ENQUEUE\_RESOURCES. When this maximum is reached, no more requests may be added to the enqueue list.
- Action**    Try the operation again in a few minutes. If this message occurs often, shut down Oracle, increase the ENQUEUE\_RESOURCES parameter in the initialization parameter file, and restart Oracle.
- 
- ORA-00054**    **resource busy and acquire with NOWAIT specified**
- Cause**    The NOWAIT keyword forced a return to the command prompt because a resource was unavailable for a LOCK TABLE or SELECT FOR UPDATE command.
- Action**    Try the command after a few minutes or enter the command without the NOWAIT keyword.

**ORA–00055      maximum number of DML locks exceeded**

**Cause**      An operation requested a resource that was unavailable. The maximum number of DML locks is specified by the DML\_LOCKS parameter in the initialization parameter file. When this maximum is reached, no more requests are processed.

**Action**      Try the operation again in a few minutes. If this message occurs often, shut down Oracle, increase the DML\_LOCKS parameter in the initialization parameter file, and restart Oracle.

**ORA–00056      DDL lock on object “*str.name*” already held in an incompatible mode**

**Cause**      The attempted lock is incompatible with the DDL lock already held on the object. This usually occurs when attempting to drop a table that has parse locks.

**Action**      Before attempting to drop a table, check that it has no parse locks. Wait a few minutes before retrying the operation.

**ORA–00057      maximum number of temporary table locks exceeded**

**Cause**      The number of temporary tables equals or exceeds the number of temporary table locks. Temporary tables are often created by large sorts.

**Action**      Increase the TEMPORARY\_TABLE\_LOCKS parameter and restart Oracle.

**ORA–00058      DB\_BLOCK\_SIZE must be *num* to mount this database not *num***

**Cause**      The DB\_BLOCK\_SIZE parameter value in the initialization parameter file used to start a database does not match the value used when that database was created.

Potential reasons for this mismatch are

- mounting the wrong database
- using the wrong initialization parameter file
- the DB\_BLOCK\_SIZE value was changed

**Action**      For one of the above causes, either

- mount the correct database
- use the correct initialization parameter file
- correct the DB\_BLOCK\_SIZE parameter value

**ORA-00059      maximum number of DB\_FILES exceeded**

**Cause** An unavailable resource was requested. The maximum number of datafiles is specified by the DB\_FILES parameter in the initialization parameter file. When this maximum is reached, no more requests are processed.

**Action** Try again when the resource is freed. If this message occurs often, Oracle must be shut down and restarted after increasing the DB\_FILES parameter in the initialization parameter file. If the DB\_FILES parameter cannot be changed because it is already set to the MAXDATAFILES parameter value, set at database creation, you must create a new control file.

**ORA-00060      deadlock detected while waiting for resource**

**Cause** Your session and another session are waiting for a resource locked by the other. This condition is known as a deadlock. To resolve the deadlock, one or more statements were rolled back for the other session to continue work.

**Action** Either

- Enter a ROLLBACK statement and re-execute all statements since the last commit.
- Wait until the lock is released, possibly a few minutes, and re-execute the rolled back statements.

**ORA-00061      another instance has a different DML\_LOCKS setting**

**Cause** The shared instance being started is using DML locks and the running instances are not, or vice versa.

**Action** Either

- Do not use DML\_LOCKS by setting DML\_LOCKS to zero at all instances.
- Use DML\_LOCKS by setting DML\_LOCKS to a positive integer at all instances.

**ORA-00062      DML full-table lock cannot be acquired; DML\_LOCKS is 0**

**Cause** The instance was started with the initialization parameter DML\_LOCKS set to zero, but the statement being executed needs a full-table lock (S, X, or SRX).

**Action** Set DML\_LOCKS to a non-zero value, restart the instance, and re-enter the statement.



**ORA–00063 LOG\_FILES initialization parameter exceeded**

**Cause** The value of the LOG\_FILES initialization parameter was exceeded.

**Action** Increase the value of LOG\_FILES and warm start Oracle. The value needs to be as large as the highest number log that currently exists rather than just the count of the logs that exist. If this parameter cannot be increased because it would exceed the MAXLOGFILES set at database creation, you must create a new control file first.

**ORA–00064 object is too large to allocate on this O/S *num*, *num***

**Cause** The initialization parameter DB\_BLOCK\_SIZE is set to a value that calls for more contiguous space than can be allocated on the operating system being used.

**Action** Reduce the value of DB\_BLOCK\_SIZE so that the requested contiguous space is within the capacity of the operating system.

**ORA–00065 initialization of FIXED\_DATE failed**

**Cause** An attempt was made to enter a fixed date string that was not in the proper format.

**Action** Enter the date string using the format YYYY–MM–DD:HH24:MI:SS.

**ORA–00066 LOG\_FILES is *num* but needs to be *num* to be compatible**

**Cause** The maximum number of redo log files supported by this instance is not the same as for the other instances. All instances must be able to open all the files any instance can open.

**Action** Check that the LOG\_FILES initialization parameter is the same for all instances.

**ORA–00067 invalid value *num* for parameter *num*, must be at least *num***

**Cause** The value for the initialization parameter is invalid.

**Action** Choose a value as indicated by the message. Change the value of the LOG\_FILES parameter to be compatible.

**ORA–00068 invalid value *num* for parameter *num*, must be between *num* and *num***

**Cause** The value for the initialization parameter is invalid.

**Action** Choose a value as indicated by the message. Change the value of the LOG\_FILES parameter to be compatible.

**ORA-00069    cannot acquire lock -- table locks disabled for *name***

**Cause**    A command was issued that tried to lock the table indicated in the message. Examples of commands that can lock tables are LOCK TABLE, ALTER TABLE ... ADD (...), and so on.

**Action**    Use the ALTER TABLE ... ENABLE TABLE LOCK command, and retry the command.

**ORA-00070    command *name* is not valid**

**Cause**    An invalid debugger command was specified.

**Action**    Type HELP to see the list of available commands.

**ORA-00071    process number must be between 1 and *num***

**Cause**    An invalid process number was specified.

**Action**    Specify a valid process number.

**ORA-00072    process \**

**Cause**    An invalid process was specified.

**Action**    Specify a valid process.

**ORA-00073    command *name* takes between *num1* and *num2* argument(s)**

**Cause**    An incorrect number of arguments was specified.

**Action**    Specify the correct number of arguments. Type HELP to see the list of commands and their syntax.

**ORA-00074    no process has been specified**

**Cause**    No debug process has been specified.

**Action**    Specify a valid process.

**ORA-00075    process \**

**Cause**    The specified process was not logged on to the current instance.

**Action**    Specify a valid process.

**ORA–00076      dump *name* not found**

**Cause**      An attempt was made to invoke a dump which doesn't exist.

**Action**      Type DUMPLIST to see the list of available dumps.

**ORA–00077      dump *name* is not valid**

**Cause**      An attempt was made to invoke an invalid dump.

**Action**      Try another dump.

**ORA–00078      cannot dump variables by name**

**Cause**      An attempt was made to dump a variable by name on a system which does not support this feature.

**Action**      Try the PEEK command.

**ORA–00079      variable *var* not found**

**Cause**      An attempt was made to dump a variable which doesn't exist.

**Action**      Use a valid variable name.

**ORA–00080      invalid global area specified by level *num***

**Cause**      An attempt was made to dump an invalid global area.

**Action**      Use level 1 for the PGA, 2 for the SGA, and 3 for the UGA. Use <extra + level> to dump global area as well as <extra> bytes for every pointer; <extra> must be a multiple of 4.

**ORA–00081      address range [*num1*, *num2*] is not readable**

**Cause**      An attempt was made to read/write an invalid memory address range.

**Action**      Try another address or length.

**ORA–00082      memory size of *num* is not in valid set of [1], [2],  
[4]*num1num2num3num4num5***

**Cause**      An invalid length was specified for the POKE command.

**Action**      Use a valid length (either 1, 2, 4, or possibly 8).

**ORA-00083     warning: possibly corrupt SGA mapped**

**Cause** Even though there may be SGA corruptions, the SGA was mapped.

**Action** Use the "dumpsga" command to dump the SGA.

**ORA-00084     global area must be PGA, SGA, or UGA**

**Cause** An attempt was made to dump an invalid global area.

**Action** Specify either PGA, SGA, or UGA.

**ORA-00085     current call does not exist**

**Cause** An invalid attempt was made to dump the current call heap.

**Action** Wait until the process starts a call.

**ORA-00086     user call does not exist**

**Cause** An invalid attempt was made to dump the user call heap.

**Action** Wait until the process starts a call.

**ORA-00097     use of Oracle SQL feature not in SQL92 *compliance* level**

**Cause** You tried to use an Oracle SQL feature that is not compliant with the SQL92 standard.

**Action** Do not use the feature or use the ALTER SESSION SET FLAGGER command to set the appropriate level of SQL92 compliance.

**ORA-00100     no data found**

**Cause** An application made reference to unknown or inaccessible data.

**Action** Handle this condition within the application or make appropriate modifications to the application code.

**Note:** If the application uses Oracle-mode SQL instead of ANSI-mode SQL, ORA-01403 will be generated instead of ORA-00100.

## **00101–00149: Multi-threaded Server**

This section lists message generated by the multi-threaded server.

**ORA-00100      no data found**

**Cause** An application made reference to unknown or inaccessible data.

**Action** Handle this condition within the application or make appropriate modifications to the application code.

**Note:** If the application uses Oracle-mode SQL instead of ANSI-mode SQL, ORA-01403. will be generated instead of ORA-00100.

**ORA-00101      invalid specification for initialization parameter MTS\_DISPATCHERS**

**Cause** The syntax for the MTS\_DISPATCHERS parameter is incorrect.

**Action** Enter the MTS\_DISPATCHERS parameter into the initialization parameter file with the correct syntax and then shut down and restart the instance.

**ORA-00102      network protocol *str* cannot be used by the dispatchers**

**Cause** The network specified in MTS\_DISPATCHERS initialization parameter does not have the functionality required by the dispatchers.

**Action** Refer to your Oracle7 operating system-specific documentation for network protocols supported by the dispatchers.

**ORA-00103      invalid network protocol; reserved for use by dispatchers**

**Cause** The network specified in SQL\*Net CONNECT string is reserved for use by the dispatchers.

**Action** Specify other network protocols in the CONNECT string.

**ORA-00104      deadlock detected; all public servers blocked waiting for resource**

**Cause** This message occurs when a client locks a resource and the maximum number of shared servers are taken by other clients who are requesting a locked resource. The original client is unable to get a shared server and cannot release the lock on the resource.

**Action** The system automatically starts up new servers to break the deadlock until the number of servers reaches the value specified in MTS\_MAX\_SERVERS. If this problem occurs frequently, ensure more shared servers will be available at the next restart of the instance by increasing the value of the initialization parameter MTS\_SERVERS or MTS\_MAX\_SERVERS.

- ORA-00105     dispatching mechanism not configured to support network protocol**
- Cause** The ALTER SYSTEM SET MTS\_DISPATCHERS command was used to alter a set of dispatchers for a network protocol that is not specified in the initialization parameter file.
- Action** Do either of the following:
- Include the network protocol in the MTS\_DISPATCHERS initialization parameter and restart the system.
  - Use the ALTER SYSTEM SET MTS\_DISPATCHERS command with a network protocol that exists in the initialization parameter file.
- ORA-00106     cannot startup/shutdown database when connected to a dispatcher**
- Cause** An attempt was made to start up or shut down an instance while connected to a shared server process via a dispatcher.
- Action** Reconnect to the database using a dedicated server.
- ORA-00107     failed to connect to network listener process**
- Cause** Usually caused by the fact that the network listener process has not been started.
- Action** Check for the following:
- The network configuration file is not set up correctly.
  - The client side address is not specified correctly.
  - The listener initialization parameter file is not set up correctly.
- ORA-00108     failed to set up dispatcher to accept connection asynchronously**
- Cause** The network protocol used by the dispatcher does not support asynchronous operations.
- Action** Contact customer support.
- ORA-00111     Warning: maximum number of servers is only *num*; adding *num* servers**
- Cause** An attempt was made to start more shared server processes than the number allowed by the initialization parameter MTS\_MAX\_SERVERS. The actual number of shared servers started is specified in the message.
- Action** If more shared server processes are required, increase the initialization parameter MTS\_MAX\_SERVERS and restart the instance.

**ORA–00112     only created up to *num* maximum specified dispatchers**

**Cause**     An attempt was made to start up more dispatchers than the maximum number specified by the initialization parameter MTS\_MAX\_DISPATCHERS.

**Action**     If more dispatchers are required, increase MTS\_MAX\_DISPATCHERS, restart the instance, and add dispatchers using the ALTER SYSTEM MTS\_DISPATCHERS command.

**ORA–00113     protocol name *string* is too long**

**Cause**     A protocol name specified in the MTS\_DISPATCHERS initialization parameter is too long.

**Action**     Use a valid protocol name for the MTS\_DISPATCHERS initialization parameter.

**ORA–00114     missing value for initialization parameter MTS\_SERVICE**

**Cause**     There is no value for the MTS\_SERVICE initialization parameter, nor for the DB\_NAME parameter.

**Action**     Add an MTS\_SERVICE or DB\_NAME definition to the initialization parameter file. By default, MTS\_SERVICE is the value of DB\_NAME unless MTS\_SERVICE is explicitly specified.

**ORA–00115     connection refused; dispatcher connection table is full**

**Cause**     A connection request was refused by a dispatcher because the dispatcher cannot support any more connections.

**Action**     Connect to a different dispatcher or use a dedicated server.

**ORA–00116     MTS\_SERVICE name is too long**

**Cause**     The service name specified in the MTS\_SERVICE initialization parameter is too long.

**Action**     Use a shorter name for the MTS\_SERVICE value (maximum is 255 characters).

**ORA–00117     value out of range for the MTS\_SERVERS system parameter**

**Cause**     The value of the MTS\_SERVERS parameter is incorrect.

**Action**     The MTS\_SERVERS parameter must be from 0 to MTS\_MAX\_SERVERS.

- ORA-00118 value out of range for MTS\_DISPATCHERS system parameter**
- Cause** The value of the MTS\_DISPATCHERS parameter is incorrect.
- Action** The sum of all MTS\_DISPATCHERS values must be from 0 to MTS\_MAX\_DISPATCHERS.
- ORA-00119 invalid specification for system parameter MTS\_LISTENER\_ADDRESS**
- Cause** The syntax for the MTS\_LISTENER\_ADDRESS is incorrect.
- Action** Refer to the *Oracle7 Server Administrator's Guide* for the correct syntax.
- ORA-00120 dispatching mechanism not enabled or installed**
- Cause** Either the dispatching mechanism is not enabled or the Oracle executable image is not installed with the dispatching mechanism.
- Action** Refer to the *Oracle7 Server Administrator's Guide* and your Oracle7 operating system-specific documentation for procedures for starting and configuring the dispatcher processes.
- ORA-00121 MTS\_SERVERS specified without MTS\_DISPATCHERS**
- Cause** A definition for MTS\_SERVERS was specified in the INIT.ORA file, but no definition for MTS\_DISPATCHERS was specified. If no value is specified for MTS\_DISPATCHERS, shared servers will not be used.
- Action** Add a definition for MTS\_DISPATCHERS in the INIT.ORA file. If you do not intend to use shared servers, remove the MTS\_SERVERS definition.
- ORA-00122 cannot initialize network configuration**
- Cause** Oracle could not initialize SQL\*Net Version 2.
- Action** See accompanying messages.
- ORA-00123 idle public server terminating**
- Cause** Too many idle servers were waiting on the common queue.
- Action** This is used internally, no action required.
- ORA-00124 MTS\_DISPATCHERS specified without MTS\_MAX\_SERVERS**
- Cause** A definition for MTS\_DISPATCHERS was specified in the INIT.ORA file, but MTS\_MAX\_SERVERS was specified as zero.
- Action** Specify MTS\_MAX\_SERVERS to be greater than zero.



**00150–00159: Oracle\*XA**

**ORA–00150      duplicate transaction ID**

**Cause**      Attempted to start a new transaction with an ID already in use by an existing transaction.

**Action**      Check that your application uses a valid transaction ID.

**ORA–00151      invalid transaction ID**

**Cause**      The specified transaction ID does not correspond to an existing valid transaction.

**Action**      Check that your application uses a valid transaction ID.

**ORA–00152      current session does not match requested session**

**Cause**      The current session is not the same as the session that was passed into a UPIXADO() call.

**Action**      Check that your application is coded correctly.

---

**00200–00249: Control Files**

**ORA–00200      cannot create control file *name***

**Cause**      The control file cannot be created, usually because of insufficient disk storage or filename conflicts.

**Action**      Check that there is sufficient disk space and no conflicts in filenames and try to create the control file again.

**ORA–00201      control file version *num* incompatible with Oracle version *num***

**Cause**      The control file was created by a different version of Oracle.

**Action**      Either

- Restart with version of Oracle used to create the control file.
- Use the CREATE CONTROLFILE command to create a new control file that is compatible with this release.

**ORA-00202     control file: *name***

**Cause** This message reports the name of the file involved in other messages.

**Action** See the associated messages for a description of the problem.

**ORA-00203     using the wrong control files**

**Cause** The mount ID in the control file is not the same as the mount ID in the control file used by the first instance to mount this database. The control files are for the same database but are not the same files. The most likely cause is that one instance is using a backup of the control file. If you want to use a backed up control file, you can recover using the USING BACKUP CONTROLFILE option.

**Action** Check that all instances are using the correct version of the control file.

**ORA-00204     error in reading control file *name* block *num*, # blocks *num***

**Cause** A disk read-failure occurred while attempting to read the specified control file. The block location of the failure is given.

**Action** Check that the disk is online. If it is not, bring it online and shut down and restart Oracle. If the disk is online, then look for operating system reasons for Oracle's inability to read the disk or control file. Refer to the *Oracle7 Server Administrator's Guide* for information about recovering from the loss of a control file. See also your operating system-specific Oracle documentation.

**ORA-00205     error in identifying control file *name***

**Cause** The system could not find a control file of the specified name and size.

**Action** Either

- Check that the proper control filename is referenced in the CONTROL\_FILES initialization parameter in the initialization parameter file and try again.
- When using mirrored control files, that is, more than one control file is referenced in the initialization parameter file, remove the control filename listed in the message from the initialization parameter file and restart the instance. If the message does not recur, remove the problem control file from the initialization parameter file and create another copy of the control file with a new filename in the initialization parameter file.

**ORA–00206      error in writing control file *name* block *num*, # blocks *num***

**Cause**      A disk write–failure occurred while attempting to write to the specified control file. The block location of the failure is given.

**Action**      Check that the disk is online. If it is not, bring it online and shut down and restart Oracle. If the disk is online, then look for operating system reasons for Oracle’s inability to write to the disk or control file. See the *Oracle7 Server Administrator’s Guide* for information on recovering from the loss of a control file. See also your operating system–specific Oracle documentation.

**ORA–00207      control files are not for the same database**

**Cause**      The database ID in the control file is not the same as the database ID in the control file used by the first instance to mount this database. The most likely cause is either that one of the mounts used the wrong control file or there are two databases with the same name.

**Action**      Check that the control file is for the correct database and not an old version. When using multiplexed control files, that is, more than one control file is referenced in the initialization parameter file, remove the control filename listed in the message from the initialization parameter file and restart the instance. If the message does not recur, remove the problem control file from the initialization parameter file and create another copy of the control file using a new filename in the initialization parameter file.

**ORA–00208      number of control file names exceeds limit of *num***

**Cause**      An attempt was made to use more control files than Oracle supports. The limit is given in the message.

**Action**      Shut down Oracle, reduce the number of control filenames specified in the CONTROL\_FILES parameter in the initialization parameter file, and restart Oracle. Delete unused files.

**ORA–00209      block size *num* exceeds limit of *num* bytes**

**Cause**      A block size larger than that allowed by the operating system was specified.

**Action**      Reduce the block size to the amount specified in the message and try again.

**ORA-00210 cannot open control file *name***

**Cause** The system was unable to open a control file.

**Action** Check that the control file exists, that the storage device is online, and that the file is not locked by some other program and try again. Also, check to see that the operating system limit on the number of open files per process has not been exceeded.

When using multiplexed control files, that is, more than one control file is referenced in the initialization parameter file, remove the parameter from the initialization parameter file referencing the control filename indicated in the message and restart the instance. If the message does not recur, remove the problem control file from the initialization parameter file and create another copy of the control file using a new filename in the initialization parameter file.

**ORA-00211 control file *name* does not match previous control files**

**Cause** The specified control file is from another database.

**Action** Locate and specify the correct control file for this database, then retry the operation. When using multiplexed control files, that is, more than one control file is referenced in the initialization parameter file, remove the control filename listed in the message from the initialization parameter file and restart the instance. If the message does not recur, remove the problem control file from the initialization parameter file, create another copy of the control file, and include the new filename in the initialization parameter file.

**ORA-00212 block size *num* below minimum required size of *num* bytes**

**Cause** The specified block size is too small. Additional space is needed for system overhead.

**Action** Specify a larger block size and retry the operation.

**ORA-00213 cannot reuse control file *name*; old file size *num*, *num* required**

**Cause** To reuse a control file, it must be the same size as the previous one used.

**Action** In the CREATE DATABASE statement, do not specify REUSE.

**ORA-00214 control file *name* version *num* inconsistent with file *name* version *num***

**Cause** An inconsistent set of control files, datafiles, and redo log files was used.

**Action** Use a consistent set of control files, datafiles, and redo log files. That is, all the files must be for the same database and from the same time period.

**ORA–00215     must be at least one control file**

**Cause** No control file was specified, or the control file specified does not exist.

**Action** Specify at least one valid control file and retry the operation.

**ORA–00216     unable to determine physical block size for control file *name***

**Cause** An error occurred while determining the physical block size of the specified control file.

**Action** Check the accompanying message stack for more detailed information.

**ORA–00217     control file *name* physical block size *num* inconsistent with *num***

**Cause** The physical block size of the operating system is inconsistent with the block size of the control file.

**Action** The system will not operate with invalid control files. Either restore a valid control file or recreate the database. When using multiplexed control files, that is, more than one control file is referenced in the initialization parameter file, remove the control filename listed in the message from the initialization parameter file and restart the instance. If the message does not recur, remove the problem control file from the initialization parameter file and create another copy of the control file with a new filename in the initialization parameter file.

**ORA–00218     control file *name* was created with block size *num* now is *num***

**Cause** The physical block size, stored in the control file header, was different in physical block size returned by the O/S. This usually indicates that the control file was corrupted.

**Action** Restore a good copy of the control file.

For more information about control files and recovery, see the index entries on “control files,” “control files, backing up,” “control files, recovery and” in *Oracle7 Server Concepts*.

**ORA–00219     required control file size *num* larger than maximum *num***

**Cause** The CREATE DATABASE statement specified a combination of initialization parameters that results in the control file exceeding the internal maximum size.

**Action** You must recreate the database. In the CREATE DATABASE statement, use a value less than the maximum permissible value for clauses such as MAXDATAFILES and MAXLOGFILES as described in the *Oracle7 Server Administrator's Guide*.

- ORA-00220**     **control file *name* not mounted by first instance**
- Cause**     The specified control file has a different mount ID than the other control files that are being mounted. This means that the first instance to mount the database did not use this control file.
- Action**     Find and use the correct control file.
- 
- ORA-00221**     **error on write to control file**
- Cause**     An error occurred when writing to one or more of the control files.
- Action**     See accompanying messages.
- 
- ORA-00222**     **control file may not be queried using dispatcher**
- Cause**     Attempted to use client process connected to dispatcher. This is not allowed for queries to control file fixed tables due to the memory requirements.
- Action**     Connect directly to the instance, then execute the query.
- 
- ORA-00223**     **conversion datafile is invalid or incorrect version**
- Cause**     A Version 6 to Oracle7 conversion datafile contains invalid data or was created with an old version of the migration utility.
- Action**     Regenerate the conversion file with the correct version of the migration utility or use the correct file for converting the database.
- 
- ORA-00224**     **the specified file is not a control file**
- Cause**     The file specified in the initialization parameter file is not a control file.
- Action**     Edit the initialization parameter file and specify the correct control filename.
- 
- ORA-00225**     **expected size *num* of controlfile *name* differs from actual size *num***
- Cause**     The expected size of the control file as stored in its header was different than the actual operating system file size of the control file. This usually indicates that the control file was corrupted.
- Action**     Restore a good copy of the control file.
- For more information about control files and recovery, see the index entries on “control files,” “control files, backing up,” “control files, recovery and” in *Oracle7 Server Concepts*.

**00250–00299: Archiving and Recovery**

This section lists the messages generated when archiving or recovery of the database is in progress.

**ORA-00250 archiver not started**

**Cause** An attempt was made to stop automatic archiving, but the archiver process was not running.

**Action** No action required.

**ORA-00252 log *name* of thread *num* is empty, cannot archive**

**Cause** The specified redo log was not used since it was introduced to the database. It is also possible that the instance died during a log switch, and the log was left empty.

**Action** Empty logs do not need to be archived. Do not attempt to archive the redo log file.

**ORA-00253 limit of *num* exceeded by length *num* of archive string *name***

**Cause** The specified archive string is too long. The limit is given in the message.

**Action** Use a shorter string, making sure not to exceed the given limit and try again.

**ORA-00254 error in archive control string *archive\_log\_location***

**Cause** The specified archive log location is invalid in the archive command or the LOG\_ARCHIVE\_DEST initialization parameter.

**Action** Specify a valid location name.

**ORA-00255 error archiving log *name* of thread *num*, sequence # *num***

**Cause** An error occurred during archiving.

**Action** Check the accompanying message stack for more detailed information.

If the online log is corrupted then the log can be cleared using the UNARCHIVED option. This will make any existing backups useless for recovery to any time after the log was created, but does allow redo to be generated.

**ORA-00256      error occurred in translating archive text string *str***

**Cause** An error occurred while translating the archive control string.

**Action** Check the accompanying message stack for more detailed information.

**ORA-00257      archiver is stuck. CONNECT INTERNAL only, until freed**

**Cause** The ARCH process received an error while trying to archive a redo log file. If the problem is not resolved soon, the database will stop executing transactions. The most likely cause of this message is that the destination device is out of space to store the redo log file.

**Action** Check the archiver trace file for a detailed description of the problem. Also, verify that the device specified in the initialization parameter ARCHIVE\_LOG\_DEST is set up properly for archiving.

**ORA-00258      manual archiving in NOARCHIVELOG mode must identify log**

**Cause** An attempt was made to archive a redo log file manually without specifying the sequence number, group number, or filename while the database was in NOARCHIVELOG mode.

**Action** The name, group number, or thread and sequence number of redo log files must be specified to archive redo log files manually while the database is in NOARCHIVELOG mode.

**ORA-00259      log *name* of open thread *num* is the current log, cannot archive**

**Cause** An attempt was made to archive the current log of an open thread. This is not allowed because the redo log file may still be in use for generation of redo entries.

**Action** Force a log switch in the instance where the thread is open. If no instances are open, open the database so instance recovery can recover the thread.



**ORA-00260 cannot find online log sequence *num* for thread *num***

**Cause** The log sequence number specified in the ARCHIVE statement does not match any of the online logs for the specified thread. This can result from any of the following situations:

- This log may have been reused for another sequence number.
- This log may have been dropped.
- The sequence number may be greater than the current log sequence number.
- The thread may not have any logs.

**Action** Check the ARCHIVE statement; then specify a valid log sequence number.

**ORA-00261 log *name* of thread *num* is being archived or modified, cannot archive**

**Cause** Either the log is being archived by another process or an administrative command is executing and modifying the log. Clearing, adding a member, dropping a member, renaming a member, and dropping the log are operations that modify a log.

**Action** Wait for the current operation to complete and try again.

**ORA-00262 current log *name* of closed thread *num* cannot switch**

**Cause** The log cannot be cleared or manually archived because it is the current log of a closed thread, and it is not possible to switch logs so another log is current. All other logs for the thread need to be archived or cleared and cannot be reused.

**Action** Archive another log in the same thread first or complete the clearing. See attached errors for the reason the switch cannot be completed.

**ORA-00263 there are no logs that need archiving for thread *num***

**Cause** An attempt was made to archive the unarchived logs in this thread manually, but no logs need archiving.

**Action** No action required.

**ORA-00264 no recovery required**

**Cause** An attempt was made to perform media recovery on files that do not need any type of recovery.

**Action** Do not attempt to perform media recovery on the selected files. Check to see that the filenames were entered properly. If not, retry the command with the proper filenames.

- ORA-00265**    **instance recovery required, cannot set ARCHIVELOG mode**
- Cause**    The database either crashed or was shut down with the ABORT option. Media recovery cannot be enabled because the online logs may not be sufficient to recover the datafiles.
- Action**    Open the database and then enter the SHUTDOWN command with the NORMAL or IMMEDIATE options.
- ORA-00266**    **name of archived log file needed**
- Cause**    During media recovery, the name of an archived redo log file was requested, but no name was entered.
- Action**    Mount the correct redo log file and enter its name when it is requested.
- ORA-00267**    **name of archived log file not needed**
- Cause**    During media recovery, the name of an archived redo log file was entered, but no name was requested.
- Action**    Continue media recovery, but do not enter a new log name.
- ORA-00268**    **specified log file does not exist *name***
- Cause**    The given redo log file does not exist.
- Action**    Check the spelling and capitalization of the filename and retry the command.
- ORA-00269**    **specified log file is part of thread *num* not *num***
- Cause**    The given redo log file is not part of the given thread.
- Action**    Check that the thread of the redo log file matches the thread on the command line. If not, use a redo log file from the appropriate thread. Retry the command after correcting the error.
- ORA-00270**    **error creating archive log**
- Cause**    An error was encountered when either creating or opening the destination file for archiving.
- Action**    Check that the archive destination is valid and that there is sufficient space on the destination device.

**ORA–00271    there are no logs that need archiving**

**Cause**    An attempt was made to archive the unarchived redo log files manually, but there are no files that need to be archived.

**Action**    No action required.

**ORA–00272    error writing archive log**

**Cause**    An I/O error occurred while archiving a redo log file.

**Action**    Check that the output device is still available and correct any device errors that may have occurred. Also, make certain that sufficient space for archiving is available on the output device.

**ORA–00273    media recovery of direct load data that was not logged**

**Cause**    A media recovery session encountered a table that was loaded by the direct loader without logging any redo information. Some or all of the blocks in this table are now marked as corrupt.

**Action**    The table must be dropped or truncated so that the corrupted blocks can be reused. If a more recent backup of the file is available, try to recover this file to eliminate this error.

**ORA–00274    illegal recovery option *str***

**Cause**    An illegal option was specified for a recovery command.

**Action**    Correct the syntax and retry the command.

**ORA–00275    media recovery has already been started**

**Cause**    An attempt was made to start a second media recovery operation in the same session.

**Action**    Complete or cancel the first media recovery session or start another session to perform media recovery.

**ORA–00276    CHANGE keyword specified but no change given**

**Cause**    The CHANGE keyword was specified on the command line, but no change number was given.

**Action**    Retry the command using a valid change number after the CHANGE keyword.

- ORA-00277**    **illegal option to the UNTIL recovery flag *str***
- Cause**    Only CANCEL, CHANGE and TIME can be used with the UNTIL keyword.
- Action**    Correct the syntax.
- 
- ORA-00278**    **log file *name* no longer needed for this recovery**
- Cause**    The specified redo log file is no longer needed for the current recovery.
- Action**    No action required. The archived redo log file may be removed from its current location to conserve disk space, if needed. However, the redo log file may still be required for another recovery session in the future.
- 
- ORA-00279**    **change *num* generated at *name* needed for thread *num***
- Cause**    The requested log is required to proceed with recovery.
- Action**    Please specify the requested log in the command or cancel recovery.
- 
- ORA-00280**    **change *num* for thread *num* is in sequence #*num***
- Cause**    This message helps to locate the redo log file with the specified change number requested by other messages.
- Action**    Use the information provided in this message to specify the required archived redo log files for other errors.
- 
- ORA-00281**    **media recovery may not be performed using dispatcher**
- Cause**    An attempt was made to use a dispatcher process for media recovery. Memory requirements disallow this recovery method.
- Action**    Connect to the instance via a dedicated server process to perform media recovery.
- 
- ORA-00282**    **UPI *name* call not supported, use ALTER DATABASE RECOVER**
- Cause**    The given UPI call is no longer supported.
- Action**    Use the ALTER DATABASE RECOVER command for all recovery actions.
- 
- ORA-00283**    **recovery session canceled due to errors**
- Cause**    An error during recovery was determined to be fatal enough to end the current recovery session.
- Action**    More specific messages will accompany this message. Refer to the other messages for the appropriate action.

**ORA–00284      recovery session still in progress**

**Cause**      An error during recovery was determined to be minor enough to allow the current recovery session to continue.

**Action**      More specific messages will accompany this message. Refer to other messages for the appropriate action.

**ORA–00285      TIME not given as a string constant**

**Cause**      UNTIL TIME was not followed by a string constant for the time.

**Action**      Enter the time enclosed in single quotation marks.

**ORA–00286      no members available, or no member contains valid data**

**Cause**      None of the members of a redo log file group are available, or the available members do not contain complete data.

**Action**      If a member is temporarily off line, attempt to make it available. Check that the correct filenames are being used, especially if the redo log file is being accessed from a remote location.

**ORA–00287      specified change number *num* not found in thread *num***

**Cause**      The given change number does not appear in any of the online redo logs for the given thread.

**Action**      Check the statement to make certain a valid change number is given. Perhaps try to use the NEXT option for archiving logs.

**ORA–00288      to continue recovery type ALTER DATABASE RECOVER CONTINUE**

**Cause**      During media recovery, redo information from a new log is not required but the continuation command is necessary to do a checkpoint and report errors.

**Action**      Type ALTER DATABASE RECOVER CONTINUE and recovery will resume.

**ORA–00289      suggestion: *filename***

**Cause**      This message reports the next redo log filename that is needed, according to the initialization parameters LOG\_ARCHIVE\_DEST and LOG\_ARCHIVE\_FORMAT. This message assumes that LOG\_ARCHIVE\_DEST and LOG\_ARCHIVE\_FORMAT are the same now as when the required redo log file was archived.

**Action**      Consider using this filename for the next log needed for recovery.

- ORA-00290     operating system archiving error occurred. See error below**
- Cause** While attempting to archive to a redo log file, the server encountered an unexpected operating system error.
- Action** Correct the operating system error given in the messages and retry the operation. See also your operating system-specific Oracle documentation.
- 
- ORA-00291     numeric value required for PARALLEL option**
- Cause** A recovery command was specified incorrectly. The PARALLEL option must be followed by a numeric argument that specifies the degree of parallelism.
- Action** Re-enter the command with a numeric argument specifying the degree of parallelism desired.
- 
- ORA-00292     parallel recovery feature not installed**
- Cause** A parallel recovery was requested when the parallel recovery option is not installed.
- Action** Delete the PARALLEL clause from the RECOVER command. Also, delete the RECOVERY\_PARALLELISM parameter in the initialization file.
- 
- ORA-00293     control file out of sync with redo log**
- Cause** The redo log and control file are out of sync because a non-current control file was specified when the instance was started.
- Action** Retry the Recover command using the current control file or retry the Recover command using the USING BACKUP CONTROL FILE clause.

**00300–00369: Redo Log Files**

This section lists messages generated when the Redo Log Files are being accessed.

**ORA-00300     illegal redo log block size *num* specified – exceeds limit of *num***

**Cause**     The specified block size of the redo log file is greater than the maximum block size for the operating system.

**Action**     Create the redo log on a device with a smaller block size.

**ORA-00301     error in adding log file *name* – file cannot be created**

**Cause**     The creation of the redo log file failed.

**Action**     Check that there is enough storage space on the device, that the name of the file is valid, and that the device is online; then try again.

Also, it is possible REUSE was specified on the command line and a file of the incorrect size exists. Either do not specify REUSE or use a file of the correct size.

**ORA-00302     limit of *num* logs exceeded**

**Cause**     The maximum number of redo log files has been exceeded. There is a limit, set at database creation, on the number of redo log files (typically 16).

**Action**     Use the CREATE CONTROLFILE command with a larger value for MAXLOGFILES.

**ORA-00304     requested INSTANCE\_NUMBER is busy**

**Cause**     An instance tried to start by using a value of the initialization parameter INSTANCE\_NUMBER that is already in use.

**Action**     Specify another value for INSTANCE\_NUMBER in the initialization parameter file or wait for recovery to finish for that instance number. Then restart the instance.

**ORA-00305     log *name* of thread *num* inconsistent; belongs to another database**

**Cause**     The database ID in the redo log file does not match the database ID in the control file. This redo log file is not from the current database.

**Action**     Specify the correct redo log file, then retry the operation.

**ORA-00306      limit of *num* log writer instances in this database**

**Cause** Starting this instance would exceed the maximum number of instances allowed for this database. This message occurs only when attempting to start another instance in Parallel Server mode.

**Action** It is not possible to start more than the given number of instances. The maximum is the lower of the operating system-specific maximum or the MAXINSTANCES option specified in the CREATE DATABASE statement. See also your operating system-specific Oracle documentation.

**ORA-00307      requested INSTANCE\_NUMBER out of range, maximum is *num***

**Cause** The initialization parameter INSTANCE\_NUMBER specified a number that was out of range.

**Action** Change INSTANCE\_NUMBER to a valid range and restart the instance. The minimum value is one and the maximum value is the lower of the operating system-specific maximum or the MAXINSTANCES option specified in the CREATE DATABASE statement. See also your operating system-specific Oracle documentation.

**ORA-00308      cannot open archived log *name***

**Cause** The system cannot access a required archived redo log file.

**Action** Check that the off line log exists, the storage device is online, and the archived file is in the correct location. Then attempt to continue recovery or restart the recovery session.

**ORA-00309      log belongs to wrong database**

**Cause** The system cannot access the archived redo log because it belongs to another database.

**Action** Specify the correct redo log file, then retry the operation.

**ORA-00310      archived log contains sequence *num*; sequence *num* required**

**Cause** The archived log is out of sequence, probably because it is corrupted or the wrong redo log filename was specified during recovery.

**Action** Specify the correct redo log file; then retry the operation.



### ORA–00311    **cannot read header from archived log**

**Cause**    An error occurred when attempting to read the file header from the archived redo log file.

**Action**    Other messages will accompany this message. See the associated messages for the appropriate action to take.

### ORA–00312    **online log *name* thread *num*: *str***

**Cause**    This message reports the filename for details of another message.

**Action**    Other messages will accompany this message. See the associated messages for the appropriate action to take.

### ORA–00313    **open failed for members of log group *name* of thread *name***

**Cause**    The online log cannot be opened. The file may not be in the expected location.

**Action**    Specify the correct redo log file or make log available, if necessary. Also, see the following messages, if any.

### ORA–00314    **log *name* of thread *num*, expected sequence # *num* does not match *num***

**Cause**    The online log is out of sequence, probably because it is corrupted or an old version.

**Action**    For more information on recovery procedures, see the *Oracle7 Server Administrator's Guide*.

### ORA–00315    **log *name* of thread *num*, wrong thread # *num* in header**

**Cause**    The online redo log file is corrupted or is an old version.

**Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.

### ORA–00316    **log *name* of thread *num*, type *str* in header is not redo log file**

**Cause**    The online redo log file is corrupted or is an old version.

**Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.

### ORA–00317    **file type *str* in header is not log file**

**Cause**    This is not an archived redo log file.

**Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.

- ORA-00318**    **log *name* of thread *num*, expected file size *num* does not match *num***
- Cause**    The file size indicated in the control file did not match the file size contained in the redo log file.
- Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.
- ORA-00319**    **log *name* of thread *num* has incorrect log reset status**
- Cause**    An online redo log file has log reset data that is different from the log reset data listed in the control file. The redo log file is probably an incorrectly restored backup.
- Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.
- ORA-00320**    **cannot read file header from log *name* of thread *num***
- Cause**    The system is unable to read the redo log file header because the file is not available or the file is corrupted.
- Action**    Specify the correct redo log file, then retry the operation.
- ORA-00321**    **log *name* of thread *num*, cannot update log file header**
- Cause**    The system cannot write to the redo log file.
- Action**    Restore access to the redo log file; then retry the operation.
- ORA-00322**    **log *name* of thread *num* is not current copy**
- Cause**    An online redo log file appears to be an incorrectly restored backup, according to a check of the redo log file header.
- Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.
- ORA-00323**    **current log of thread *num* not usable and all others need archiving**
- Cause**    An attempt to open a thread failed because it is necessary to switch to another online log, but all the other online redo logs need to be archived before they can be used.
- Action**    Archive the online redo logs for the thread, then retry the operation.
- ORA-00324**    **log file *name* translated name *name* too long, *num* characters exceeds *num* limit**
- Cause**    The translated name for a redo log file is too long.
- Action**    Respecify a redo log filename that produces a shorter filename on translation.

### **ORA–00325      archived log for thread *num*, wrong thread # *num* in header**

**Cause**      The archived redo log file is corrupted, or it belongs to another thread. This redo log file cannot be used.

**Action**      Find and use the correct archived redo log file, then retry the operation.

### **ORA–00326      log begins at change *num*, need earlier change *num***

**Cause**      The archived redo log file supplied for recovery was generated after the redo log file that is needed. Cannot use the log for applying redo information at this time.

**Action**      Find and install the correct archived redo log file, then retry the operation.

### **ORA–00327      log *name* of thread *num*, physical size *num* less than needed *num***

**Cause**      A redo log file has shrunk in size. This is usually caused by a computer operator's mistake or an operating system error.

**Action**      Restore the redo log file from backup. If the database was shut down cleanly, no further action should be required. Otherwise, manual recovery may be necessary.

### **ORA–00328      archived log ends at change *num*, need later change *num***

**Cause**      The archived redo log file supplied for recovery was generated before the log that is needed. Cannot use the log for applying redo information at this time.

**Action**      Find and install the correct archived redo log file, then retry the operation.

### **ORA–00329      archived log begins at change *num*, need change *num***

**Cause**      The archived redo log file supplied for recovery is not the correct log. An earlier redo log file is needed.

**Action**      Find and install the correct archived redo log file, then retry the operation.

### **ORA–00330      archived log ends at change *num*, need change *num***

**Cause**      The archived redo log file supplied for recovery is not the correct log. A later redo log file is needed.

**Action**      Find and install the correct archived redo log file, then retry the operation.

**ORA-00331 log version *num* incompatible with Oracle version *num***

**Cause** The log was created under an older, incompatible version of Oracle, or an attempt was made to use the wrong log.

**Action** Specify the correct redo log file or recover the database with the old software. Then shut down and restart Oracle with the new software.

**ORA-00332 archived log is too small – may be incompletely archived**

**Cause** The log occupies less space than is allocated to it. This may result from a shutdown abort while the archiver was writing it.

**Action** Get a complete version of the file, either the online version or one that was successfully archived, and use that for recovery.

**ORA-00333 redo log read error block *num* count *num***

**Cause** An error occurred while reading the redo log file. Other messages will accompany this message and will give the name of the file.

**Action** Restore access to the file or get another copy of the file.

**ORA-00334 archived log: *name***

**Cause** This message reports the filename involved with other errors.

**Action** See the associated messages for a description of the problem.

**ORA-00335 online log *name*: No log with this number, log does not exist**

**Cause** This message reports the filename involved with other messages.

**Action** Correct the underlying problems mentioned in the other messages.

**ORA-00336 log file size *num* blocks is less than minimum *num* blocks**

**Cause** The redo log file size specified in the CREATE DATABASE statement is too small.

**Action** Increase the redo log file size and re-enter the statement.

**ORA-00337 log file *name* does not exist and no size specified**

**Cause** The system could not add a redo log file because it could not find an existing file or a size for creating the file.

**Action** Specify a size for the redo log file, then retry the operation.

**ORA–00338    log *name* of thread *num* is more recent than control file**

**Cause**    The control file change sequence number in the redo log file is greater than the number in the control file. This implies that the wrong control file is being used. Note that repeatedly causing this error to happen by reopening the database may cause the error to stop happening without correcting the problem. Every attempt to open the database advances the control file change sequence number.

**Action**    Use the correct control file or perform recovery using a backup of the control file.

**ORA–00339    archived log does not contain any redo**

**Cause**    The archived log being applied is not the correct log. The log being applied is possibly a copy of a log or was an online log being prepared to be used as the current log.

**Action**    Restore the correct redo log file.

**ORA–00340    I/O error processing online log *name* of thread *num***

**Cause**    An I/O error occurred on the named online redo log file, probably because the file was not accessible or because it was corrupted.

**Action**    Restore access to the file or restore the file from a backup.

**ORA–00341    log *name* of thread *num*, wrong log # *num* in header**

**Cause**    The internal information in an online redo log file does not match the control file information.

**Action**    Refer to the *Oracle7 Server Administrator's Guide* for recovery procedures.

**ORA–00342    archived log was created before last RESETLOGS**

**Cause**    Recovery was given a log that was created before the last ALTER DATABASE OPEN RESETLOGS command. There should be another log created since then that contains the correct redo.

**Action**    Find and install the correct archived redo log file, then retry the operation.

**ORA–00343    too many errors, log member closed**

**Cause**    The maximum number of errors on this log member has been exceeded. Other messages will accompany this message.

**Action**    Correct the underlying problems mentioned in the other messages.

**ORA-00344     unable to recreate online log *name***

**Cause** An I/O failure occurred when attempting to recreate an online log as part of either an ALTER DATABASE OPEN RESETLOGS or ALTER DATABASE CLEAR log file command.

**Action** Check the accompanying messages. Check that the file is accessible.

**ORA-00345     redo log write error block *num* count *num***

**Cause** An I/O error has occurred while writing the log, probably because the file was not accessible, or a device failed.

**Action** Make the file accessible or restore the device, then restart the system. If the log is lost, apply media or incomplete recovery.

**ORA-00346     log member marked as STALE**

**Cause** A redo log file member is no longer complete. Other messages will accompany this message.

**Action** Correct the underlying problem mentioned in the other messages.

**ORA-00347     log *name* of thread *num* expected block size *num* does not match *num***

**Cause** During online recovery, the block size specified in the control file did not match the block size indicated in the redo log file.

**Action** Restore the correct redo log file from a backup or reset the online redo log files.

**ORA-00348     single-process redo failure. Must abort instance**

**Cause** A failure occurred during a single-process redo log operation. This error does not occur during normal multi-process operations.

**Action** Shut down and restart the database.

**ORA-00349     failure obtaining block size for *name***

**Cause** The operating system was unable to determine the block size for the named file.

**Action** Check the accompanying messages, then restore the device or specify another file.

### **ORA–00350    log *name* of thread *num* needs to be archived**

**Cause** Media recovery is enabled and the specified log was not archived.

**Action** Archive the redo log file or disable media recovery. If the command supports the UNARCHIVED option, then it can be used. However, this may result in making backups unusable and forcing some offline files to be dropped.

### **ORA–00351    recover–to time invalid**

**Cause** The time specified in a RECOVER DATABASE... UNTIL is before January 1, 1988.

**Action** Specify a time after January 1, 1988.

### **ORA–00352    all logs for thread *num* need to be archived – cannot enable**

**Cause** An attempt was made to enable a thread when all of the online redo log files in the thread needed to be archived, and media recovery has been enabled. There is no online redo log file that can be made the new current log for the thread.

**Action** Archive a redo log file for the thread.

### **ORA–00353    log corruption near block *num* change *str* time *str***

**Cause** Some type of redo log file corruption has been discovered. This message describes the location of the corruption. Other messages will accompany this message and describe the type of corruption.

**Action** Perform recovery with a good version of the redo log file or perform incomplete recovery up to the indicated change or time.

For more information about recovery and incomplete recovery, see the index entries on “recovery, incomplete” and on “redo log files” in *Oracle7 Server Concepts*.

### **ORA–00354    corrupt redo log block header**

**Cause** The block header on the block in the redo log file is not valid. The block number and time–stamp are given in an accompanying message.

**Action** Perform recovery with a good version of the redo log file or perform cancel–based recovery up to, but not including, the corrupted redo log file.

**ORA-00355      change numbers out of order**

**Cause** A change number found in the redo log file is lower than a previously encountered change number. The redo log file is corrupted in some way. The corruption may be at the earlier change number or at this one. The block number and time-stamp are given in an accompanying message.

**Action** Perform recovery with a good version of the redo log file or perform time-based recovery up to the indicated time.

**ORA-00356      inconsistent lengths in change description**

**Cause** A change record in the redo log file contains lengths that do not add up to a consistent value. The redo log file is corrupted in some way.

**Action** Perform recovery with a good version of the redo log file or perform time-based recovery up to the indicated time.

**ORA-00357      too many members specified for log file, the maximum is *num***

**Cause** An attempt was made to add a redo log group or add a redo log group member that would result in a set of online redo logs with too many members. The maximum number of members is set when the database is created.

**Action** Use fewer redo log group members or use the CREATE CONTROLFILE command and set the parameter MAXLOGMEMBERS to a larger value.

**ORA-00358      too many file members specified, the maximum is *num***

**Cause** A CREATE or ALTER statement specified too many members in the file list.

**Action** Specify a number of files that is within the given limit or use the CREATE CONTROLFILE command and set the parameter MAXLOGMEMBERS to a larger value.

**ORA-00359      log file group *num* does not exist**

**Cause** An attempt to add or drop a redo log group member specified a redo log file group number that does not exist.

**Action** Check the configuration of the redo log files and retry the command with a valid group number.

**ORA-00360      not a log file member: *name***

**Cause** An invalid filename was given to drop a redo log group member. Either the file is not a part of the database, or it is a datafile.

**Action** Specify a valid member name and retry the command.



**ORA–00361 cannot remove last log member *name* group *num***

**Cause** An attempt was made to remove the last member of a redo log group.

**Action** If desired, delete the entire log by using the DROP log file command.

**ORA–00362 member is required to form a valid log file in group *name***

**Cause** A request to drop a redo log group member was denied because it would remove data required to form a complete online redo log group.

**Action** If desired, delete the entire log after archiving, if required, using the DROP log file command.

**ORA–00363 log is not the archived version**

**Cause** The log given for recovery is a backup of the online version from the time it was the current log. The archived version of the log would not be marked as the end of the thread. This message can also be caused by failing to list the current log of an enabled thread in a CREATE CONTROLFILE command.

**Action** Find the archived version of the log and specify its name. If this is media recovery immediately following a CREATE CONTROLFILE, be sure the current log for this thread was included.

**ORA–00364 cannot write header to new log member**

**Cause** An I/O error occurred when attempting to write the header to a redo log group member that is being added to an existing group.

**Action** See accompanying messages. Fix the problem or use another file.

**ORA–00365 the specified log is not the correct next log**

**Cause** The specified log failed to pass checks to ensure it corresponds to the log that was generated against a cold backup image of the database.

**Action** Find the log that was generated by this copy of the database and give that filename to recover.

**ORA–00369 current log of thread *num* not useable and other log being cleared**

**Cause** Attempt to open thread failed because it is necessary to switch redo generation to another online log, but all the other logs are being cleared or need to be archived before they can be used.

**Action** If the ALTER DATABASE CLEAR log file command is still active then wait for it to complete. Otherwise, re-enter the CLEAR command. If there are other online logs for the thread that are not being cleared, then archive the logs.

---

**00370–00389: KCB Errors****ORA-00371    no free buffer handles available**

**Cause**    The value of the initialization parameter DB\_HANDLES is too small.

**Action**    Shut down the instance, increase the value of DB\_HANDLES in the initialization parameter file, and then restart the instance. Under normal circumstances, let DB\_HANDLES take its default value by omitting the parameter from the initialization parameter file.

**ORA-00372    file *name* cannot be modified at this time**

**Cause**    An attempt was made to access a file being taken off line, or the database may be closing.

**Action**    Access the file after it is taken off line. Attempts will either succeed because the datafile is back online or fail with a message describing which file is off line. Repeat until successful.

**ORA-00373    online log version *num* incompatible with Oracle version *num***

**Cause**    The online log was written by an incompatible version of Oracle. This can occur when the redo log file was created by either a newer or older version of Oracle.

**Action**    Recover the database using a compatible version, shut it down cleanly; then restart with the current software.

**ORA-00374    parameter DB\_BLOCK\_SIZE = *num* invalid, valid range *num*..*num***

**Cause**    An invalid value has been used for the DB\_BLOCK\_SIZE initialization parameter.

**Action**    Adjust the parameter and restart the instance.

**ORA-00375    unable to get default DB\_BLOCK\_SIZE**

**Cause**    The system was unable to determine the default DB\_BLOCK\_SIZE.

**Action**    See the corresponding operating system-specific message. As a work-around, specify the block size with the parameter DB\_BLOCK\_SIZE in the initialization parameter file. See also your operating system-specific Oracle documentation.

## 00390–00399: Redo Log Files

### ORA–00376    file *name* cannot be read at this time

**Cause**    An attempt was made to read from a file that is not readable. The most likely cause is that the file is off line.

**Action**    Check the state of the file. Bring the file online, if necessary.

---

## 00390–00399: Redo Log Files

### ORA–00390    log *name* of thread *num* is being cleared, cannot become current log

**Cause**    An attempt to switch to a new online log for the redo thread failed because no reusable log could be found. This log is being cleared and will be useable when the clearing completes. The command that began the clearing may have terminated without completing the clearing.

**Action**    If the clear command is still executing, then wait for its completion. If it terminated, then re–enter the clear command or drop the log.

### ORA–00391    all threads must switch to new log format at the same time

**Cause**    An attempt to switch the current log of a single thread is not allowed because the compatibility requirements force a new log format version number. When changing log formats, all threads must switch to the new format at the same time.

**Action**    Open the database to cause the coordinated log switch. If that is not possible, then return to the same software version and compatibility setting last used to open the database.

### ORA–00392    log *name* of thread *num* is being cleared, operation not allowed

**Cause**    An operation encountered this online log in the middle of being cleared. The command that began the clearing may have terminated without completing the clearing.

**Action**    If the clear command is still executing, then wait for its completion. If it terminated, then re–enter the clear command or drop the log.

**ORA-00393    log *name* of thread *num* is needed for recovery of offline datafiles**

**Cause** Log cannot be cleared because the redo in it is needed to recover offline datafiles. It has not been archived so there is no other copy available. If the log is cleared, the tablespaces containing the files will have to be dropped.

**Action** Archive the log, then repeat the clear command. If archiving is not possible and dropping the tablespaces is acceptable, then add the clause UNRECOVERABLE DATAFILE at the end of the clear command.

---

**00400–00420: Oracle Compatibility**

This section lists messages generated when different versions of Oracle communicate.

**ORA-00400    invalid release value *num* for parameter *name***

**Cause** The release level given for the specified initialization parameter is invalid.

**Action** Correct the parameter value in the initialization parameter file and retry.

**ORA-00401    the value for parameter *name* is not supported by this release**

**Cause** The value specified cannot be supported by this release of the software.

**Action** Choose an appropriate value or remove the initialization parameter value to use the default value.

**ORA-00402    database changes by release *num* cannot be used by release *num***

**Cause** Changes have been made to the database that require a newer software release or that violate the open compatibility initialization parameters.

**Action** Use a version of the software that can understand the changes or relax the compatibility requirements in the initialization parameter file.

**ORA-00403    *str str* is not the same as other instances *str***

**Cause** The recovery compatible, or recovery not compatible, initialization parameters were changed for another running instance.

**Action** Change the initialization parameters of the current instance to match other instances already running.

## 00436–00437: Licensing

### ORA–00404    **conversion data file not found: *name***

**Cause**    The file used for converting the database from Oracle Version 6 to Oracle7 could not be found.

**Action**    Check that the conversion process has been started on this database and that the datafile name is accessible.

### ORA–00405    **compatibility type *name***

**Cause**    Reporting a type associated with another message.

**Action**    See accompanying message.

### ORA–00406    **COMPATIBLE parameter needs to be *num* or greater**

**Cause**    The specification for the initialization parameter COMPATIBLE is too low to allow the requested operation.

**Action**    Shut down and specify a higher COMPATIBLE value, then restart.

### ORA–00407    **rolling upgrade from release *num.num* to *num.num* is not allowed**

**Cause**    Another instance has the database mounted and that instance is for a different release of Oracle than you are using.

**Action**    Shut down and start up all instances with the new release of Oracle.

---

## 00436–00437: Licensing

This section lists messages generated when the installed Oracle product discovers a discrepancy in licensing codes.

### ORA–00436    **Oracle is not licensed. Contact Oracle Corporation for assistance**

**Cause**    This installed Oracle software is not licensed to run on this CPU. This can also occur if Oracle software has been installed incorrectly, for example, with the wrong licensing codes.

**Action**    Check that Oracle is installed correctly. Then contact customer support.

**ORA-00437    Oracle feature is not licensed. Contact Oracle Corporation for assistance**

**Cause** This installed Oracle feature is not licensed to run on this CPU. This can also occur if Oracle software has been installed incorrectly, for example, with the wrong licensing codes.

**Action** Check that Oracle is installed correctly. Then contact customer support.

---

**00440–00460: Detached Process Startup**

This section lists messages generated when background processes of the Oracle Server are started or shut down.

**ORA-00443    background process *name* did not start**

**Cause** The specified process did not start.

**Action** Check that the executable image is in the correct place with the correct protections and that there is enough memory.

**ORA-00444    background process *name* failed while starting**

**Cause** This message is usually caused by a faulty or non-existent background process image.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages or obtain a proper background process image, then retry the operation.

**ORA-00445    background process *name* did not start after *num* seconds**

**Cause** The specified process did not start.

**Action** Check and, if necessary, correct problems indicated by one or more of the following:

- the size of the SGA
- the operating system-specific initialization parameters
- accompanying messages
- the background trace file
- the executable image is not in the right location with the correct protections

See also your operating system-specific Oracle documentation.

## 00470–00485: Detached Process Death

### ORA–00446 background process started when not expected

**Cause** A background process started after Oracle was already running.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. If no user on site started the process, report the message to customer support.

### ORA–00447 fatal error in background process

**Cause** One of the background processes completed unexpectedly.

**Action** Restart the system. Check and, if necessary, correct the problem indicated by the background trace file in BACKGROUND\_DUMP\_DEST.

### ORA–00448 normal completion of background process

**Cause** One of the background processes completed normally as requested by the user.

**Action** If you are solving a problem, check for other messages and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart Oracle.

### ORA–00449 background process *name* unexpectedly terminated with error *num*

**Cause** A foreground process needing service from a background process has discovered the background process died.

**Action** Refer to the message code given in the message and the trace file for the foreground and the background processes.

---

## 00470–00485: Detached Process Death

### ORA–00470 LGWR process terminated with error

**Cause** The log writer process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process errors, check the trace file for the mentioned process until the root error is found.

**ORA-00471 DBWR process terminated with error**

**Cause** The Database Writer process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

**ORA-00472 PMON process terminated with error**

**Cause** The Process Monitor process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

**ORA-00473 ARCH process terminated with error**

**Cause** The Archiver process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

**ORA-00474 SMON process terminated with error**

**Cause** The System Monitor process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

**ORA-00475 TRWR process terminated with error.**

**Cause** The system tracing process died.

**Action** Restart the instance.



## 00486–00569: Interrupt Handlers

### ORA–00476 RECO process terminated with error

**Cause** The distributed transaction, two-phase commit, recovery process died.

**Action** Restart the instance.

### ORA–00477 SNP\* process terminated with an error

**Cause** A snapshot refresh process died.

**Action** Restart the instance.

### ORA–00480 LCK\* process terminated with error

**Cause** One Lock process terminated abnormally.

**Action** Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then shut down and restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

### ORA–00483 during shutdown a process abnormally terminated

**Cause** One of the background processes did not exit normally when the instance shut down.

**Action** Use the SHUTDOWN ABORT command. Check the accompanying messages, if any, and the background process trace file. Correct the problem mentioned in the other messages. Then restart the instance. If the trace file mentions any other background process messages, check the trace file for the mentioned process until the root message is found.

---

## 00486–00569: Interrupt Handlers

### ORA–00568 maximum number of interrupt handlers exceeded

**Cause** The number of registered interrupt handling routines for when the break key is entered exceeds the maximum allowed.

**Action** Reduce the number of registered interrupt handlers.

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## 00570–00599: SQL\*Connect Opening and Reading Files

See “Related Publications” in the Preface, which indicates the Oracle manual containing the messages for this range.

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## 00600–00639: Oracle Exceptions

This section lists messages generated when an internal exception is generated within Oracle.

**ORA-00600**     **internal error code, arguments:** [*num*], [?], [?], [?], [?], [?]

**Cause**     This is a catchall internal error message for Oracle program exceptions. It indicates that a process has met a low-level, unexpected condition.

Various causes of this message include:

- time-outs
- file corruption
- failed data checks in memory
- hardware, memory, or I/O errors
- incorrectly restored files

The first argument is the internal message number. Other arguments are various numbers, names, and character strings. See “Calling Customer Support” on page 1 – 10 for more information. The numbers may change meanings between different versions of the Oracle Server.

**Action**     Report this error to customer support after gathering the following information:

- events that led up to the error
- the operations that were attempted that led to the error
- the conditions of the operating system and database at the time of the error
- any unusual circumstances that occurred before receiving the ORA-00600 message
- contents of any trace files generated by the error
- the relevant portions of the Alert file

**NOTE:** The cause of this message may manifest itself as different errors at different times. Be aware of the history of errors that occurred before this internal error.

## 00600–00639: Oracle Exceptions

### ORA–00601    **cleanup lock conflict**

**Cause**    The Process Monitor process encountered a lock conflict while trying to recover processes. This is an internal error message not usually issued.

**Action**    Contact customer support.

### ORA–00602    **internal programming exception**

**Cause**    An internal programming exception has occurred.

**Action**    Report this error as a program bug to customer support.

### ORA–00603    **Oracle Server session terminated by fatal error**

**Cause**    An Oracle Server session is in an unrecoverable state.

**Action**    Log in to Oracle again so a new server session will be created automatically. Examine the session trace file for more information.

### ORA–00604    **error occurred at recursive SQL level *num***

**Cause**    An error occurred while processing a recursive SQL statement. A recursive SQL statement is one that applies to internal dictionary tables.

**Action**    If the situation described in the next message on the stack can be corrected, do so; otherwise, contact customer support.

### ORA–00606    **internal error code**

**Cause**    A call to deferred UPI functions was made in non–deferred mode.

**Action**    Contact customer support.

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**00640–00699: SQL\*Connect**

See “Related Publications” in the Preface, which indicates the Oracle manual containing the messages for this range.

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**00700–00709: Dictionary Cache**

This section lists messages generated when the Oracle dictionary cache is accessed. Note that *row cache* is a synonym for *dictionary cache*.

**ORA–00701     object necessary for warm starting database cannot be altered**

**Cause** An attempt was made to alter or drop a table, cluster, or index defined in the control file’s bootstrap segment and needed to warm start the database.

**Action** Correct the spelling of the object name or remove it from the ALTER or DROP statement.

**ORA–00702     bootstrap version *version* inconsistent with version *version***

**Cause** The version of the bootstrap data in a file is incompatible with the current version of the software.

**Action** Restore a version of the software that is compatible with the datafiles.

**ORA–00703     maximum number of dictionary cache instance locks exceeded**

**Cause** An operation requested a resource that was unavailable. The maximum number of dictionary cache instance locks is specified by the ROW\_CACHE\_INSTANCE\_LOCKS parameter in the initialization parameter file. When this maximum is reached, no more requests are processed.

**Action** Try the operation again in a few minutes. If this error occurs often, contact customer support.

**ORA–00704     bootstrap process failure**

**Cause** An error occurred when processing bootstrap data. Refer to the accompanying messages for more information about the cause of the problem.

**Action** Correct the problems mentioned in the other messages. If the problem persists, contact customer support.

## **00816–00816: Message Translation**

### **ORA–00816    error message translation failed**

**Cause**    There is an internal error where a routine was unable to translate a message code.

**Action**    Contact customer support.

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## **00900–00999: SQL Parsing**

This section lists some of the messages generated when SQL statements are parsed by the Oracle Server. Most, but not all, messages in this section indicate incorrect SQL syntax. For SQL syntax, refer to *Oracle7 Server SQL Reference*.

### **ORA–00900    invalid SQL statement**

**Cause**    The statement is not recognized as a valid SQL statement.

This error can occur if the Procedural Option is not installed and a SQL statement is issued that requires this option; for example, a CREATE PROCEDURE statement. You can determine if the Procedural Option is installed by starting SQL\*Plus. If the PL/SQL banner is not displayed, then the option is not installed.

**Action**    Correct the syntax or install the Procedural Option.

### **ORA–00901    invalid CREATE command**

**Cause**    The CREATE command was not followed by a valid CREATE option.

**Action**    Correct the syntax.

### **ORA–00902    invalid datatype**

**Cause**    The datatype entered in the CREATE or ALTER TABLE statement is not valid.

**Action**    Correct the syntax.

**ORA-00903    invalid table name**

**Cause** A table or cluster name is invalid or does not exist. This message is also issued if an invalid cluster name or no cluster name is specified in an ALTER CLUSTER or DROP CLUSTER statement.

**Action** Check spelling. A valid table name or cluster name must begin with a letter and may contain only alphanumeric characters and the special characters \$, \_, and #. The name must be less than or equal to 30 characters and cannot be a reserved word.

**ORA-00904    invalid column name**

**Cause** The column name entered is either missing or invalid.

**Action** Enter a valid column name. A valid column name must begin with a letter, be less than or equal to 30 characters, and consist of only alphanumeric characters and the special characters \$, \_, and #. If it contains other characters, it must be enclosed in double quotation marks. It may not be a reserved word.

**ORA-00905    missing keyword**

**Cause** A required keyword is missing.

**Action** Correct the syntax.

**ORA-00906    missing left parenthesis**

**Cause** A required left parenthesis has been omitted. Certain commands, such as CREATE TABLE, CREATE CLUSTER, and INSERT, require a list of items enclosed in parentheses. Parentheses also are required around subqueries in WHERE clauses and in UPDATE *table* SET *column* = (SELECT...) statements.

**Action** Correct the syntax, inserting a left parenthesis where required, and retry the statement.

**ORA-00907    missing right parenthesis**

**Cause** A left parenthesis has been entered without a closing right parenthesis, or extra information was contained in the parentheses. All parentheses must be entered in pairs.

**Action** Correct the syntax and retry the statement.

**ORA-00908     missing NULL keyword**

**Cause**     Either of the following:

- In a CREATE TABLE or ALTER TABLE statement, NOT was entered to specify that no null values are allowed in that column, but the keyword NULL was omitted.
- In the IS [NOT] NULL logical operator, the keyword NULL was not found.

For example, the following statement generates this message:

```
SELECT * FROM EMP WHERE DEPTNO IS NOT;
```

The keyword NULL must follow the keywords IS NOT.

**Action**     Correct the syntax.

**ORA-00909     invalid number of arguments**

**Cause**     An Oracle function was referenced with an incorrect number of arguments. All Oracle functions, except for SYSDATE, require at least one argument.

**Action**     Correct the syntax of the function by entering the required number of arguments.

**ORA-00910     specified length too long for its datatype**

**Cause**     No size was specified for a character field or the size was invalid. A maximum length must be specified for each character column. The maximum value for this length varies for each character datatype, such as CHAR or VARCHAR2.

**Action**     Enter a maximum length for the field.

**ORA-00911     invalid character**

**Cause**     Special characters are valid only in certain places. If special characters other than \$, \_, and # are used in a name and the name is not enclosed in double quotation marks ("), this message will be issued. One exception to this rule is for database names; in this case, double quotes are stripped out and ignored.

**Action**     Remove the invalid character from the statement or enclose the object name in double quotation marks.

**ORA-00913    too many values**

**Cause** The SQL statement requires two sets of values equal in number. This error occurs when the second set contains more items than the first set. For example, the subquery in a WHERE or HAVING clause may return too many columns, or a VALUES or SELECT clause may return more columns than are listed in the INSERT.

**Action** Check the number of items in each set and change the SQL statement to make them equal.

**ORA-00914    missing ADD keyword**

**Cause** The keyword ADD does not precede one of the following:

- the keyword LOG FILE in an ALTER DATABASE statement
- a column element or table constraint in an ALTER TABLE statement
- the keyword DATAFILE in an ALTER TABLESPACE statement

**Action** Specify the keyword ADD in the ALTER statement.

**ORA-00915    network access of dictionary table not currently allowed**

**Cause** This is an internal error message not usually issued.

**Action** Contact customer support.

**ORA-00917    missing comma**

**Cause** A required comma has been omitted from a list of columns or values in an INSERT statement or a list of the form ((C,D),(E,F), ...).

**Action** Correct the syntax.

**ORA-00918    column ambiguously defined**

**Cause** A column name used in a join exists in more than one table and is thus referenced ambiguously. In a join, any column name that occurs in more than one of the tables must be prefixed by its table name when referenced. The column should be referenced as TABLE.COLUMN or TABLE\_ALIAS.COLUMN. For example, if tables EMP and DEPT are being joined and both contain the column DEPTNO, then all references to DEPTNO should be prefixed with the table name, as in EMP.DEPTNO or E.DEPTNO.

**Action** Prefix references to column names that exist in multiple tables with either the table name or a table alias and a period (.), as in the examples above.



**ORA-00919     invalid function**

**Cause**     An entry was formatted like a function call, but it is not recognizable as an Oracle function.

**Action**     Correct the syntax.

**ORA-00920     invalid relational operator**

**Cause**     A search condition was entered with an invalid or missing relational operator.

**Action**     Include a valid relational operator such as =, !=, ^=, <>, >, <, >=, <=, ALL, ANY, [NOT] BETWEEN, EXISTS, [NOT] IN, IS [NOT] NULL, or [NOT] LIKE in the condition.

**ORA-00921     unexpected end of SQL command**

**Cause**     The SQL command was not complete. Part of a valid command was entered, but at least one major component was omitted.

**Action**     Correct the syntax.

**ORA-00922     missing or invalid option**

**Cause**     An invalid option was specified in defining a column or storage clause. The valid option in specifying a column is NOT NULL to specify that the column cannot contain any NULL values. Only constraints may follow the datatype. Specifying a maximum length on a DATE or LONG datatype also causes this error.

**Action**     Correct the syntax. Remove the erroneous option or length specification from the column or storage specification.

**ORA-00923     FROM keyword not found where expected**

**Cause**     In a SELECT or REVOKE statement, the keyword FROM was either missing, misplaced, or misspelled. The keyword FROM must follow the last selected item in a SELECT statement or the privileges in a REVOKE statement.

**Action**     Correct the syntax. Insert the keyword FROM where appropriate. The SELECT list itself also may be in error. If quotation marks were used in an alias, check that double quotation marks enclose the alias. Also, check to see if a reserved word was used as an alias.

**ORA-00924 missing BY keyword**

**Cause** The keyword BY was omitted in a GROUP BY, ORDER BY, or CONNECT BY clause. In a GRANT statement, the keyword IDENTIFIED must also be followed by the keyword BY.

**Action** Correct the syntax. Insert the keyword BY where required and then retry the statement.

**ORA-00925 missing INTO keyword**

**Cause** An INSERT statement has been entered without the keyword INTO.

**Action** Correct the syntax. Insert the keyword INTO where required and then retry the statement.

**ORA-00926 missing VALUES keyword**

**Cause** An INSERT statement has been entered without the keyword VALUES or SELECT. Either a VALUES clause or a SELECT subquery must follow the INSERT INTO clause.

**Action** Correct the syntax. Enter either a VALUES clause or a subquery after the INSERT INTO clause.

**ORA-00927 missing equal sign**

**Cause** An equal sign has been omitted in one of the following places:

- in the SET clause of an UPDATE statement
- following “!” in a search condition to signify not equal

**Action** Correct the syntax. Insert the equal sign where required and retry the statement.

**ORA-00928 missing SELECT keyword**

**Cause** A SELECT subquery must be included in a CREATE VIEW statement.

**Action** Correct the syntax. Insert the required SELECT clause after the CREATE VIEW clause and then retry the statement.

**ORA-00929 missing period**

**Cause** This is an internal error message not usually issued.

**Action** Contact customer support.

### **ORA-00930    missing asterisk**

**Cause**    This is an internal error message not usually issued.

**Action**    Contact customer support.

### **ORA-00931    missing identifier**

**Cause**    This is an internal error message not usually issued.

**Action**    Contact customer support.

### **ORA-00932    inconsistent datatypes**

**Cause**    Either

- An attempt was made to perform an operation on incompatible datatypes. For example, adding a character field to a date field (dates may only be added to numeric fields) or concatenating a character field with a long field.
- An attempt was made to perform an operation on a database object (such as a table or view) that is not intended for normal use. For example, system tables cannot be modified by a user. Note that on rare occasions this error occurs because a misspelled object name matched a restricted object's name.
- An attempt was made to use an undocumented view.

**Action**    If the cause is

- different datatypes, then use consistent datatypes. For example, convert the character field to a numeric field with the TO\_NUMBER function before adding it to the date field. Functions may not be used with long fields.
- an object not intended for normal use, then do not access the restricted object.

**ORA-00933     SQL command not properly ended**

**Cause** The SQL statement ends with an inappropriate clause. For example, an ORDER BY clause may have been included in a CREATE VIEW or INSERT statement. ORDER BY may not be used to create an ordered view or to insert in a certain order. Also, an improper SQL ending occurs if IN clause is used with only one argument (IN(X), for example). An IN clause must have two or more arguments.

**Action** Correct the syntax by removing the inappropriate clauses. It may be possible to duplicate the removed clause with another SQL statement. For example, to order the rows of a view, do so when querying the view and not when creating it. This error can also occur in SQL\*Forms applications if a continuation line is indented. Check for indented lines and delete these spaces.

**ORA-00934     group function is not allowed here**

**Cause** One of the group functions, such as AVG, COUNT, MAX, MIN, SUM, STDDEV, or VARIANCE, was used in a WHERE or GROUP BY clause.

**Action** Remove the group function from the WHERE or GROUP BY clause.  
The desired result may be achieved by including the function in a subquery or HAVING clause.

**ORA-00935     group function is nested too deeply**

**Cause** This is an internal error message not usually issued.

**Action** Contact customer support.

**ORA-00936     missing expression**

**Cause** A required part of a clause or expression has been omitted. For example, a SELECT statement may have been entered without a list of columns or expressions or with an incomplete expression. This message is also issued in cases where a reserved word is misused, as in SELECT TABLE.

**Action** Check the statement syntax and specify the missing component.

**ORA-00937    not a single-group group function**

**Cause**    A SELECT list cannot include both a group function, such as AVG, COUNT, MAX, MIN, SUM, STDDEV, or VARIANCE, and an individual column expression, unless the individual column expression is included in a GROUP BY clause.

**Action**    Drop either the group function or the individual column expression from the SELECT list or add a GROUP BY clause that includes all individual column expressions listed.

**ORA-00938    not enough arguments for function**

**Cause**    The function was referenced with too few arguments.

**Action**    Check the function syntax and specify the required number of arguments.

**ORA-00939    too many arguments for function**

**Cause**    The function was referenced with too many arguments.

**Action**    Check the function syntax and specify only the required number of arguments.

**ORA-00940    invalid ALTER command**

**Cause**    An invalid ALTER option was specified.

**Action**    Correct the syntax.

**ORA-00941    missing cluster name**

**Cause**    The cluster name was either missing or invalid.

**Action**    Specify a valid cluster name. A valid cluster name must start with a letter, be less than or equal to 30 characters, and contain only alphanumeric characters or the special characters \$, \_, and #. It may not be a reserved word. The name must be specified immediately following the keywords CREATE CLUSTER.

**ORA-00942    table or view does not exist**

**Cause** The table or view entered does not exist, a synonym that is not allowed here was used, or a view was referenced where a table is required. Existing user tables and views can be listed by querying the data dictionary. Certain privileges may be required to access the table. If an application returned this message, the table the application tried to access does not exist in the database, or the application does not have access to it.

For Trusted Oracle7 configured in DBMS MAC mode, you may get this message if you attempt to access an object that you do not dominate.

**Action** Check each of the following:

- the spelling of the table or view name.
- that a view is not specified where a table is required.
- that an existing table or view name exists. Contact the database administrator if the table needs to be created or if user or application privileges are required to access the table.

Also, if attempting to access a table or view in another schema, make certain the correct schema is referenced and that access to the object is granted.

For Trusted Oracle7 in DMBS MAC mode, if the cause is an object existing at a higher label, alter your current label to dominate the creation label of the object. Then retry the command.

**ORA-00943    cluster does not exist**

**Cause** The current user owns no cluster by the specified name.

For Trusted Oracle7 configured in DBMS MAC mode, you may get this message if you attempt to access an object that you do not dominate.

**Action** Specify a valid cluster name following the keyword CLUSTER, then retry the statement.

For Trusted Oracle7 in DMBS MAC mode, if the cause is an object existing at a higher label, alter your current label to dominate the creation label of the object. Then retry the command.

**ORA-00944    insufficient number of clustered columns**

**Cause** An attempt was made to create a table with fewer cluster columns than were specified in the CREATE CLUSTER statement. The CLUSTER clause of a CREATE TABLE statement must specify all cluster columns that were defined when the cluster was created.

**Action** Specify all cluster columns in the CREATE TABLE statement, then retry it.

**ORA–00945    specified clustered column does not exist**

**Cause**    A column specified in the cluster clause of a CREATE TABLE statement is not a column in this table.

For Trusted Oracle7 configured in DBMS MAC mode, you may get this message if you attempt to access an object that you do not dominate.

**Action**    Re-execute the statement, using the names of columns defined for the table.

For Trusted Oracle7 in DMBS MAC mode, if the cause is an object existing at a higher label, alter your current label to dominate the creation label of the object. Then retry the command.

**ORA–00946    missing TO keyword**

**Cause**    A GRANT statement was specified without the keyword TO, or an invalid form of the GRANT command was entered.

**Action**    Check the syntax for the GRANT command, insert the keyword TO where required, and retry the statement.

**ORA–00947    not enough values**

**Cause**    This error occurs when a SQL statement requires two sets of values equal in number, but the second set contains fewer items than the first set. This can occur in a WHERE or HAVING clause in which a nested SELECT returns too few columns as in:

```
WHERE (A,B) IN (SELECT C FROM ...)
```

Another common cause of this error is an INSERT statement in which the VALUES or SELECT clause does not contain enough values needed for the INSERT, as in

```
INSERT INTO EMP(EMPNO,ENAME) VALUES('JONES')
```

**Action**    Check the number of items in each set and change the SQL statement to make them equal.

**ORA–00948    ALTER CLUSTER statement no longer supported**

**Cause**    The ALTER CLUSTER statement has been withdrawn.

**Action**    To add data to a cluster from an existing table, use the following series of SQL statements:

```
CREATE TABLE newtable SELECT * FROM oldtable CLUSTER clustername;  
DROP oldtable;  
RENAME TABLE newtable oldtable;
```

**ORA-00949    illegal reference to remote database**

**Cause**    This is an internal error message not usually issued.

**Action**    Contact customer support.

**ORA-00950    invalid DROP option**

**Cause**    A DROP command was not followed by a valid DROP option, such as CLUSTER, DATABASE LINK, INDEX, ROLLBACK SEGMENT, SEQUENCE, SYNONYM, TABLE, TABLESPACE, or VIEW.

**Action**    Check the command syntax, specify a valid DROP option, and then retry the statement.

**ORA-00951    cluster not empty**

**Cause**    A DROP CLUSTER statement specified a cluster that is not empty. A cluster may not be dropped if it contains any tables, unless the optional INCLUDING TABLES clause is specified. Tables may also be removed from a cluster by using the DROP TABLE command.

**Action**    Either specify the INCLUDING TABLES clause in the DROP CLUSTER statement or remove all tables from the cluster with the DROP TABLE command before issuing the DROP CLUSTER command.

**ORA-00952    missing GROUP keyword**

**Cause**    Groups are not currently implemented.

**Action**    No user action required.

**ORA-00953    invalid index name**

**Cause**    In a CREATE INDEX, DROP INDEX, or VALIDATE INDEX statement, the index name was missing or invalid.

**Action**    Specify a valid index name after the keyword INDEX. To drop or validate an existing index, check the name by querying the data dictionary. To create a new index, check the syntax before retrying.



**ORA-00954     missing IDENTIFIED keyword**

**Cause**     A GRANT CONNECT statement was issued without the keyword IDENTIFIED.

**Action**     Check the syntax and insert the keyword IDENTIFIED after the last username. The format is

```
GRANT CONNECT TO user-list IDENTIFIED BY password-list;
```

**ORA-00955     *name* is already used by an existing object**

**Cause**     An attempt was made to create a database object (such as a table, view, cluster, index, or synonym) that already exists. A user's database objects must have distinct names.

**Action**     Enter a unique name for the database object or modify or drop the existing object so it can be reused.

**ORA-00956     missing or invalid auditing option**

**Cause**     An AUDIT or NOAUDIT command was not followed by a valid option or the keyword ALL. For example, when AUDITing tables an option such as ALTER, AUDIT, COMMENT, DELETE, GRANT, INDEX, INSERT, LOCK, RENAME, SELECT, or UPDATE must be specified.

**Action**     Correct the syntax.

**ORA-00957     duplicate column name**

**Cause**     A column name was specified twice in a CREATE or INSERT statement. Column names must be unique within a table, view, or cluster.

**Action**     In a CREATE statement, change one of the column names to a new, unique column name. In an INSERT statement, remove one of the duplicate names.

**ORA-00958     missing CHECK keyword**

**Cause**     The keyword CHECK should follow the keyword WITH in the WITH OPTION clause of the CREATE VIEW statement.

**Action**     Check the statement syntax and insert the keyword CHECK where required. Then retry the statement.

**ORA-00959      tablespace “*name*” does not exist**

**Cause** A statement specified the name of a tablespace that does not exist.

For Trusted Oracle7 configured in DBMS MAC mode, you may get this message if you attempt to access an object that you do not dominate.

**Action** Enter the name of an existing tablespace. For a list of tablespace names, query the data dictionary. If a tablespace is dropped and re-created with the same name, use ALTER USER to reset the default or temporary tablespace name, because the new tablespace is not the same as the dropped tablespace, even though they have the same name.

For Trusted Oracle7 in DMBS MAC mode, if the cause is an object existing at a higher label, alter your current label to dominate the creation label of the object. Then retry the command.

**ORA-00960      ambiguous column naming in select list**

**Cause** A column name in the order-by list matches more than one select list column.

**Action** Remove the duplicate column naming in the select list.

**ORA-00962      too many group-by or order-by expressions**

**Cause** The group-by or order-by column list contains more than 255 expressions.

**Action** Use no more than 255 expressions in the group-by or order-by list.

**ORA-00964      table name not in FROM list**

**Cause** A table specified in a query's SELECT list is not named in the FROM clause list.

**Action** Check spelling of the table names, check that each table name in the SELECT list matches a table name in the FROM list, and then retry the statement.

**ORA-00965      column aliases not allowed for “\*”**

**Cause** An alias was used with the return-all-columns function (\*) in the SELECT list. For example:

```
SELECT * COL_ALIAS FROM EMP;
```

**Action** Either specify individual columns or do not specify an alias with a “\*”.

**ORA-00966     missing TABLE keyword**

**Cause**     A LOCK statement was specified and the keyword TABLE was missing, misspelled, or misplaced. A LOCK statement must begin with LOCK TABLE *tablename*.

**Action**     Correct the syntax.

**ORA-00967     missing WHERE keyword**

**Cause**     The keyword WHERE in a SELECT statement was missing, misspelled, or misplaced.

**Action**     Correct the syntax.

**ORA-00968     missing INDEX keyword**

**Cause**     The keyword INDEX in a CREATE UNIQUE INDEX or VALIDATE INDEX statement was missing, misspelled, or misplaced.

**Action**     Correct the syntax.

**ORA-00969     missing ON keyword**

**Cause**     The keyword ON in a GRANT, REVOKE, or CREATE INDEX statement was missing, misspelled, or misplaced.

**Action**     Check syntax and spelling, and use the keyword ON where required.

**ORA-00970     missing WITH keyword**

**Cause**     The keyword START was specified without the keyword WITH. Both keywords are necessary if a START WITH clause is desired in a tree-structured query.

**Action**     Change the keyword START to the keywords START WITH. Then retry the statement.

**ORA-00971     missing SET keyword**

**Cause**     The keyword SET in an UPDATE statement is missing, misspelled, or misplaced.

**Action**     Check syntax and spelling, and use the keyword SET after the name of the table to be updated.

**ORA-00972 identifier is too long**

**Cause** The name of a schema object exceeds 30 characters. Schema objects are tables, clusters, views, indexes, synonyms, tablespaces, and usernames.

**Action** Shorten the name to 30 characters or less.

**ORA-00974 invalid PCTFREE value percentage**

**Cause** The percentage of free space specified in a CREATE INDEX statement is not between 0 and 100. A PCTFREE value of 0 means the entire block is available. The value 100 is not useful because it means that no data may be inserted. The default is 10.

**Action** Specify a PCTFREE value between 0 and 100. Then retry the statement.

**ORA-00975 date + date not allowed**

**Cause** An attempt was made to add two date fields together. Dates may be added only to numeric fields, not to other dates.

**Action** Use the Oracle function TO\_NUMBER to convert one of the date fields to a numeric field before adding it to the other date field.

**ORA-00976 LEVEL, PRIOR, or ROWNUM not allowed here**

**Cause** The use of the PRIOR clause, the pseudo-column LEVEL, or ROWNUM is incorrect in this context.

**Action** Check the syntax for the SQL statement. Then remove or relocate the keyword PRIOR, LEVEL, or ROWNUM.

**ORA-00977 duplicate auditing option**

**Cause** An AUDIT or NOAUDIT statement specified the same option more than once.

**Action** Either specify ALL without other auditing options or remove the duplicate auditing specifications.

**ORA-00978 nested group function without GROUP BY**

**Cause** A group function, such as AVG, COUNT, MAX, MIN, SUM, STDDEV, or VARIANCE, was used within another group function, as in MAX(COUNT(\*)), without a corresponding GROUP BY clause.

**Action** Either add a GROUP BY clause or remove the extra level of nesting.

**ORA-00979    not a GROUP BY expression**

**Cause**    The GROUP BY clause does not contain all the expressions in the SELECT clause. SELECT expressions that are not included in a group function, such as AVG, COUNT, MAX, MIN, SUM, STDDEV, or VARIANCE, must be listed in the GROUP BY clause.

**Action**    Include in the GROUP BY clause all SELECT expressions that are not group function arguments.

**ORA-00980    synonym translation is no longer valid**

**Cause**    The synonym used is based on a table, view, or synonym that no longer exists.

**Action**    Replace the synonym with the name of the object it references or re-create the synonym so that it refers to a valid table, view, or synonym.

**ORA-00981    cannot mix table and system auditing options**

**Cause**    Both table-wide and system-wide options were specified within a single AUDIT statement.

**Action**    Check the AUDIT command syntax. Then retry one or more AUDIT statements.

**ORA-00982    missing plus sign**

**Cause**    A left parenthesis appeared in a join condition, but a plus sign (+) did not follow. A left parenthesis in a join condition usually signals an outer-join specification and so a plus sign is expected to follow. To specify an outer join on a column in a join operation, follow the column reference in the join condition with a plus sign (+) enclosed in parentheses.

**Action**    Correct the SQL syntax and retry the statement.

**ORA-00984    column not allowed here**

**Cause**    A column name was used in an expression where it is not permitted, such as in the VALUES clause of an INSERT statement.

**Action**    Check the syntax of the statement and use column names only where appropriate.

**ORA-00985    invalid program name**

**Cause**    Probably a syntax error.

**Action**    Correct syntax.

**ORA-00986    missing or invalid group names(s)****Cause**    Probably a syntax error.**Action**    Correct syntax.**ORA-00987    missing or invalid username(s)****Cause**    No username was specified in a GRANT statement or one of the specified usernames is invalid. Valid usernames must be specified following the keyword TO in a GRANT statement to define a user. A username must begin with a letter, consist only of alphanumeric characters and the special characters \$, \_, and #, and be less than or equal to 30 characters. If it contains other characters, it must be enclosed in double quotation marks. It may not be a reserved word.**Action**    Specify a valid username, or list of usernames, following the keyword TO in the GRANT statement.**ORA-00988    missing or invalid password(s)****Cause**    More usernames than passwords were specified in a GRANT statement. A valid password must be specified for each username listed in the GRANT statement.**Action**    Enter a valid password for each username.**ORA-00989    too many passwords for usernames given****Cause**    More passwords than usernames were specified in a GRANT statement. Only one password may be entered for each username listed in the GRANT statement.**Action**    Enter an equal number of usernames and passwords.**ORA-00990    missing or invalid privilege****Cause**    No privileges were specified in a GRANT privilege statement, or one of the specified privileges is invalid.**Action**    Enter one or more valid privileges such as SELECT, INSERT, DELETE, UPDATE, ALTER, INDEX, REFERENCES, or ALL. More than one privilege may be granted by entering the privileges in a list separated by commas (,) or by specifying the keyword ALL to grant all privileges.

**ORA-00991     only MAC privileges may be granted to procedures**

**Cause**     Object privileges or non-MAC system privileges were granted to the procedure.

**Action**     Only grant MAC privileges using the PROCEDURE clause.

For more information on granting MAC privileges, see the index entry on “MAC privileges” in *Trusted Oracle7 Server Administrator’s Guide*.

**ORA-00992     invalid format for REVOKE command**

**Cause**     An invalid form of the REVOKE command was entered. There are two forms of the REVOKE command. The first form is used to revoke a user’s database access privileges. The second form is used to revoke a user’s object privileges.

**Action**     Check the command syntax and retry the statement.

**ORA-00993     missing GRANT keyword**

**Cause**     The keyword WITH was specified at the end of a GRANT statement without the keyword GRANT. To grant privileges to a user and the permission to grant those privileges to another user, you must specify the keywords WITH GRANT OPTION at the end of the GRANT statement.

**Action**     Change the keyword WITH to the keywords WITH GRANT OPTION, then retry the statement.

**ORA-00994     missing OPTION keyword**

**Cause**     The keywords WITH GRANT were specified at the end of a GRANT statement without the keyword OPTION.

**Action**     Change the keywords WITH GRANT to the keywords WITH GRANT OPTION. Then retry the statement.

**ORA-00995     missing or invalid synonym identifier**

**Cause**     In a CREATE or DROP SYNONYM statement, the synonym name was either missing or invalid.

**Action**     Check syntax and spelling. A valid synonym name must be specified immediately following the keyword SYNONYM in both statements. Valid synonym names must begin with a letter, consist of alphanumeric characters and the special characters \$, \_, and #, and be less than or equal to 30 characters. They may not be reserved words.

**ORA-00996      the concatenate operator is | |, not |**

**Cause**      A single bar (|) was interpreted as an attempt to specify concatenation, but the concatenation operator is a double bar (| |).

**Action**      Enter a double bar (| |) for concatenation or remove the single bar (|) if concatenation was not intended.

**ORA-00997      illegal use of LONG datatype**

**Cause**      A value of datatype LONG was used in a function or in a DISTINCT, WHERE, CONNECT BY, GROUP BY, or ORDER BY clause. A LONG value can only be used in a SELECT clause.

**Action**      Remove the LONG value from the function or clause.

**ORA-00998      must name this expression with a column alias**

**Cause**      An expression or function was used in a CREATE VIEW statement, but no corresponding column name was specified. When expressions or functions are used in a view, all column names for the view must be explicitly specified in the CREATE VIEW statement.

**Action**      Enter a column name for each column in the view in parentheses after the view name.

**ORA-00999      invalid view name**

**Cause**      In a CREATE VIEW statement, the view name was missing or invalid.

**Action**      Enter a valid view name following CREATE VIEW. Valid view names must begin with a letter, consist of only alphanumeric characters and the special characters \$, \_, and #, be less than or equal to 30 characters, and may not be reserved words. If the view name contains other characters, it must be enclosed in double quotation marks.



**01000–01099: User Program Interface**

This section lists messages generated when using the UPI to the Oracle Server. Precompilers and SQL\*Forms are examples of products that use the UPI.

**ORA-01000      maximum open cursors exceeded**

**Cause** A host language program attempted to open too many cursors. The initialization parameter OPEN\_CURSORS determines the maximum number of cursors per user.

**Action** Modify the program to use fewer cursors. If this error occurs often, shut down Oracle, increase the value of OPEN\_CURSORS, and then restart Oracle.

**ORA-01001      invalid cursor**

**Cause** Either a host language program call specified an invalid cursor or the values of the AREASIZE and MAXOPENCURSORS options in the precompiler command were too small. All cursors must be opened using the OOPEN call before being referenced in any of the following calls: SQL, DESCRIBE, NAME, DEFINE, BIND, EXEC, FETCH, and CLOSE. The Logon Data Area (LDA) must be defined by using OLON or OLOGON. If the LDA is not defined, this message is issued for the following calls: OPEN, COM, CON, ROL, and LOGOFF.

**Action** Check the erroneous call statement. Specify a correct LDA area or open the cursor as required. If there is no problem with the cursor, it may be necessary to increase the AREASIZE and MAXOPENCURSORS options before precompiling.

**ORA-01002      fetch out of sequence**

**Cause** In a host language program, a FETCH call was issued out of sequence. A successful parse-and-execute call must be issued before a fetch. This can occur if an attempt was made to FETCH from an active set after all records have been fetched. This may be caused by fetching from a SELECT FOR UPDATE cursor after a commit. A PL/SQL cursor loop implicitly does fetches and may also cause this error.

**Action** Parse and execute a SQL statement before attempting to fetch the data.

**ORA-01003 no statement parsed**

**Cause** A host language program call referenced a cursor with no associated parsed SQL statement. A SQL call (for example, OSQL3) must be used to pass a SQL statement to Oracle and to associate the statement with an open cursor. A cursor must already have an associated SQL statement if referenced in any of the following calls: DESCRIBE, NAME, DEFINE, BIND, EXECUTE, and FETCH.

**Action** Do the SQL call, for example, OSQL, to pass the required SQL statement before referencing the cursor.

**ORA-01004 default username feature not supported; logon denied**

**Cause** An attempt was made to use automatic logon on a system not supporting this feature.

**Action** Provide the complete username and password to log on to Oracle.

**ORA-01005 null password given; logon denied**

**Cause** An invalid password was given when logging on.

**Action** Provide a valid password.

**ORA-01006 bind variable does not exist**

**Cause** A program issued a BIND call for a variable not listed in the associated SQL statement. Only those variables prefixed by either a colon (:) or ampersand (&) in the SQL statement may be referenced in a BIND call, OBIND or OBINDN. This error may also be caused by a mismatch between a Precompiler program and the related library, SQLLIB.

**Action** Modify the BIND call to reference one of the substitute variables specified in the associated SQL statement.

**ORA-01007 variable not in select list**

**Cause** A reference was made to a variable not listed in the SELECT clause. In OCI, this can occur if the number passed for the position parameter is less than one or greater than the number of variables in the SELECT clause in any of the following calls: DESCRIBE, NAME, or DEFINE. In SQL\*Forms or SQL\*Report, specifying more variables in an INTO clause than in the SELECT clause also causes this error.

**Action** In OCI, specify a position number between 1 and the number of variables in the SELECT clause. In SQL\*Forms or SQL\*Report, specify an equal number of variables in the SELECT and INTO clauses.

**ORA-01008    not all variables bound**

**Cause**    A SQL statement containing substitution variables was executed without all variables bound. All substitution variables must have a substituted value before the SQL statement is executed.

**Action**    In OCI, use an OBIND or OBINDN call to substitute the required values.

**ORA-01009    missing mandatory parameter**

**Cause**    A host language program call did not pass all required parameters. The syntax and parameter description for each call is shown in the *Programmer's Guide to the Oracle Precompilers*.

**Action**    Check the syntax for the call and enter all required parameters.

**ORA-01010    invalid OCI operation**

**Cause**    One of the following:

- You attempted an invalid OCI operation.
- You are using an Oracle client application linked version 7.1, or higher libraries, the environment ORA\_ENCRYPT\_LOGIN is set to TRUE, and you attempted to connect to a version 7.0, or lower, Oracle Server.
- You are connected to a version 7.1, or higher, Oracle Server, the initialization parameter DBLINK\_ENCRYPT\_LOGIN is set to TRUE, and you attempted to use a database link pointing to a version 7.0, or lower, Oracle Server.

**Action**    For the above causes:

- Do not use the invalid OCI operation.
- If you do not wish to use encrypted connect passwords in your distributed database, set ORA\_ENCRYPT\_LOGIN to FALSE.  
If you wish to use encrypted connect passwords, you must upgrade all Oracle Servers to version 7.1, or higher.
- If you do not wish to use encrypted database links in your distributed database, set DBLINK\_ENCRYPT\_LOGIN to FALSE.  
If you wish to use encrypted database links, you must upgrade all Oracle Servers to version 7.1, or higher.

- ORA-01011 cannot use V7 compatibility mode when talking to V6 server**
- Cause** An attempt was made to use Oracle7 compatibility mode when accessing Oracle Version 6.
- Action** Use V6 SQL language type. You may need to use the SET COMPATIBILITY V6 command.
- ORA-01012 not logged on**
- Cause** A host language program issued an Oracle call, other than OLON or OLOGON, without being logged on to Oracle. This can occur when a user process attempts to access the database after the instance it is connected to terminates, forcing the process to disconnect.
- Action** Log on to Oracle, by calling OLON or OLOGON, before issuing any Oracle calls. When the instance has been restarted, retry the action.
- ORA-01013 user requested cancel of current operation**
- Cause** The user interrupted an Oracle operation by entering CTRL-C, Control-C, or another canceling operation. This forces the current operation to end. This is an informational message only.
- Action** Continue with the next operation.
- ORA-01014 Oracle shutdown in progress**
- Cause** A user tried to log on to Oracle while an instance shutdown was in progress. Oracle logons are disabled while Oracle is being shut down.
- Action** Wait until Oracle is brought back up before attempting to log on.
- ORA-01015 logon called recursively**
- Cause** This is an internal error message not usually issued.
- Action** Contact customer support.
- ORA-01016 this function can be called only after a fetch**
- Cause** The cursor is in an invalid state.
- Action** Ensure the appropriate OCI/UIP function is called after the fetch and before the offending function.

**ORA-01017     invalid username/password; logon denied**

**Cause**     An invalid username or password was entered in an attempt to log on to Oracle. The username and password must be the same as was specified in a GRANT CONNECT statement. If the username and password are entered together, the format is: *username/password*.

When Trusted Oracle7 is configured in OS MAC mode, this error may occur if attempting to query a table/view in a secondary database when the username was not created or not granted the CREATE SESSION privilege in the secondary database.

When Trusted Oracle7 is configured in DBMS MAC mode, this error may occur if granted the CREATE SESSION system privilege at a higher label than that attempted at login.

**Action**     Enter a valid username and password combination in the correct format.

For Trusted Oracle7 users, if the cause of this error is that the username was either not created or not granted the CREATE SESSION system privilege in a secondary database, ask the database administrator to authorize the username to access the secondary database. Alternatively, if the cause of this error is that the username is granted the CREATE SESSION system privilege at a higher label than that of the attempted login, either login at that higher label or ask the database administrator to regrant the privilege at the appropriate label.

**ORA-01018     column does not have a LONG datatype**

**Cause**     An attempt was made to fetch data using the LONG fetch option, but the specified column was not LONG.

**Action**     Re-execute the fetch without the LONG fetch option or create the table with a LONG column.

**ORA-01019     unable to allocate memory in the user side**

**Cause**     The user side memory allocator returned an error.

**Action**     Increase the size of the process heap or switch to the old set of calls.

**ORA-01020     unknown context state**

**Cause**     This is an internal error message not usually issued.

**Action**     Contact customer support.

**ORA-01022     database operation not supported in this configuration**

**Cause**     The attempted database operation does not conform to the user programming interface (UPI) for the two communicating Oracle servers.

This problem occurs when you use a 7.0.13 server and try to use PL/SQL or remote procedure calls on a 7.0.12 server.

**Action**     You may need to upgrade one or more of your Oracle servers or relink your user-side application with new libraries.

**ORA-01023     cursor context not found (invalid cursor number)**

**Cause**     The cursor number is not a valid open cursor.

**Action**     Make sure that the cursor is open.

**ORA-01024     invalid datatype in OCI call**

**Cause**     An OCI program call specified an invalid datatype. In OCI calls, Oracle datatypes are specified as numbers between 1 and 7. Datatypes are described in the *Programmer's Guide to the Oracle Precompilers*.

**Action**     Check the datatype description and enter the correct number for the datatype.

**ORA-01025     UPI parameter out of range**

**Cause**     An integer parameter to a UPI function is out of range. This is an internal error message not usually issued.

**Action**     Contact customer support.

**ORA-01026     multiple buffers of size > 2000 in the bind list**

**Cause**     There is more than one long buffer in the bind list.

**Action**     Change the buffer size to be less than 255 for the bind variable bound to a normal column.

**ORA-01027     bind variables not allowed for data definition operations**

**Cause**     An attempt was made to use a bind variable in a SQL data definition statement; for example, a CREATE TABLE AS SELECT statement in which the SELECT's WHERE clause refers to a variable.

**Action**     Remove the bind variable. Then retry the SQL statement.

**ORA–01030     SELECT ... INTO variable does not exist**

**Cause**     The SELECT... INTO specified in the bind call does not correspond to a variable in the SQL statement.

**Action**     If it is not possible to correct the statement, call customer support.

**ORA–01031     insufficient privileges**

**Cause**     An attempt was made to change the current username or password without the appropriate privilege. This error also occurs if attempting to UPDATE a table with only SELECT privileges, if attempting to CONNECT INTERNAL, or if attempting to install a database without the necessary operating-system privileges.

When Trusted Oracle7 is configured in DBMS MAC, this error may occur if the user was granted the necessary privilege at a higher label than the current login.

**Action**     Ask the database administrator to perform the operation or grant the required privileges.

For Trusted Oracle7 users getting this error although granted the appropriate privilege at a higher label, ask the database administrator to regrant the privilege at the appropriate label.

**ORA–01032     no such userid**

**Cause**     This is an internal error message related to Export/Import.

**Action**     Contact customer support.

**ORA–01033     Oracle startup or shutdown in progress**

**Cause**     An attempt was made to log on while Oracle is being started up or shut down.

**Action**     Wait a few minutes. Then retry the operation.

**ORA-01034 Oracle not available**

**Cause** Oracle was not started up. Possible causes include the following:

- The SGA requires more space than was allocated for it.
- The operating system variable pointing to the instance was improperly defined.

**Action** Refer to accompanying messages for possible causes and correct the problem mentioned in the other messages. Retry after Oracle has been initialized.

If Oracle has been initialized, then on some operating systems, verify that Oracle was linked correctly. See the platform-specific Oracle documentation.

**ORA-01035 Oracle only available to users with RESTRICTED SESSION privilege**

**Cause** Logins were disallowed because an instance started in restricted mode. Only users with the RESTRICTED SESSION system privilege can log on.

**Action** Request that Oracle be restarted without the restricted option or obtain the RESTRICTED SESSION system privilege.

**ORA-01036 illegal variable *name/num***

**Cause** Unable to find bind context on user side.

**Action** Make sure that the variable being bound is in the SQL statement.

**ORA-01037 maximum cursor memory exceeded**

**Cause** An attempt was made to process a complex SQL statement that consumed all available memory of the cursor.

**Action** Simplify the complex SQL statement.

**ORA-01038 cannot write datafile version *num* with Oracle Version *num***

**Cause** An attempt was made to write datafile headers in an old format. The new format cannot be used until after the database has been verified as being compatible with this software version.

**Action** Open the database to advance to the new file formats, then repeat the operation. If the operation is required before the database can be opened, use the previous software release to do the operation.



**ORA-01039    insufficient privileges on underlying objects of the view**

- Cause**    An attempt was made to use another user's view without the necessary privileges on the underlying objects of the view.
- Action**    Obtain the necessary privileges or do not perform the offending operation.

**ORA-01040    invalid character in password; logon denied**

- Cause**    There are multi-byte characters in the password or some characters in the password are not in the US7ASCII range.
- Action**    Retry password with valid characters.

**ORA-01041    internal error. HOSTDEF extension does not exist**

- Cause**    The pointer to the HOSTDEF extension in HOSTDEF is null.
- Action**    Report as a bug to customer support.

**ORA-01042    detaching a session with open cursors not allowed**

- Cause**    An attempt was made to detach a session that has open cursors.
- Action**    Close all the cursors before detaching the session.

**ORA-01043    user side memory corruption [*num*], [*num*], [*num*], [*num*]**

- Cause**    The application code corrupted some of the user memory.
- Action**    Make certain that the application code is not overwriting memory. Contact customer support.

**ORA-01044    size *num* of buffer bound to variable *name* exceeds maximum *num***

- Cause**    An attempt was made to bind a buffer whose total size would exceed the maximum size allowed. The total array size for arrays is calculated as (element\_size) \* (number of elements)
- Action**    Reduce the buffer size.

**ORA-01045    user *name* lacks CREATE SESSION privilege; logon denied**

- Cause**    An attempt was made to connect to a userid that does not have create session privilege.
- Action**    If required, GRANT the user the CREATE SESSION privilege.

**ORA-01046 cannot acquire space to extend context area**

**Cause** Oracle could not extend the current area any further because the operating system would not supply any more space. A system-specific message should appear following this message.

**Action** Close some cursors and try again or check operating system quotas to allow use of more virtual memory. See also your operating system-specific Oracle documentation.

**ORA-01047 the above error occurred in schema=*name*, package=*name*, procedure=*name***

**Cause** This message is displayed after a previous message to provide more specific information.

**Action** See the cause and action for the previous message.

**ORA-01048 couldn't find the specified procedure in the given context**

**Cause** The user of the procedure specified a deferred RPC that does not exist.

**Action** Ensure that the procedure was specified correctly and that the replication process can locate the procedure.

**ORA-01049 bind by name is not supported in streamed RPC**

**Cause** This error occurs when a newer server version requests from an older server version an operation that is not supported.

**Action** You may need to upgrade one or more of your Oracle servers or relink your user application with new libraries.

**ORA-01050 cannot acquire space to open context area**

**Cause** Oracle could not open a new context area because the operating system would not supply any more space. A system-specific message should appear following this message.

**Action** Close some cursors and try again or check operating system quotas to allow use of more virtual memory. See also your operating system-specific Oracle documentation.

**ORA-01051 deferred RPC buffer format invalid**

**Cause** The deferred RPC data in SYS.DEF\$\_CALL is corrupted.

**Action** Contact customer support.

**ORA-01053     user storage address cannot be read**

**Cause**     A bind variable or other user area could not be read by Oracle.

**Action**     Check that binds are done correctly on valid user buffers, then retry the operation.

**ORA-01054     user storage address cannot be written**

**Cause**     A define, FETCH... INTO or SELECT... INTO, variable or other user area could not be written to by Oracle.

**Action**     Check that INTO variables and indicators are correctly specified. Then retry the operation.

**ORA-01057     invalid or ambiguous block.field reference in user exit**

**Cause**     The reference to a *block.field* identifier in a user exit is incorrect or ambiguous, probably because it is misspelled or incomplete.

**Action**     Check syntax and identifier spelling. Then correct the reference.

**ORA-01058     internal New Upi interface error**

**Cause**     An attempt was made to delete a non-existent HSTDEF extension.

**Action**     Contact customer support.

**ORA-01059     parse expected before a bind or execute**

**Cause**     The client application attempted to bind a variable or execute a cursor opened in a PL/SQL block before the statement was parsed.

**Action**     Ensure the statement is parsed before a bind or execute.

**ORA-01060     array binds or executes not allowed**

**Cause**     The client application attempted to bind an array of cursors or attempted to repeatedly execute against a PL/SQL block with a bind variable of type cursor.

**Action**     Bind a single cursor or execute the PL/SQL block one.

**ORA-01070     using an old version of Oracle for the server**

**Cause**     An attempt was made to run an older, obsolete Oracle7 Server.

**Action**     Upgrade the server.

**ORA-01071 cannot perform operation without starting up Oracle**

**Cause** An attempt was made to perform an operation before Oracle was started.

**Action** Start up Oracle. Then retry the operation.

**ORA-01072 cannot stop Oracle; Oracle not running**

**Cause** An attempt was made to stop Oracle, but Oracle was not running.

**Action** No action required.

**ORA-01073 fatal connection error: unrecognized call type**

**Cause** An illegal internal operation was attempted. This is an internal error message not usually issued.

**Action** Contact customer support.

**ORA-01074 cannot shut down Oracle; inside a logon session – log off first**

**Cause** An attempt was made to shut down Oracle inside a logon session.

**Action** Log off before shutting down Oracle.

**ORA-01075 currently logged on**

**Cause** An attempt was made to log on while already logged on.

**Action** No action required.

**ORA-01076 multiple logons per process not yet supported**

**Cause** Oracle does not support multiple logons per process.

**Action** No action required.

**ORA-01077 background process initialization failure**

**Cause** A failure occurred during initialization of the background processes.

**Action** Refer to the diagnostic information in the accompanying message stack or in the trace file and take appropriate action.

**ORA-01078      failure in processing initialization parameters**

**Cause**      A failure occurred during processing of the initialization parameters during system startup.

**Action**      Refer to the diagnostic information in the accompanying message stack and take appropriate action.

**ORA-01079      Oracle database was not properly created, operation aborted**

**Cause**      There was an error when the database or control file was created.

**Action**      Check the message signaled when the database was first created or when the control file was re-created. Take appropriate actions to re-create the database or a new control file.

**ORA-01080      error in shutting down Oracle**

**Cause**      A failure occurred during system shutdown.

**Action**      Refer to the diagnostic information in the accompanying message stack and take appropriate action.

**ORA-01081      cannot start already-running Oracle – shut it down first**

**Cause**      An attempt was made to start Oracle while it was already running.

**Action**      Shut down Oracle first, if you want to restart it.

**ORA-01083      value of parameter *name* is inconsistent with that of other servers**

**Cause**      The value of the given initialization parameter is required to be the same for all servers in the parallel configuration.

**Action**      Change the value in the initialization parameter file to match that of the other control files.

**ORA-01084      invalid argument in OCI call**

**Cause**      The failing OCI call contains an argument with an invalid value.

**Action**      Use valid argument values. For more information, see the *Programmer's Guide to the Oracle Call Interface* and the appropriate programming language supplement.

**ORA-01085 preceding errors in deferred RPC to *name.name.name***

**Cause** Errors were encountered when the named procedure was executed as a deferred, remote procedure call.

**Action** Correct the cause of the preceding errors.

**ORA-01086 savepoint *name* never established**

**Cause** An attempt was made to roll back to a savepoint that was never established.

**Action** No action required.

**ORA-01087 cannot start up Oracle – currently logged on**

**Cause** An attempt was made to start up Oracle by a user who is currently logged on.

**Action** Log off. Then issue the STARTUP command.

**ORA-01088 cannot shut down Oracle while active processes exist**

**Cause** Users are still logged on to the instance.

**Action** Either wait for all users to log off or issue the SHUTDOWN IMMEDIATE command to force the users off the system. Alternatively, issue the SHUTDOWN ABORT command to shut down the database without waiting for users to be forced off.

**ORA-01089 immediate shutdown in progress – no operations are permitted**

**Cause** The SHUTDOWN IMMEDIATE command was used to shut down a running Oracle instance, terminating any active operations.

**Action** Wait for the instance to be restarted or contact the database administrator.

**ORA-01090 shutdown in progress – connection is not permitted**

**Cause** The SHUTDOWN command was used to shut down a running Oracle instance, disallowing any connects to Oracle.

**Action** Wait for the instance to restart or contact the database administrator.

**ORA-01091 failure during startup force**

**Cause** Unable to destroy the old SGA.

**Action** Manually remove the old SGA. See your operating system-specific Oracle documentation for instructions. Then retry the STARTUP command.

**ORA-01092     Oracle instance terminated. Disconnection forced**

**Cause**     The instance connected to was terminated abnormally, probably due to a SHUTDOWN ABORT. The current process was forced to disconnect from the instance.

**Action**     Contact the database administrator to determine when the instance is restarted. Attempt to reconnect after the instance is running again.

**ORA-01093     ALTER DATABASE CLOSE only permitted with no sessions connected**

**Cause**     There is at least one more session, other than the current one, logged in to the instance. ALTER DATABASE CLOSE is not permitted when other sessions are active.

**Action**     Find the other sessions and disconnect them. Then retry the ALTER DATABASE CLOSE command. Also, issue the SHUTDOWN IMMEDIATE command to force users off the system, or issue the SHUTDOWN ABORT command to shut down the database without waiting for users to be forced off.

**ORA-01094     ALTER DATABASE CLOSE in progress. Connections not permitted**

**Cause**     An attempt was made to connect while the database is being closed with the ALTER DATABASE CLOSE command.

**Action**     Attempt to connect again when the database is open. Contact the database administrator to find out when the database will be open.

**ORA-01095     DML statement processed zero rows**

**Cause**     A DML cursor from the OTEXT() call processed 0 rows when executed.

**Action**     Caller can either do a rollback or ignore the message and execute the rest of the cursors in the cursor array.

**ORA-01096     program version *num* incompatible with instance *num***

**Cause**     The program was linked with a different version of the server than the instance to which it is attempting to connect.

**Action**     Relink the program against the same version of Oracle as the instance or restart (startup force) the database using the program's version of the SERVER.

**ORA-01097 cannot shutdown while in a transaction – commit or rollback**

**Cause** An attempt was made to shut down the database while a transaction was in progress.

**Action** Either commit or rollback the current transaction and then attempt to shut down the database.

**ORA-01098 program interface error during LONG insert**

**Cause** The application program interface could not insert or update a LONG column because of an internal error when a TTCGETV call fails. For example, a network read error or one of the parameters passed to the call is invalid.

**Action** Retry the insert or update.

**ORA-01099 cannot mount database in SHARED mode if started in single process mode**

**Cause** An attempt was made to mount a database in parallel mode with the initialization parameter SINGLE\_PROCESS set to TRUE.

**Action** Either mount the database in EXCLUSIVE mode or set the initialization parameter SINGLE\_PROCESS to FALSE before starting the instance in parallel (shared) mode.

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**01100–01250: Oracle Files**

This sections lists messages generated when files are accessed by the Oracle Server.

**ORA-01100 database already mounted**

**Cause** An attempt was made to mount a database with the name of a currently mounted database.

**Action** No action required.

**ORA-01101 database being created currently mounted by some other instance**

**Cause** An attempt was made to create a database with the name of a currently mounted database.

**Action** Either change the database name or shut down the other instance.



**ORA–01102     cannot mount database in exclusive mode**

**Cause**     An instance tried to mount the database in exclusive mode, but some other instance has already mounted the database in exclusive or parallel mode.

**Action**     Either mount the database in parallel mode or shut down all other instances before mounting the database in exclusive mode.

**ORA–01103     database name *name* in control file is not *name***

**Cause**     The database name used does not match that in the control file.

**Action**     Ensure the correct control file and database name are used.

**ORA–01104     number of control files *num* does not equal *num***

**Cause**     The number of control files used by this instance disagrees with the number of control files in an existing instance that is accessing the same database.

**Action**     Make sure all control files are listed in the initialization parameter CONTROL\_FILES, then retry the operation.

**ORA–01105     mount is incompatible with mounts by other instances**

**Cause**     An attempt was made to mount the database, but another instance has already mounted a database by the same name, and the mounts are not compatible. Additional messages will accompany this message to report why the mounts are incompatible.

**Action**     See the accompanying messages for the appropriate action to take.

**ORA–01106     database must be closed before dismounting**

**Cause**     An attempt was made to dismount a database before it was closed.

**Action**     Close the database, then retry the operation.

**ORA–01107     database must be mounted for media recovery**

**Cause**     An attempt to perform media recovery was made, but the database is not mounted.

**Action**     Mount the database, then retry the operation.

**ORA-01108    media recovery active on file *name***

**Cause**    Media recovery is actively being applied to the given file. The file cannot be used for normal database access or crash recovery.

**Action**    Wait for media recovery to complete or cancel the media recovery session.

**ORA-01109    database not open**

**Cause**    An attempt was made to perform an operation on an unopened database.

**Action**    Open the database, then retry the operation.

**ORA-01110    datafile *name*: *str***

**Cause**    This message reports the filename involved with other messages.

**Action**    See the associated messages for a description of the problem.

**ORA-01111    name for datafile *name* is unknown – rename to correct file**

**Cause**    The datafile was missing from a CREATE CONTROLFILE command or backup control file recovery was done with a control file that was saved before the file was created.

**Action**    Rename the missing file to the name of the real file.

**ORA-01112    media recovery not started**

**Cause**    An attempt was made to continue media recovery, but media recovery had not been started.

**Action**    No action required.

**ORA-01113    file *name* needs media recovery**

**Cause**    An attempt was made to open a datafile that is in need of media recovery.

**Action**    First apply media recovery to the datafile identified in the message, then retry the operation.

**ORA-01114    IO error writing block to file *name* block # *num***

**Cause**    The device on which the file resides is probably off line.

**Action**    Restore access to the device, then retry the operation.

- ORA-01115**    **IO error reading block from file *name* block # *num***
- Cause**    The device on which the file resides is probably off line.
- Action**    Restore access to the device, then retry the operation.
- 
- ORA-01116**    **error in opening datafile *name***
- Cause**    Usually the file is not accessible.
- Action**    Make sure the datafile is in the expected location and can be accessed properly, then retry the operation.
- 
- ORA-01117**    **adding file *name* with illegal block size *num*, limit is *num***
- Cause**    An attempt was made to add a datafile with a block size that is greater than the maximum block size allowed.
- Action**    Retry the operation with a smaller block size.
- 
- ORA-01118**    **cannot add any more datafiles: limit of *num* exceeded**
- Cause**    An attempt to add a datafile failed because the limit for such files had already been reached.
- Action**    If more database space is required, export the database and re-create it with a higher limit for datafiles and perhaps increased file size.
- 
- ORA-01119**    **error in creating datafile *name***
- Cause**    Insufficient space on device.
- Action**    Decrease the size of the requested file or allocate a file on another device with more available space. If a file size was not specified in the statement, then specify a file size smaller than the available space on the device.
- 
- ORA-01120**    **cannot remove online datafile *name*; database is open or mounted parallel**
- Cause**    An attempt to remove an online datafile failed because the file was not closed or was opened in parallel mode. This message can occur when trying to drop a tablespace. A tablespace cannot be dropped while users are accessing its data, index, rollback, or temporary segments or while the database is mounted in parallel mode.
- Action**    Shut down Oracle and mount the database in exclusive mode to drop a tablespace. To prevent users from opening the tablespace, take it off line or put the instance in restricted access mode.

**ORA-01121 cannot rename datafile *name* – file is in use or recovery**

**Cause** An attempt to rename an online datafile failed because the file was not closed or was being recovered. Either the file is online and the datafile is open to some instance, or another process is currently performing media recovery on the file.

**Action** Close the file or shut down Oracle and mount the database in exclusive mode. End all recovery sessions. To prevent users from opening the file, take its tablespace off line or put the instance into restricted mode.

**ORA-01122 datafile *name* – failed verification check**

**Cause** The information in the datafile is inconsistent with information from the control file. This could be for any of the following reasons:

- The control file is from a time earlier than the datafiles.
- The datafile size does not match the size specified in the control file.
- The datafile is corrupted.

**Action** Make certain that the datafiles and control files are the correct files for this database, then retry the operation.

**ORA-01123 cannot start online backup; media recovery not enabled**

**Cause** An attempt to start backup of an online tablespace failed because archiving was not enabled.

**Action** Enable archiving and retry the operation.

**ORA-01124 cannot recover online file *name* – file is in use or recovery**

**Cause** An attempt to do media recover found that the file was not available for recovery. Either it is online and the database is open in some instance, or another process is currently doing media recovery on the file.

**Action** Do not do media recovery.

**ORA-01125 cannot disable media recovery – file *name* has online backup set**

**Cause** An attempt to disable media recovery encountered an online recovery still in progress.

**Action** Wait for the recovery to finish before retrying the operation.

**ORA–01126     database must be mounted exclusive and not open for this operation**

**Cause**     An operation failed because the database was not mounted in exclusive mode.

**Action**     Shut down Oracle and mount the database in exclusive mode.

**ORA–01127     database name *name* exceeds size limit of *num* characters**

**Cause**     The specified database name is too long.

**Action**     Shorten the database name to eight characters or fewer, then retry the operation.

**ORA–01128     cannot start online backup – file *name* is offline**

**Cause**     A file to be backed up in the online backup is offline.

**Action**     Either of the following:

- Bring the file online for the online backup.
- Do an offline backup.

**ORA–01129     user’s default tablespace does not exist**

**Cause**     A user’s default or temporary tablespace was dropped.

**Action**     Re–create the tablespace that was dropped or change the user’s default or temporary tablespace.

**ORA–01130     datafile version *num* incompatible with Oracle Version *num***

**Cause**     The named datafile was created under an incompatible version of Oracle, or the file is invalid or nonexistent.

**Action**     Shut down and restart the correct version of Oracle or check the references to the datafile and make sure it exists.

**ORA–01131     DB\_FILES files initialization parameter value *num* exceeds limit of *num***

**Cause**     The specified value of the initialization parameter DB\_FILES is too large.

**Action**     Reduce the value of the DB\_FILES parameter and retry the operation.

**ORA–01132     length of datafile name *name* exceeds limit of *num* characters**

**Cause**     The specified datafile name is too long.

**Action**     Shorten the filename and retry the operation.

- ORA-01133**    **length of log file name *name* exceeds limit of *num* characters**
- Cause**    The specified redo log filename is too long.
- Action**    Shorten the filename and retry the operation.
- 
- ORA-01134**    **database mounted exclusive by another instance**
- Cause**    An attempt to access a database failed because it is mounted in exclusive mode by another instance.
- Action**    Either shut down the other instance or wait for the other instance to either close the database or mount it in parallel mode, before retrying the operation.
- 
- ORA-01135**    **file *name* accessed for DML query is offline**
- Cause**    A query failed because it referenced a datafile that belongs to an offline tablespace. An offline tablespace must be brought online to access its data.
- Action**    Wait until the tablespace is brought online before executing the query.
- 
- ORA-01136**    **specified size of file *num num* blocks is less than original size of *num* blocks**
- Cause**    An attempt was made to specify a size in the AS clause of the ALTER DATABASE CREATE datafile command that is smaller than the size needed.
- Action**    Issue the statement again using the correct size for the file.
- 
- ORA-01137**    **datafile *name* is still in the middle of going offline**
- Cause**    It was not possible to get the lock for a file that is offline when attempting to bring it online. The most likely cause is that the lock is still held by the instance that is took it offline.
- Action**    Wait for the other instance to release the lock on the file.
- 
- ORA-01138**    **database must either be open in this instance or not at all**
- Cause**    The requested operation cannot be done when the database is mounted but not open by this instance, and another instance has the database open.
- Action**    Execute the operation in the open instance, open the database in the current instance, or close the database in the other instances.

**ORA–01139     RESET LOGS option only valid after an incomplete database recovery**

**Cause**     The RESET LOGS option was specified in an ALTER DATABASE OPEN statement, but there has been no incomplete recovery session.

**Action**     Re-execute the statement without specifying RESET LOGS.

**ORA–01140     cannot end online backup – all files are offline**

**Cause**     All the files were offline when attempting to end an online backup.

**Action**     None. Online backup does not need to be ended for this tablespace.

**ORA–01141     error renaming datafile *name* – new file *name* not found**

**Cause**     An attempt to change a datafile's name in the control file failed because no file was found with the new name.

**Action**     Make sure that the datafile has been properly renamed by the operating system, then retry the operation.

**ORA–01142     cannot end online backup – none of the files are in backup**

**Cause**     None of the files were found to be in the online backup when attempting to end the online backup.

**Action**     None. Online backup does not need to be ended for this tablespace.

**ORA–01143     cannot disable media recovery – file *name* needs media recovery**

**Cause**     An attempt to disable media recovery found a file that needs media recovery. Therefore, media recovery cannot be disabled.

**Action**     Recover the offending file or drop the tablespace to which it belongs, then retry the operation.

**ORA–01144     file size *num* blocks exceeds maximum of *num* blocks**

**Cause**     The specified file size is larger than the maximum allowable size.

**Action**     Specify a smaller size.

**ORA-01145    offline immediate disallowed unless media recovery enabled**

**Cause** ALTER TABLESPACE ... OFFLINE IMMEDIATE or ALTER DATABASE DATAFILE ... OFFLINE is only allowed if database is in ARCHIVEREDO LOG mode.

**Action** Take the tablespace offline as usual or do a shutdown abort before attempting the required operation. It is worthwhile reconsidering the backup strategy for the database. The attempted operations *can* be done if ARCHIVEREDO LOG mode is enabled.

**ORA-01146    cannot start online backup – file *name* is already in backup**

**Cause** An attempt was made to start an online backup, but an online backup was already started for one of the datafiles.

**Action** End the first backup before beginning another.

**ORA-01147    SYSTEM tablespace file *name* is offline**

**Cause** A file belonging to the SYSTEM tablespace has been marked offline by the database administrator. The database cannot be started until all SYSTEM tablespace files are online and can be opened.

**Action** Bring the file online.

**ORA-01148    database must be mounted EXCLUSIVE for this operation**

**Cause** An attempt was made to mount the database PARALLEL without the existence of a lock manager.

**Action** Mount the database in EXCLUSIVE mode and retry the operation.

**ORA-01149    cannot shutdown – file *name* has online backup set**

**Cause** A normal shutdown was attempted while the online backup was in progress.

**Action** End the online backup and then shut down.

**ORA-01150    cannot prevent writes – file *name* has online backup set**

**Cause** Tablespace cannot be taken offline or made read-only when online backup is running. Ending the backup entails writing the file header, which this operation, were it permitted, would prevent.

**Action** End the online backup and then take the tablespace offline or make it read-only.



**ORA–01151     use media recovery to recover block, restore backup if needed**

**Cause** Crash recovery or instance recovery could not apply a change to a block because it was not the next change. This can happen if the block was corrupted and then repaired during recovery. This message is usually accompanied by ORA–01172.

**Action** There is additional information for ORA–01172. Perform a RECOVER datafile for the file containing the block. If this does not resolve the problem, restore the file from a backup and recover it again.

**ORA–01152     file *name* was not restored from a sufficiently old backup**

**Cause** An incomplete recovery session was started, but an insufficient number of redo logs were applied to make the database consistent. This file is still in the future of the last redo log applied. The most likely cause of this message is forgetting to restore the file from backup before doing incomplete recovery.

**Action** Apply additional redo log files until the database is consistent or restore the datafiles from an older backup and repeat recovery.

**ORA–01153     an incompatible media recovery is active**

**Cause** An attempt was made to start an incompatible media recovery or to open resetlogs during media recovery. Media recovery sessions are incompatible if they attempt to recover the same datafile. Incomplete media recovery or OPEN RESETLOGS is incompatible with any media recovery.

**Action** Complete or cancel the other media recovery session.

**ORA–01154     database busy. Open, Close, mount, and dismount not allowed now**

**Cause** Some operation is in progress that expects the state of the instance to remain open or mounted.

**Action** Wait for the operation to complete and try again. If attempting a normal database shutdown, try SHUTDOWN ABORT.

**ORA–01155     the database is being opened, closed, mounted, or dismounted**

**Cause** The attempted operation will not succeed while the instance is in one of the states mentioned in the message.

**Action** Wait for the open, close, mount, or dismount to complete and try again. If attempting a normal database shutdown, try SHUTDOWN ABORT.

**ORA-01156 recovery in progress may need access to files**

**Cause** Either media or instance recovery is in progress. The recovery may need access to the files that the attempted operation tried to use.

**Action** Wait for the recovery to complete and try again.

**ORA-01157 cannot identify datafile *name* – file not found**

**Cause** The background process was not able to find one of the datafiles. The database will prohibit access to this file but other files will be unaffected. However, the first instance to open the database will need to access all online datafiles. Accompanying messages from the operating system will describe why the file was not found.

**Action** Make the file available to the database. Then either open the database or do ALTER SYSTEM CHECK datafiles. See also your operating system-specific Oracle documentation.

**ORA-01158 database *name* already mounted**

**Cause** Another instance has mounted a database of this name already.

**Action** Find and shut down the instance that has this database mounted before issuing the CREATE CONTROLFILE statement.

**ORA-01159 file *name* is not from same database as previous files – wrong database id**

**Cause** Not all of the files specified in the CREATE CONTROLFILE statement are from the same database.

**Action** Check the list of files specified in the CREATE CONTROLFILE statement and remove files that are not part of the same database.

**ORA-01160 file *name* is not a *str* – it is of type *str***

**Cause** The file in the datafile or log file section of the CREATE CONTROLFILE statement is not of the type listed in the command line.

**Action** Check the file and determine its type. Enter the command again using the correct type for the file.

**ORA-01161 database name *name* in file header does not match given name of *name***

**Cause** The database name given at the command line does not match the database name found in the file header. The database name specified at the command line is incorrect.

**Action** Enter the command again with the correct name for the database.

**ORA-01162    block size *num* in file header does not match DB\_BLOCK\_SIZE *num***

**Cause** CREATE CONTROLFILE discovered that the block size for this file is incompatible with the initialization parameter DB\_BLOCK\_SIZE used to allocate cache buffers. If this is not the first file, then there is a mixture of block sizes, or the file is corrupt.

**Action** If this is the first file in the command, then correct DB\_BLOCK\_SIZE to match the file and restart the instance; if it is not the first file, find the correct version of the file.

**ORA-01163    SIZE clause indicates *num* blocks, but should match header *num***

**Cause** The size specified in bytes in the SIZE clause of the CREATE CONTROLFILE statement does not equate to the number of blocks recorded in the header.

**Action** Specify the correct filename and size, in bytes.

**ORA-01164    MAXLOGFILES may not exceed *num***

**Cause** The value for MAXLOGFILES specified on the command line is greater than *num*.

**Action** Retry the command with a value of MAXLOGFILES that is *num* or less.

**ORA-01165    MAXDATAFILES may not exceed *num***

**Cause** The value for MAXDATAFILES specified on the command line is greater than *num*.

**Action** Retry the command with a value of MAXDATAFILES that is *num* or less.

**ORA-01166    file number *num* is larger than *num num***

**Cause** In the CREATE CONTROLFILE statement, the file mentioned has a file number that is larger than that specified in MAXDATAFILES or MAXLOGFILES, or the file number is larger than the maximums specified in the initialization parameter, DB\_FILES.

**Action** Increase the values of MAXLOGFILES, MAXDATAFILES, or of the parameter DB\_FILES.

**ORA-01167      two files are the same file/group number or the same file**

**Cause** There is an overlap of file numbers in the files specified on the command line, or the same file is specified twice. If they are not the exact same file, then one is likely to be a backup of the other. If they are two members of the same redo log, they must be specified together in a group file spec.

**Action** Confirm that the file mentioned is not a repeat of a file already mentioned in the command. If they are different files, then omit the earlier backup. If they are members of the same redo log, ensure they are in the same group file specification.

**ORA-01168      physical block size *num* does not match size *num* of other members**

**Cause** The file is located on a device with a different physical block size than the other members in the group.

**Action** Use a physical device with matching block size.

**ORA-01169      datafile number 1 not found. Must be present**

**Cause** datafile number 1 was not specified in a CREATE CONTROLFILE statement.

**Action** Locate datafile number 1 and retry the CREATE CONTROLFILE statement, making certain to include datafile on the command line.

**ORA-01170      file not found *name***

**Cause** A file specified in the CREATE CONTROLFILE statement was not found. All datafiles and all redo log files, if NORESETLOGS was used, must be accessible by the process that issues the CREATE CONTROLFILE statement.

**Action** Check the statement for a typing mistake in the filename and check for the existence of all files. Then issue the statement again after correcting the filenames.

**ORA-01171      datafile *str* is going offline due to error advancing checkpoint**

**Cause** The checkpoint in the file header could not be advanced. See accompanying messages for the reason. The datafile will be taken offline the same as for a write error of a data block.

**Action** See accompanying messages for details. Restore access to the file, do media recovery, and bring it back online.

**ORA–01172    recovery of thread *num* stuck at block *num* of file *name***

**Cause** Crash recovery or instance recovery could not apply a change to a block because it was not the next change. This can happen if the block was corrupted and then repaired during recovery.

**Action** Perform a RECOVER datafile for the file containing the block. If this does not resolve the problem, then restore the file from a backup and recover it again.

**ORA–01173    data dictionary indicates missing datafile from system tablespace**

**Cause** Either

- The database is recovered to a point in time in the future of the control file.
- A datafile from the system tablespace is omitted from the issued CREATE CONTROLFILE statement.

**Action** Either

- Recover the database from a more recent control file.
- Re–create the control file, ensuring all datafiles are included for the system tablespace in the command line.

**ORA–01174    DB\_FILES is *num* but needs to be *num* to be compatible**

**Cause** The maximum number of datafiles supported by this instance is not the same as for the other instances. All instances must be able to open all the files any instance can open.

**Action** Change the value of the DB\_FILES initialization parameter to be compatible.

**ORA–01175    data dictionary has more than the *num* files allowed by the instance**

**Cause** The data dictionary has more files than the instance can support.

**Action** Increase the value of the initialization parameter DB\_FILES, then shut down and restart the instance.

**ORA–01176    data dictionary has more than the *num* files allowed by the control file**

**Cause** After a CREATE CONTROLFILE statement, the data dictionary has more datafiles than supported by the control file.

**Action** Re–create the control file with a larger value for MAXDATAFILES.

**ORA-01177     datafile does not match dictionary – probably old incarnation**

**Cause** When comparing the control file with the data dictionary after a CREATE CONTROLFILE or OPEN RESETLOGS, it was noted that this datafile was inconsistent with the dictionary. Most likely the file is a backup of a file that was dropped from the database, and the same file number was reused for a new file. It may also be that an incomplete recovery stopped at a time when this file number was used for another datafile.

**Action** Do a CREATE CONTROLFILE with the correct file or none at all.

**ORA-01178     file *name* created before last CREATE CONTROLFILE, cannot be recreated**

**Cause** An attempt was made to use the ALTER DATABASE CREATE datafile to re-create a datafile that existed at the last CREATE CONTROLFILE command. The information needed to re-create the file was lost with the control file that existed when the file was added to the database.

**Action** Find a backup of the file and recover it. Perform incomplete recovery to the time before the file was originally created.

**ORA-01179     file *name* does not exist**

**Cause** During datafile recovery, a file was listed that was not part of the database.

**Action** Recheck the filename. Remember to use single quotation marks at the SQL\*DBA command line. Remember also that the filename is translated in the operating environment of SQL\*DBA.

**ORA-01180     cannot create datafile 1**

**Cause** datafile 1 cannot be created with the ALTERDATABASECREATEDATA FILE command.

**Action** Either recover the file from a backup or re-create the database.

**ORA-01181     file *name* created before last RESETLOGS, cannot be recreated**

**Cause** An attempt was made to use the ALTER DATABASE CREATE datafile command to re-create a datafile that existed before the last time the database was opened using the RESETLOGS option.

**Action** Find a backup of the file and recover the backup file. Perform incomplete recovery to a time before the file was originally created.

**ORA–01182     cannot create datafile *name* – file is in use or recovery**

**Cause**     An attempt was made to use the ALTER DATABASE CREATE datafile command to re-create a datafile that is currently online in an open instance or is currently being recovered.

**Action**     Close the database to all instances or end all recovery sessions. Then take the file offline and retry the operation.

**ORA–01183     cannot mount database in SHARED mode**

**Cause**     The database is mounted in exclusive mode by another instance. It is **not** possible to mount a database in SHARED mode if it is mounted in exclusive mode by another instance.

**Action**     Shut down the other instance and try again.

**ORA–01184     log file group *num* already exists**

**Cause**     An ALTER DATABASE ADD log file command specified a log number for the new redo log which is already in use.

**Action**     Specify a different redo log file number or let the database choose an unused value.

**ORA–01185     log file group number *num* is invalid**

**Cause**     An ALTER DATABASE ADD log file command specified a redo log number for the new redo log that is too large.

**Action**     Specify a valid redo log file number.

**ORA–01186     verification tests failed on file *name***

**Cause**     The datafile did not pass the checks to ensure it is part of the database. See the accompanying messages for the reason the verification failed.

**Action**     Make the correct file available to database. Then either open the database or execute ALTER DATABASE CHECK.

**ORA–01187     cannot read from file *name* because it failed verification tests**

**Cause**     The datafile did not pass the checks to ensure it is part of the database. Reading the file is not allowed until it is verified.

**Action**     Make the correct file available to database. Then either open the database or execute ALTER DATABASE CHECK.

**ORA-01188    block size *num* in header does not match physical block size**

**Cause** A redo log file member given to CREATE CONTROLFILE is on a physical device that has a different block size than the device originally used to create the redo log.

**Action** Move the file to a device with the correct block size or use the RESETLOGS option to CREATE CONTROLFILE.

**ORA-01189    file is from a different RESETLOGS than previous files**

**Cause** In a CREATE CONTROLFILE command, either this file or all previous files were backups from before the last RESETLOGS. This also may occur if this is a file that is offline and has been offline since before the last RESETLOGS.

**Action** If the file was taken offline normally before the last RESETLOGS and is still offline, omit it from the CREATE CONTROLFILE command. Rename and online the file after the database is open. Otherwise, find the version of the mentioned file consistent with the rest of the datafiles and retry the command.

**ORA-01190    control file or datafile *name* is from before the last RESETLOGS**

**Cause** An attempt was made to perform media recovery when the redo log reset information in a datafile does not match the control file. Either the datafile or the control file must be a backup that was made before the most recent ALTER DATABASE OPEN RESETLOGS.

**Action** Restore the file from a more recent backup.

**ORA-01191    file *name* is already offline – cannot do a normal offline**

**Cause** An attempt was made to take a tablespace offline as usual, but the file named in the message was already offline.

**Action** Bring the datafile online first or use the IMMEDIATE option when taking the tablespace offline.

**ORA-01192    must have at least one enabled thread**

**Cause** At least two redo log files from at least one thread *must* be specified in the CREATE CONTROLFILE command line.

**Action** Find the missing redo log files and retry the command with the newly found redo log files included in the command line.



**ORA–01193    file *name* is not the same file seen at start of recovery**

**Cause**    An attempt was made to perform media recovery on a file, but a different copy of the file now exists since the last media recovery. Perhaps an invalid backup of the file was restored.

**Action**    Find the correct version of the file, then retry media recovery.

**ORA–01194    file *name* needs more recovery to be consistent**

**Cause**    An incomplete recovery session was started, but an insufficient number of redo logs were applied to make the file consistent. The named file was not closed cleanly when it was last opened by the database. The most likely cause of this message is forgetting to restore the file from a backup before doing incomplete recovery.

**Action**    The file must be recovered to a time when it was not being updated. Either apply more redo logs until the file is consistent or restore the file from an older backup and repeat recovery.

For more information about recovery, see the index entry “recovery” in the *Oracle7 Server Administrator’s Guide*..

**ORA–01195    online backup of file *name* needs more recovery to be consistent**

**Cause**    An incomplete recovery session was started, but an insufficient number of redo logs were applied to make the file consistent. The reported file is an online backup that must be recovered to the time the backup ended.

**Action**    Either apply more redo logs until the file is consistent or restore the file from an older backup and repeat the recovery.

For more information about online backup, see the index entry “online backups” in the *Oracle7 Server Administrator’s Guide*.

**ORA–01196    file *name* is inconsistent due to a failed media recovery session**

**Cause**    The file was being recovered but the recovery did not terminate normally. This left the file in an inconsistent state. No more recovery was successfully completed on this file.

**Action**    Either apply more logs until the file is consistent or restore the backup again and repeat recovery.

For more information about media recovery, see the index entry, “media recovery” in the *Oracle7 Server Administrator’s Guide*.

- ORA-01197**    **thread *num* only contains one log**
- Cause**    During a CREATE CONTROLFILE statement, all threads represented in the redo logs must be represented by at least two redo logs: a last redo log and a second redo log. The named thread does not contain two redo logs.
- Action**    Either find more redo logs from the named thread or remove all references to redo logs from that thread, then retry the command.
- 
- ORA-01198**    **must specify size for log file *name* if RESETLOGS**
- Cause**    File sizes must be given for all redo log files if doing a CREATE CONTROLFILE with the RESETLOGS option.
- Action**    Retry the command with the appropriate redo log file size.
- 
- ORA-01200**    **actual file size of *num* is smaller than correct size of *num* blocks**
- Cause**    The size of the file, as returned by the operating system, is smaller than the size of the file as indicated in the file header and the control file. Somehow the file has been truncated.
- Action**    Restore a good copy of the datafile from a backup and perform recovery as needed.
- 
- ORA-01201**    **file size *num* in header does not match size *num* in control file**
- Cause**    The file sizes in the control file and in the file header do not match. One of the files probably is corrupted.
- Action**    Replace the corrupted file with a good copy and perform recovery as needed.
- 
- ORA-01202**    **wrong incarnation of this file – wrong creation time**
- Cause**    The creation time in the file header is not the same as the creation time in the control file. This is probably a copy of a file that was dropped.
- Action**    Restore a current copy of the datafile and perform recovery as needed.
- 
- ORA-01203**    **wrong incarnation of this file – wrong creation SCN**
- Cause**    The creation change number in the file header is not the same as the creation change number in the control file. This is probably a copy of a file that was dropped.
- Action**    Restore a current copy of the datafile and perform recovery as needed.

**ORA-01204      wrong file – file number is *num* rather than *num***

**Cause**      The file number in the file header is not correct. This is probably a restored backup of the wrong file, but from the same database.

**Action**      Restore a copy of the correct datafile and perform recovery as needed.

**ORA-01205      not a datafile – type number in header is *num***

**Cause**      The file type in the header is not correct for a datafile. This is probably a redo log file or control file.

**Action**      Restore a copy of the correct datafile and perform recovery as needed.

**ORA-01206      file is not part of this database – wrong database id**

**Cause**      The database ID in the file header does not match the database ID in the control file. The file may be from a different database, or it may not be a datafile at all. If the database was rebuilt, this may be a file from before the rebuild.

**Action**      Restore a copy of the correct datafile and perform recovery as needed.

**ORA-01207      file is more recent than control file – old control file**

**Cause**      The control file change sequence number in the datafile is greater than the number in the control file. This implies that the wrong control file is being used.

**Note:** If this message occurs repeatedly, by opening the database many times, the message may stop occurring without the problem being corrected. Every attempt to open the database will advance the control file change sequence number until it is great enough.

**Action**      Use the current control file or perform cancel-based recovery to make the control file current. Be sure to follow all restrictions on performing a cancel-based recovery.

**ORA-01208      datafile is an old version – not accessing current version**

**Cause**      The checkpoint in the file header is less recent than in the control file. If opening a database that is already open by another instance or if another instance just caused this file to be placed online, then the database is probably looking at a different version of the file. Otherwise, a backup of the file was probably restored while the file was still in use.

**Action**      Make correct file available to database. Then either open the database or do ALTER DATABASE CHECK.

**ORA-01209      datafile is from before the last RESETLOGS**

**Cause** The reset redo log data in the file header does not match the control file. If the database is closed or the file is offline, this is an old backup that was taken before the last ALTER DATABASE OPEN RESETLOGS command. If opening a database that is already open by another instance or if another instance just put this file online, then we are probably looking at a different version of the file. Otherwise a backup of the file was probably restored while the file was in use.

**Action** Make the correct file available to the database. Then either open the database or issue an ALTER DATABASE CHECK statement.

**ORA-01210      datafile header is media corrupt**

**Cause** The file header block is internally inconsistent. The beginning of the block has a header with a checksum and other data for insuring the consistency of the block. It is possible that the last disk write did not operate correctly. The most likely problem is that this is not a datafile for any database.

**Action** Make the correct file available to the database. Refer to any trace file generated after this message for more information. If the trace file indicates that the checksum is wrong, restore the file from a backup and perform media recovery.

**ORA-01211      Version 6 datafile is not from conversion to Oracle7**

**Cause** The file is not a copy of the file last used under Version 6. When converting a database from Version 6 to Oracle7, the conversion utility must be run the last time the database is opened under Version 6. Only the datafiles that were current when the conversion was done may be accessed by Oracle7. Either this datafile is a backup taken from before the conversion or the database was opened by Version 6 after the conversion.

**Action** Have the operating system make the correct datafile available to the database or repeat the Version 6 to Oracle7 conversion.

**ORA-01212      MAXLOGMEMBERS may not exceed *num***

**Cause** The value specified for MAXLOGMEMBERS is too large.

**Action** Retry the command with a smaller value for MAXLOGMEMBERS.

**ORA-01213      MAXINSTANCES may not exceed *num***

**Cause** The value specified for MAXINSTANCES is too large.

**Action** Retry the command with a smaller value for MAXINSTANCES.

**ORA–01214    MAXLOGHISTORY may not exceed *num***

**Cause**    The value specified for MAXLOGHISTORY is too large.

**Action**    Retry the command with a smaller value for MAXLOGHISTORY.

**ORA–01215    enabled thread *num* is missing after CREATE CONTROLFILE**

**Cause**    A CREATE CONTROLFILE command did not list all of the enabled threads for the database.

**Action**    Issue the CREATE CONTROLFILE command again and include all of the enabled threads.

**ORA–01216    thread *num* is expected to be disabled after CREATE CONTROLFILE**

**Cause**    A thread specified in the CREATE CONTROLFILE command was enabled, but the datafiles indicate that the thread should be disabled. This is probably because the redo log files supplied to the CREATE CONTROLFILE command are from a time before the thread was disabled.

**Action**    This thread is not required for the operation of the database. Retry the command without specifying the thread. If desired, the thread can be re-created after the database has been opened.

**ORA–01217    log file member belongs to a different redo log file group**

**Cause**    A member of a redo log file group specified in the CREATE CONTROLFILE command is not part of the same group as the previous members.

**Action**    Group together the correct members of the redo log file group for the CREATE CONTROLFILE command.

**ORA–01218    log file member is not from the same point-in-time**

**Cause**    A member of a redo log file group specified in the CREATE CONTROLFILE command is from a different point in time from the previous members. One of the members specified may be an older, possibly a backup copy, version of the redo log.

**Action**    Find the correct version of the redo log or leave it out of the CREATE CONTROLFILE command.

**ORA–01219    database not open: queries allowed on fixed tables/views only**

**Cause**    A query was issued against an object not recognized as a fixed table or fixed view before the database was opened.

**Action**    Revise the query to include only fixed objects or open the database.

**ORA-01220 file based sort illegal before database is open**

**Cause** A query issued against a fixed table or view required a temporary segment for sorting before the database was open. Only in-memory sorts are supported before the database is open.

**Action** Rephrase the query to avoid a large sort and increase the SORT\_AREA\_SIZE parameter in the initialization parameter file to enable the sort to be done in memory.

**ORA-01221 datafile *name* is not the same file to a background process**

**Cause** When the database writer opens the datafile, it is accessing a different physical file than the foreground doing the recovery. The time-stamp set in the file header by the foreground was not found by the background. It may be that the background process could not read the file at all.

**Action** Look in the DBWR trace file for the error it received when attempting to read the file header. Reconfigure the operating system as needed to have the filename successfully access the same file when opened by a background process.

**ORA-01222 MAXINSTANCES of *num* requires MAXLOGFILES be at least *num*, not *num***

**Cause** An attempt was made to create a database or control file that does not have room for at least two redo logs per thread of redo. A thread of redo must have two online redo logs in order to be enabled. It does not make sense to allow more redo threads than can be supported by the logs.

**Action** Either reduce the MAXINSTANCES argument or increase MAXLOGFILES.

**ORA-01223 RESETLOGS must be specified to set a new database name**

**Cause** The SET database name option was specified to CREATE CONTROLFILE, but RESETLOGS was not specified. The database name can only be changed when opening the database with RESETLOGS.

**Action** Either add the RESETLOGS option or drop the SET option to CREATE CONTROLFILE.

**ORA-01224 group number in header *name* does not match GROUP *name***

**Cause** Group number specified at CREATE CONTROLFILE does not match the group number stored in the header. Most likely the specification is wrong.

**Action** Omit the GROUP option or give the correct one.

**ORA–01225    thread number *num* is greater than MAXINSTANCES *num***

**Cause**    The redo log is for a thread greater than the MAXINSTANCES arguments.

**Action**    Increase the value for MAXINSTANCES and retry the command.

**ORA–01226    file header of redo log member is inconsistent with other member**

**Cause**    The redo log file member in the accompanying message is for the same group as the previous members, but other fields in the header are different. Either a file header is corrupted, or some file is a member of a deleted redo log.

**Action**    Correct the redo log member or omit this member from the command.

For more information about redo logs, see the index entries “redo log” and “redo log files” in the *Oracle7 Server Administrator’s Guide*.

**ORA–01227    log *name* is inconsistent with other log**

**Cause**    The redo log file in the accompanying message is inconsistent with the contents of other redo logs given in the CREATE CONTROLFILE command. Either a file header is corrupted, or some file is an old copy rather than the current version. The problem may not be with the redo log listed because all that can be detected is that there is an inconsistency. All redo log files listed in the command must be the current versions of the online redo logs.

**Action**    Find the correct online redo logs or use the RESETLOGS option.

For more information about redo logs, see the index entries “redo log” and “redo log files” in the *Oracle7 Server Administrator’s Guide*.

**ORA–01228    SET DATABASE option required to install seed database**

**Cause**    The SET DATABASE option was not included in the CREATE CONTROLFILE command when installing a seed database. The database does not have a database ID because it is intended to be installed at multiple sites, and each site needs to be a different database with its own database ID. Both the SET DATABASE and RESETLOGS options must be specified to create the control file for this database.

**Action**    Retry the command with the SET DATABASE and RESETLOGS options.

**ORA-01229      datafile *name* is inconsistent with logs**

**Cause** The datafile in the accompanying message is inconsistent with the contents of the redo logs given in the CREATE CONTROLFILE command. The most likely cause is that one or more of the online redo logs was missing from the command. It is also possible that one or more of the redo logs is an old copy rather than the current version. All online redo log files must be listed in the command and must be the current versions of the online redo logs.

**Action** Retry the command with the correct online redo logs or use the RESETLOGS option.

For more information about datafiles, see the index entry “datafiles” in the *Oracle7 Server Administrator’s Guide*.

**ORA-01230      cannot make read only – file *name* is offline**

**Cause** An attempt to make a tablespace read-only encountered an offline file.

**Action** Bring the file online and retry the operation.

**ORA-01231      cannot make read write – file *name* is offline**

**Cause** An attempt to make a tablespace read-write encountered an offline file.

**Action** Bring the file online and retry the operation.

**ORA-01232      cannot start online backup – file *name* is read only**

**Cause** An attempt to start an online backup encountered a read-only file.

**Action** Read-only files do not need to be set into online backup mode. Start the backup without using the BEGIN BACKUP command.

**ORA-01233      file *name* is read only – cannot recover using backup control file**

**Cause** An attempt to do media recovery using a backup control file encountered a read-only file. Typically, read-only files do not need to be recovered. However, if the recovery is using a backup control file, all online files must be recovered.

**Action** Take the read-only file offline and bring the tablespace online only after opening the database. Ensure that the backup control file was in use when the currently read-only file was read-write. If such a control file is unavailable, you may be able to re-create it using the CREATE CONTROLFILE command.



**ORA-01239     database must be in ARCHIVELOG mode to use external cache**

**Cause**     An online file used an external cache, but the database was in NOARCHIVELOG mode. Since an external cache may require media recovery this cannot be allowed.

**Action**     Change the database to be in ARCHIVELOG mode or do not use an external cache.

For more information about ARCHIVELOG, see the index entry on “ARCHIVELOG” in *Oracle7 Server SQL Reference*.

**ORA-01240     too many datafiles to add in one command**

**Cause**     The command specified adding more datafiles than can be done in one command. It is necessary to fit all the file names into one log entry, but that would make the entry too large.

**Action**     If this is a CREATE TABLESPACE command, create with fewer files then add the other files later. If this is an ADD DATAFILE command, break it up into multiple commands.

For more information about CREATE TABLESPACE and ADD DATAFILE, see the index entries on “CREATE TABLESPACE” and on “ADD DATAFILE clause, of ALTER TABLESPACE command” in *Oracle7 Server SQL Reference*.

**ORA-01241     an external cache has died**

**Cause**     The external cache may have been restarted.

**Action**     Take the file mentioned in the error stack offline, perform media recovery, bring the file online, and retry the attempted operation. You can also restart all instances to make sure they access all datafiles through consistent external caches.

For more information about external caches and the media recovery of datafiles, see the index entries on “caches” and on “datafiles, backups, media recovery and” in *Oracle7 Server Concepts*.

**ORA-01242     data file suffered media failure: database in NOARCHIVELOG**

**Cause** The database is in NOARCHIVELOG mode and a database file was detected as inaccessible due to media failure.

**Action** Restore accessibility to the file mentioned in the error stack and restart the instance.

For more information about media failure, see the index entry on “media failure” in the *Oracle7 Server Administrator’s Guide*. For more information on NOARCHIVELOG, see the index entry on “NOARCHIVELOG” in *Oracle7 Server SQL Reference*.

**ORA-01243     system tablespace file suffered media failure**

**Cause** A system tablespace file was detected as inaccessible due to media failure.

**Action** Restore accessibility to the file mentioned in the error stack and restart the instance.

For more information about media failure, see the index entry on “media failure” in the *Oracle7 Server Administrator’s Guide*. For more information on tablespaces, see the index entry on “tablespaces” in *Oracle7 Server SQL Reference*.

**ORA-01244     unnamed datafile(s) added to controlfile by media recovery**

**Cause** Media recovery with a backup controlfile or a controlfile that was rebuilt encountered the creation of a datafile that was not in the controlfile. An entry has been added to the controlfile for the new datafiles, but with the file name UNNAMED $num$ , where  $num$  is the file number. Attached errors describe the file names that were originally used to create the files.

**Action** Rename the files to valid file names and resume recovery. If necessary, the command ALTER DATABASE CREATE DATAFILE may be used to create a file suitable for recovery and do the rename. If the file is not going to be recovered, then take it offline with the DROP option.

For more information about datafiles and media recovery, see the index entry on “recovery, media, datafile” in *Oracle7 Server Concepts* and the index entry on “ALTER DATABASE command” in *Oracle7 Server SQL Reference*.

**ORA–01245     offline file *name* will be lost if RESETLOGS is done**

**Cause**     An attempt was done to do an OPEN RESETLOGS with a file that will be lost because it is offline. The file was not taken offline with the DROP option.

**Action**     Either bring the file online and recover it, or take it offline with the DROP option.

For more information about bringing a file online and recovering the file, see the index entry on “redo log files, online, recovery use of” in *Oracle7 Server Concepts*.

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**01400–01489: SQL Execution**

This section lists messages generated during SQL execution.

**ORA-01400     primary key or mandatory (NOT NULL) column is missing or NULL during insert**

**Cause** When inserting or updating rows, a value for a column defined as NOT NULL was not specified.

**Action** Specify a value for each NOT NULL column or modify the table definition to allow NULL values in columns now defined as NOT NULL.

**ORA-01401     inserted value too large for column**

**Cause** The value entered is larger than the maximum width defined for the column.

**Action** Enter a value smaller than the column width or use the MODIFY option with ALTER TABLE to expand the column width.

**ORA-01402     view WITH CHECK OPTION where-clause violation**

**Cause** An INSERT or UPDATE statement was attempted on a view created with the CHECK OPTION. This would have resulted in the creation of a row that would not satisfy the view's WHERE clause.

**Action** Examine the view's WHERE clause in the dictionary table VIEWS. If the current view does not have the CHECK OPTION, then its FROM clause must reference a second view that is defined using the CHECK OPTION. The second view's WHERE clause must also be satisfied by any INSERT or UPDATE statements. To insert the row, it may be necessary to insert it directly into the underlying table, rather than through the view.

**ORA-01403     no data found**

**Cause** In a host language program, all records have been fetched. The return code from the fetch was +4, indicating that all records have been returned from the SQL query.

**Action** Terminate processing for the SELECT statement.

**ORA-01404 ALTER COLUMN will make a concatenated index too large**

**Cause** Increasing the length of a column would cause the combined length of the columns specified in a previous CREATE INDEX statement to exceed the maximum index length (255). The total index length is computed as the sum of the width of all indexed columns plus the number of indexed columns. Date fields are calculated as a length of 7, character fields are calculated at their defined width, and numeric fields are length 22.

**Action** The only way to alter the column is to drop the affected index. The index cannot be recreated if to do so would exceed the maximum index width.

**ORA-01405 fetched column value is NULL**

**Cause** The INTO clause of a FETCH operation contained a NULL value, and no indicator was used. The column buffer in the program remained unchanged, and the cursor return code was +2. This is an error unless you are running Oracle7 with DBMS=6, emulating version 6, in which case it is only a warning.

**Action** You may do any of the following:

- Use the NVL function to convert the retrieved NULL to another value, such as zero or blank. This is the simplest solution.
- Use an indicator to record the presence of the NULL. You probably should use this option when you want a specific action to be taken when a NULL arises.
- Revise the cursor definition so that no columns possibly containing NULL values are retrieved.

**ORA-01406 fetched column value was truncated**

**Cause** In a host language program, a FETCH operation was forced to truncate a character string. The program buffer area for this column was not large enough to contain the entire string. The cursor return code from the fetch was +3.

**Action** Increase the column buffer area to hold the largest column value or perform other appropriate processing.

**ORA-01407 cannot update mandatory NOT NULL column to NULL**

**Cause** An attempt was made to update data in a NOT NULL column to a NULL value.

**Action** Specify a value for the column or modify the table definition to accept NULL values in that column.

**ORA-01408    such column list already indexed**

**Cause** A CREATE INDEX statement specified a column that is already indexed. A single column may be indexed only once. Additional indexes may be created on the column if it is used as a portion of a concatenated index, that is, if the index consists of multiple columns.

**Action** Do not attempt to re-index the column, as it is unnecessary. To create a concatenated key, specify one or more additional columns in the CREATE INDEX statement.

**ORA-01409    NOSORT option may not be used; rows are not in ascending order**

**Cause** Creation of index with NOSORT option when rows were not ascending. The NOSORT option may only be used for indexes on groups of rows that already are in ascending order.

For non-unique indexes the ROWID is considered part of the index key. This means that two rows that appear to be stored in ascending order may not be. If you create an index NOSORT, and two of the rows in the table have the same index values, but get split across two extents, the data block address of the first block in the second extent can be less than the data block address of the last block in the first extent. If these addresses are not in ascending order, the ROWIDs are not either. Since these ROWIDs are considered part of the index key, the index key is not in ascending order, and the create index NOSORT fails.

**Action** Create the index without the NOSORT option or ensure that the table is stored in one extent.

**ORA-01410    invalid ROWID**

**Cause** A ROWID was entered incorrectly. ROWIDs must be entered as formatted hexadecimal strings using only numbers and the characters A through F. A typical ROWID format is '000001F8.0001.0006'.

**Action** Check the format, then enter the ROWID using the correct format. ROWID format: block id, row in block, file id.

**ORA-01411    cannot store the length of column in the indicator**

**Cause** Oracle tried to fetch a column more than 64K long and could not store the length of the column in the given indicator size of 2 bytes.

**Action** Use the new bind type with callbacks to fetch the long column.

**ORA-01412      zero length not allowed for this datatype**

**Cause**      The length for datatype 97 is 0.

**Action**      Specify the correct length for the datatype.

**ORA-01413      illegal value in packed decimal number buffer**

**Cause**      The user buffer bound by the user as a packed decimal number contained an illegal value.

**Action**      Use a legal value.

**ORA-01414      invalid array length when trying to bind array**

**Cause**      An attempt was made to bind an array without either a current array length pointer or a zero maximum array length.

**Action**      Specify a valid length.

**ORA-01416      two tables cannot be outer-joined to each other**

**Cause**      Two tables in a join operation specified an outer join with respect to each other. If an outer join is specified on one of the tables in a join condition, it may not be specified on the other table.

**Action**      Remove the outer join specification (+) from one of the tables, then retry the operation.

**ORA-01417      a table may be outer joined to at most one other table**

**Cause**      A table in a join operation specified an outer join to more than one other table. A table may specify an outer join to only one other table.

**Action**      Specify only one outer join (+) to this table, then retry the operation.

**ORA-01418      specified index does not exist**

**Cause**      An ALTER INDEX, DROP INDEX, or VALIDATE INDEX statement specified the name of an index that does not exist. Only existing indexes can be altered, dropped, or validated. Existing indexes may be listed by querying the data dictionary.

**Action**      Specify the name of an existing index in the ALTER INDEX, DROP INDEX, or VALIDATE INDEX statement.

**ORA-01422 exact fetch returns more than requested number of rows**

**Cause** More rows were returned from an exact fetch than specified.

**Action** Rewrite the query to return fewer rows or specify more rows in the exact fetch.

**ORA-01423 error encountered while checking for extra rows in exact fetch**

**Cause** An error was encountered during the execution of an exact fetch. This message will be followed by more descriptive messages.

**Action** See the accompanying messages and take appropriate action.

**ORA-01424 missing or illegal character following the escape character**

**Cause** The character following the escape character in LIKE pattern is missing or not one of the wildcard characters '%' or '\_'.

**Action** Remove the escape character or specify the missing character.

**ORA-01425 escape character must be character string of length 1**

**Cause** Given escape character for LIKE is not a character string of length 1.

**Action** Change it to a character string of length 1.

**ORA-01426 numeric overflow**

**Cause** Evaluation of a value expression has caused an overflow or possibly an underflow.

**Action** Rewrite the expression as a series of expressions with fewer operands than the 'overloaded' expression.

**ORA-01427 single-row subquery returns more than one row**

**Cause** The outer query must use one of the keywords ANY, ALL, IN, or NOT IN to specify values to compare because the subquery returned more than one row.

**Action** Use ANY, ALL, IN, or NOT IN to specify which values to compare or reword the query so only one row is retrieved.



**ORA-01428     argument *num* is out of range**

**Cause**     An illegal value for a mathematical function argument was specified.  
For example

```
SELECT SQRT(-1) "Square Root" FROM DUAL;
```

**Action**     See *Oracle7 Server SQL Reference* manual for valid input and ranges of the mathematical functions.

**ORA-01429     a date in binary format has an out of range value**

**Cause**     The date, in binary format, for an external type DATE was out of range for one or more of the seven possible bytes.

**Action**     Select values for each of the seven bytes that conform to the required date specification or use the TO\_DATE function with character data.

**ORA-01430     column being added already exists in table**

**Cause**     An ALTER TABLE ADD statement specified the name of a column that is already in the table. All column names must be unique within a table.

**Action**     Specify a unique name for the new column, then re-execute the statement.

**ORA-01431     internal inconsistency in GRANT command**

**Cause**     An internal error occurred while attempting to execute a GRANT statement.

**Action**     Contact customer support.

**ORA-01432     public synonym to be dropped does not exist**

**Cause**     The synonym specified in DROP PUBLIC SYNONYM is not a valid public synonym. It may be a private synonym.

**Action**     Correct the synonym name or use DROP SYNONYM if the synonym is not public.

**ORA-01433     synonym to be created is already defined**

**Cause**     A CREATE SYNONYM statement specified a synonym name that is the same as an existing synonym, table, view, or cluster. Synonyms may not have the same name as any other synonym, table, view, or cluster available to the user creating the synonym.

**Action**     Specify a unique name for the synonym, then re-execute the statement.

**ORA-01434 private synonym to be dropped does not exist**

**Cause** A DROP SYNONYM statement specified a synonym that does not exist. Existing synonym names may be listed by querying the data dictionary.

**Action** Specify the name of an existing synonym in the DROP SYNONYM statement.

**ORA-01435 user does not exist**

**Cause** This message is caused by any reference to a non-existent user. For example, it occurs if a SELECT, GRANT, or REVOKE statement specifies a username that does not exist. Only a GRANT CONNECT statement may specify a new username. All other GRANT and REVOKE statements must specify existing usernames. If specified in a SELECT statement, usernames must already exist.

**Action** Specify only existing usernames in the SELECT, GRANT, or REVOKE statement or ask the database administrator to define the new username.

**ORA-01436 CONNECT BY loop in user data**

**Cause** The condition specified in a CONNECT BY clause caused a loop in the query, where the next record to be selected is a descendent of itself. When this happens, there can be no end to the query.

**Action** Check the CONNECT BY clause and remove the circular reference.

**ORA-01437 cannot have join with CONNECT BY**

**Cause** A join operation was specified with a CONNECT BY clause. If a CONNECT BY clause is used in a SELECT statement for a tree-structured query, only one table may be referenced in the query.

**Action** Remove either the CONNECT BY clause or the join operation from the SQL statement.

**ORA-01438 value larger than specified precision allows for this column**

**Cause** When inserting or updating records, a numeric value was entered that exceeded the precision defined for the column.

**Action** Enter a value that complies with the numeric column's precision, or use the MODIFY option with the ALTER TABLE command to expand the precision.

**ORA-01439 column to be modified must be empty to change datatype**

**Cause** An ALTER TABLE MODIFY statement attempted to change the datatype of a column containing data. A column whose datatype is to be altered must contain only NULL values.

**Action** To alter the datatype, first set all values in the column to NULL.

**ORA-01440 column to be modified must be empty to decrease precision or scale**

**Cause** An ALTER TABLE MODIFY statement attempted to decrease the scale or precision of a numeric column containing data. In order to decrease either of these values, the column must contain only NULL values. An attempt to increase the scale without also increasing the precision will also cause this message.

**Action** Set all values in the column to NULL before decreasing the numeric precision or scale. If attempting to increase the scale, increase the precision in accordance with the scale or set all values in the column to NULL first.

**ORA-01441 column to be modified must be empty to decrease column length**

**Cause** An ALTER TABLE MODIFY statement attempted to decrease the size of a character field containing data. A column whose maximum size is to be decreased must contain only NULL values.

**Action** Set all values in column to NULL before decreasing the maximum size.

**ORA-01442 column to be modified to NOT NULL is already NOT NULL**

**Cause** An ALTER TABLE MODIFY statement attempted to change a column specification unnecessarily, from NOT NULL to NOT NULL.

**Action** No action required.

**ORA-01443 internal inconsistency; illegal datatype in resultant view column**

**Cause** An internal error occurred in referencing a view.

**Action** Contact customer support.

**ORA-01444 internal inconsistency; internal datatype maps to invalid external type**

**Cause** This is an internal error message not normally issued.

**Action** Contact customer support.

- ORA-01445 cannot select ROWID from a join view without a key-preserved table**
- Cause** A SELECT statement attempted to select ROWIDs from a view derived from a join operation. Because the rows selected in the view do not correspond to underlying physical records, no ROWIDs can be returned.
- Action** Remove ROWID from the view selection clause, then re-execute the statement.
- ORA-01446 cannot select ROWID from view with DISTINCT, GROUP BY, etc.**
- Cause** A SELECT statement attempted to select ROWIDs from a view containing columns derived from functions or expressions. Because the rows selected in the view do not correspond to underlying physical records, no ROWIDs can be returned.
- Action** Remove ROWID from the view selection clause, then re-execute the statement.
- ORA-01447 ALTER TABLE does not operate on clustered columns**
- Cause** An ALTER TABLE MODIFY statement specified a column used to cluster the table. Clustered columns may not be altered.
- Action** To alter the column, first recreate the table in non-clustered form. The column's size can be increased at the same time.
- ORA-01448 index must be dropped before changing to desired type**
- Cause** An ALTER TABLE MODIFY statement attempted to change an indexed character column to a LONG column. Columns with the datatype LONG may not be indexed, so the index must be dropped before the modification.
- Action** Drop all indexes referencing the column before changing its datatype to LONG.
- ORA-01449 column contains NULL values; cannot alter to NOT NULL**
- Cause** An ALTER TABLE MODIFY statement attempted to change the definition of a column containing NULL values to NOT NULL. The column may not currently contain any NULL values if it is to be altered to NOT NULL.
- Action** Set all NULL values in the column to values other than NULL before ALTERING the column to NOT NULL.

**ORA-01450     maximum key length exceeded**

**Cause**     The combined length of all the columns specified in a CREATE INDEX statement exceeded the maximum index length. The maximum index length varies by operating system. The total index length is computed as the sum of the width of all indexed columns plus the number of indexed columns. Date fields have a length of 7, character fields have their defined length, and numeric fields have a length of 22. Numeric length = (precision/2) + 1. If negative, add +1.

**Action**     Select columns to be indexed so the total index length does not exceed the maximum index length for the operating system. See also your operating system-specific Oracle documentation.

**ORA-01451     column to be modified to NULL cannot be modified to NULL**

**Cause**     The column may already allow NULL values, the NOT NULL constraint is part of a primary key or check constraint, or an ALTER TABLE MODIFY statement attempted to change a column specification unnecessarily, from NULL to NULL.

**Action**     If a primary key or check constraint is enforcing the NOT NULL constraint, then drop that constraint.

**ORA-01452     cannot CREATE UNIQUE INDEX; duplicate keys found**

**Cause**     A CREATE UNIQUE INDEX statement specified one or more columns that currently contain duplicate values. All values in the indexed columns must be unique by row to create a UNIQUE INDEX.

**Action**     If the entries need not be unique, remove the keyword UNIQUE from the CREATE INDEX statement, then re-execute the statement. If the entries must be unique, as in a primary key, then remove duplicate values before creating the UNIQUE index.

**ORA-01453     SET TRANSACTION must be first statement of transaction**

**Cause**     A transaction was not processed properly because the SET TRANSACTION statement was not the first statement.

**Action**     Commit or roll back the current transaction before using the statement SET TRANSACTION.

**ORA-01454 cannot convert column into numeric datatype**

**Cause** A non-numeric value could not be converted into a number value.

**Action** Check the value to make sure it contains only numbers, a sign, a decimal point, and the character “E” or “e”, then retry the operation.

**ORA-01455 converting column overflows integer datatype**

**Cause** The converted form of the specified expression was too large for the specified datatype.

**Action** Define a larger datatype or correct the data.

**ORA-01456 may not perform insert/delete/update operation inside a READ ONLY transaction**

**Cause** A non-DDL INSERT/DELETE/UPDATE or SELECT FOR UPDATE operation was attempted.

**Action** Commit or roll back the current transaction, then retry the operation.

**ORA-01457 converting column overflows decimal datatype**

**Cause** The converted form of the specified expression was too large for the specified type. The problem also occurs in COBOL programs when using COMP-3 in the picture clause, which is acceptable to the Pro\*COBOL Precompiler and to COBOL but results in this error.

**Action** Define a larger datatype or correct the data.

**ORA-01458 invalid length inside variable character string**

**Cause** An attempt was made to bind or define a variable character string with a buffer length less than the two-byte minimum requirement.

**Action** Increase the buffer size or use a different type.

**ORA-01459 invalid length for variable character string**

**Cause** The buffer length was less than the minimum required (two bytes) or greater than its length at bind time minus two bytes.

**Action** None. Buffer length is set correctly by Oracle at fetch time.

**ORA-01460      unimplemented or unreasonable conversion requested**

**Cause**      The requested format conversion is not supported.

**Action**      Remove the requested conversion from the SQL statement. Check the syntax for the TO\_CHAR, TO\_DATE, and TO\_NUMBER functions to see which conversions are supported.

**ORA-01461      can bind a LONG value only for insert into a LONG column**

**Cause**      An attempt was made to insert a value from a LONG datatype into another datatype. This is not allowed.

**Action**      Do not try to insert LONG datatypes into other types of columns.

**ORA-01462      cannot insert string literals longer than 2000 characters**

**Cause**      The longest literal supported by Oracle consists of 2000 characters.

**Action**      Reduce the number of characters in the literal to 2000 characters or fewer or use the VARCHAR2 or LONG datatype to insert strings exceeding 2000 characters.

**ORA-01463      cannot modify column datatype with current constraints**

**Cause**      An attempt was made to modify the datatype of a column that has referential constraints or that has check constraints that only allow changing the datatype from CHAR to VARCHAR or vice versa.

**Action**      Remove the constraint(s) or do not perform the offending operation.

**ORA-01464      circular grant (granting to grant ancestor) of table or view**

**Cause**      The user in the TO clause of the GRANT statement has already been GRANTED privileges on this table.

**Action**      Do not GRANT privileges on a table to the user who originally GRANTED privileges on that table. The statement in error is probably unnecessary.

**ORA-01465      invalid hex number**

**Cause**      In an UPDATE statement following a SELECT FOR UPDATE, part of the ROWID contains invalid characters. ROWID must be expressed in the proper and expected format for ROWID and within quotes.

**Action**      Enter the ROWID just as it was returned in the SELECT FOR UPDATE.

**ORA-01466     unable to read data -- object definition has changed**

**Cause** This is a time-based read consistency error for a database object, such as a table or index. Either of the following may have happened:

- The query was parsed and executed with a snapshot older than the time the object was changed.
- The creation time-stamp of the object is greater than the current system time. This happens, for example, when the system time is set to a time earlier than the creation time of the object.

**Action** If the cause is

- an old snapshot, then commit or rollback the transaction and resume work.
- a creation time-stamp in the future, ensure the system time is set correctly.

If the object creation time-stamp is still greater than the system time, then export the object's data, drop the object, recreate the object so it has a new creation time-stamp, import the object's data, and resume work.

**ORA-01467     sort key too long**

**Cause** A DISTINCT, GROUP BY, ORDER BY, or SET operation requires a sort key longer than that supported by Oracle. Either too many columns or too many group functions were specified in the SELECT statement.

**Action** Reduce the number of columns or group functions involved in the operation.

**ORA-01468     a predicate may reference only one outer-joined table**

**Cause** A predicate in the WHERE clause has two columns from different tables with "(+)".

**Action** Change the WHERE clause so that each predicate has a maximum of one outer-join table.

**ORA-01469     PRIOR can only be followed by a column name**

**Cause** An invalid column name was specified after the PRIOR keyword.

**Action** Check syntax, spelling, use a valid column name, and try again.



**ORA–01471 cannot create a synonym with the same name as object**

**Cause** An attempt was made to create a private synonym with the same name as the object to which it refers. This error typically occurs when a user attempts to create a private synonym with the same name as one of their objects.

**Action** Choose a different synonym name or create the synonym under a different username.

**ORA–01472 cannot use CONNECT BY on view with DISTINCT, GROUP BY, etc.**

**Cause** CONNECT BY cannot be used on a view where there is not a correspondence between output rows and rows of the underlying table.

**Action** Remove the DISTINCT or GROUP BY from the view or move the CONNECT BY clause into the view.

**ORA–01473 cannot have subqueries in CONNECT BY clause**

**Cause** Subqueries cannot be used in a CONNECT BY clause.

**Action** Remove the subquery or move it to the WHERE clause.

**ORA–01474 cannot have START WITH or PRIOR without CONNECT BY**

**Cause** START WITH and PRIOR are meaningful only in connection with CONNECT BY.

**Action** Check the syntax for the SQL statement and add a CONNECT BY clause, if necessary.

**ORA–01475 must reparse cursor to change bind variable datatype**

**Cause** After executing a statement, an attempt was made to rebind a bind variable with a datatype different from that of the original bind.

**Action** Reparse the cursor before rebinding with a different datatype.

**ORA–01476 divisor is equal to zero**

**Cause** An expression attempted to divide by zero.

**Action** Correct the expression, then retry the operation.

**ORA–01477 user data area descriptor is too large**

**Cause** This is an internal error message not normally issued.

**Action** Contact customer support.

**ORA-01478     array bind may not include any LONG columns**

**Cause**     An attempt was made to use array bind on a column whose maximum size is greater than 2000 bytes. This is not permitted.

**Action**     Do not use array bind for a LONG column. Use an ordinary bind instead.

**ORA-01479     last character in the buffer is not Null**

**Cause**     A bind variable of type 97 does not contain NULL at the last position.

**Action**     Make the last character a NULL.

**ORA-01480     trailing null missing from STR bind value**

**Cause**     A bind variable specified as type SQLT\_STR is not terminated with an ASCII NULL (0) character.

**Action**     Check maximum lengths and contents of string bind variables.

**ORA-01481     invalid number format model**

**Cause**     An invalid format parameter was used with the TO\_CHAR or TO\_NUMBER function.

**Action**     Correct the syntax, then retry the operation.

**ORA-01482     unsupported character set**

**Cause**     The second or third parameter to the CONVERT function is not a supported character set.

**Action**     Use one of the supported character sets.

**ORA-01483     invalid length for DATE or NUMBER bind variable**

**Cause**     A bind variable of type DATE or NUMBER is too long.

**Action**     Check your Oracle7 operating system-specific documentation for the maximum allowable length.

**ORA-01484     arrays can only be bound to PL/SQL statements**

**Cause**     You tried to bind an array to a non-PL/SQL statement.

**Action**     Rewrite the offending code being careful to bind arrays only to PL/SQL statements.

**ORA-01485      compile bind length different from execute bind length**

**Cause**      You bound a buffer of type DTYVCS (VARCHAR with the two byte length in front) and at execute time the length in the first two bytes is more than the maximum buffer length, given in the bind call. The number of elements in the array and the current number of elements in the array cannot be more than the maximum size of the array.

**Action**      Ensure that the buffer size is sufficiently large to contain the array plus two bytes for the buffer length.

**ORA-01486      size of array element is too large**

**Cause**      An attempt was made to bind a data value that was either too large for the datatype, for example, NUMBER, or was greater than 2000 bytes, for example, VARCHAR or LONG.

**Action**      Find a way to convert or truncate the data value so that its length is acceptable.

**ORA-01487      packed decimal number too large for supplied buffer**

**Cause**      A conversion request cannot be performed because the buffer is too small to hold the result.

**Action**      Increase the size of the buffer.

**ORA-01488      invalid nibble or byte in the input data**

**Cause**      A conversion request cannot be performed because a digit was invalid.

**Action**      Fix the number and retry.

**ORA-01489      result of string concatenation is too long**

**Cause**      The result of a string concatenation was larger than the maximum length of a string (2000 characters).

**Action**      Reduce the size of one or both of the strings to be concatenated. Make certain the total length of the concatenation result is less than 2000 characters.

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**01490–01499: Miscellaneous, ANALYZE, SQL Parsing, Execution**

This section lists miscellaneous messages generated by secondary processes called by the current process, such as the ANALYZE command, the SQL parser, and during the execution of Oracle commands.

**ORA-01490    invalid ANALYZE command**

**Cause**    The syntax of the ANALYZE command was incorrect.

**Action**    Check the syntax and enter the command using the correct syntax.

**ORA-01491    CASCADE option not valid**

**Cause**    The CASCADE option should be used only for tables or clusters.

**Action**    Do not use the CASCADE option in this manner. Check the syntax of the statement and then retry.

**ORA-01492    LIST option not valid**

**Cause**    The LIST option can be used only for tables or clusters.

**Action**    Do not use the LIST option in this manner. Check the syntax of the statement and then retry.

**ORA-01493    invalid SAMPLE size specified**

**Cause**    The specified SAMPLE size is out of range

**Action**    Specify a value within the proper range.

**ORA-01494    invalid SIZE specified**

**Cause**    The specified histogram SIZE value was out of range.

**Action**    Specify a value within the proper range.

For more information about histograms, see *Oracle7 Server Tuning*.

**ORA-01495    specified chain row table not found**

**Cause**    The specified table does not exist, or the user does not have the proper privileges to access it.

**Action**    Specify an existing table or obtain the privileges to access the desired table.

**ORA–01496      specified chain row table form incorrect**

**Cause**      The specified table does not have the proper field definitions.

**Action**      Check the spelling of the table name and specify the correct table to use.

**ORA–01497      illegal option for ANALYZE CLUSTER**

**Cause**      The FOR COLUMNS <column list> clause cannot be used with ANALYZE CLUSTER.

**Action**      Retry with a legal syntax.

For more information about ANALYZE CLUSTER, see the index entry on “ANALYZE CLUSTER” in *Oracle7 Server SQL Reference*.

**ORA–01498      block Check Failure – see trace file**

**Cause**      An error occurred while checking a block with the ANALYZE command.

**Action**      Check the trace file for more descriptive messages about the problem. Correct these errors. The name of the trace file is operating system–specific, for example, ORAxxxx.TRC. It is found in the directory specified by the initialization parameter USER\_DUMP\_DEST. If USER\_DUMP\_DEST is not set, trace files are not created. It may be necessary to recreate the object. See also your operating system–specific Oracle documentation.

**ORA–01499      table/Index Cross Reference Failure – see trace file**

**Cause**      An error occurred when validating an index or a table using the ANALYZE command. One or more entries does not point to the appropriate cross–reference.

**Action**      Check the trace file for more descriptive messages about the problem. Correct these errors. The name of the trace file is operating system–specific, for example, ORAxxxx.TRC. It is found in the directory specified by the initialization parameter USER\_DUMP\_DEST. If USER\_DUMP\_DEST is not set, trace files are not created. It may be necessary to recreate the object. See also your operating system–specific Oracle documentation.

## 01500–01699: Oracle Commands

This section lists messages generated when entering Oracle commands.

### ORA-01500    **failure in getting date/time**

**Cause** In executing a CREATE DATABASE or ALTER TABLESPACE statement, there was a failure in getting the date and time.

**Action** Contact customer support.

### ORA-01501    **CREATE DATABASE failed**

**Cause** An error occurred while executing the CREATE DATABASE statement.

**Action** Refer to the diagnostic information in the accompanying message stack.

### ORA-01502    **index *str.name* is in direct load state**

**Cause** The specified index was marked invalid by a direct load.

**Action** Drop the specified index.

### ORA-01503    **CREATE CONTROLFILE failed**

**Cause** An error occurred during CREATE CONTROLFILE.

**Action** See accompanying messages.

### ORA-01504    **database name *name* does not match parameter DB\_NAME *str***

**Cause** The name in a CREATE DATABASE or START UP command does not match the name given in the initialization parameter DB\_NAME.

**Action** Determine which name is correct, then resubmit the command after correcting the name in the appropriate place.

### ORA-01505    **error in adding log files**

**Cause** In executing a CREATE DATABASE or ALTER DATABASE statement, an error occurred when adding new redo log files. The user issuing the command must CONNECT INTERNAL. The database must be mounted but closed in order to add redo log files.

**Action** Check the accompanying message stack for detailed information and ensure that the session is connected as INTERNAL with the database mounted but closed.

**ORA-01506      missing or illegal database name**

**Cause**      No database name was specified in the ALTER DATABASE statement, nor was the initialization parameter DB\_NAME specified.

**Action**      The database name must be given either in the ALTER DATABASE statement or as the value for the initialization parameter DB\_NAME. Note that the SQL\*DBA command START UP issues an ALTER DATABASE statement using the database name, if any, specified as part of START UP.

**ORA-01507      database not mounted**

**Cause**      An ALTER DATABASE statement specified the name of a database to alter, but no database is currently mounted.

**Action**      If issuing an ALTER DATABASE command via the SQL\*DBA START UP command, specify the MOUNT option. If directly issuing an ALTER DATABASE DISMOUNT command, do nothing. Otherwise, reissue the ALTER DATABASE command specifying the MOUNT option.

**ORA-01508      cannot create database; error in file *name* at line *num***

**Cause**      A CREATE DATABASE statement was unable to process the named file because an error occurred at the given line number.

**Action**      Check the offending line in the specified file, correct the error, then re-execute the CREATE DATABASE statement. If the error is in an Oracle-supplied file, contact customer support.

**ORA-01509      specified name *name* does not match actual *name***

**Cause**      The database name specified in an ALTER DATABASE statement does not match the name of the currently mounted database.

**Action**      Correct the database name spelling or DISMOUNT the mounted database.

**ORA-01510      error in deleting log files**

**Cause**      In executing an ALTER DATABASE statement, an error occurred while dropping redo log files.

**Action**      Check the accompanying message stack for detailed information.

**ORA-01511      error in renaming log/datafiles**

**Cause**      In executing an ALTER DATABASE statement, an error occurred while renaming log or datafiles.

**Action**      Check the accompanying message stack for detailed information.

- ORA-01512     error renaming log file *name* – new file *name* not found**
- Cause**     An attempt to change a redo log file's name in the control file failed because no file was found with the new name.
- Action**     Check that the redo log file has been properly renamed by the operating system and retry.
- 
- ORA-01513     invalid current time returned by operating system**
- Cause**     The operating system returned a time that was not between the years 1988 and 2121.
- Action**     Correct the time kept by the operating system.
- 
- ORA-01514     error in log specification; no such log**
- Cause**     A redo log filename or list of member names did not correspond to an existing redo log file.
- Action**     Specify the name of an existing redo log file, check the spelling and capitalization of the names, and then re-execute the statement.
- 
- ORA-01515     error dropping log group *num*: no such log**
- Cause**     An attempt was made to drop a redo log file that does not exist.
- Action**     Specify the name of an existing redo log file, then issue the statement again.
- 
- ORA-01516     nonexistent log/datafile *name***
- Cause**     An ALTER DATABASE statement is attempting to rename a log file or a datafile that is not known to the database control file.
- Action**     Specify the name of an existing redo log file, then re-execute the statement.
- 
- ORA-01517     log member: *str***
- Cause**     This message indicates the filename involved with other messages.
- Action**     See the accompanying messages and take appropriate action.
- 
- ORA-01518     CREATE DATABASE must specify more than one log file**
- Cause**     Only one redo log file was specified in the CREATE DATABASE statement.
- Action**     Specify at least two redo log files, then re-execute the statement.



**ORA-01519     error while processing file *name* near line *num***

**Cause**     A CREATE DATABASE statement encountered a problem while processing the named file, probably because of a system installation error.

**Action**     Try the system installation procedure again or contact customer support. See also your operating system-specific Oracle documentation.

**ORA-01520     number of datafiles to add *num* exceeds limit of *num***

**Cause**     A CREATE TABLESPACE statement specifies more files than are permitted for this database.

**Action**     Use fewer files. To exceed the limit, recreate the database with a larger value of MAXDATAFILES.

**ORA-01521     error in adding datafiles**

**Cause**     During a CREATE or ALTER TABLESPACE, an error was detected while adding datafiles.

**Action**     Check the accompanying message stack for detailed information.

**ORA-01522     file *name* to be renamed does not exist**

**Cause**     During an ALTER TABLESPACE RENAME, a file to be renamed was not found in the database control file.

**Action**     Specify the correct filename, then re-execute the statement.

**ORA-01523     cannot rename datafile to *name* – file already part of database**

**Cause**     During an ALTER DATABASE RENAME or ALTER TABLESPACE RENAME, the new name of a file is already present in the control file.

**Action**     Rename the file to a name not already in use as part of the database.

**ORA-01524     cannot create datafile as *name* – file already part of database**

**Cause**     During an ALTER DATABASE CREATE DATAFILE, the new name of a file is already present in the control file.

**Action**     Use a name that is not already in use in the database.

**ORA-01525     error in renaming datafiles**

**Cause** An error occurred when renaming files as part of ALTER TABLESPACE.

**Action** Check the accompanying message stack for detailed information. All files were renamed except those mentioned in the message stack.

**ORA-01526     error in opening file *name***

**Cause** A CREATE DATABASE was not able to open the file identified in the message. This is probably due to a system installation error.

**Action** Try the system installation procedure again or contact customer support. See also your operating system-specific Oracle documentation.

**ORA-01527     error while reading file**

**Cause** A CREATE DATABASE statement was not able to read the specified file, probably because of a system installation error.

**Action** Try the system installation procedure again or contact customer support. See also your operating system-specific Oracle documentation.

**ORA-01528     EOF while processing SQL statement**

**Cause** A CREATE DATABASE statement unexpectedly encountered an end-of-file marker while reading the specified file, probably because of a system installation error.

**Action** Try the system installation procedure again or contact customer support. See also your operating system-specific Oracle documentation.

**ORA-01529     error closing file *name***

**Cause** A CREATE DATABASE was not able to close the file identified in the message.

**Action** Try the system installation procedure again or contact customer support. See also your operating system-specific Oracle documentation.

**ORA-01530     a database already mounted by the instance**

**Cause** During an ALTER DATABASE MOUNT, an attempt was made to mount a database by an instance for which there is already a mounted database.

**Action** To mount the database, shut down the instance, then start up the instance and try the operation again.

**ORA-01531     a database already open by the instance**

**Cause**     During an ALTER DATABASE, an attempt was made to open a database by an instance for which there was already an open database.

**Action**     To open a new database, shut down the instance, then start up the instance and try the operation again.

**ORA-01532     cannot create database; instance being started elsewhere**

**Cause**     During a CREATE DATABASE, another user appears to be simultaneously starting the instance.

**Action**     Retry the operation. If the error recurs, contact customer support.

**ORA-01533     cannot rename file *name*; file does not belong to tablespace**

**Cause**     During an ALTER TABLESPACE RENAME, a file to be renamed was not found in the named tablespace.

**Action**     Check syntax and spelling and correctly specify the filename and tablespace name.

**ORA-01534     rollback segment *name* doesn't exist**

**Cause**     During an ALTER or DROP ROLLBACK SEGMENT, the specified rollback segment name was not found.

**Action**     Correct syntax and spelling and correctly specify the rollback segment name or specify a different rollback segment.

**ORA-01535     rollback segment *name* already exists**

**Cause**     During a CREATE ROLLBACK SEGMENT, the specified rollback segment was found to exist already.

**Action**     Correct syntax and spelling and correctly specify the rollback segment name or specify a different rollback segment.

**ORA-01536     space quota exceeded for tablespace “*name*”**

**Cause**     The space quota in the tablespace is already used up and the operation attempted the creation of a new extent in the tablespace.

**Action**     Either

- Drop unnecessary objects in the tablespace to reclaim space.
- Ask the database administrator to increase the tablespace quota.

**ORA-01537 cannot add datafile *name* – file already part of database**

**Cause** During a CREATE or ALTER TABLESPACE, a file being added is already part of the database.

**Action** Correct spelling of the datafile name or use a different file.

**ORA-01538 failed to acquire any rollback segment**

**Cause** An instance failed to acquire the SYSTEM rollback segment, or an instance failed to acquire one rollback segment in addition to the SYSTEM rollback segment during start up in parallel mode.

**Action** Check that the SYSTEM rollback segment is available. Before starting an instance in parallel mode, either create one more public rollback segment or specify an available private rollback segment in the initialization parameter ROLLBACK\_SEGMENTS.

**ORA-01539 tablespace “*name*” is not online**

**Cause** An attempt was made to bring a tablespace off line normally, but it is not online.

**Action** Check the status of the tablespace. Use IMMEDIATE or TEMPORARY options to force all files off line. Also, the database must be in ARCHIVELOG mode.

**ORA-01540 tablespace “*name*” is not offline**

**Cause** A tablespace could not be brought online or made read-only because it is not offline.

**Action** Check the status of the tablespace, then retry the operation. You can also use the options IMMEDIATE or TEMPORARY to force all files offline. If your intention is to make the file read-only, bring the tablespace online first.

**ORA-01541 system tablespace cannot be brought offline; shut down if necessary**

**Cause** An attempt was made to bring tablespace SYSTEM offline.

**Action** Do not attempt to take the tablespace SYSTEM offline because it must always be online. Shut down if necessary to do a recovery.

**ORA-01542 tablespace “*name*” is offline, cannot allocate space in it**

**Cause** An attempt was made to allocate space in an offline tablespace.

**Action** Bring the tablespace online or create the object in another tablespace.

**ORA-01543    tablespace “*name*” already exists**

**Cause**    An attempt was made to create a tablespace that already exists.

When Trusted Oracle7 is configured in DBMS MAC mode, it is possible to get this error if you attempt to create a tablespace using a name that was previously used by another tablespace. In DBMS MAC mode, it is not possible to reuse tablespace names, even if the old tablespace has been dropped.

**Action**    Use a different name for the new tablespace.

**ORA-01544    cannot drop system rollback segment**

**Cause**    An attempt was made to drop the rollback segment SYSTEM.

**Action**    No action required.

**ORA-01545    rollback segment “*name*” specified not available**

**Cause**    Either:

Case 1:    An attempt was made to bring a rollback segment online that is unavailable during startup. For example, the rollback segment is in an offline tablespace.

Case 2:    An attempt was made to bring a rollback segment online that is already online. This is because the rollback segment is specified twice in the ROLLBACK\_SEGMENTS parameter in the initialization parameter file, or the rollback segment is already online by another instance.

Case 3:    An attempt was made to drop a rollback segment that is currently online.

Case 4:    An attempt was made to drop a rollback segment that is currently online to use unlimited extents.

**Action** Either:

If Case 1: Make the rollback segment available; for example, bring an offline tablespace online.

If Case 2: Remove the name from the ROLLBACK\_SEGMENTS parameter if the name is a duplicate or if another instance has already acquired the rollback segment.

If Case 3: Bring the rollback segment offline, which may require waiting for the current transaction to finish, or, if the rollback segment needs recovery, discover which errors are holding up the rolling back of the transactions and take appropriate actions.

If Case 4: Same as for Case 3.

For more information about ALTER ROLLBACK SEGMENT, see the index entry on “ALTER ROLLBACK SEGMENT” in *Oracle7 Server SQL Reference*.

**ORA-01546      tablespace contains active rollback segment “*name*”**

**Cause** You tried to bring offline or make read-only a tablespace that contains active rollback segments.

**Action** Shut down the instances that use the active rollback segments in the tablespace. Then bring it offline or make it read-only.

**ORA-01548      active rollback segment “*name*” found, terminate dropping tablespace**

**Cause** An attempt was made to drop a tablespace that contains active rollback segments.

**Action** Shut down instances that use the active rollback segments in the tablespace and then drop the tablespace.

**ORA-01549      tablespace not empty, use INCLUDING CONTENTS option**

**Cause** An attempt was made to drop a non-empty tablespace.

**Action** To drop all the objects in the tablespace, use the INCLUDING CONTENTS option with DROP TABLESPACE.

**ORA-01550      cannot drop system tablespace**

**Cause** An attempt was made to drop the tablespace SYSTEM.

**Action** No action required.

- ORA-01551      extended rollback segment, pinned blocks released**
- Cause**      This is an internal error message not normally issued.
- Action**      Contact customer support.
- 
- ORA-01552      cannot use system rollback segment for non-system tablespace “*name*”**
- Cause**      An attempt was made to use the SYSTEM rollback segment for operations involving a non-system tablespace.
- Action**      Create one or more rollback segments and then use ALTER ROLLBACK SEGMENT ‘name’ online. It may be necessary to modify the initialization parameter ROLLBACK\_SEGMENTS to acquire one of the new private rollback segments. Before creating a rollback segment outside the SYSTEM tablespace, it is necessary to first create and activate a non-system rollback segment in the SYSTEM tablespace.
- 
- ORA-01553      MAXEXTENTS must be no smaller than the *num* extents currently allocated**
- Cause**      The number of extents allocated is greater than the MAXEXTENTS specified.
- Action**      Specify a larger MAXEXTENTS value.
- 
- ORA-01554      out of transaction slots in transaction tables**
- Cause**      There were too many concurrent transactions.
- Action**      Shut down Oracle, modify initialization parameters TRANSACTIONS and ROLLBACK\_SEGMENTS, then restart Oracle. The TRANSACTIONS parameter must be high enough to handle any possible rollbacks.
- 
- ORA-01555      snapshot too old (rollback segment too small)**
- Cause**      One of the following:
- **Insufficient Rollback Segments:** A long running query may not be able to reconstruct the snapshot of the blocks it is reading because the rollback data is not available. This can happen when the database has many transactions that are changing data, then committing or rolling back. The rollback data can be overwritten if the rollback segments are too small for the number and size of the changes being made.
  - **Trusted Oracle – Too Few Checkpoints:** When Trusted Oracle7 is configured in OS MAC mode, it is possible to get this error if the interval

between checkpoints in a secondary database is too small, causing necessary rollback records to be overwritten.

- **Precompiler – Insufficient Rollback Segments:** A long running query may not be able to reconstruct the snapshot of the blocks it is reading because the rollback data is not available. This can happen if your program does not CLOSE a cursor after repeated FETCH or UPDATE statements. Alternatively, if a FETCH is executed after a COMMIT, the number of rollback records created since the last CLOSE of the current cursor will fill the available rollback segments and begin to overwrite earlier records.

**Action** For the above causes:

- **Insufficient Rollback Segments;** Make a larger number of bigger rollback segments available. This will allow the rollback data for completed transactions to be kept longer.
- **Trusted Oracle – Too Few Checkpoints:** For Trusted Oracle7 users, if the cause of this error is that the necessary rollback records in an OS MAC secondary database were overwritten, decrease the value of the LOG\_CHECKPOINT\_TIMEOUT initialization parameter so that checkpoints are taken more frequently.
- **Precompiler – Insufficient Rollback Segments:** If you are not using the *fetch across commit* feature, ensure that you have CLOSED cursors appropriately. Otherwise, you must increase the number and the size of rollback segments. You can estimate the size of the rollback data that your program will produce with the V\$ROLLSTAT view, which contains the number of bytes written for each rollback segment. Set the current transaction to a rollback segment in a single user mode and query V\$ROLLSTAT before and after the transaction. The difference in V\$ROLLSTAT gives the number of rollback data bytes written for the transaction. Estimate the total number of transactions done in the loop and, after considering other concurrent transactions, create rollback segments accordingly.

**Note:** *Fetch across commit* is not supported by the ANSI standard. According to the ANSI standard, a cursor is invalidated when a commit is performed and should be closed and reopened. With Oracle you can *fetch across commit*. However, you should be aware that you may get this error.

#### ORA-01556 MINEXTENTS for rollback segment must be greater than 1

**Cause** A MINEXTENTS of less than two was specified for rollback segment.

**Action** Specify a larger MINEXTENTS.



**ORA-01557      rollback segment extents must be at least *num* blocks**

**Cause**      An extent of less than *num* blocks was specified for the rollback segment.

**Action**      Specify extents of at least *num* blocks, then retry the operation.

For more information about rollback segments and the ROLLBACK\_SEGMENTS parameter, see the index entries on “rollback segments” and “ROLLBACK\_SEGMENTS parameter” in *Oracle7 Server SQL Reference*.

**ORA-01558      out of transaction ID's in rollback segment *num***

**Cause**      All the available transaction IDs have been used.

**Action**      Shut down the instance, restart it using another rollback segment, then drop the rollback segment that has no more transaction IDs.

**ORA-01559      MAXEXTENTS for rollback segment must be greater than 1**

**Cause**      An invalid value for MAXEXTENTS was specified; the value must be greater than 1.

**Action**      Specify a MAXEXTENTS value of at least 2 and try again.

**ORA-01560      global hash table size mismatch for GC\_name (*num* != *num*)**

**Cause**      This message is only relevant for systems running the Parallel Server and occurs at instance start up. The value of the GC\_name initialization parameter does not match that of an instance already mounted.

**Action**      Ensure correct initialization parameter files are being used. If necessary, modify the GC\_name parameter in the offending initialization files, then shut down and restart those instances with corrected initialization parameter files.

**ORA-01561      failed to remove all objects in the tablespace specified**

**Cause**      A user failed to remove all objects when dropping a tablespace.

**Action**      Repeat DROP TABLESPACE until all objects have been dropped.

**ORA-01562      failed to extend rollback segment ID = *num***

**Cause** A failure occurred while trying to extend the rollback segment. The problem is usually lack of space in the database to extend the rollback segment.

**Action** This is usually followed by another message stating the cause of the failure. Shut down and take appropriate action for the error that caused the failure. If no other messages follow this message, the cause is probably lack of space in the database.

**ORA-01563      rollback segment is PUBLIC, need to use the keyword PUBLIC**

**Cause** The keyword PUBLIC was not used to identify a public rollback segment.

**Action** Use the keyword PUBLIC when identifying a public rollback segment.

**ORA-01564      rollback segment is not PUBLIC**

**Cause** The identified rollback segment is not public.

**Action** Do not use the keyword PUBLIC when identifying a private rollback segment.

**ORA-01565      error in identifying file *name***

**Cause** An error occurred while trying to identify a file.

**Action** Check the accompanying message stack for detailed information.

**ORA-01566      file specified more than once in DROP LOGFILE**

**Cause** For an ALTER DATABASE, the list of files for the DROP LOGFILE option contains at least one duplicate.

**Action** Remove the duplicate file specification, then re-execute the statement.

**ORA-01567      dropping log *name* would leave less than two log files in thread *num***

**Cause** Dropping all the files specified would leave fewer than the required two redo log files. It may be possible to clear the log rather than drop it.

**Action** Either drop fewer logs or disable the thread before deleting the logs.

**ORA-01568      cannot set space quota on PUBLIC**

**Cause** An attempt was made to set a space quota for PUBLIC on a tablespace.

**Action** To grant system-wide or tablespace-wide space privileges to all users, use the statement

```
GRANT UNLIMITED TABLESPACE [ON tablespace] TO PUBLIC;
```

**ORA–01569     datafile too small for system dictionary tables**

**Cause**     The datafile specified during creation of the database is too small to hold the system dictionary tables.

**Action**     Re-create the database specifying a larger file or more files.

**ORA–01570     MINEXTENTS must be no larger than the *num* extents currently allocated**

**Cause**     The number of extents already allocated is smaller than the MINEXTENTS specified in the command.

**Action**     Enter the command again specifying the number of extents given in the message as the value for MINEXTENTS.

**ORA–01571     redo version *num* incompatible with Oracle Version *num***

**Cause**     This software version cannot read the current redo logs. Either crash recovery is required or there are offline database files that need media recovery. If a filename is listed then it needs media recovery.

**Action**     Shut down and start up using the compatible software. Do any required media recovery and open the database. Shut down and then start up using current software. If the file is going to be dropped, then take it offline with the DROP option to skip this check.

**ORA–01572     global hash table size *num* for rollback segments is too small for rollback segment ID *num***

**Cause**     An operation requested a resource that was unavailable. On a Parallel Server system, the maximum number of systemwide rollback segments is specified by the GC\_ROLLBACK\_SEGMENTS parameter. When this maximum is reached, no more requests are processed.

**Action**     Use fewer rollback segments or increase the initialization parameter GC\_ROLLBACK\_SEGMENTS to a number greater than rollback segment ID *num* in every initialization parameter file of the Parallel Server. This change will not take effect until Oracle is shut down and restarted.

**ORA–01573     shutting down instance, no further change allowed**

**Cause**     A process attempted to make changes while the database was being shut down.

**Action**     No action required.

**ORA-01574     maximum number of concurrent transactions exceeded**

**Cause** An operation requested a resource that was unavailable. The maximum number of concurrent transactions is specified by the TRANSACTIONS initialization parameter. When this maximum is reached, no more requests are processed.

**Action** Try the request again later or increase the TRANSACTIONS parameter in the initialization parameter file. This change will not take effect until Oracle is shut down and restarted.

**ORA-01575     time-out waiting for space management resource**

**Cause** The system timed out before it could acquire the necessary resources to do space management.

**Action** Wait a few minutes, then retry the operation.

**ORA-01576     instance locking protocol version *num* incompatible with Oracle Version *num***

**Cause** The version of Oracle is incompatible with the given locking protocol version.

**Action** Upgrade the version of Oracle used to start up instances so that they use a compatible locking protocol.

**ORA-01577     cannot add log file *name* – file already part of database**

**Cause** While executing a CREATE or ALTER DATABASE statement, a file being added was found to already exist on the database.

**Action** Check syntax and spelling, specify a valid filename, and try again.

**ORA-01578     Oracle data block corrupted (file # *num*, block # *num*)**

**Cause** The given data block was corrupted, probably due to program errors.

**Action** Try to restore the segment containing the given data block. This may involve dropping the segment and recreating it. If there is a trace file, report the messages recorded in it to customer support.

**ORA-01579     write error occurred during recovery**

**Cause** A write error occurred during media recovery.

**Action** Check the trace file for the type of the write error, then take appropriate action.

**ORA-01580      error creating control backup file *name***

**Cause**      An operating system error occurred while attempting to create the referenced control file for backup.

**Action**      Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01581      attempt to use rollback segment *name* new extent *name* which is being allocated**

**Cause**      Undo generated to extend a rollback segment run out of current undo block space and is attempting to write into the new extent, which has not been completely allocated.

**Action**      The rollback segment extending itself will be rolled back by the system. No more extension will be possible until the next extent is freed up by the rolling back or committing of other transactions.

**ORA-01582      unable to open control file for backup**

**Cause**      An operating system error occurred while attempting to open a control file for backup.

**Action**      Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01583      unable to get block size of control file to be backed up**

**Cause**      An operating system error occurred while attempting to get the block size of a control file for backup.

**Action**      Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01584      unable to get file size of control file to be backed up**

**Cause**      An operating system error occurred while attempting to get the file size of a control file for backup.

**Action**      Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01585     error identifying backup file *name***

**Cause** An operating system error occurred when attempting to identify the referenced control file for backup.

**Action** Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01586     unable to open destination file *name* for backup**

**Cause** An operating system error occurred while attempting to open a control file for backup.

**Action** Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01587     error during control file backup file copy**

**Cause** An operating system error occurred while attempting to copy a control file for backup.

**Action** Check the accompanying message stack for detailed information, then take appropriate action.

**ORA-01588     must use RESETLOGS option for database open**

**Cause** An earlier attempt to open the database with the RESETLOGS option did not complete, or recovery was done with a control file backup.

**Action** Retry the operation making sure to specify the RESETLOGS option.

**ORA-01589     must use RESETLOGS or NORESETLOGS option for database open**

**Cause** Either cancel-based or time-based recovery has been performed. After these types of recovery, it is necessary to specify either the RESETLOGS or NORESETLOGS option to open the database.

**Action** Specify the appropriate option.

**ORA-01590     number of segment free list *num* exceeds maximum of *num***

**Cause** The value of the storage clause FREELIST GROUPS is greater than the maximum allowed for the block size.

**Action** Specify a number for FREELIST GROUPS less than or equal to the maximum when creating the table or index. The block size specified in the initialization parameter DB\_BLOCK\_SIZE cannot be changed after the database is created.

**ORA-01591      lock held by in-doubt distributed transaction *num***

**Cause**      An attempt was made to access a resource locked by a dead two-phase commit transaction that is in prepared state.

**Action**      Match the transaction number in the message with the GLOBAL\_TRAN\_ID column of the DBA\_2PC\_PENDING table to determine the database link and the state of the transaction. Attempt to repair network connections to the coordinator and commit point, if necessary. If timely repair is not possible, contact the database administrator at the commit point, if known, to resolve the pending transaction.

**ORA-01592      error converting Version 6 rollback segment “*num*” to Oracle7 format**

**Cause**      Oracle encountered an error while converting a Version 6 rollback segment into the format used by Oracle7.

**Action**      Investigate the accompanying internal error message. The Version 6 database may not have shut down cleanly. It may be necessary to reload the Version 6 database from backup and shut it down, ensuring it shuts down cleanly.

**ORA-01593      rollback segment optimal size *num* blocks is smaller than the computed initial size *num* blocks**

**Cause**      The specified OPTIMAL size is smaller than the cumulative size of the initial extents during create rollback segment.

**Action**      Specify a larger OPTIMAL size.

**ORA-01594      attempt to wrap into rollback segment *name* extent *num* which is being freed**

**Cause**      Undo generated to free a rollback segment extent is attempting to write into the same extent due to small extents or too many extents to free.

**Action**      Increase the optimal size of the rollback segment. The rollback segment shrinking will be rolled back by the system.

**ORA-01595      error freeing extent *num* of rollback segment *name***

**Cause**      An error occurred while freeing inactive rollback segment extents.

**Action**      Check the trace file and check for prior messages.

**ORA-01596      cannot specify system in *name* parameter**

**Cause**      The system rollback segment is specified in the INIT.ORA parameter referred to in the error message.

**Action**      Change the INIT.ORA parameter.

**ORA-01597     cannot alter system rollback segment online or offline**

**Cause** An attempt was made to online or offline the SYSTEM rollback segment.

**Action** No action required.

**ORA-01598     rollback segment “*name*” is not online**

**Cause** The rollback segment was taken offline either manually or by SMON.

**Action** Check the status of the rollback segment in DBA\_ROLLBACK\_SEGS.

**ORA-01599     failed to acquire rollback segment “*name*”, cache space is full (currently has *num* entries)**

**Cause** The amount of allocated space is not enough.

**Action** Take the rollback segment offline.

**ORA-01600     at most one *str* in clause *str* of GC\_FILES\_TO\_LOCKS**

**Cause** The initialization parameter GC\_FILES\_TO\_LOCKS was not specified properly.

**Action** Refer to the proper specifications of the GC\_FILES\_TO\_LOCKS parameter and specify it correctly in the initialization parameter file. If other instances are currently accessing the database, use the value that they are using.

**ORA-01601     illegal bucket size in clause *str* of GC\_FILES\_TO\_LOCKS**

**Cause** The number of locks specified in a clause of the initialization parameter GC\_FILES\_TO\_LOCKS is not a positive integer.

**Action** Refer to the proper specifications of the GC\_FILES\_TO\_LOCKS parameter and specify it correctly in the initialization parameter file. If other instances are currently accessing the database, use the value that they are using.

**ORA-01602     more locks in GC\_FILES\_TO\_LOCKS than reserved in GC\_DB\_LOCKS**

**Cause** The total number of PCM locks specified to all database files in the initialization parameter GC\_FILES\_TO\_LOCKS is greater than the number specified in GC\_DB\_BLOCKS.

**Action** Correct the value of either the GC\_FILES\_TO\_LOCKS parameter or the GC\_DB\_BLOCKS parameter before starting the instance. If other instances are currently accessing the database, use the values that they are using.



**ORA-01603    illegal grouping in clause *str* of GC\_FILES\_TO\_LOCKS**

**Cause** The initialization parameter GC\_FILES\_TO\_LOCKS is specified incorrectly; if a clause specifies more than one range of file numbers, each range must be separated with commas.

**Action** Correct the value of the GC\_FILES\_TO\_LOCKS parameter before starting the instance. If other instances are currently accessing the database, use the value they are using. Use the following syntax:

```
GC_FILES_TO_LOCKS = "{filenum[-filenum]
                    [,filenum[-filenum]]...= num_of_locks[EACH]}[:]..."
```

where *filenum* is a file number, as listed in V\$DBFILE, and *num\_of\_locks* is the number of PCM locks.

**ORA-01604    illegal file number range in clause *str* of GC\_FILES\_TO\_LOCKS**

**Cause** The range of file numbers specified in a clause of the initialization parameter GC\_FILES\_TO\_LOCKS is invalid. The first file number must be smaller than the second file number, and a hyphen must separate the numbers. All numbers in the range must be valid file numbers.

**Action** Correct the value of the GC\_FILES\_TO\_LOCKS parameter before starting the instance. If other instances are currently accessing the database, use the value that they are using.

**ORA-01605    missing file numbers in clause *str* of GC\_FILES\_TO\_LOCKS**

**Cause** The initialization parameter GC\_FILES\_TO\_LOCKS is specified incorrectly. Each clause should have one or more file numbers or ranges of file numbers, as listen in V\$DBFILE, separated by commas. Use the following syntax:

```
GC_FILES_TO_LOCKS = "{filenum[-filenum]
                    [,filenum[-filenum]]...= num_of_locks[EACH]}[:]..."
```

Spaces are not allowed within the double quotation marks.

**Action** Correct the value of the GC\_FILES\_TO\_LOCKS parameter before starting the instance. If other instances are currently accessing the database, use the value that they are using.

**ORA-01606    GC\_FILES\_TO\_LOCKS not identical to that of another mounted instance**

**Cause** The initialization parameter GC\_FILES\_TO\_LOCKS is not the same as another instance mounted in parallel mode. This parameter must be the same as that for all shared instances.

**Action** Modify the parameter to be compatible with the other instances, then shut down and restart the instance.

- ORA-01607**    **GC\_LCK\_PROCS *num* is not the same as other instances *num***
- Cause**    The initialization parameter GC\_LCK\_PROCS is not the same in other instances that have the database open.
- Action**    Modify the parameter to be compatible with the other instances, then shut down and restart the instance.
- 
- ORA-01608**    **cannot bring rollback segment “*name*” online, its status is *status***
- Cause**    The rollback segment may have been brought online previously by the database administrator or could have been left online after a process crashed. The above status can be one of the following: INVALID, IN USE, AVAILABLE, OFFLINE, NEEDS RECOVERY.
- Action**    Check the status of the rollback segment in the view DBA\_ROLLBACK\_SEGS. Take the segment offline, if necessary.
- 
- ORA-01609**    **log *name* is the current log for thread *num* – cannot drop members**
- Cause**    A member of the current redo log for the given thread cannot be dropped.
- Action**    If the thread is opened, request a log switch by the instance that is using the thread. If the thread is not open, disable the thread manually, archive the log or clear it.
- 
- ORA-01610**    **recovery using the BACKUP CONTROLFILE option must be done**
- Cause**    Either an earlier database recovery session specified BACKUP CONTROLFILE or the control file was recreated with the RESETLOGS option. Only BACKUP CONTROLFILE recovery is allowed, and it must be followed by resetting the online redo log files when the database is next opened.
- Action**    Perform recovery using the BACKUP CONTROLFILE option.
- 
- ORA-01611**    **thread number *num* is invalid – must be between 1 and *num***
- Cause**    A thread number in a command is greater than the number of threads supported by the control file.
- Action**    Use a thread number that is valid.
- 
- ORA-01612**    **thread *num* is already enabled**
- Cause**    An attempt was made to enable a thread that is already enabled.
- Action**    No action is required or enable another thread, if desired.

**ORA-01613    thread *num* only has *num* logs – at least 2 logs required to enable**

**Cause**    The thread cannot be enabled because it has less than two online redo log files associated with it.

**Action**    Add logs to the thread or pick another thread to enable.

**ORA-01614    thread *num* is busy – cannot enable**

**Cause**    The mount enqueue for the thread could not be acquired when attempting to enable the thread. This probably means that another process has already started enabling this thread.

**Action**    Wait and try again or find another thread to enable.

**ORA-01615    thread *num* is mounted – cannot disable**

**Cause**    Some instance, possibly this one, has allocated the thread for use. The thread may not be disabled while in use.

**Action**    To disable this thread, cleanly shut down the instance using it.

**ORA-01616    thread *num* is open – cannot disable**

**Cause**    The thread is not closed. The last instance to use the thread crashed and left the thread open. A thread cannot be disabled until it is closed. The thread is still needed for crash or instance recovery.

**Action**    If the database is open, instance recovery should close the thread soon. Wait a few minutes until instance recovery frees the thread. Otherwise, open the database. Crash recovery will close the thread.

**ORA-01617    cannot mount: *num* is not a valid thread number**

**Cause**    The initialization parameter THREAD is not between 1 and the maximum number of threads allowed when the database was created.

**Action**    Shut down the instance, change the initialization parameter to a valid value, then restart the instance.

**ORA-01618    thread *num* is not enabled – cannot mount**

**Cause**    The initialization parameter THREAD requests a thread that is not enabled. A thread must be enabled before it can be mounted.

**Action**    Shut down the instance, change the initialization parameter to an enabled thread number, then restart the instance. If the database is open in another instance, then the thread may be enabled.

**ORA-01619 thread *num* is mounted by another instance**

- Cause** The initialization parameter THREAD requests a thread that has been mounted by another instance. Only one instance may use each thread.
- Action** Shut down the instance, change the initialization parameter to an unused thread, then restart the instance.

**ORA-01620 no public threads are available for mounting**

- Cause** The initialization parameter THREAD is zero, its default value. There are no available threads that have been publicly enabled.
- Action** Shut down the instance, change the initialization parameter to a thread that is privately enabled and not mounted, then restart the instance. If the database is open in another instance, then a thread may be publicly enabled.

**ORA-01621 cannot rename member of current log if database is open**

- Cause** This is a rename command for a member of the current log for an open thread. If the database is open anywhere, the log may be in use, so the rename cannot be done.
- Action** Wait until the log is not current or mount the database exclusively.

**ORA-01622 thread number must be specified – default not specific**

- Cause** The thread was not specified when adding a log, and the currently mounted thread was chosen by default. Because the current thread was not specified explicitly, the user cannot know to which thread the log will be added.
- Action** Explicitly specify the thread number either in the initialization parameter THREAD or in the ADD LOGFILE command.

**ORA-01623 log *num* is current log for thread *num* – cannot drop**

- Cause** A thread's current log cannot be dropped, even if the thread is closed. A disabled thread usually does not have a current log, but a half completed disable may need to be disabled again.
- Action** If the database is not open, disable the thread. If the database is open and an instance has the thread open, then switch logs in the instance with the thread open.

**ORA-01624    log *name* needed for crash recovery of thread *num* – cannot drop**

**Cause**    A log cannot be dropped or cleared until the thread's checkpoint has advanced out of the log.

**Action**    If the database is not open, then open it. Crash recovery will advance the checkpoint. If the database is open, force a global checkpoint. If the log is corrupted so that the database cannot be opened, it may be necessary to do an incomplete recovery until this log is cancelled.

**ORA-01625    rollback segment *name* does not belong to this instance**

**Cause**    An attempt was made to take a rollback segment offline that does not belong to this instance.

**Action**    Take only those rollback segments offline that belong to the current instance. To take the rollback segment offline, connect to the instance containing it.

**ORA-01626    rollback segment number *num* cannot handle more transactions**

**Cause**    There are too many transactions in this segment.

**Action**    Choose a different rollback segment or reduce the number of concurrent transactions.

**ORA-01627    rollback segment number *num* is not online**

**Cause**    This rollback may have been taken offline by the database administrator or cleaned up by SMON.

**Action**    Check the status of the rollback segment in DBA\_ROLLBACK\_SEGMENTS to make sure the rollback segment is actually online.

**ORA-01628    max # of extents *num* reached for rollback segment *num***

**Cause**    An attempt was made to extend a rollback segment that already has reached its maximum size or space could not be allocated in the data dictionary to contain the definition of the object.

**Action**    If possible, increase the value of either the MAXEXTENTS or PCTINCREASE initialization parameters or find the data dictionary table lacking space and alter the storage parameters, as described in the *Oracle7 Server Administrator's Guide*.

- ORA-01629**    **max # of extents *num* reached saving undo for tablespace *name***
- Cause**    The maximum amount of space allowed for saving undo entries has been reached for an offline tablespace.
- Action**    Check the storage parameters for the SYSTEM tablespace. The tablespace named needs to be brought online so that the undo information can be applied.
- 
- ORA-01630**    **max # of extents *num* reached in temp segment in tablespace *name***
- Cause**    The maximum amount of space allowed for saving undo entries has been reached for a temporary segment in the named tablespace, or space could not be allocated in the data dictionary to contain the definition of the object.
- Action**    If possible, increase the value of either the MAXEXTENTS or PCTINCREASE initialization parameters or find the data dictionary table lacking space and alter the storage parameters as described in the *Oracle7 Server Administrator's Guide*.
- 
- ORA-01631**    **max # of extents *num* reached in table *name***
- Cause**    The maximum amount of space allowed for saving undo entries has been reached for the named table.
- Action**    If possible, increase the value of either the MAXEXTENTS or PCTINCREASE initialization parameters.
- 
- ORA-01632**    **max # of extents *num* reached in index *name***
- Cause**    The maximum amount of space allowed for saving undo entries has been reached for the named index.
- Action**    If possible, increase the value of either the MAXEXTENTS or PCTINCREASE initialization parameters.
- 
- ORA-01633**    **Parallel Server option needed for this operation**
- Cause**    The system is not configured to use the Parallel Server option, so the feature is not available.
- Action**    Contact Oracle Corporation to obtain the Parallel Server option.
- 
- ORA-01634**    **rollback segment number *str* is about to go offline**
- Cause**    The rollback segment specified was marked to go offline by the DBA.
- Action**    Bring the rollback segment online before continuing, or choose another rollback segment. If using SET TRANSACTION, use ROLLBACK SEGMENT '*name*'.

**ORA-01635      rollback segment #*num* specified not available****Cause**      Either

- You tried to acquire an offline rollback segment during start up.
- You tried to drop a rollback segment that contains active transactions.

**Action**      For the above, either:

- Bring the tablespace containing the rollback segment online or do not specify the rollback segment in the initialization parameter file.
- If the rollback segment is in use, shut down the instance using the rollback segment. Otherwise, if the rollback segment needs recovery, find out the errors that are holding back the rolling back of the transactions and take appropriate actions.

**ORA-01636      rollback segment “*name*” is already online****Cause**      A rollback segment can only be used by one instance and an instance is trying to bring a rollback segment online that is already in use.**Action**      Check that the values set in the initialization parameter file for parameters `ROLLBACK_SEGMENTS`, `ROLLBACK_SEGMENT_INITIAL`, and `ROLLBACK_SEGMENT_COUNT` are correctly set for the instance with the problem. Also check that the instance is using the correct initialization parameter file. Make sure you are not confused about the difference between private and public rollback segments. See the *Oracle7 Server Administrator's Guide* for more information about using rollback segments in parallel mode.**ORA-01637      rollback segment “*name*” is being used by another instance #*name*****Cause**      A rollback segment can only be used by one instance, and an instance is trying to access a rollback segment online that is already in use.**Action**      Check that the values set in the initialization parameter file for parameters `ROLLBACK_SEGMENTS`, `ROLLBACK_SEGMENT_INITIAL`, and `ROLLBACK_SEGMENT_COUNT` are correctly set for the instance with the problem. Also check that the instance is using the correct initialization parameter file. Make sure you are not confused about the difference between private and public rollback segments. See *Oracle7 Parallel Server Concepts & Administration* for more information about using rollback segments in parallel mode.

**ORA-01638      parameter *name* does not allow Oracle Version *num* to mount parallel**

**Cause** The recovery compatible initialization parameter is set too low to allow this software version to do a parallel mount.

**Action** Either use an earlier software release or advance the RECOVERY\_COMPATIBLE parameter. If this happens when no RECOVERY\_COMPATIBLE parameter has been specified, then set it to the current software release.

**ORA-01639      database cannot be mounted parallel with no lock processes**

**Cause** The value of GC\_LCK\_PROCS is 0, and the database is being mounted in parallel mode.

**Action** Change GC\_LCK\_PROCS to a value between 1 and 10 or leave it undefined to use the default.

**ORA-01640      cannot make tablespace read-only with active transactions**

**Cause** An attempt to make a tablespace read-only encountered active transactions in the database. All transactions must be committed or rolled back to ensure consistency. This includes any transactions that are in doubt.

**Action** Put the database in restricted mode to prevent any new transactions from being started and commit and/or rollback all active transactions, resolving all in-doubt transactions.

**ORA-01641      tablespace *name* is not online – cannot add datafile**

**Cause** An attempt was made to add a datafile to a tablespace that was set to read only or offline.

**Action** Make the tablespace online, read-write, and add the datafile.  
For more information about ALTER TABLESPACE, see the index entry on “ALTER TABLESPACE” in *Oracle7 Server SQL Reference*.

**ORA-01642      begin backup not needed for read-only tablespace *name***

**Cause** An attempt was made to use the BEGIN BACKUP or END BACKUP statement for a tablespace that has been made read-only.

**Action** Start the backup without using the BEGIN BACKUP or END BACKUP statement. Read-only files cannot be modified and therefore will be consistent.



**ORA-01643      system tablespace cannot be made read-only**

**Cause**      An attempt was made to make the system tablespace read-only. The system tablespace must be read-write for database operations.

**Action**      Do not attempt this operation.

**ORA-01644      tablespace *name* is already read-only**

**Cause**      An attempt was made to make read-only a tablespace that is already read-only.

**Action**      This operation is unnecessary.

**ORA-01645      previous attempt to make read-write is half complete**

**Cause**      A failure while making a tablespace read-write occurred leaving the tablespace read-only, however the checkpoint was advanced. The tablespace will not be usable after a RESETLOGS if it's files are offline.

**Action**      Attempt to make the tablespace read-write again.

**ORA-01646      tablespace *name* is not read-only – cannot make read-write**

**Cause**      An attempt was made to make read-write a tablespace that is already read-write.

**Action**      This operation is unnecessary.

**ORA-01647      tablespace “*name*” is read-only, cannot allocate space in it**

**Cause**      An attempt was made to allocate space in a read-only tablespace, which is not possible.

**Action**      Create the object in a read-write tablespace.

**ORA-01648      log *name* is the current log of disabled thread *name***

**Cause**      An attempt to enable the thread failed after it was half completed. This log was left as the current log even though the thread is still disabled. Because a log switch cannot be done until the thread is enabled, the log cannot be cleared or archived.

**Action**      Complete the thread enable by issuing the enable command again.

**ORA-01649     operation not allowed with a backup control file**

**Cause** An attempt was made to perform a command that does not make sense when the control file is a restored backup.

**Action** Wait until after the database has been opened and try again.

**ORA-01650     unable to extend rollback segment *name* by *num* in tablespace *name***

**Cause** Failed to allocate extent for the rollback segment in tablespace.

**Action** Use the ALTER TABLESPACE ADD DATAFILE statement to add one or more files to the specified tablespace.

**ORA-01651     unable to extend save undo segment by *num* in tablespace *name***

**Cause** Failed to allocate extent for saving undo entries for the specified offline tablespace.

**Action** Check the storage parameters for the system tablespace. The tablespace must be brought back online so the undo can be applied.

**ORA-01652     unable to extend temp segment by *num* in tablespace *name***

**Cause** Failed to allocate extent for temp segment in tablespace.

**Action** Use the ALTER TABLESPACE ADD DATAFILE statement to add one or more files to the specified tablespace or create the object in another tablespace.

**ORA-01653     unable to extend table *name.name* by *num* in tablespace *name***

**Cause** Failed to allocate extent for table segment in tablespace.

**Action** Use the ALTER TABLESPACE ADD DATAFILE statement to add one or more files to the specified tablespace.

**ORA-01654     unable to extend index *name.name* by *num* for tablespace *name***

**Cause** Failed to allocate extent for index segment in tablespace.

**Action** Use the ALTER TABLESPACE ADD DATAFILE statement to add one or more files to the specified tablespace.

**ORA-01655     unable to extend cluster *name.name* by *num* for tablespace *name***

**Cause** Failed to allocate extent for cluster segment in tablespace.

**Action** Use the ALTER TABLESPACE ADD DATAFILE statement to add one or more files to the specified tablespace.

- ORA-01656**    **max *num* extents *num* reached in cluster *name.name***
- Cause**    A cluster tried to extend past the value specified for MAXEXTENTS.
- Action**    If MAXEXTENTS is less than the system maximum, specify a higher value. Otherwise, you must recreate with larger INITIAL, NEXT, or PCTINCREASE parameters.
- 
- ORA-01658**    **unable to create INITIAL extent for segment in tablespace *name***
- Cause**    Failed to find sufficient contiguous space to allocate INITIAL extent for segment being created.
- Action**    Use ALTER TABLESPACE ADD DATAFILE to add additional space to the tablespace or retry with a smaller value for INITIAL.
- 
- ORA-01659**    **unable to allocate MINEXTENTS beyond *size* in tablespace *name***
- Cause**    Failed to find sufficient contiguous space to allocate MINEXTENTS for the segment being created.
- Action**    Use ALTER TABLESPACE ADD DATAFILE to add additional space to the tablespace or retry with smaller value for MINEXTENTS, NEXT, or PCTINCREASE.
- 
- ORA-01660**    **tablespace *name* is already permanent**
- Cause**    An attempt was made to make a tablespace permanent that was already permanent.
- Action**    Leave tablespace permanent.
- For more information about ALTER TABLESPACE, see the index entry on “ALTER TABLESPACE” in *Oracle7 Server SQL Reference*.
- 
- ORA-01661**    **tablespace *name* is already temporary**
- Cause**    An attempt was made to make a tablespace temporary that was already temporary.
- Action**    Leave tablespace permanent.
- For more information about ALTER TABLESPACE, see the index entry on “ALTER TABLESPACE” in *Oracle7 Server SQL Reference*.

**ORA-01662    tablespace *name* is non-empty and cannot be made temporary**

**Cause** An attempt was made to convert a non-empty tablespace to a temporary tablespace.

**Action** Drop all the objects in the tablespace.

For more information about ALTER TABLESPACE and DROP TABLESPACE, see the index entries on “ALTER TABLESPACE” and on “DROP TABLESPACE” in *Oracle7 Server SQL Reference*.

**ORA-01663    the contents of tablespace *name* is constantly changing**

**Cause** The contents of the tablespace always changed between PERMANENT and TEMPORARY.

**Action** Decide what the tablespace contents should be and stay with it.

For more information about ALTER TABLESPACE, see the index entry on “ALTER TABLESPACE” in *Oracle7 Server SQL Reference*.

**ORA-01664    transaction which has expanded the Sort Segment has aborted**

**Cause** Internal Error.

**Action** Contact Oracle Support.

**ORA-01665    controlfile is not a standby controlfile**

**Cause** An attempt was made to mount, recover, or activate a standby database without a standby controlfile.

**Action** Create a standby controlfile before attempting to use the database as a standby database.

For more information about control files and the manipulation of control files, see the index entry on “control files” in *Oracle7 Server Concepts* and the index entry on “control files, in CREATE DATABASE” in *Oracle7 Server SQL Reference*.

**ORA-01666    controlfile is for a standby database**

**Cause** An attempt was made to mount, recover, or open a standby database without the appropriate command option to designate a standby database.

**Action** Use the standby option or appropriate commands, or mount with the primary controlfile.

For more information about control files and the manipulation of control files, see the index entry on “control files” in *Oracle7 Server Concepts* and the index entry on “control files, in CREATE DATABASE” in *Oracle7 Server SQL Reference*.

**ORA-01667     redo log is incompatible with standby database**

**Cause** Recovery of a standby database encountered redo in primary database that did not support the standby database option.

**Action** Change the compatible initialization parameter for the primary database to be 7.3.0 or greater, open the primary database, and rebuild the standby database.

For more information about parameter files and database startles, see the index entry on “parameter files” in *Oracle7 Server Concepts*.

**ORA-01668     standby database requires DROP option for offline of datafile**

**Cause** An attempt was made to take a datafile offline in a standby database without specifying the DROP option. Files that were offline in a standby database were not recovered, and were likely to be unusable if the standby was activated. Note that specifying DROP does not prevent bringing the file online later.

**Action** Specify the DROP option or leave the file online.

For more information about the DROP clause or other DROP commands, see the index entry on “DROP” in *Oracle7 Server SQL Reference*.

**ORA-01669     standby database control file not consistent**

**Cause** An attempt was made to activate a standby database with a control file that was not recovered to the same point as the datafiles. Most likely the control file was just copied in primary database and was not used for recovery.

**Action** Recover the standby database until all the files are consistent.

For more information about database recovery, see the index entry on “recovery, database, overview of” in *Oracle7 Server Concepts*.

**ORA-01670     new datafile *name* needed for standby database recovery**

**Cause** Standby database recovery noticed that a file was added to the primary database but was not available on the standby.

**Action** Either copy the file in primary database or do an ALTER DATABASE CREATE DATAFILE command on the standby to create a file to recover.

For more information about ALTER DATABASE CREATE DATAFILE, see the index entries on “ALTER DATABASE” and on “CREATE DATAFILE clause, of ALTER DATABASE command” in *Oracle7 Server SQL Reference*.

**ORA-01671      controlfile is a backup, cannot make a standby controlfile**

**Cause** The currently mounted control file was a backup control file and attempted to create a control file for a standby database.

**Action** Complete any needed recovery and open the database with the RESETLOGS option.

For more information about the RESETLOGS option, see the index entry on “RESETLOGS option, of ALTER DATABASE command” and on “RESETLOGS option, of CREATE CONTROLFILE command” in *Oracle7 Server SQL Reference*.

**ORA-01672      controlfile may be missing files or have extra ones**

**Cause** An attempt was made to create a standby control file, but the controlfile was either recently created by using CREATE CONTROLFILE or an incomplete recovery was done. Therefore, the datafiles in the controlfile and the ones in the data dictionary may not match.

**Action** Open the database and retry the operation.

For more information about CREATE CONTROLFILE, see the index entry on “CONTROLFILE” in *Oracle7 Server SQL Reference*.

**ORA-01673      datafile *name* has not been identified**

**Cause** The datafile was not in the control file after an incomplete recovery or CREATE CONTROLFILE. Since information from its header was needed for standby database recovery, a standby controlfile cannot be created.

**Action** Find the file and bring it online. If desired, it may be taken offline again. If you intend to drop this file, then taking it offline with the DROP option will avoid this error.

For more information about CREATE CONTROLFILE and DROP, see the index entries on “CREATE CONTROLFILE” and on “DROP” in *Oracle7 Server SQL Reference*.

**ORA–01674     datafile *name* is an old incarnation rather than current file**

**Cause** Recovery encountered redo that indicates this file was dropped in database, and another file was added using the same file number. This implies that a CREATE CONTROLFILE command was given the old file which was dropped rather than the latest file.

**Action** Rebuild the controlfile using CREATE CONTROLFILE, and give the correct file.

For more information about CREATE CONTROLFILE and DROP, see the index entries on “CREATE CONTROLFILE” and on “DROP” in *Oracle7 Server SQL Reference*.

**ORA–01675     attempting a secondary mount of a standby database**

**Cause** An attempt was made to mount a standby database as a secondary.

**Action** The standby database is already mounted. Do a dismount first before attempting to mount the standby database.

For more information about dismounting and mounting, see the index entries on “database, dismounting” and on “database, mounting” in *Oracle7 Server Concepts* and on “mounting, databases” in *Oracle7 Server SQL Reference*.

**ORA–01676     standby file name convert of *num* exceeds maximum length of *num***

**Cause** When the given file name was converted to the name used for the standby database, the converted name was bigger than the maximum allowed file name.

**Action** Change the initialization parameter DB\_FILE\_STANDBY\_NAME\_CONVERT or LOG\_FILE\_STANDBY\_NAME\_CONVERT to convert to a valid file name.

For more information about the DB\_FILES and LOG\_FILES initialization parameters, see the index entries on “DB\_FILES” and on “LOG\_FILES” in *Oracle7 Server SQL Reference*.

**ORA–01677     standby file name convert parameters differ from other instance**

**Cause** The DB\_FILE\_STANDBY\_NAME\_CONVERT or LOG\_FILE\_STANDBY\_NAME\_CONVERT initialization parameters were not the same as in other instances that already have the database mounted.

**Action** Change initialization parameters DB\_FILE\_STANDBY\_NAME\_CONVERT and LOG\_FILE\_STANDBY\_NAME\_CONVERT to match other instances.

For more information about the DB\_FILES and LOG\_FILES initialization parameters, see the index entries on “DB\_FILES” and on “LOG\_FILES” in *Oracle7 Server SQL Reference*.

- ORA-01678**     **parameter *name* must be two strings, a pattern and a replacement**
- Cause**     The specialized initialization parameter did not have 2 strings for its value. The first string is a pattern to be found in file names. The second string is used to replace the pattern when found in file names.
- Action**    Specify two strings for the parameter, or omit the parameter.
- 
- ORA-01679**     **database must be mounted EXCLUSIVE and not open to activate**
- Cause**     An attempt to activate a standby database was made when the database was not mounted EXCLUSIVE or was already open.
- Action**    Mount the database EXCLUSIVE and retry the ACTIVATE command.
- For more information about the EXCLUSIVE option, see the index entry on “EXCLUSIVE option” in *Oracle7 Server SQL Reference*.
- 
- ORA-01680**     **gc\_db\_locks cannot be zero if gc\_files\_to\_locks is used**
- Cause**     Setting gc\_db\_locks to zero makes data blocks in all files releasable, so specifying gc\_files\_to\_locks is redundant.
- Action**    Remove either gc\_db\_locks or gc\_files\_to\_locks.
- For more information about the GC\_DB\_LOCKS parameter and the GC\_FILES\_TO\_LOCKS parameter, see the index entries on “GC\_DB\_LOCKS parameter” and “GC\_FILES\_TO\_LOCKS parameter” in *Oracle7 Server SQL Reference*.



**01700–01799: SQL Parsing**

This section lists messages generated when SQL statements are parsed by the Oracle Server. Most, but not all, messages in this section indicate incorrect SQL syntax. For more information about SQL syntax, refer to *Oracle7 Server SQL Reference*.

**ORA-01700      duplicate username in list**

**Cause**      A username was listed twice in a GRANT or REVOKE statement. Usernames must be unique and may only be specified once in a GRANT or REVOKE statement.

**Action**      Remove the duplicate username and retry the statement.

**ORA-01701      a cluster is not appropriate here**

**Cause**      The name of a cluster was specified in a statement in which clusters are not permitted.

**Action**      Enter a valid CLUSTER statement or change the cluster name to the name of a valid object for the statement, such as table, view, index, or synonym.

**ORA-01702      a view is not appropriate here**

**Cause**      The name of a view was specified in a statement in which views are not permitted.

**Action**      Enter the name of a valid object for the statement, such as table, cluster, synonym, or index.

**ORA-01703      missing SYNONYM keyword**

**Cause**      The keyword SYNONYM is required in this context.

**Action**      Check the statement syntax and insert the keyword SYNONYM.

**ORA-01704      string literal too long**

**Cause**      A quoted string specified as a constant was too long.

**Action**      Quoted strings may not contain more than 2000 characters.

**ORA-01705     an outer join cannot be specified on a correlation column**

**Cause** A correlation column, that is, a column in a subquery from a table referenced in the outer query's FROM clause, was followed by an outer-join indicator (+). This is not allowed.

**Action** Revise the query. Refer to the syntax for subqueries. The outer-join indicator may follow only columns in the same query block in which their table is included in the FROM clause.

**ORA-01706     user function result value was too large**

**Cause** The user-written SQL function has generated a result that is larger than the maximum defined in the function table.

**Action** Change the maximum in the function table or correct the user-written function.

**ORA-01707     missing LIST keyword**

**Cause** The keyword LIST is required in this context, for example, when using the ARCHIVE LOG statement to display the set of redo log files.

**Action** Check the statement syntax, insert the keyword LIST where required, and retry the statement.

**ORA-01708     ACCESS or SESSION expected**

**Cause** An AUDIT or NOAUDIT statement contained the keyword BY followed by something other than ACCESS or SESSION.

**Action** Check the statement syntax and make sure to follow the keyword BY with ACCESS or SESSION.

**ORA-01709     program does not exist**

**Cause** This feature is not currently implemented.

**Action** No user action is required.

**ORA-01710     missing OF keyword**

**Cause** The keyword OF was not specified in a SELECT FOR UPDATE statement.

**Action** Check and correct the statement syntax. To specify SELECT FOR UPDATE, add the following clause to the end of the SELECT statement:

FOR UPDATE OF *column-list*

**ORA-01711 duplicate privilege listed**

**Cause** A privilege was listed twice in a GRANT or REVOKE statement. A privilege may be specified only once in these statements.

**Action** Remove the duplicate privilege from the list and retry the statement.

**ORA-01712 cannot grant a privilege grantor does not have**

**Cause** The grantor could not grant a privilege to another user because the grantor does not have the privilege. A grantor can grant only privileges that the grantor has or is authorized to grant.

**Action** Either

- Specify only authorized privileges in the GRANT statement.
- Ask the database administrator to grant the user the required privileges.
- Ask the database administrator for the required privileges and then grant the other user the privileges.

**ORA-01713 GRANT OPTION does not exist for that privilege**

**Cause** A GRANT statement specified a privilege that the granting user has but is not authorized to grant to other users. When the user was granted the privilege, the user was not given the GRANT OPTION needed to grant those privileges to others.

**Action** Change the GRANT statement to specify only authorized privileges or ask the user who granted the privileges to grant the GRANT OPTION also.

**ORA-01714 error in execution of user function**

**Cause** The user-written SQL function indicated that an error occurred during its execution. The meaning of the message is function-dependent.

**Action** Ensure proper usage of the function or correct the function.

**ORA-01715 UNIQUE may not be used with a cluster index**

**Cause** An attempt was made to create a cluster index with the UNIQUE attribute. This is not permitted.

**Action** Remove the keyword UNIQUE from the CREATE INDEX statement and retry the statement.

- ORA-01716    NOSORT may not be used with a cluster index**
- Cause** An attempt was made to create a cluster index using the NOSORT option. This is not permitted.
- Action** Check the statement syntax, remove the keyword NOSORT from the CREATE INDEX statement, and retry the statement.
- 
- ORA-01717    seccta invalid access mode token passed**
- Cause** This is an internal error message not normally issued.
- Action** Contact customer support.
- 
- ORA-01718    BY ACCESS | SESSION clause not allowed for NOAUDIT**
- Cause** A BY ACCESS or BY SESSION clause was used in a NOAUDIT statement. BY ACCESS and BY SESSION are valid clauses in AUDIT statements, but are not permitted in NOAUDIT statements.
- Action** Remove the BY ACCESS or BY SESSION clause from the NOAUDIT statement.
- 
- ORA-01719    outer join operator (+) not allowed in operand of OR or IN**
- Cause** An outer join appears in an OR clause.
- Action** If A and B are predicates, to get the effect of (A(+) OR B), try using the following:
- ```
(SELECT WHERE (A+ AND NOT B)) UNION ALL (SELECT WHERE (B));
```
- 
- ORA-01720    grant option does not exist for *str***
- Cause** A grant was being performed on a view, and the grant option was not present for an underlying object.
- Action** Obtain the grant option on all underlying objects of the view.
- 
- ORA-01721    USERENV (COMMITSCN) invoked more than once in a transaction**
- Cause** The USERENV function can be used only once in a transaction.
- Action** Rewrite the transaction to use USERENV (COMMITSCN) only once.

**ORA-01722    invalid number**

**Cause**    The attempted conversion of a character string to a number failed because the character string was not a valid numeric literal. Only numeric fields or character fields containing numeric data may be used in arithmetic functions or expressions. Only numeric fields may be added to or subtracted from dates.

**Action**    Check the character strings in the function or expression. Check that they contain only numbers, a sign, a decimal point, and the character “E” or “e” and retry the operation.

**ORA-01723    zero-length columns are not allowed**

**Cause**    During CREATE TABLE, a zero-length column was specified, for example, CHAR(0).

**Action**    Correct the column declaration so that the length is at least 1 and try the operation again.

**ORA-01724    floating point precision is out of range 1 to 126**

**Cause**    Floating point precision is too small or large.

**Action**    Correct and retry.

**ORA-01725    USERENV (COMMITSCN) not allowed here**

**Cause**    The function USERENV (COMMITSCN) is allowed only as a top-level expression in the VALUES clause of an INSERT statement and on the right side of an assignment in an UPDATE statement.

**Action**    Correct the use of this function.

**ORA-01726    a table is not appropriate here**

**Cause**    A table name was used in a statement in which tables are not permitted.

**Action**    Enter a valid table statement or use the current statement on the appropriate object.

**ORA-01727    numeric precision specifier is out of range 1 to 38**

**Cause**    The precision specified for a number column in a CREATE/ALTER TABLE or CREATE CLUSTER statement must be a digit between 1 and 38. If no precision is specified, a default precision of 22 digits is used.

**Action**    Specify numeric precision between 1 and 38 and retry the statement.

**ORA-01728    numeric scale specifier is out of range –84 to 127**

**Cause** The scale specified for a numeric field in a CREATE/ALTER TABLE or CREATE CLUSTER statement is not in the valid range. It should be between –84 and 127.

**Action** Specify a numeric scale between –84 and 127. If a number is not specified, the default scale of the column is 0 decimal places.

**ORA-01729    database link name expected**

**Cause** A database link name does not follow the at-sign (@) in a reference to a table in a remote database.

**Action** Correct the reference and retry the operation. The correct syntax for denoting a table in a remote database follows:

```
username.table_name@ database_name
```

Spaces before and after the at-sign (@) are optional.

**ORA-01730    invalid number of column names specified**

**Cause** The number of column names specified in a CREATE VIEW statement did not correspond to the number of columns listed in the SELECT clause. If column names are specified in a CREATE VIEW statement, exactly one name must be specified for each column or expression in the SELECT clause.

**Action** Specify one view column name for each column in the SELECT clause.

**ORA-01731    circular view definition encountered**

**Cause** Through a series of CREATE and DROP VIEW statements, a view was defined that refers to itself. For example, VIEW1 might include a column from VIEW2 that is defined as a column in VIEW1. View definitions may be seen by querying the data dictionary.

**Action** Check the view definitions, remove any circular references, and retry the statements.

**ORA-01732 data manipulation operation not legal on this view**

**Cause** An attempt was made to use an UPDATE, INSERT, or DELETE statement on a view that contains expressions or functions or was derived from more than one table. If a join operation was used to create the view or the view contains virtual columns derived from functions or expressions, then the view may only be queried.

**Action** UPDATE, INSERT, or DELETE rows in the base tables instead and restrict the operations on the view to queries.

**ORA-01733 virtual column not allowed here**

**Cause** An attempt was made to use an INSERT, UPDATE, or DELETE statement on an expression in a view.

**Action** INSERT, UPDATE, or DELETE data in the base tables, instead of the view.

**ORA-01734 illegal parameters – EXTENT MIN higher than EXTENT MAX**

**Cause** The value of the lower parameter EXTENT MIN was higher than the value of the upper parameter EXTENT MAX.

**Action** Select a value for EXTENT MIN that is smaller than EXTENT MAX.

**ORA-01735 invalid ALTER TABLE option**

**Cause** An invalid option was specified in an ALTER TABLE statement.

**Action** Check the statement syntax, specify a valid option, and retry the statement.

**ORA-01736 [NOT] SUCCESSFUL expected**

**Cause** An AUDIT or NOAUDIT statement contained WHENEVER followed by something other than SUCCESSFUL or NOT SUCCESSFUL.

**Action** Correct the WHENEVER clause and retry the statement.

**ORA-01737 valid modes: [ROW] SHARE, [[SHARE] ROW] EXCLUSIVE, SHARE UPDATE**

**Cause** The lock mode entered was not recognized.

**Action** Enter one of the following: SHARE, ROW SHARE, EXCLUSIVE, ROW EXCLUSIVE, SHARE ROW EXCLUSIVE, or SHARE UPDATE.

**ORA-01738     missing IN keyword**

**Cause** In a LOCK TABLE statement, the keyword IN was missing.

**Action** Place the keyword IN and lock mode directly after the table name in the LOCK TABLE statement and retry the statement.

**ORA-01739     missing MODE keyword**

**Cause** In a LOCK TABLE statement, the keyword MODE was missing. The keyword MODE must directly follow the specified lock mode.

**Action** Check the statement syntax, insert the keyword MODE where required, and retry the statement.

**ORA-01740     missing double quote in identifier**

**Cause** An initial double quote (") was found without a closing quote. If an identifier contains a blank or special characters other than \$, #, or \_, it must be enclosed in double quotes.

**Action** Add a closing double quote (") to the end of the identifier.

**ORA-01741     illegal zero-length identifier**

**Cause** An attempt was made to use two double quotes ("" ) as an identifier. An identifier must be at least one character long.

**Action** Insert at least one character between the double quotes in the identifier. If a blank identifier is required, specify a blank space between the double quotes (" ").

**ORA-01742     comment not terminated properly**

**Cause** The indicated comment or hint beginning with a /\* token is not terminated with a closing \*/ token.

**Action** Check that the comment or hint is terminated properly.

**ORA-01743     internal inconsistency; illegal user function index**

**Cause** This is not currently implemented.

**Action** No user action is required.



**ORA-01744    inappropriate INTO**

**Cause**    The INTO clause may not be used in a subquery.

**Action**    Check the syntax, place the INTO clause in the top-level query, and retry the statement.

**ORA-01745    invalid host/bind variable name**

**Cause**    A colon in a bind variable or INTO specification was followed by an inappropriate name, perhaps a reserved word.

**Action**    Change the variable name and retry the operation.

**ORA-01746    indicator variable not permitted here**

**Cause**    An indicator variable is not permitted in this context.

**Action**    Remove the indicator variable and retry the operation.

**ORA-01747    invalid user.table.column, table.column, or columns specification**

**Cause**    A column name was specified improperly in the current SQL statement.

**Action**    Check the statement's syntax, especially references to column names, and retry the statement.

**ORA-01748    only simple column names allowed here**

**Cause**    This SQL statement does not allow a qualified column name, such as *username.table.column* or *table.column*.

**Action**    Remove the qualifications from the column and retry the operation.

**ORA-01749    may not GRANT/REVOKE privileges to/from self**

**Cause**    Grantor is not allowed to grant or revoke object or system privileges to self.

**Action**    Issue the GRANT or REVOKE of system privileges from another database administrator account.

- ORA-01750      UPDATE/REFERENCES may only be revoked from the whole table, not by column**
- Cause**      Although it is possible to GRANT update privileges on a column-by-column basis, it is only possible to REVOKE them for an entire table.
- Action**      Do not identify specific columns. To revoke update privileges for certain columns, use REVOKE for the entire table and GRANT the user privileges for specific columns.
- 
- ORA-01751      invalid dump undo option**
- Cause**      An invalid option was specified in the ALTER SYSTEM DUMP UNDO command.
- Action**      Check the syntax for spelling errors or invalid option names and reenter the command.
- For more information about ALTER SYSTEM, see the index entry on “ALTER SYSTEM” in *Oracle7 Server SQL Reference*.
- 
- ORA-01752      cannot delete from view without exactly one key-preserved table**
- Cause**      The deleted table either had no key-preserved tables, had more than one key-preserved table, or the key-preserved table was an unmerged view or a table from a read-only view.
- Action**      Redefine the view or delete it from the underlying base tables.
- For more information about join views, see the index entries under “views” in *Oracle7 Server SQL Reference*, the index entry under “views” in the *Oracle7 Server Application Developer’s Guide*, and the index entry on “updatable join views” in *Oracle7 Server Concepts*.
- 
- ORA-01753      column definition incompatible with clustered column definition**
- Cause**      When adding a table to a cluster, the definition of the column in the table was inconsistent with the definition of the column in the cluster.
- Action**      The table cannot be added to the cluster until all cluster column definitions are consistent.
- 
- ORA-01754      a table may contain only one column of type LONG**
- Cause**      Only one column per table may be defined with datatype LONG.
- Action**      Remove the LONG datatype from all but one column and retry the operation.

**ORA-01755     must specify an extent number or block number**

**Cause**     An extent number or block number was not specified.

**Action**     Specify the proper extent number or block number.

For more information about selecting the proper extent number or block number, see the index entries on “ALLOCATE EXTENT clause, of ALTER TABLE command” and on “block size” in *Oracle7 Server SQL Reference*.

**ORA-01756     quoted string not properly terminated**

**Cause**     A quoted string must be terminated with a single quote mark (').

**Action**     Insert the closing quote and retry the statement.

**ORA-01757     must specify an object number**

**Cause**     An object number was not specified.

**Action**     Specify the proper object number.

For more information specifying the proper object number, see the index entry on “object naming” in *Oracle7 Server SQL Reference*.

**ORA-01758     table must be empty to add mandatory NOT NULL column**

**Cause**     It is not possible to define a new column as NOT NULL if rows already exist in the table being modified.

**Action**     Retry the statement without the NOT NULL specification.

**ORA-01759     user function is incorrectly defined**

**Cause**     A user function has been improperly defined.

**Action**     Contact customer support.

**ORA-01760     illegal argument for function**

**Cause**     The argument or arguments specified for the function are not valid in this context.

**Action**     Check the definition of the function and correct the arguments.

**ORA-01761 DML operation does not map to a unique table in the join**

**Cause** The primary table is the base table against which the update, insert or delete operation is ultimately performed. If the operation is a delete, either there is no primary table in the join or there is more than one primary table. If the operation is an update or an insert, the specified columns map to more than one base table.

**Action** Modify the join specification so that the situations described above do not occur.

**ORA-01762 vopdrv: view query block not in FROM**

**Cause** This is an internal error message not normally issued.

**Action** Contact customer support.

**ORA-01763 update or delete involves outer joined table**

**Cause** If the operation is a delete, the table being deleted from is outer-joined to some other table. If the operation is an update, either the table being updated is outer-joined to some other table, or a table that is reachable from the primary table is being outer-joined to a table not reachable from the primary table.

**Action** Modify the join specification so that the situations described above do not occur.

**ORA-01764 new update value of join is not guaranteed to be unique**

**Cause** A row of a join query table is being updated using a row of a table that is not guaranteed to have only one value for the row being updated.

**Action** Modify the join specification, so that the situation described above does not occur.

**ORA-01765 specifying table's owner name is not allowed**

**Cause** A table or view name was specified with a period (.) or identified with an invalid prefix.

**Action** Check that the object is identified correctly and if necessary remove the period from the name.

**ORA-01766     dictionary table not allowed in this context**

**Cause**     The name of a data dictionary object was used outside the FROM clause of a SELECT statement. The only operation allowed on a data dictionary object is to SELECT from it.

**Action**     Restrict operations on data dictionary objects to queries.

**ORA-01767     UPDATE ... SET expression must be a subquery**

**Cause**     An attempt was made to use a single expression without a subquery to update a list of columns.

**Action**     Check the syntax for using subqueries to update data and add the necessary subquery.

**ORA-01768     number string too long**

**Cause**     A number entered exceeds the limit of 255 characters, including digits, sign, decimal point, and exponent.

**Action**     Shorten the number string, perhaps by expressing it in scientific notation, for example, 1.85E9 instead of 1,850,000,000.

**ORA-01769     duplicate CLUSTER option specifications**

**Cause**     During a CREATE of a clustered table, an attempt was made to specify more than one CLUSTER option.

**Action**     Remove the extra CLUSTER option and retry the statement.

**ORA-01770     CLUSTER option not allowed in CREATE CLUSTER command**

**Cause**     An attempt was made to use the CLUSTER option within a CREATE CLUSTER statement.

**Action**     Remove the CLUSTER clause and try again.

**ORA-01771     illegal option for a clustered table**

**Cause**     CLUSTER option conflicts with MAXTRANS option.

**Action**     Choose one option and retry the statement.

**ORA-01772    must specify a value for LEVEL**

**Cause** A value for LEVEL was not specified.

**Action** Specify a proper value for LEVEL and reissue the command.

For more information specifying a proper value for LEVEL, see the index entries on “LEVEL pseudocolumn” and on “LEVEL pseudocolumn, in SELECT command” in *Oracle7 Server SQL Reference*.

**ORA-01773    may not specify column datatypes in this CREATE TABLE**

**Cause** Column datatypes were specified in a SELECT statement used to create and load a table directly.

**Action** Remove column datatypes. The datatypes of the SELECT list expressions are automatically used as the column datatypes.

**ORA-01774    dump undo option specified more than once**

**Cause** The same option was specified more than once in the ALTER SYSTEM DUMP UNDO command.

**Action** Check the syntax, remove the redundant specification of the option, and reissue the command.

For more information about ALTER SYSTEM, see the index entry on “ALTER SYSTEM” in *Oracle7 Server SQL Reference*.

**ORA-01775    looping chain of synonyms**

**Cause** Through a series of CREATE synonym statements, a synonym was defined that referred to itself. For example, the following definitions are circular:

```
CREATE SYNONYM s1 for s2
CREATE SYNONYM s2 for s3
CREATE SYNONYM s3 for s1
```

**Action** Change one synonym definition so that it applies to a base table or view and retry the operation.

**ORA-01776 cannot modify more than one base table through a join view**

**Cause** Columns belonging to more than one underlying table were either inserted into or updated.

**Action** Phrase the statement as two or more separate statements.

For more information about join views, see the index entries under “views” in *Oracle7 Server SQL Reference*, the index entry under “views” in the *Oracle7 Server Application Developer’s Guide*, and the index entry on “updatable join views” in *Oracle7 Server Concepts*.

**ORA-01777 WITH GRANT OPTION not allowed in this system**

**Cause** This version of Oracle does not support the WITH GRANT OPTION.

**Action** Remove the WITH GRANT option.

**ORA-01778 maximum subquery nesting level exceeded**

**Cause** An attempt was made to use more than 255 levels of nested subqueries.

**Action** Merge some of the subqueries into their containing queries, until there are less than 255 levels of nesting.

**ORA-01779 cannot modify a column which maps to a non-key-preserved table**

**Cause** An attempt was made to insert or update columns of a join view which map to a non-key-preserved table.

**Action** Modify the underlying base tables directly.

For more information about join views, see the index entries under “views” in *Oracle7 Server SQL Reference*, the index entry under “views” in the *Oracle7 Server Application Developer’s Guide*, and the index entry on “updatable join views” in *Oracle7 Server Concepts*.

**ORA-01780 string literal required**

**Cause** In a COMMENT statement, the comment following the keyword IS must be a quoted string literal.

**Action** Check that the comment is a string literal.

**ORA-01781 UNRECOVERABLE cannot be specified without AS SELECT**

**Cause** UNRECOVERABLE was specified in a CREATE TABLE statement without also specifying a populating subquery with an AS clause.

**Action** Do not specify UNRECOVERABLE.

- ORA-01782      UNRECOVERABLE cannot be specified for a cluster or clustered table**
- Cause**      A CREATE CLUSTER or clustered CREATE TABLE statement specified UNRECOVERABLE.
- Action**      Do not specify UNRECOVERABLE.
- 
- ORA-01783      only one RECOVERABLE or UNRECOVERABLE clause may be specified**
- Cause**      RECOVERABLE was specified more than once, UNRECOVERABLE was specified more than once, or both RECOVERABLE and UNRECOVERABLE were specified in a CREATE TABLE or CREATE INDEX statement.
- Action**      Remove all but one of the RECOVERABLE or UNRECOVERABLE clauses and reissue the statement.
- 
- ORA-01784      RECOVERABLE cannot be specified with database media recovery disabled**
- Cause**      A CREATE TABLE or CREATE INDEX statement specified RECOVERABLE when the database was running in NOARCHIVELOG mode. Since logs are not being archived, they will be overwritten and the object being created cannot be recovered from a backup taken before the object was created.
- Action**      Do not specify RECOVERABLE, or restart the database with media recovery enabled.
- 
- ORA-01785      ORDER BY item must be the number of a SELECT-list expression**
- Cause**      Either an ORDER BY item for a set expression is not a column number, or the ORDER BY item is not the number of a SELECT list column.
- Action**      The ORDER BY item must be a number between 1 and the number of columns in the SELECT list. Check the column number and retry the statement.
- 
- ORA-01786      FOR UPDATE of this query expression is not allowed**
- Cause**      An attempt was made to use a FOR UPDATE clause on the result of a set expression involving GROUP BY, DISTINCT, UNION, INTERSECT, or MINUS.
- Action**      Check the syntax, remove the FOR UPDATE clause, and retry the statement.
- 
- ORA-01787      only one clause allowed per query block**
- Cause**      An attempt was made to use more than one WHERE, GROUP BY, CONNECT BY, or HAVING clause in the query.
- Action**      Combine the duplicate clauses into a single clause and retry the statement.



**ORA-01788      CONNECT BY clause required in this query block**

**Cause**      A START WITH clause was specified without a CONNECT BY clause.

**Action**      Check the syntax, specify a CONNECT BY clause, and retry the statement.

**ORA-01789      query block has incorrect number of result columns**

**Cause**      All of the queries participating in a set expression do not contain the same number of SELECT list columns.

**Action**      Check that all the queries in the set expression have the same number of SELECT list columns.

**ORA-01790      expression must have same datatype as corresponding expression**

**Cause**      A SELECT list item corresponds to a SELECT list item with a different datatype in another query of the same set expression.

**Action**      Check that all corresponding SELECT list items have the same datatypes. Use the TO\_NUMBER, TO\_CHAR, and TO\_DATE functions to do explicit data conversions.

**ORA-01791      not a SELECTed expression**

**Cause**      There is an incorrect ORDER BY item. The query is a SELECT DISTINCT query with an ORDER BY clause. In this context, all ORDER BY items must be constants, SELECT list expressions, or expressions whose operands are constants or SELECT list expressions.

**Action**      Remove the inappropriate ORDER BY item from the SELECT list and retry the statement.

**ORA-01792      maximum number of columns in a table or view is 254**

**Cause**      While creating a table or view, more than 254 columns were specified.

**Action**      Remove some columns from the table or view definition. If all the information is required, split the columns into two tables or views and join the columns when querying.

**ORA-01793      maximum number of index columns is 16**

**Cause**      While creating an index, more than 16 columns were specified.

**Action**      Remove some columns from the index definition. If all the columns indexed are required, split them into two indexes.

**ORA-01794      maximum number of cluster columns is 16**

**Cause** More than 16 columns were specified in the cluster key.

**Action** Remove some of the columns from the cluster key definition. Consider concatenating multiple character strings into a single column.

**ORA-01795      maximum number of expressions in a list is 254**

**Cause** More than 254 columns or expressions were specified in a list.

**Action** Remove some of the expressions from the list.

**ORA-01796      this operator cannot be used with lists**

**Cause** A relational operator is not allowed in this context. When comparing lists, use only an operator that tests for equivalence, such as =, !=, or IN.

**Action** Rephrase the query so that it only compares lists for equivalence. For example, the following clause is invalid:

```
WHERE (A,B) > ((C,D), (E,F))
```

It may be necessary to compare individual columns separately. For example, to see if A and B are respectively greater than C and D, use WHERE A>B AND C>D instead of WHERE (A,B)>(C,D).

**ORA-01797      this operator must be followed by ANY or ALL**

**Cause** The keyword ANY or ALL was missing.

**Action** Check the statement syntax and add ANY or ALL where appropriate.

**ORA-01798      missing EXCEPTION keyword**

**Cause** The EXCEPTION keyword is missing from the ENABLE clause.

**Action** Correct the syntax.

**ORA-01799      a column may not be outer-joined to a subquery**

**Cause** An expression is not permitted to be joined to a subquery.

**Action** Either remove the join or convert the subquery to a view.

## **01800–01899: The Date Function**

This section lists messages generated when the Oracle date function is accessed.

**ORA-01800      a literal in the date format was too large to process**

**Cause**      A literal specified in a date format was too large. If a literal is entered as a date, it must be less than 220 characters long.

**Action**      Use only literals less than 220 characters long in the date format.

**ORA-01801      date format is too long for internal buffer**

**Cause**      The date format string was too long to process. This should occur only if several long literals are specified as part of a date.

**Action**      Remove long literals from the date format string.

**ORA-01802      Julian date is out of range**

**Cause**      An invalid Julian date was entered. Valid Julian dates run from 1 to 3,442,447.

**Action**      Enter a valid Julian date between 1 and 3,442,447.

**ORA-01803      failure in getting date/time**

**Cause**      This is an internal error message that is not likely to occur. It is usually caused by a failure in the system clock.

**Action**      Investigate the system clock and the process that requested the date or time. If necessary, contact customer support.

**ORA-01810      format code appears twice**

**Cause**      A format code was listed twice in a date specification. Each format code may be specified only once in the function TO\_DATE.

**Action**      Remove the duplicate format code from the date specification, then retry the operation.

**ORA-01811      Julian date precludes use of day of year**

**Cause**      Both a Julian date and a day of the year were specified in the TO\_DATE function. If a Julian date is specified, the day of the year (DDD) may not be specified, as it is contained in the Julian date.

**Action**      Remove the day of the year or the Julian date from the specification, then retry the operation.

**ORA-01812    year may only be specified once**

**Cause** More than one year format code was listed in a date specification. Only one of the following year format codes may be specified in a date: YYYY, YY, Y.

**Action** Remove all but one year format from the date specification.

**ORA-01813    hour may only be specified once**

**Cause** More than one hour format code was listed in a date specification. Only one of the following hour format codes may be specified in a date: HH, HH12, HH24.

**Action** Remove all but one hour format from the date specification.

**ORA-01814    AM/PM conflicts with use of A.M./P.M.**

**Cause** Both types of meridian indicators, AM and PM, were listed in a date specification. If one of the meridian indicator format masks, such as AM or A.M., is specified in the date, the other may not be specified.

**Action** Use one meridian indicator format, with or without periods, consistently.

**ORA-01815    BC/AD conflicts with use of B.C./A.D.**

**Cause** Both types of BC/AD indicators were listed in a date specification. If one of the BC/AD indicator format masks, such as BC or B.C., is specified in the date, the other may not be specified.

**Action** Use one BC/AD indicator format, with or without periods, consistently.

**ORA-01816    month may only be specified once**

**Cause** More than one month format code was listed in a date specification. Only one of the following month format codes may be specified in a date: MM, MON, MONTH.

**Action** Remove all but one month format from the date specification.

**ORA-01817    day of week may only be specified once**

**Cause** More than one day-of-the-week format code was listed in a date specification. Only one of the following day-of-the-week format codes may be specified in a date: D, DY, DAY.

**Action** Remove all but one day-of-the-week format from the date specification.

**ORA-01818     HH24 precludes use of meridian indicator**

**Cause** A date specification contained both a 24-hour time format code and a meridian indicator code. If hours are specified using the 24-hour time format (HH24), a meridian indicator, AM or PM, may not be specified.

**Action** Remove the meridian indicator format code, AM/PM or A.M./P.M., or the 24-hour time format code, HH24, from the date specification.

**ORA-01819     signed year precludes use of BC/AD**

**Cause** A date specification contained both a signed year and a B.C./A.D. indicator. If the year is specified with a sign, such as SYYYY, then B.C. or A.D. is implicit in the date and must not be entered.

**Action** Remove the B.C./A.D. indicator from the date specification.

**ORA-01820     format code cannot appear in date input format**

**Cause** A date specification contained an invalid format code. Only the following may be specified when entering a date: year, month, day, hours, minutes, seconds, Julian day, A.M./P.M. and B.C./A.D.

**Action** Remove the invalid format code from the date specification.

**ORA-01821     date format not recognized**

**Cause** A date specification contained an invalid format code.

**Action** Check that only valid date format codes are specified.

**ORA-01830     date format picture ends before converting entire input string**

**Cause** A valid date format picture included extra data. The first part of the format picture was converted into a valid date, but the remaining data was not required.

**Action** Check the specifications for date format pictures and correct the statement.

**ORA-01831     year conflicts with Julian date**

**Cause** The wrong year was specified with a Julian day. If a year is specified with a Julian date, it must be the year in which the Julian date occurs.

**Action** Remove the year value from the date specification or enter the correct year for the Julian date.

**ORA-01832 day of year conflicts with Julian date**

**Cause** A Julian date was specified with the day of the year but the day did not correspond to the Julian date. If the day of the year is specified with a Julian date, it must be the same day as the Julian date.

**Action** Remove the day of the year value from the date specification or enter the correct day for the Julian date.

**ORA-01833 month conflicts with Julian date**

**Cause** The wrong month was specified with a Julian date. If a month is specified with a Julian date, it must be the month in which the Julian date occurs.

**Action** Remove the month value from the date specification or enter the correct month for the Julian date.

**ORA-01834 day of month conflicts with Julian date**

**Cause** A Julian date was specified with the day of the month, but the month day did not correspond to the Julian date. If the day of the month is specified with a Julian date, it must be the same day of the month as the Julian date.

**Action** Remove the day of the month value from the date specification or enter the correct day of the month for the Julian date.

**ORA-01835 day of week conflicts with Julian date**

**Cause** A Julian date was specified with the day of the week, but the weekday did not correspond to the Julian date. If the day of the week is specified with a Julian date, it must be the same day of the week as the Julian date.

**Action** Remove the day of the week value from the date specification or enter the correct day of the week for the Julian date.

**ORA-01836 hour conflicts with seconds in day**

**Cause** The wrong hour was specified with seconds in the day. If an hour is specified with seconds past midnight (SSSSS), it must be the hour in which the seconds value falls.

**Action** Remove the hour value from the date specification or specify the correct hour for the seconds past midnight.

**ORA-01837     minutes of hour conflicts with seconds in day**

**Cause** A date specification contained both minutes of the hour and seconds in the day but the values did not correspond. If both minutes in the hour (MI) and seconds past midnight (SSSSS) are specified, the minutes value must be the minute in which the seconds value will occur.

**Action** Remove the minutes value from the date specification or enter the correct minute value for the specified seconds value.

**ORA-01838     seconds of minute conflicts with seconds in day**

**Cause** A date specification contained both seconds of the minute and seconds in the day but the values did not correspond. If both types of seconds are specified, the seconds of the minute value (SS) must be the second in which the seconds past midnight value (SSSSS) will fall.

**Action** Remove the seconds of the minute value from the date specification or enter a value that corresponds to the given seconds in the day.

**ORA-01839     date not valid for month specified**

**Cause** The day of the month specified in the date is invalid for the given month. The day of the month (DD) must be between 1 and the number of days in the month.

**Action** Enter a valid day of the month for the specified month.

**ORA-01840     input value not long enough for date format**

**Cause** The data to be converted to date format was incomplete; the date format picture was longer than the input data.

**Action** Either add more input or shorten the date picture format, then retry the operation.

**ORA-01841     (full) year must be between -4713 and +9999**

**Cause** A date specified a year that is not in the valid date range. A valid date is any date between January 1, 4712 B.C. and December 31, 4712 A.D.

**Action** Enter a valid date value between 4712 B.C. and 4712 A.D.

**ORA-01842     quarter must be between 1 and 4**

**Cause** An invalid value was specified for the quarter of the year in a date. The quarter (Q) must be between 1 and 4.

**Action** Enter a value for quarter between 1 and 4.

**ORA-01843 not a valid month**

**Cause** A date specified an invalid month. Valid months are: January–December, for format code MONTH, and Jan–Dec, for format code MON.

**Action** Enter a valid month value in the correct format.

**ORA-01844 week of year must be between 1 and 52**

**Cause** An invalid value was specified for the week of the year in a date. Week of the year (WW) must be between 1 and 52.

**Action** Enter a week of the year value between 1 and 52.

**ORA-01845 week of month must be between 1 and 5**

**Cause** An invalid value was specified for the week of the month in a date. Week of the month (W) must be between 1 and 5.

**Action** Enter a week of the month value between 1 and 5.

**ORA-01846 not a valid day of the week**

**Cause** A date specified an invalid day of the week. Valid days are

- Monday–Sunday, for format code DAY
- Mon–Sun, for format code DY
- 1–7, for format code D

**Action** Enter a valid day of the week value in the correct format.

**ORA-01847 day of month must be between 1 and last day of month**

**Cause** The day of the month listed in a date is invalid for the specified month. The day of the month (DD) must be between 1 and the number of days in that month.

**Action** Enter a valid day value for the specified month.

**ORA-01848 day of year must be between 1 and 365 (366 for leap year)**

**Cause** An invalid day of the year was specified in a date. Day of the year (DDD) must be between 1 and 365 for a non-leap year or 1 and 366 for a leap year.

**Action** Enter a day of the year value between 1 and 365 (or 366).



## 01800–01899: The Date Function

### **ORA-01849    hour must be between 1 and 12**

**Cause**    An invalid hour was specified for a date using the 12-hour time format. If a 12-hour format code (HH or HH12) is used, the specified hour must be between 1 and 12.

**Action**    Enter an hour value between 1 and 12.

### **ORA-01850    hour must be between 0 and 23**

**Cause**    An invalid hour was specified for a date using the 24-hour time format. If the 24-hour format code (HH24) is listed, the specified hour must be between 0 and 23.

**Action**    Enter an hour value between 0 and 23.

### **ORA-01851    minutes must be between 0 and 59**

**Cause**    An invalid minute value was specified in a date. Minutes must be between 0 and 59.

**Action**    Enter a minute value between 0 and 59.

### **ORA-01852    seconds must be between 0 and 59**

**Cause**    An invalid seconds value was specified in a date. Seconds must be between 0 and 59 if the seconds format code (SS) is used.

**Action**    Enter a seconds value between 0 and 59.

### **ORA-01853    seconds in day must be between 0 and 86399**

**Cause**    An invalid value for seconds in the day was specified in a date. Seconds must be between 0 and 86399 if the seconds past midnight format code (SSSSS) is used.

**Action**    Specify a seconds value between 0 and 86399.

### **ORA-01854    Julian date must be between 1 and 5373484**

**Cause**    An invalid Julian date was entered.

**Action**    Correct and retry.

**ORA-01855 AM/A.M. or PM/P.M. required**

**Cause** A date specification contained a meridian indicator format code but a valid meridian indicator was not specified. If a meridian indicator code, A.M./P.M. or AM/PM, is included in a date format, the date must include a valid meridian indicator.

**Action** Specify the meridian indicator in the correct format, A.M./AM or P.M./PM.

**ORA-01856 BC/B.C. or AD/A.D. required**

**Cause** A date specification contained a BC/AD format code but a valid BC/AD indicator was not specified. If one of the BC/AD format codes, BC/AD or B.C./A.D., is specified in a date format, the date must include BC/B.C. or AD/A.D.

**Action** Specify the BC/AD indicator in the date using the correct format.

**ORA-01857 not a valid time zone**

**Cause** An incorrect time zone code was specified for the NEW\_TIME function.

**Action** Correct the invalid time zone code, then retry the operation.

**ORA-01858 a non-numeric character found where a digit was expected**

**Cause** The input data to be converted using a date format model was incorrect. The format model expected a number but found a non-numeric character.

**Action** Check the input data and the date format model to make sure the elements match in number and type, then retry the operation.

**ORA-01859 a non-alphabetic character was found where a letter was expected**

**Cause** The input data to be converted using a date format model was incorrect. The format model expected a letter but found a non-alphabetic character.

**Action** Check the input data and the date format model to make sure the elements match in number and type, then retry the operation.

**ORA-01860 week of year must be between 1 and 53**

**Cause** A week number outside the range 1 to 53 was specified.

**Action** Use only a value within the valid range for the week number.

## 01900–02039: SQL Parsing

### **ORA–01861    literal does not match format string**

**Cause**    Literals in the input string must be the same length as the literals in the format string, except for the leading white space characters. If the “FX” modifier is specified, the literal must match exactly, including the leading white space.

**Action**    Correct the format string to match the string literal.

### **ORA–01862    wrong number of digits for this format item**

**Cause**    The number of digits in this format item is not equal to the number required for the format. This error usually occurs when the “FX” modifier (format exact) has been specified.

**Action**    Resubmit the command using the required amount of numbers for the format mask.

### **ORA–01898    too many precision specifiers**

**Cause**    While trying to truncate or round dates, extra data was found in the date format picture.

**Action**    Check the syntax of the date format picture and retry.

### **ORA–01899    bad precision specifier**

**Cause**    An invalid precision code was specified in a date.

**Action**    Enter a valid precision code in the date format. Valid precision types are: century, year, month, day, Julian date, hours, minutes, and seconds.

---

## 01900–02039: SQL Parsing

This section lists some of the messages generated when SQL statements are parsed by the Oracle Server.

### **ORA–01900    LOGFILE keyword expected**

**Cause**    The keyword LOGFILE is required in this context.

**Action**    Check the syntax, insert the keyword LOGFILE where required, then re-execute the statement.

**ORA-01901      ROLLBACK keyword expected**

**Cause**      The keyword ROLLBACK is required in this context.

**Action**      Check the syntax, insert the keyword ROLLBACK where required, and re-execute the statement.

**ORA-01902      SEGMENT keyword expected**

**Cause**      The keyword SEGMENT is required in this context.

**Action**      Check the syntax, insert the keyword SEGMENT where required, and re-execute the statement.

**ORA-01903      EVENTS keyword expected**

**Cause**      The keyword EVENTS is required in this context.

**Action**      Check the syntax, insert the keyword EVENTS where required, and re-execute the statement.

**ORA-01904      DATAFILE keyword expected**

**Cause**      The keyword DATAFILE is required in this context.

**Action**      Check the syntax, insert the keyword DATAFILE where required, and re-execute the statement.

**ORA-01905      STORAGE keyword expected**

**Cause**      The keyword STORAGE is required in this context.

**Action**      Check the syntax, insert the keyword STORAGE where required, and re-execute the statement.

**ORA-01906      BACKUP keyword expected**

**Cause**      The keyword BACKUP is required in this context.

**Action**      Check the syntax, insert the keyword BACKUP where required, and re-execute the statement.

**ORA-01907      TABLESPACE keyword expected**

**Cause**      The keyword TABLESPACE is required in this context.

**Action**      Check the syntax, insert the keyword TABLESPACE where required, and re-execute the statement.

**ORA-01908 EXISTS keyword expected**

**Cause** The keyword EXISTS is required in this context.

**Action** Check the syntax, insert the keyword EXISTS where required, and re-execute the statement.

**ORA-01909 REUSE keyword expected**

**Cause** The keyword REUSE is required in this context.

**Action** Check the syntax, insert the keyword REUSE where required, and re-execute the statement.

**ORA-01910 TABLES keyword expected**

**Cause** The keyword TABLES is required in this context.

**Action** Check the syntax, insert the keyword TABLES where required, and re-execute the statement.

**ORA-01911 CONTENTS keyword expected**

**Cause** The keyword CONTENTS is required in this context.

**Action** Check the syntax, insert the keyword CONTENTS where required, and re-execute the statement.

**ORA-01912 ROW keyword expected**

**Cause** The keyword ROW is required in this context.

**Action** Check the syntax, insert the keyword ROW where required, and re-execute the statement.

**ORA-01913 EXCLUSIVE keyword expected**

**Cause** The keyword EXCLUSIVE is required in this context.

**Action** Check the syntax, insert the keyword EXCLUSIVE where required, and re-execute the statement.

**ORA-01914    invalid auditing option for sequence numbers**

**Cause**    AUDIT or NOAUDIT on a sequence number specifies an auditing option that is legal for tables but is not legal for sequence numbers.

**Action**    The following options may not be used for sequence numbers and should be removed from the statement: COMMENT, DELETE, INDEX, INSERT, LOCK, RENAME, UPDATE, REFERENCES, and EXECUTE.

**ORA-01915    invalid auditing option for views**

**Cause**    AUDIT or NOAUDIT on a view specifies an auditing option that is legal for tables but is not legal for views.

**Action**    The following options may not be used for views and should be removed from the statement: ALTER, INDEX, REFERENCES, and EXECUTE.

**ORA-01916    ONLINE keyword or OFFLINE keyword expected**

**Cause**    The keyword ONLINE or OFFLINE is required in this context.

**Action**    Check the syntax, insert the keyword ONLINE or OFFLINE where required, and re-execute the statement.

**ORA-01917    user or role *name* does not exist**

**Cause**    An invalid user or role name was specified.

**Action**    Check that a valid user or role name is used.

**ORA-01918    user *name* does not exist**

**Cause**    The user name specified cannot be found in the system.

**Action**    Check that a valid user or role name is used.

**ORA-01919    role *name* does not exist**

**Cause**    An invalid role name was specified.

**Action**    Check that a valid role name is specified.

**ORA-01920    user name *name* conflicts with another user or role name**

**Cause**    A user or role by that name already exists.

**Action**    Choose a different user name.

**ORA-01921     role name *name* conflicts with another user or role name**

**Cause**     A user or role by that name already exists.

**Action**     Choose a different role name.

**ORA-01922     CASCADE must be specified to drop *name***

**Cause**     The user owns objects that need to be dropped along with the user.

**Action**     Use the CASCADE command.

**ORA-01923     CASCADE aborted, objects locked by another user**

**Cause**     A CASCADE operation was aborted because the specified user owns objects that are locked and thus cannot be dropped.

**Action**     Use the lock monitor to determine who locked the objects. The objects must be unlocked before the specified user can be dropped.

**ORA-01924     role *name* not granted or does not exist**

**Cause**     The grantor attempted to use a SET ROLE command to enable a role not granted to the grantor, or to enable a subrole, or the grantor did not have the SET ROLE system privilege.

**Action**     To use the SET ROLE command, check that the grantor has the SET ROLE system privilege and is granted the role to be passed on.

**ORA-01925     maximum of *num* enabled roles exceeded**

**Cause**     The specified number of enabled roles exceeds the value specified in the initialization parameter MAX\_ENABLED\_ROLES.

**Action**     Increase MAX\_ENABLED\_ROLES and restart the instance.

**ORA-01926     cannot grant WITH GRANT OPTION to a role**

**Cause**     Privileges with GRANT OPTION cannot be granted to a role.

**Action**     Perform the grant without the GRANT OPTION.

**ORA-01927     original grantor must REVOKE privileges**

**Cause**     Only the original grantor of privileges can REVOKE those privileges.

**Action**     Ask the database administrator for the grantor of the privileges and ask that person to revoke the privileges.

**ORA-01928 GRANT option not granted for all privileges**

**Cause** The grantor does not have the GRANT OPTION for some or all of the privileges specified. These privileges are not granted.

**Action** Check that grantor has the GRANT OPTION for privileges to be granted to a user or role.

**ORA-01929 no privileges to GRANT**

**Cause** The grantor attempted to grant privileges using the object privilege ALL, but was not granted privileges to do so via the GRANT OPTION.

**Action** Check that the grantor has the necessary privileges via the GRANT OPTION and try again.

**ORA-01930 no privileges to REVOKE**

**Cause** The REVOKE ALL command was issued against a user when there were no privileges to revoke.

**Action** This action is unnecessary.

**ORA-01931 cannot grant UNLIMITED TABLESPACE, REFERENCES, or INDEX to a role**

**Cause** The UNLIMITED TABLESPACE, REFERENCES, or INDEX privileges cannot be granted to a role.

**Action** Grant these privileges directly to the user.

**ORA-01932 WITH ADMIN option not granted for role *name***

**Cause** Grantor attempted an operation on a role, but does not have the necessary privileges via the ADMIN OPTION.

**Action** Obtain the necessary privileges via the ADMIN OPTION and try again.

**ORA-01933 cannot create a stored object using privileges from a role**

**Cause** An attempt was made to create a stored object using privileges from a role. Stored objects cannot use privileges from roles.

**Action** Grant the required privileges to the user directly.



**ORA-01934     circular role grant detected**

**Cause**     A role, the primary role, cannot be granted to itself or another role that is granted via one or more roles to the primary role. This would cause a circular definition. See *Oracle7 Server SQL Reference* for more detail.

**Action**     Analyze the role and user structure to be used and check that no attempt is made to grant roles circularly.

**ORA-01935     missing user or role name**

**Cause**     The entered statement required a user or role name, and it was not specified.

**Action**     Specify a user or role name in the statement.

**ORA-01936     cannot specify owner when creating users or roles**

**Cause**     An attempt was made to specify an owner while creating a user or a role. Users and roles do not have owners.

**Action**     Do not specify an owner when creating a user or a role.

**ORA-01937     missing or invalid role name**

**Cause**     A valid role name was expected.

**Action**     Specify a valid role name.

For more information about specifying a valid role name, see the index entry on “CREATE ROLE” in *Oracle7 Server SQL Reference*.

**ORA-01938     IDENTIFIED BY must be specified for CREATE USER**

**Cause**     An attempt was made to create a user without using the IDENTIFIED EXTERNALLY clause or the IDENTIFIED BY password clause.

**Action**     In the CREATE USER statement, either assign the user a password using the IDENTIFIED BY password clause or use the IDENTIFIED EXTERNALLY clause, which allows the operating system to perform user authentication.

**ORA-01939     only the ADMIN OPTION can be specified**

**Cause**     An attempt was made to grant a system privilege or a role to a user using a GRANT statement with the GRANT OPTION (GRANT Form I). System privileges and roles must be granted using the WITH ADMIN OPTION (GRANT Form II).

**Action**     Use the WITH ADMIN OPTION, rather than the WITH GRANT OPTION, in the GRANT statement.

- ORA-01940**     **cannot DROP a user that is currently logged in**
- Cause**     An attempt was made to drop a user that was currently logged in.
- Action**     Make sure the user is logged out, then re-execute the command.
- 
- ORA-01941**     **SEQUENCE keyword expected**
- Cause**     The keyword SEQUENCE is required in this context.
- Action**     Check syntax, insert keyword SEQUENCE as required, and try again.
- 
- ORA-01942**     **IDENTIFIED BY and EXTERNALLY cannot both be specified**
- Cause**     A user was specified with an Oracle password and identified externally.
- Action**     Specify only one of these options. For details and syntax, see *Oracle7 Server SQL Reference*.
- 
- ORA-01943**     **IDENTIFIED BY already specified**
- Cause**     The IDENTIFIED BY 'password' clause was specified more than once in a statement.
- Action**     Use the clause IDENTIFIED BY only once in the statement. If desired, change the user's password later with an ALTER USER command.
- 
- ORA-01944**     **IDENTIFIED EXTERNALLY already specified**
- Cause**     The keyword IDENTIFIED EXTERNALLY was specified more than once in a statement.
- Action**     Use the keyword IDENTIFIED EXTERNALLY only once in the statement.
- 
- ORA-01945**     **DEFAULT ROLE[S] already specified**
- Cause**     The keyword DEFAULT ROLE was used more than once in a CREATE USER or ALTER USER statement.
- Action**     Use the keyword DEFAULT ROLE only once in the statement. If desired, change the user's role later with an ALTER USER statement.
- 
- ORA-01946**     **DEFAULT TABLESPACE already specified**
- Cause**     The keyword DEFAULT TABLESPACE was specified more than once in a CREATE USER or ALTER USER statement.
- Action**     Use the keyword DEFAULT TABLESPACE only once in the statement. If desired, change the user's tablespace later with an ALTER USER statement.

**ORA-01947      TEMPORARY TABLESPACE already specified**

**Cause**      The keyword TEMPORARY TABLESPACE was specified more than once in a CREATE USER or ALTER USER statement.

**Action**      Use the keyword TEMPORARY TABLESPACE only once in the statement. If desired, change the user’s tablespace later with an ALTER USER statement.

**ORA-01948      invalid DEFAULT ROLE specification**

**Cause**      An invalid role name was specified.

**Action**      Check that the role name is correct.

**ORA-01949      ROLE keyword expected**

**Cause**      The context of the command or argument requires the use of the ROLE keyword; for example, DROP [ROLE], DEFAULT [ROLE], and so on.

**Action**      Check syntax and try again. For syntax rules, see *Oracle7 Server SQL Reference*.

**ORA-01950      no privileges on tablespace “*name*”**

**Cause**      The attempt to give the user a tablespace quota failed because the user does not have the necessary system privileges.

**Action**      Either grant the user the system privileges needed to create objects in the specified tablespace or grant the user a specific space resource in the tablespace.

**ORA-01951      role not granted for ROLE: *name*, user: *name***

**Cause**      An attempt was made to revoke a role not granted to the user.

**Action**      Check that the user has the role.

**ORA-01952      system privileges not granted to *name***

**Cause**      An attempt was made to revoke a system privilege not granted to the user.

**Action**      Check that the user has the system privilege.

**ORA-01953      command no longer valid, see ALTER USER**

**Cause**      The syntax for assigning quotas on tablespaces has changed. The ALTER USER command is now used to grant quotas on tablespaces.

**Action**      Use the ALTER USER command.

**ORA-01954     DEFAULT ROLE clause not valid for CREATE USER**

**Cause** An attempt was made to grant a default role to a user in a CREATE USER statement. A DEFAULT ROLE clause cannot be used in a CREATE USER statement.

**Action** Use a GRANT ROLE statement to grant an initial role to the user; then use the ALTER USER command to assign any desired default roles.

**ORA-01955     user not granted DEFAULT ROLE *name***

**Cause** An attempt was made to set the default role of a user to a role the user was not granted.

**Note:** Subroles cannot be specified in a DEFAULT ROLE clause.

**Action** Check that the user is granted the role before specifying it as the default.

**ORA-01956     invalid command when OS\_ROLES are being used**

**Cause** An attempt to grant a role to a user failed because Oracle database roles are disabled and operating system roles are enabled. This occurred because the OS\_ROLES parameter in the initialization parameter file is set to TRUE.

**Action** Ask the database administrator or security administrator how to set roles via the operating system. See also your Oracle7 operating system–specific Oracle documentation.

**ORA-01967     invalid option for CREATE CONTROLFILE**

**Cause** An invalid CREATE CONTROLFILE option is present.

**Action** Specify only valid CREATE CONTROLFILE options.

**ORA-01968     only specify RESETLOGS or NORESETLOGS once**

**Cause** The keyword RESETLOGS or NORESETLOGS has appeared more than once in the CREATE CONTROLFILE statement.

**Action** Specify RESETLOGS or NORESETLOGS only once.

**ORA-01969     you must specify RESETLOGS or NORESETLOGS**

**Cause** The RESETLOGS or NORESETLOGS option is missing from the CREATE CONTROL FILE statement.

**Action** Specify RESETLOGS or NORESETLOGS on the command line.

- ORA-01970**    **you must specify a database name for CREATE CONTROLFILE**
- Cause**    The CREATE CONTROLFILE statement issued is missing a database name.
- Action**    Issue the CREATE CONTROLFILE statement again with the appropriate database name for the DATABASE keyword.
- 
- ORA-01973**    **missing change number**
- Cause**    The keyword CHANGE was specified on the command line, but the change number was not specified.
- Action**    Check the syntax of the command and retry it.
- 
- ORA-01974**    **illegal archive option**
- Cause**    An invalid option to the ALTER SYSTEM ARCHIVE command was specified.
- Action**    Check the syntax of the command and retry it.
- 
- ORA-01975**    **illegal character in change number *num***
- Cause**    An invalid change number was supplied.
- Action**    Resubmit the command with a valid change number.
- 
- ORA-01976**    **missing change number**
- Cause**    A change number was required, but not supplied.
- Action**    Check the syntax of the command, supply a change number where needed, then retry the command.
- 
- ORA-01977**    **missing thread number**
- Cause**    The keyword THREAD was specified, but a thread number was not specified.
- Action**    Check the syntax of the command and retry it.
- 
- ORA-01978**    **missing sequence number**
- Cause**    The keyword SEQUENCE was specified, but a sequence number was not specified.
- Action**    Check the syntax of the command and retry it.

- ORA-01979**     **missing or invalid password for role *name***
- Cause**     An attempt was made to enable a role without giving the proper password.
- Action**     Use the IDENTIFIED BY clause in the SET ROLE command to specify the correct password.
- 
- ORA-01980**     **error during OS ROLE initialization**
- Cause**     An operating system error occurred while loading a user's operating system roles.
- Action**     Check the operating system error and correct it.
- 
- ORA-01981**     **CASCADE CONSTRAINTS must be specified to perform this revoke**
- Cause**     For this revoke, some foreign key constraints must be removed. To perform this automatically, CASCADE CONSTRAINTS can be specified as an option with the REVOKE command.
- Action**     Remove the constraints manually or specify CASCADE CONSTRAINTS.
- 
- ORA-01982**     **invalid auditing option for tables**
- Cause**     The AUDIT or NOAUDIT command specified either REFERENCES or EXECUTE as an option. Those options are not legal for tables.
- Action**     Do not specify those auditing options on tables.
- 
- ORA-01983**     **invalid auditing option for DEFAULT**
- Cause**     An illegal option was specified with DEFAULT.
- Action**     Do not specify the REFERENCES option with DEFAULT.
- 
- ORA-01984**     **invalid auditing option for procedures/packages/functions**
- Cause**     An illegal option was specified with DEFAULT for a procedure, package, or function.
- Action**     The only legal auditing option with a default for procedures, packages, and functions is EXECUTE. Do not specify any option other than EXECUTE.

**ORA-01985      cannot create user as LICENSE\_MAX\_USERS parameter exceeded**

**Cause**      The maximum number of database users allowed by the database license has been created.

**Action**      Either drop existing users or contact your Oracle Corporation sales representative to upgrade your site license.

**ORA-01986      invalid option for OPTIMIZER\_GOAL**

**Cause**      An invalid OPTIMIZER\_GOAL option is present.

**Action**      Check the syntax for OPTIMIZER\_GOAL, specify a valid option, and re-execute the statement.

**ORA-01987      client O/S user name is too long**

**Cause**      A client's O/S user name is too long for the O/S logon to succeed.

**Action**      Use a shorter O/S user name.

**ORA-01988      remote O/S logon is not allowed**

**Cause**      A remote O/S logon was attempted when it was not allowed.

**Action**      Use a local client or use the REMOTE\_OS\_AUTHENT initialization parameter to turn on remote O/S logon.

**ORA-01989      role *name* not authorized by operating system**

**Cause**      The specified operating system role does not exist, is not granted to you, or you did not provide the correct password.

**Action**      Retry the SET ROLE using a valid operating system role and password. See your DBA if you are not granted sufficient privileges.

**ORA-01990      error opening password file *name***

**Cause**      An attempt to open the specified password file failed because of one of the following errors:

- An operating system error occurred.
- ORAPWD is already running, so the password file is locked.
- The environment variables ORA\_*sid*\_PWFIL and ORA\_PWFIL are not set.

**Action**      Check for the above causes and correct as necessary.

**ORA-01991    invalid password file *name***

**Cause** The specified password file name is invalid.

**Action** Specify a correct password file name.

**ORA-01992    error closing password file *name***

**Cause** The password file could not be closed because of an operating system error or because an authentication action failed.

**Action** Check for the above causes and correct as necessary.

**ORA-01993    error writing password file *name***

**Cause** The password file could not be written to because of an operating system error or because an authentication action failed.

**Action** Check for the above causes and correct as necessary.

**ORA-01994    GRANT failed: cannot add users to public password file**

**Cause** A grant failed because a user could not be added to the password file. This is because the value of the REMOTE\_LOGIN\_PASSWORDFILE initialization parameter is set to PUBLIC.

**Action** To add a user to the password file, shutdown the database, change the REMOTE\_LOGIN\_PASSWORDFILE initialization parameter to PRIVATE, and restart the database.

**ORA-01995    error reading password file *name***

**Cause** An operating system error occurred when trying to read the password file.

**Action** Fix the operating system error.

**ORA-01996    GRANT failed: password file *name* is full**

**Cause** The grant failed when a user could not be added to the password file, because all available slots in it were used already.

**Action** Either recreate a larger password file or free up slots in the password file by revoking the SYSOPER and SYSDBA privileges from some of the remote users. You can determine which remote users are valid and their privileges by issuing the following query in SQL\*DBA:

```
SELECT * FROM V$REMOTE_USERS;
```



**ORA-01997 GRANT failed: user *name* is identified externally**

**Cause** You cannot grant the SYSOPER or SYSDBA privilege to a user created with the IDENTIFIED EXTERNALLY clause.

**Action** If you wish to grant s6 the user the SYSOPER or SYSDBA privileges, drop paa and recreate the user without the IDENTIFIED EXTERNALLY clause.

**ORA-01998 REVOKE failed: user SYS always SYSOPER and SYSDBA**

**Cause** You attempted to revoke one of the necessary privileges, SYSOPER or SYSDBA, from user SYS. These privileges cannot be revoked.

**Action** Do not attempt this operation.

**ORA-01999 password file mode has changed from *mode* to *mode***

**Cause** Another instance has started with the FORCE\_PASSWORD\_FILEMODE initialization parameter, which is incompatible with the startup mode of your instance.

**Action** Shut down your instance and start up later when the password file changes are completed for the other instance.

**ORA-02000 missing keyword *name***

**Cause** The statement entered requires the missing keyword.

**Action** Use the specified keyword.

**ORA-02002 user SYS is not permitted to create indexes with freelist groups**

**Cause** An attempt was made to create an index while connected as SYS.

**Action** Connect as another user and retry the command.

**ORA-02002 error while writing to audit trail**

**Cause** The auditing facility is unable to write to the AUDIT\_TRAIL table. If this error occurs, SQL statements that are currently being audited may also fail. This error will occur if the SYSTEM tablespace runs out of disk space.

**Action** Add space to the SYSTEM tablespace or delete rows from the AUDIT\_TRAIL table. If these operations fail or do not eliminate the problem, shut down and restart Oracle with auditing disabled. This is done by setting the initialization parameter AUDIT\_TRAIL to FALSE.

**ORA-02003    invalid USERENV parameter**

**Cause** An invalid parameter was specified for the USERENV function.

**Action** Specify one of the allowable parameters TERMINAL, SESSIONID, ENTRYID, or NLS\_LANG.

**ORA-02004    security violation**

**Cause** A user is attempting to perform an operation without the proper permission, and this fact is being recorded in the AUDIT\_TRAIL table. This message only appears in the AUDIT\_TRAIL table's return code column.

**Action** For auditing information only; no action required.

**ORA-02005    implicit (-1) length not valid for this bind or define datatype**

**Cause** A negative length for the define variable was passed to a define function.

**Action** An explicit, non-negative, length parameter must be passed.

**ORA-02006    invalid packed decimal format string**

**Cause** A packed decimal datatype was passed to a bind or define function, and the format string parameter was either not present or invalid.

**Action** A valid format string parameter must be passed for a packed decimal variable. Check the programming manual for the definition of a packed decimal format string.

**ORA-02007    can't use ALLOCATE or DEALLOCATE options with REBUILD**

**Cause** Allocate or deallocate storage and rebuild index are not compatible.

**Action** Choose one or the other.

For more information about ALTER INDEX in changing future storage allocation and the STORAGE clause, see the index entries on "ALTER INDEX" and on "STORAGE clause" in *Oracle7 Server SQL Reference*.

**ORA-02008    non-zero scale specified for non-numeric column**

**Cause** A scale factor was specified for a bind or define of a non-numeric variable.

**Action** Set the scale factor to zero, then retry the operation.

**ORA-02009    the file size specified for a file must not be zero**

**Cause**    A file specification included a SIZE clause with a zero value.

**Action**    If allowed, leave out the size clause or specify a valid value.

**ORA-02010    missing host connect string**

**Cause**    A quoted character string does not follow the keyword USING in the USING clause of a CREATE DATABASE LINK statement.

**Action**    Specify the host connect string, then retry the operation.

**ORA-02011    duplicate database link name**

**Cause**    The database link name specified in a CREATE DATABASE LINK statement already exists.

**Action**    Either specify a new name or drop the existing link.

**ORA-02012    missing USING keyword**

**Cause**    The keyword USING does not follow the CONNECT TO clause in a CREATE DATABASE LINK statement.

**Action**    Specify the USING clause after the CONNECT TO clause.

**ORA-02013    missing CONNECT keyword**

**Cause**    The keyword CONNECT does not follow the database link name in a CREATE DATABASE LINK statement.

**Action**    Specify the CONNECT clause after the database link name.

**ORA-02014    cannot select FOR UPDATE from view with DISTINCT, GROUP BY, etc.**

**Cause**    An attempt was made to SELECT... FOR UPDATE from a view whose defining SELECT statement uses at least one of the following constructs in its outer block: outer join, GROUP BY clause, aggregate functions, SELECT DISTINCT, CONNECT BY clause, or set operation, UNION, INTERSECT, or MINUS.

**Action**    Do not use SELECT... FOR UPDATE on this view.

**ORA-02015 cannot select FOR UPDATE from remote table**

**Cause** An attempt was made to SELECT... FOR UPDATE from a table in a remote database.

**Action** It is not currently possible to SELECT... FOR UPDATE from a table in a remote database. Instead, log in or connect directly to the remote database before entering a SELECT... FOR UPDATE on its tables.

**ORA-02016 cannot use a subquery in a START WITH on a remote database**

**Cause** An attempt was made to use a subquery in a START WITH clause. Such a subquery is not currently permitted if the table in the FROM clause of the tree query is in a remote database.

**Action** It is necessary to connect directly to the remote database before using a subquery in the START WITH clause.

**ORA-02017 integer value required**

**Cause** The specified value must be an integer.

**Action** Specify an appropriate integer value, then retry the operation.

**ORA-02018 database link of same name has an open connection**

**Cause** The user is currently connected to a PUBLIC database link with the same name as the database link name specified in a CREATE or DROP DATABASE LINK statement.

**Action** Close the cursors that use the PUBLIC database link.

**ORA-02019 connection description for remote database not found**

**Cause** The user attempted to connect or log in to a remote database using a connection description that could not be found.

**Action** Specify an existing database link. Query the data dictionary to see all existing database links. See your operating system-specific SQL\*Net documentation for valid connection descriptors.

**ORA-02020    too many database links in use**

**Cause**    The maximum number of active connections to remote databases per user login has been reached.

**Action**    If the user has no open cursors, the current SQL statement accesses more than the maximum allowed remote databases. Otherwise, the user may free remote database connections by closing all cursors that access the databases.

              If this occurs often, consider increasing the value of the initialization parameter `OPEN_LINKS`, which controls the maximum number of concurrent open connections to remote databases per user process.

**ORA-02021    DDL operations are not allowed on a remote database**

**Cause**    An attempt was made to use a DDL operation on a remote database. For example, “`CREATE TABLE tablename@remotedbname...`”.

**Action**    To alter the remote database structure, you must connect to the remote database with the appropriate privileges.

**ORA-02022    remote statement has unoptimized view with remote object**

**Cause**    The local view is unoptimized and contains references to objects at the remote database, and the statement must be executed at the remote database.

**Action**    Create a similar view on the remote database and modify the violating view in the SQL statement with the new *view@remote*.

**ORA-02023    START WITH or CONNECT BY predicate cannot be evaluated by remote database**

**Cause**    The statement contains a tree query on a remote database, and the tree query’s `START WITH` or `CONNECT BY` predicate contains a term that cannot be evaluated at the remote database. Such terms include calls to user functions, calls to `USERENV`, and references to `ROWID`.

**Action**    Remove the disallowed term, directly connect, or log on to the remote database.

**ORA-02024    database link not found**

**Cause**    The database link to be dropped is not found in the dictionary.

**Action**    Correct the database link name.

- ORA-02025**    **all tables in the SQL statement must be at the remote database**
- Cause**    A SQL statement referenced tables from multiple databases, and one or more of the remote databases are not Oracle7 Servers.
- Action**    Remote updates can be performed only if all databases in the SQL statement are Oracle7 Servers. Update the earlier version databases in a separate statement.
- ORA-02026**    **missing LINK keyword**
- Cause**    The keyword LINK is required in this context.
- Action**    Check syntax, insert keyword LINK as required, and try again.
- ORA-02027**    **multi-row UPDATE of LONG column is not supported**
- Cause**    A bind variable whose length is greater than 2000 bytes is being used to update a column, and the UPDATE statement affects more than one row.
- Action**    Check that each such bind variable updates only a single row.
- ORA-02028**    **fetching an exact number of rows is not supported by the server**
- Cause**    The server does not support UPIALL, so the fetch of an exact number of rows cannot be emulated on the user side.
- Action**    Connect to a valid server or do not use an exact fetch.
- ORA-02029**    **missing FILE keyword**
- Cause**    The keyword FILE is required in this context.
- Action**    Check syntax, insert keyword FILE as required, and try again.
- ORA-02030**    **can only select from fixed tables/views**
- Cause**    An operation other than SELECT on a fixed dynamic performance table or view was attempted. It is only possible to select from fixed tables or views.
- Action**    Remove the fixed table or view name from the SELECT statement.
- ORA-02031**    **no ROWID for fixed tables**
- Cause**    An attempt was made to select the ROWID from a fixed table.
- Action**    Do not select ROWID from a fixed table.

- ORA-02032      clustered tables cannot be used before the cluster index is built**
- Cause**      An attempt was made to perform a DML operation on a clustered table for which no cluster index has yet been created.
- Action**      Create a cluster index before referencing clustered tables in a SQL statement.
- 
- ORA-02033      a cluster index for this cluster already exists**
- Cause**      A cluster index already exists for the cluster.
- Action**      No action required.
- 
- ORA-02034      speed bind not permitted**
- Cause**      Speed bind not allowed with supplied bind variables.
- Action**      No action required.
- 
- ORA-02035      illegal bundled operation combination**
- Cause**      UPI bundled execution call was requested on an illegal combination of operations.
- Action**      Use a legal combination of operations and retry.
- 
- ORA-02036      too many variables to describe with automatic cursor open**
- Cause**      UPI-bundled execution call tried to perform automatic cursor open and close on a describe operation. There were too many SELECT list items or bind variables to do this.
- Action**      Open and close cursor explicitly.
- 
- ORA-02037      universalized speed bind storage**
- Cause**      A user attempted to perform a speed-execution call on a SQL statement containing host variables without first performing a speed-bind call.
- Action**      Perform a speed-bind call before performing a speed-execution call.
- 
- ORA-02038      define is not allowed for array type**
- Cause**      A user attempted to define a select list variable of type “array”. Arrays may serve only as host bind variables.
- Action**      Correct the offending code.

**ORA-02039    bind by value is not allowed for array type**

**Cause**    User attempted to bind an array host variable by value. Arrays may be bound only by reference.

**Action**    Correct the offending code.

---

**02040–02099: Distributed Transactions**

This section lists messages generated during distributed transactions.

**ORA-02040    remote database *name* does not support two-phase commit**

**Cause**    A distributed update of more than one database was attempted, but the named database does not support the prepare phase of the two-phase commit, as determined by its logon transaction traits. The transaction was rolled back.

**Action**    Do not attempt to update the named database, unless it is the only database updated in the transaction. Distributed updates of more than one database in a single transaction can be performed only if all databases support the two-phase commit mechanism.

**ORA-02041    client database did not begin a transaction**

**Cause**    An update occurred at a coordinated database without the coordinator beginning a distributed transaction. This may happen if a stored procedure commits and then performs updates, and the stored procedure is invoked remotely. It could also happen if an external transaction monitor violates the XA protocol.

**Action**    If the cause is the former, check that any commit is not followed by an update.

**ORA-02042    too many distributed transactions**

**Cause**    The distributed transaction table is full because too many distributed transactions are active.

**Action**    Increase the DISTRIBUTED\_TRANSACTIONS parameter in the initialization parameter file, shut down and restart Oracle, or run fewer transactions. If it is certain there are not too many concurrent distributed transactions, this may be an internal error. In this case, contact customer support. Shutting down and restarting the instance could be a work-around.



### **ORA-02043    must end current transaction before executing *command***

**Cause**    A transaction is in progress and one of the following commands is issued: COMMIT FORCE, ROLLBACK FORCE, or ALTER SYSTEM ENABLE DISTRIBUTED RECOVERY in single process mode.

**Action**    COMMIT or ROLLBACK the current transaction and retry the command.

### **ORA-02044    transaction manager login denied: transaction in progress**

**Cause**    A remote transaction manager tried to log in while a distributed transaction is in progress. A protocol error occurred in the remote transaction manager.

**Action**    End the current transaction.

### **ORA-02045    too many local sessions participating in global transactions**

**Cause**    There are too many sessions at this site to accommodate this transaction.

**Action**    Use an existing database link so that another session need not be created at the remote site.

### **ORA-02046    distributed transaction already begun**

**Cause**    This is an internal error not normally encountered. A server session received a BEGIN\_TRAN remote procedure call before finishing with a previous distributed transaction.

**Action**    Contact customer support.

### **ORA-02047    cannot join the distributed transaction in progress**

**Cause**    This can happen only when attempting to update an Oracle Version 6 and an Oracle7 database in the same transaction, because either

- A transaction is in progress against a remote database that does not support two-phase commit.
- Updates are pending and an attempt was made to update a different database that does not support two-phase commit.

**Action**    Complete the current transaction before attempting the action that caused the error.

### **ORA-02048    attempt to begin distributed transaction without logging on**

**Cause**    The client program did not issue a distributed transaction login.

**Action**    This is an internal error, contact customer support.

**ORA-02049      time-out: distributed transaction waiting for lock**

**Cause**      The time to wait on a lock in a distributed transaction has been exceeded. This time is specified in the initialization parameter `DISTRIBUTED_LOCK_TIMEOUT`.

**Action**      This situation is treated as a deadlock and the statement was rolled back. To set the time-out interval to a longer interval, adjust the initialization parameter `DISTRIBUTED_LOCK_TIMEOUT`, then shut down and restart the instance.

**ORA-02050      transaction *num* rolled back, some remote DBs may be in-doubt**

**Cause**      There was a network failure or a remote failure during the two-phase commit.

**Action**      Notify the database administrator. The remote databases will automatically resynchronize when the failure is repaired.

**ORA-02051      another session in same transaction failed**

**Cause**      A session at the same site with the same global transaction identification failed.

**Action**      No action is necessary; the transaction will automatically recover.

**ORA-02052      remote transaction failure at *name***

**Cause**      There was some error in a remote transaction at the named database link.

**Action**      More descriptive messages will follow. Correct the problem specified in the following messages and retry the operation.

**ORA-02053      transaction *num* committed, some remote DBs may be in-doubt**

**Cause**      There was a network failure or a remote failure during the two-phase commit.

**Action**      Notify the database administrator. The remote databases will resynchronize automatically when the failure is repaired.

**ORA-02054      transaction *num* in-doubt**

**Cause**      There was a network failure or a remote failure in the two-phase commit.

**Action**      Notify the database administrator. The remote databases will resynchronize automatically when the failure is repaired. Monitor the `DBA_2PC_INDOUBT` and `DBA_2PC_INCONSISTENT` tables for the outcome and resubmit the transaction, if necessary.

**ORA-02055      distributed update operation failed; rollback required**

**Cause**      A failure during a distributed update operation may not have rolled back all effects of the operation. Since some sites may be inconsistent with others, the transaction must roll back to a savepoint or roll back entirely.

**Action**      Roll back to a savepoint or roll back the entire transaction and resubmit the rolled-back statements.

**ORA-02056      2PC: *str*: bad two-phase command number *num* from *name***

**Cause**      There was a two-phase commit protocol error.

**Action**      The transaction may automatically recover. Monitor the DBA\_2PC\_INDOUBT and DBA\_2PC\_INCONSISTENT tables to determine the resolution. Enter the transaction again, if necessary. Contact customer support, if necessary.

**ORA-02057      2PC: *str*: bad two-phase recovery state number *num* from *name***

**Cause**      An internal error in the two-phase recovery protocol occurred.

**Action**      Contact customer support.

**ORA-02058      no prepared transaction found with ID *num***

**Cause**      A COMMIT FORCE was attempted on a transaction, but the transaction with LOCAL\_TRAN\_ID or GLOBAL\_TRAN\_ID was not found in the DBA\_2PC\_INDOUBT table in prepared state.

**Action**      Check the DBA\_2PC\_INDOUBT table to ensure the proper transaction ID is used and attempt the commit again.

**ORA-02059      ORA-CRASH-TEST-*n* in commit comment**

**Cause**      This is a special comment used to test the two-phase commit.

**Action**      Do not use this special comment unless working with customer support.

**ORA-02060      SELECT FOR UPDATE specified a join of non-collocated tables**

**Cause**      An attempt was made to join tables in different remote databases in a SELECT... FOR UPDATE statement.

**Action**      Joined tables in a SELECT statement with the FOR UPDATE clause must reside at the same database. Simplify the SELECT... FOR UPDATE statement so that it joins only tables in the same database.

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORA-02061</b> | <b>lock table specified list of non-collocated tables</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cause</b>     | An attempt was made to lock more than one table in different remote databases in a LOCK TABLE statement. Tables in a LOCK TABLE statement must reside at the same database.                                                                                                                                                                                                                                                                                                 |
| <b>Action</b>    | Issue multiple LOCK TABLE commands.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ORA-02062</b> | <b>distributed recovery received DBID <i>num</i>, expected <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cause</b>     | A database link at the coordinator point no longer points to the expected database. The database link may have been redefined, or a different database may have been mounted.                                                                                                                                                                                                                                                                                               |
| <b>Action</b>    | Check the database link at the coordinator point to see if it was redefined. If so, contact the database administrator for the remote database to check whether the link still references a valid database. If the link changed, recreate it to reference a valid database at the remote site.                                                                                                                                                                              |
| <b>ORA-02063</b> | <b>preceding <i>str</i> from <i>name</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cause</b>     | An Oracle error message was received from a remote database link.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Action</b>    | Refer to the preceding messages. Correct the problem mentioned in the preceding messages and try the operation again.                                                                                                                                                                                                                                                                                                                                                       |
| <b>ORA-02064</b> | <b>iterated or long remote update with subquery not supported</b>                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cause</b>     | One of the following unsupported operations was attempted: <ul style="list-style-type: none"> <li>• an array execute of a remote update with a subquery that references a database link</li> <li>• an update of a long column with bind variable and an update of a second column with a subquery that references both a database link and a bind variable</li> <li>• a commit in a coordinated session issued from a remote procedural call with OUT parameters</li> </ul> |
| <b>Action</b>    | Simplify the remote update statement.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ORA-02065</b> | <b>illegal option for ALTER SYSTEM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cause</b>     | The option specified for ALTER SYSTEM is not supported.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Action</b>    | Refer to <i>Oracle7 Server SQL Reference</i> for the proper syntax of the ALTER SYSTEM command.                                                                                                                                                                                                                                                                                                                                                                             |

**ORA-02066      missing or invalid MTS\_DISPATCHERS text**

**Cause**      A character string literal was expected, but not found, in the ALTER SYSTEM SET MTS\_DISPATCHERS command.

**Action**      Place the string literal containing the dispatcher's specification in the ALTER SYSTEM SET MTS\_DISPATCHERS command.

**ORA-02067      transaction or savepoint rollback required**

**Cause**      A failure occurred, probably in a trigger or stored procedure with multiple remote updates. Some sites in the transaction may be inconsistent, so the previous Oracle call cannot be executed, and the transaction cannot be committed.

**Action**      Roll back to a previous savepoint or to the beginning of the transaction. Then resubmit the rolled-back statements.

**ORA-02068      following severe error from *name***

**Cause**      A severe error, a disconnect or fatal Oracle error, was received from the given database link. See the accompanying messages for a more detailed description of the problem.

**Action**      Contact the remote system administrator to determine the cause of the remote problem and the estimated time of the problem's resolution.

**ORA-02069      global\_names parameter must be set to TRUE for this operation**

**Cause**      A remote mapping of the statement is required but cannot be done because the parameter GLOBAL\_NAMES is not set to TRUE.

**Action**      Issue the statement ALTER SESSION SET GLOBAL\_NAMES = TRUE, if possible.

**ORA-02070      database "*name*" does not support capability *name* in this context**

**Cause**      The remote database does not support the named capability in the context in which it was used.

**Action**      Simplify the SQL statement.

**ORA-02071      error initializing capabilities for remote database name**

**Cause**      Oracle could not load the capability table from the named remote database.

**Action**      Contact customer support concerning the remote SQL\*Connect product.

|                  |                                                                                                                                                                                                                                                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORA-02073</b> | <b>sequence numbers not supported in remote updates</b>                                                                                                                                                                                                                   |
| <b>Cause</b>     | Sequence numbers may not be used in INSERTS, UPDATES, or DELETES on remote tables.                                                                                                                                                                                        |
| <b>Action</b>    | Perform the operation without specifying a sequence number.                                                                                                                                                                                                               |
| <b>ORA-02074</b> | <b>cannot COMMIT or ROLLBACK in a distributed transaction</b>                                                                                                                                                                                                             |
| <b>Cause</b>     | A COMMIT or ROLLBACK was attempted from a session other than the parent of a distributed transaction.                                                                                                                                                                     |
| <b>Action</b>    | Only the parent session can issue a COMMIT or ROLLBACK.                                                                                                                                                                                                                   |
| <b>ORA-02076</b> | <b>sequence not co-located with updated or long column</b>                                                                                                                                                                                                                |
| <b>Cause</b>     | All referenced sequences must be located on the same node as the updated table or the long column.                                                                                                                                                                        |
| <b>Action</b>    | Correct the problem and then reissue the statement.                                                                                                                                                                                                                       |
| <b>ORA-02077</b> | <b>selects of long columns must be from co-located tables</b>                                                                                                                                                                                                             |
| <b>Cause</b>     | All tables returning values of long columns in a SELECT statement must be located at the same node.                                                                                                                                                                       |
| <b>Action</b>    | Correct the problem, then reissue the statement.                                                                                                                                                                                                                          |
| <b>ORA-02078</b> | <b>invalid setting for ALTER SYSTEM FIXED_DATE</b>                                                                                                                                                                                                                        |
| <b>Cause</b>     | An invalid value was used.                                                                                                                                                                                                                                                |
| <b>Action</b>    | Use a correct value.                                                                                                                                                                                                                                                      |
| <b>ORA-02079</b> | <b>no new sessions may join a committing distributed transaction</b>                                                                                                                                                                                                      |
| <b>Cause</b>     | A call to UPI2BG was issued in a session for a transaction that has begun to commit in a different branch. That is, a call to UPI2EN was issued for a branch of the same transaction in another session. This can only happen when using an external transaction manager. |
| <b>Action</b>    | Contact customer support.                                                                                                                                                                                                                                                 |
| <b>ORA-02080</b> | <b>database link is in use</b>                                                                                                                                                                                                                                            |
| <b>Cause</b>     | A transaction is active or a cursor is open on the database link.                                                                                                                                                                                                         |
| <b>Action</b>    | Before closing a database link, you must first close all cursors and then end all transactions that use it.                                                                                                                                                               |

**ORA-02081      database link is not open**

**Cause**      An attempt was made to use a database link that is not currently open.

**Action**      Resolve network problems or contact the remote database administrator to determine if the remote database's problem has been fixed. Contact the local database administrator to determine if network problems have been resolved. Wait until the link is open and try the operation again.

**ORA-02082      a loop-back database link must have a connection qualifier**

**Cause**      An attempt was made to create a database link with the same name as the current database.

**Action**      This database link needs a trailing qualifier to make the name unique. These qualifiers are operating system-specific. See your operating system-specific Oracle documentation for more information about creating database links.

**ORA-02083      database name has illegal character *str***

**Cause**      The database name supplied contains an invalid character. For example, there can be no periods, semicolons, single quotes, double quotes, blanks, or non-printable characters in the database name. See *Oracle7 Server Reference* for naming rules.

**Action**      Specify a valid database name.

**ORA-02084      database name is missing a component**

**Cause**      The complete database name was not given

**Action**      Specify the full database name.

**ORA-02085      database link *name* connects to *name***

**Cause**      The database link attempted to connect to a database with a different name. The name of the database link must be the same name as the name of the database.

**Action**      Create a database link with the same name as the database to which it connects.

**ORA-02086      database link name is too long**

**Cause**      The name of the database or database link is too long. Database and database link names can be no longer than 128 characters.

**Action**      Specify the correct database or database link name or specify a name with fewer characters.

**ORA-02087      object locked by another process in same transaction**

- Cause** In a Parallel Server environment, a database link that loops back to the same instance is being used, and one session is trying to convert a lock that was obtained by the other session.
- Action** Obtain a more restrictive lock first. For example if session 1 needs a SHARE lock, and session 2 needs an EXCLUSIVE lock, make sure that the EXCLUSIVE lock is obtained first. Otherwise, use the same session to access the object.

**ORA-02088      distributed database option not installed**

- Cause** The distributed database option is not installed at this site, so the requested operation is not possible.
- Action** Contact Oracle Corporation about obtaining the distributed database option.

**ORA-02089      COMMIT is not allowed in a subordinate session**

- Cause** COMMIT was issued in a session that is not the two-phase commit global coordinator.
- Action** Issue commits only at the global coordinator.

**ORA-02091      transaction rolled back**

- Cause** The distributed transaction is assigned to the system rollback segment and is trying to get into the prepared state, but the required number of non-PREPARED slots are not available, so the transaction is rolled back.
- If the transaction aborted at a remote site, only ORA-02091 will be seen. If the transaction aborted at the host site, then both ORA-02091 and ORA-02092 will be seen.
- Action** Complete the current transaction and then do the operation required.

**ORA-02092      out of transaction table slots for distributed transaction**

- Cause** The distributed transaction is assigned to the system rollback segment and is trying to get into the prepared state, but the required number of non-PREPARED slots are not available, so the transaction is rolled back.
- If the transaction aborted at a remote site, only ORA-02091 will be seen. If the transaction aborted at the host site, then both ORA-2091 and ORA-2092 will be seen.
- Cause** Add a rollback segment and do the operation again.



**ORA-02093      TRANSACTIONS\_PER\_ROLLBACK\_SEGMENT *name* more than maximum possible.**

**Cause**      The value of the initialization parameter specified is greater than allowed on this port.

**Action**      Use the default value or reduce it to less than the maximum.

**ORA-02094      replication option not installed**

**Cause**      The replication option was not installed at this site. Updatable snapshots, deferred remote procedure calls, and other replication features were, therefore, unavailable.

**Action**      Install the replication option. The replication option is not part of the Oracle7 Server product and must be purchased separately. Contact an Oracle sales representative if the replication option needs to be purchased.

**ORA-02095      specified initialization parameter cannot be modified**

**Cause**      Specified initialization parameter is not modifiable with this option.

**Action**      Check the DBA guide for information about under what scope the parameter may be modified.

For more information about modifying an initialization parameter, see the index entry on “initialization parameters, altering” in *Oracle7 Server SQL Reference*.

**ORA-02096      specified initialization parameter is not modifiable with this option**

**Cause**      Though the initialization parameter is modifiable, it cannot be modified using the specified command.

**Action**      Check the DBA guide for information about under what scope the parameter may be modified.

For more information about modifying an initialization parameter, see the index entry on “initialization parameters, altering” in *Oracle7 Server SQL Reference*.

**ORA-02098      error parsing index-table reference (:I)**

**Cause**      An incorrect index-table (:I) syntax was encountered.

**Action**      This syntax is for Oracle internal use only.

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**02100–02139: Precompiler Runtime SQLLIB**

The messages in this range have the same cause and action as listed in Chapter NO TAG. For example, ORA–2100 is the same as SQL–2100.

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**02140–02299: SQL Parsing**

This section lists some of the messages generated when SQL statements are parsed by the Oracle Server.

**ORA–02140    invalid tablespace name**

**Cause**    A valid tablespace name does not follow ALTER TABLESPACE.

**Action**    Specify a valid tablespace name following ALTER TABLESPACE.

**ORA–02141    invalid OFFLINE option**

**Cause**    An option other than NORMAL or IMMEDIATE follows OFFLINE in an ALTER TABLESPACE statement.

**Action**    The user must either specify no option following OFFLINE or one of these options: NORMAL or IMMEDIATE.

**ORA–02142    missing or invalid ALTER TABLESPACE option**

**Cause**    An invalid option was specified after ALTER TABLESPACE.

**Action**    Use one of the valid options, such as ADD DATAFILE, RENAME DATAFILE, DEFAULT STORAGE, ONLINE, OFFLINE, BEGIN BACKUP, or END BACKUP.

**ORA–02143    invalid STORAGE option**

**Cause**    An option other than INITIAL, NEXT, MINEXTENTS, MAXEXTENTS, FREELISTS, FREELIST GROUPS, or PCTINCREASE was specified in an ALTER INDEX statement or in the USING INDEX clause of an ALTER SNAPSHOT statement.

**Action**    Check syntax, specify only valid options, and try again.

**ORA–02144    no option specified for ALTER CLUSTER**

**Cause**    No valid ALTER CLUSTER options were specified.

**Action**    Specify one or more valid options, such as PCTFREE, PCTUSED, SIZE, INITRANS, MAXTRANS, or STORAGE.

**ORA–02145    missing STORAGE option**

**Cause**    No STORAGE options were specified following the keyword STORAGE.

**Action**    Check syntax, specify one or more valid STORAGE options, and try again.

**ORA–02146    SHARED specified multiple times**

**Cause**    The SHARED option was specified more than once in a CREATE DATABASE statement.

**Action**    Only specify the SHARED option once.

**ORA–02147    conflicting SHARED/EXCLUSIVE options**

**Cause**    Both the SHARED and EXCLUSIVE options were specified in a CREATE DATABASE statement.

**Action**    Specify SHARED or EXCLUSIVE, but not both.

**ORA–02148    EXCLUSIVE specified multiple times**

**Cause**    The EXCLUSIVE option was specified in a CREATE DATABASE statement more than once.

**Action**    Only specify the EXCLUSIVE option once.

**ORA–02155    invalid DEFAULT tablespace identifier**

**Cause**    A valid tablespace name does not follow DEFAULT TABLESPACE.

**Action**    Place a valid tablespace name after DEFAULT TABLESPACE and try again.

**ORA–02156    invalid TEMPORARY tablespace identifier**

**Cause**    A valid tablespace name does not follow TEMPORARY TABLESPACE.

**Action**    Place a valid tablespace name after TEMPORARY TABLESPACE and try again.

**ORA-02157 no options specified for ALTER USER**

**Cause** No options were specified.

**Action** Specify at least one ALTER USER option and try again.

**ORA-02158 invalid CREATE INDEX option**

**Cause** An option other than PCTFREE, INITRANS, MAXTRANS, NOSORT, STORAGE, or TABLESPACE was specified.

**Action** Specify one of the valid CREATE INDEX options and try again.

**ORA-02159 installed DLM does not support releasable locking mode**

**Cause** The parameter file specified GC\_\*PARAMETERS that allow locks to be released by the LCK process when not in use. This mode required additional support in DLM that was not available.

**Action** Specify configuration parameters that do not require the additional function.

For more information about the distributed lock manager(DLM), see the index entry on “LCK” in *Oracle7 Server Concepts* and the index entries on “distributed lock manager” and on “distributed lock manager, LCKn process” in *Oracle7 Parallel Server Concepts & Administration*.

**ORA-02161 invalid value for MAXLOGFILES**

**Cause** A number does not follow MAXLOGFILES.

**Action** Specify a number after MAXLOGFILES and try again.

**ORA-02162 invalid value for MAXDATAFILES**

**Cause** A number does not follow MAXDATAFILES.

**Action** Specify a number after MAXDATAFILES and try again.

**ORA-02163 invalid value for FREELIST GROUPS**

**Cause** A number does not follow FREELIST GROUPS.

**Action** Specify a number after FREELIST GROUPS and try again.

**ORA-02164 DATAFILE clause specified more than once**

**Cause** The CREATE DATABASE statement contains more than one DATAFILE clause.

**Action** Specify at most one DATAFILE clause and try again.

**ORA-02165    invalid option for CREATE DATABASE**

**Cause**    An invalid CREATE DATABASE option is present.

**Action**    Specify only valid CREATE DATABASE options and try again.

**ORA-02166    ARCHIVELOG and NOARCHIVELOG specified**

**Cause**    Both ARCHIVELOG and NOARCHIVELOG are specified in a CREATE DATABASE statement.

**Action**    Specify either of these two options, but not both, and try again.

**ORA-02167    LOGFILE clause specified more than once**

**Cause**    The CREATE DATABASE statement contains more than one LOGFILE clause.

**Action**    Specify at most one LOGFILE clause and try again.

**ORA-02168    invalid value for FREELISTS**

**Cause**    A number does not follow the FREELISTS storage option of the CREATE TABLE or CREATE INDEX statement.

**Action**    Specify a number after FREELISTS and try again.

**ORA-02169    FREELISTS storage option not allowed**

**Cause**    An attempt was made to specify the FREELISTS storage option when performing an operation other than CREATE TABLE or CREATE INDEX.

**Action**    Check the syntax of the statement, remove this option, then re-execute the statement.

**ORA-02170    FREELIST GROUPS storage option not allowed**

**Cause**    An attempt was made to specify the FREELIST GROUPS storage option. This option may be specified only when using the CREATE TABLE command and when the ALLOW\_FREELIST\_GROUPS parameter is specified in the initialization parameter file.

**Action**    Retry the statement without the FREELIST GROUPS storage option or set the ALLOW\_FREELIST\_GROUPS parameter in the initialization parameter file.

**ORA-02171    invalid value for MAXLOGHISTORY**

**Cause**    A number does not follow MAXLOGHISTORY.

**Action**    Specify a number after MAXLOGHISTORY.

**ORA-02172    the PUBLIC keyword is not appropriate for a disable thread**

**Cause**    The PUBLIC keyword was specified when disabling a thread.

**Action**    Check the syntax of the command and retry.

**ORA-02173    invalid option for DROP TABLESPACE**

**Cause**    Something other than INCLUDING CONTENTS was found following the tablespace name, or text other than CASCADE CONSTRAINTS was found following INCLUDING CONTENTS.

**Action**    Place either nothing or only INCLUDING CONTENTS after the tablespace name, or place either nothing or only CASCADE CONSTRAINTS after INCLUDING CONTENTS and try again.

**ORA-02174    missing required thread number**

**Cause**    A thread number must be specified after THREAD keyword.

**Action**    Use correct syntax.

**ORA-02175    invalid rollback segment name**

**Cause**    In the CREATE or DROP ROLLBACK SEGMENT statements, a valid rollback segment name does not follow ROLLBACK SEGMENT.

**Action**    Place a valid rollback segment name after ROLLBACK SEGMENT and try again.

**ORA-02176    invalid option for CREATE ROLLBACK SEGMENT**

**Cause**    An invalid option was specified in a CREATE ROLLBACK SEGMENT statement.

**Action**    Specify one of the valid options, TABLESPACE or STORAGE, and try again.

**ORA-02177    missing required group number**

**Cause**    A group number must be specified after GROUP keyword.

**Action**    Check the syntax of the command, specify a group number after GROUP, and retry it.

**ORA-02178    correct syntax is: SET TRANSACTION READ { ONLY | WRITE }**

**Cause**    There is a syntax error in the user's statement.

**Action**    Correct the syntax as indicated and try again.

**ORA-02179      valid options: ISOLATION LEVEL {SERIALIZABLE | READ COMMITTED}**

**Cause**      There was a syntax error in the user's statement.

**Action**      Correct the syntax as indicated.

**ORA-02180      invalid option for CREATE TABLESPACE**

**Cause**      An invalid option follows CREATE TABLESPACE.

**Action**      Specify one of the valid options: DATAFILE, DEFAULT STORAGE, ONLINE, or OFFLINE, and try again.

**ORA-02181      invalid option to ROLLBACK WORK**

**Cause**      A word other than TO follows ROLLBACK [WORK].

**Action**      Place either nothing or TO SAVEPOINT after ROLLBACK [WORK] and try again.

**ORA-02182      savepoint name expected**

**Cause**      A valid savepoint name does not follow ROLLBACK [WORK] TO [SAVEPOINT].

**Action**      Place a savepoint name following TO [SAVEPOINT] and try again.

**ORA-02183      valid options: ISOLATION\_LEVEL {SERIALIZABLE | READ COMMITTED}**

**Cause**      There was a syntax error in the user's statement.

**Action**      Correct the syntax as indicated.

**ORA-02184      resource quotas are not allowed in REVOKE**

**Cause**      In a revoke statement, a resource quota was specified.

**Action**      Specify the resource privilege without the quota and try again.

**ORA-02185      a token other than WORK follows COMMIT**

**Cause**      A token other than WORK follows COMMIT.

**Action**      Place either nothing or WORK after COMMIT and try again.

- ORA-02186    tablespace resource privilege may not appear with other privileges**
- Cause** An attempt was made to grant or revoke a resource quota in the same statement in which other privileges are granted or revoked.
- Action** Use a separate GRANT or REVOKE statement for the resource quota privilege and try again.
- 
- ORA-02187    invalid quota specification**
- Cause** In a GRANT or REVOKE statement, an attempt was made to grant a tablespace quota above the upper limit.
- Action** Grant a smaller tablespace quota and try again.
- 
- ORA-02189    required clause: ON <tablespace>**
- Cause** The GRANT or REVOKE statement specifying a tablespace quota requires the ON tablespace clause.
- Action** Correct the syntax and try again.
- 
- ORA-02190    keyword TABLES expected**
- Cause** The keyword TABLES is expected following DROP CLUSTER *cluster name* INCLUDING.
- Action** Place the keyword TABLES after INCLUDING and try again.
- 
- ORA-02191    correct syntax is: SET TRANSACTION USE ROLLBACK SEGMENT name**
- Cause** There is a syntax error in the SET TRANSACTION statement.
- Action** Correct the syntax error and retry the statement.
- 
- ORA-02192    PCTINCREASE not allowed for rollback segment storage clauses**
- Cause** The storage parameter PCTINCREASE was specified in a CREATE or ALTER ROLLBACK SEGMENT command.
- Action** Retry the command without the PCTINCREASE clause.
- 
- ORA-02194    event specification syntax error *num* minor error *num* near *name***
- Cause** There is a syntax error in an event specification.
- Action** Check syntax and spelling and try again.



**ORA-02195 attempt to create *name* object in a *name* tablespace**

**Cause** The object type was inconsistent with tablespace contents.

**Action** Create the object in a different tablespace, or change the user defaults.

For more information about auditing schema objects, see the index entry on “AUDIT command” in *Oracle7 Server SQL Reference*.

**ORA-02196 PERMANENT/TEMPORARY option already specified**

**Cause** In CREATE TABLESPACE, the PERMANENT and/or TEMPORARY options were specified more than once.

**Action** Specify at least one of REBUILD, INITRANS, MAXTRANS, or STORAGE.

For more information about the parameters of CREATE TABLESPACE, see the index entry on “CREATE TABLESPACE” in *Oracle7 Server SQL Reference*.

**ORA-02197 file list already specified**

**Cause** In a CREATE TABLESPACE statement, more than one DATAFILE clause was specified.

**Action** Merge the DATAFILE clauses into a single clause specifying multiple files and try again.

**ORA-02198 ONLINE/OFFLINE option already specified**

**Cause** In a CREATE TABLESPACE statement, the ONLINE and/or OFFLINE options were specified more than once.

**Action** Specify either ONLINE or OFFLINE, but not both, and try again.

**ORA-02199 missing DATAFILE clause**

**Cause** A CREATE TABLESPACE statement has no DATAFILE clause.

**Action** Specify the missing DATAFILE clause and try again.

**ORA-02200 WITH GRANT OPTION not allowed for PUBLIC**

**Cause** An attempt was made to GRANT to PUBLIC WITH GRANT OPTION.

**Action** Remove either the PUBLIC or the WITH GRANT OPTION clause and try again.

**ORA-02201      sequence not allowed here**

**Cause** An attempt was made to reference a sequence in a FROM list. This is not permitted. A sequence can only be referenced in a SELECT list.

**Action** Check the statement syntax, correct the reference, and try again.

**ORA-02202      no more tables permitted in this cluster**

**Cause** An attempt was made to create a table in a cluster that already contains 32 tables. No more than 32 tables may be stored in a cluster.

**Action** Do not try to cluster more than 32 tables.

**ORA-02203      INITIAL storage options not allowed**

**Cause** The user attempted to alter the INITIAL storage option of a table, cluster, index, or rollback segment. This option may be specified only when the object is created.

**Action** Remove the INITIAL option and try again.

**ORA-02204      ALTER, INDEX, REFERENCE, and EXECUTE not allowed for views**

**Cause** An attempt was made to grant or revoke an invalid privilege on a view.

**Action** Do not attempt to grant or revoke the privileges ALTER, INDEX, or REFERENCES on views.

**ORA-02205      only SELECT and ALTER privileges are valid for sequences**

**Cause** An attempt was made to grant or revoke an invalid privilege on a sequence.

**Action** Do not attempt to grant or revoke the privileges DELETE, INDEX, INSERT, UPDATE, REFERENCES, or EXECUTE on sequences.

**ORA-02206      duplicate INITRANS option specification**

**Cause** INITRANS is specified more than once.

**Action** Specify INITRANS only once and try again.

**ORA-02207      invalid INITRANS option value**

**Cause** The INITRANS value is not an integer between 2 and 255, or it is not less than or equal to the MAXTRANS value.

**Action** Specify a valid INITRANS value and try again.

**ORA–02208     duplicate MAXTRANS option specification**

**Cause**     The MAXTRANS option is specified more than once.

**Action**     Specify MAXTRANS only once and try again.

**ORA–02209     invalid MAXTRANS option value**

**Cause**     The MAXTRANS value is not an integer between 2 and 255, or it is not greater than or equal to the INITRANS value.

**Action**     Specify a valid MAXTRANS value and try again.

**ORA–02210     no options specified for ALTER TABLE**

**Cause**     No ALTER TABLE option was specified.

**Action**     Specify at least one ALTER TABLE option and try again.

**ORA–02211     invalid value for PCTFREE or PCTUSED**

**Cause**     The specified value for PCTFREE or PCTUSED is not an integer between 0 and 100.

**Action**     Specify an appropriate value for the option and try again.

**ORA–02212     duplicate PCTFREE option specification**

**Cause**     The PCTFREE option was specified more than once.

**Action**     Specify the PCTFREE option only once and try again.

**ORA–02213     duplicate PCTUSED option specification**

**Cause**     The PCTUSED option was specified more than once.

**Action**     Specify the PCTUSED option only once and try again.

**ORA–02214     duplicate BACKUP option specification**

**Cause**     The BACKUP option to ALTER TABLE was specified more than once.

**Action**     Specify the BACKUP option only once and try again.

**ORA-02215 duplicate tablespace name clause**

**Cause** There is more than one TABLESPACE clause in one of the following statements: GRANT/REVOKE RESOURCE, CREATE TABLE, CREATE INDEX, CREATE/DROP TABLESPACE, CREATE CLUSTER, and CREATE ROLLBACK SEGMENT.

**Action** Check the statement syntax, specify only one TABLESPACE clause, and try again.

**ORA-02216 tablespace name expected**

**Cause** A valid tablespace name is not present where required in one of the following statements: CREATE TABLE, CREATE INDEX, CREATE/DROP TABLESPACE, CREATE CLUSTER, and CREATE ROLLBACK SEGMENT.

**Action** Check the statement syntax, specify a valid tablespace name where required, and try again.

**ORA-02217 duplicate storage option specification**

**Cause** A storage option, such as INITIAL, NEXT, MINEXTENTS, MAXEXTENTS, or PCTINCREASE, was specified more than once.

**Action** Specify storage options only once and try again.

**ORA-02218 invalid INITIAL storage option value**

**Cause** The specified value must be an integer.

**Action** Specify an appropriate integer value and try again.

**ORA-02219 invalid NEXT storage option value**

**Cause** The specified value must be an integer.

**Action** Specify an appropriate integer value and try again.

**ORA-02220 invalid MINEXTENTS storage option value**

**Cause** The specified value must be a positive integer that is less than or equal to MAXEXTENTS.

**Action** Specify an appropriate integer value and try again.

**ORA-02221    invalid MAXEXTENTS storage option value**

**Cause**    The specified value must be a positive integer greater than or equal to MINEXTENTS.

**Action**    Specify an appropriate integer value and try again.

**ORA-02222    invalid PCTINCREASE storage option value**

**Cause**    The specified value must be a positive integer.

**Action**    Specify an appropriate integer value and try again.

**ORA-02223    invalid OPTIMAL storage option value**

**Cause**    The specified value must be an integer.

**Action**    Chose an appropriate integer value for the OPTIMAL storage option.

**ORA-02224    EXECUTE privilege not allowed for tables**

**Cause**    An attempt was made to GRANT or REVOKE an invalid privilege on a table.

**Action**    Do not attempt to GRANT or REVOKE the EXECUTE privilege on tables.

**ORA-02225    only EXECUTE privilege is valid for procedures**

**Cause**    An attempt was made to GRANT or REVOKE an invalid privilege on a procedure, function, or package.

**Action**    Do not attempt to GRANT or REVOKE any privilege other than EXECUTE on procedures, functions, or packages.

**ORA-02226    invalid MAXEXTENTS value max allowed: *num***

**Cause**    The value specified for MAXEXTENTS is too large for the database block.

**Action**    Specify a value for MAXEXTENTS that is smaller than the number given in the message.

**ORA-02227    invalid cluster name**

**Cause**    A cluster name was not properly formed.

**Action**    Check the rules for forming object names and enter an appropriate cluster name.

**ORA-02228 duplicate SIZE specification**

**Cause** The SIZE option is specified more than once.

**Action** Specify the SIZE option only once and try again.

**ORA-02229 invalid SIZE option value**

**Cause** The specified value must be an integer number of bytes.

**Action** Specify an appropriate integer value and try again.

**ORA-02230 invalid ALTER CLUSTER option**

**Cause** An option other than PCTFREE, PCTUSED, INITRANS, MAXTRANS, STORAGE, or SIZE was specified in an ALTER CLUSTER statement.

**Action** Specify only valid options in the ALTER CLUSTER statement and try again.

**ORA-02231 missing or invalid option to ALTER DATABASE**

**Cause** An invalid option was specified in the statement.

**Action** Check the syntax of the ALTER DATABASE command. Specify only valid options in the ALTER DATABASE statement and try again.

**ORA-02232 invalid MOUNT mode**

**Cause** A mode other than SHARED or EXCLUSIVE follows the keyword MOUNT in an ALTER DATABASE statement.

**Action** Specify either SHARED, EXCLUSIVE, or nothing following the keyword MOUNT in the ALTER DATABASE statement and try again.

**ORA-02233 invalid CLOSE mode**

**Cause** A mode other than NORMAL or IMMEDIATE follows the keyword CLOSE in an ALTER DATABASE statement.

**Action** Specify either NORMAL, IMMEDIATE, or nothing following the keyword CLOSE in the ALTER DATABASE statement and try again.

**ORA-02236 invalid filename**

**Cause** In a LOGFILE, DATAFILE, or RENAME clause, a character string literal was expected, but not found, in a filename list.

**Action** Specify filenames using character string literals and try again.

**ORA–02237    invalid file size**

**Cause**    An integer file size does not follow SIZE in a LOGFILE or DATAFILE file list.

**Action**    Specify an appropriate file size following the keyword SIZE and try again.

**ORA–02238    filename lists have different numbers of files**

**Cause**    In a RENAME clause in ALTER DATABASE or TABLESPACE, the number of existing filenames does not equal the number of new filenames.

**Action**    Make sure a new filename corresponds to each existing filename and try again.

**ORA–02239    there are objects that reference this sequence**

**Cause**    The sequence to be dropped is still referenced by other objects.

**Action**    Make sure the sequence name is correct or drop the constraint or object that references the sequence.

**ORA–02240    invalid value for OBJNO or TABNO**

**Cause**    A number does not follow OBJNO or TABNO.

**Action**    Specify a number after OBJNO or TABNO.

**ORA–02241    must be of form EXTENTS FILE *num* BLOCK *num* SIZE *num*, ...**

**Cause**    There was an error in the extent storage clause.

**Action**    Respecify the storage clause using the correct syntax and retry the command.

**ORA–02242    no options specified for ALTER INDEX**

**Cause**    No options were specified after ALTER INDEX.

**Action**    Specify the INITRANS, MAXTRANS, or STORAGE option in the ALTER INDEX statement and try again.

**ORA–02243    invalid ALTER INDEX or ALTER SNAPSHOT option**

**Cause**    An option other than INITRANS, MAXTRANS, or STORAGE was specified in an ALTER INDEX statement or in the USING INDEX clause of an ALTER SNAPSHOT statement.

**Action**    Specify only valid options and try again.

**ORA-02244    invalid ALTER ROLLBACK SEGMENT option**

**Cause**    An option other than STORAGE was found.

**Action**    Specify the STORAGE option and try again.

**ORA-02245    invalid ROLLBACK SEGMENT name**

**Cause**    A rollback segment name was expected, but not found, following ALTER [PUBLIC] ROLLBACK SEGMENT.

**Action**    Place a rollback segment name after SEGMENT and try again.

**ORA-02246    missing EVENTS text**

**Cause**    A character string literal was expected, but not found, following the ALTER SESSION SET EVENTS command.

**Action**    Place the string literal containing the EVENTS text after the keyword EVENTS and try again.

**ORA-02247    no option specified for ALTER SESSION**

**Cause**    The option SET EVENTS was expected, but not found, following the ALTER SESSION command.

**Action**    Place the SET EVENTS option after the ALTER SESSION command and try again.

**ORA-02248    invalid option for ALTER SESSION**

**Cause**    An option other than SET EVENTS was found following the ALTER SESSION command.

**Action**    Specify the SET EVENTS option after the ALTER SESSION command and try again.

**ORA-02249    missing or invalid value for MAXLOGMEMBERS**

**Cause**    A valid number does not follow MAXLOGMEMBERS. The value specified must be between 1 and the operating system-specific maximum number of log file members.

**Action**    Specify a valid number after MAXLOGMEMBERS.



**ORA-02250     missing or invalid constraint name**

**Cause**     The constraint name is missing or invalid.

**Action**     Specify a valid constraint name and try again.

**ORA-02251     subquery not allowed here**

**Cause**     A subquery is not allowed at this point in the statement.

**Action**     Remove or relocate the subquery and try again.

**ORA-02252     check constraint condition not properly ended**

**Cause**     The specified search condition for the check constraint is not properly ended.

**Action**     Check and correct the search condition's syntax. Then retry the operation.

**ORA-02253     constraint specification not allowed here**

**Cause**     A constraint specification is not allowed at this point in the statement.

**Action**     Remove or relocate the constraint specification and try again.

**ORA-02254     DEFAULT <expression> not allowed here**

**Cause**     A default-value expression is not allowed for the column at this point in the statement.

**Action**     Remove or relocate the default-value expression and try again.

**ORA-02255     NOT NULL not allowed after DEFAULT NULL**

**Cause**     A NOT NULL specification conflicts with the NULL default value.

**Action**     Remove either the NOT NULL or the DEFAULT NULL specification and try again.

**ORA-02256     number, type, and size of referencing columns must match  
referenced columns**

**Cause**     The number of columns in the foreign-key referencing list is not equal to the number of columns in the referenced list, or the datatype or size of at least one referencing column is not equal to the datatype or size of its referenced column.

**Action**     Ensure that the referencing columns match the referenced columns.

|                  |                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORA-02257</b> | <b>maximum number of columns exceeded</b>                                                                                                                     |
| <b>Cause</b>     | The number of columns in the key list exceeds the maximum number.                                                                                             |
| <b>Action</b>    | Reduce the number of columns in the list.                                                                                                                     |
| <b>ORA-02258</b> | <b>duplicate or conflicting NULL and/or NOT NULL specifications</b>                                                                                           |
| <b>Cause</b>     | A duplicate or conflicting NULL and/or NOT NULL was specified.                                                                                                |
| <b>Action</b>    | Remove one of the conflicting specifications and try again.                                                                                                   |
| <b>ORA-02259</b> | <b>duplicate UNIQUE/PRIMARY KEY specifications</b>                                                                                                            |
| <b>Cause</b>     | A duplicate unique or primary key was specified.                                                                                                              |
| <b>Action</b>    | Remove the duplicate specification and try again.                                                                                                             |
| <b>ORA-02260</b> | <b>table can have only one primary key</b>                                                                                                                    |
| <b>Cause</b>     | Two or more primary keys were specified for the same table.                                                                                                   |
| <b>Action</b>    | Remove the extra primary keys and try again.                                                                                                                  |
| <b>ORA-02261</b> | <b>such unique or primary key already exists in the table</b>                                                                                                 |
| <b>Cause</b>     | A unique or primary key was specified that already exists for the table.                                                                                      |
| <b>Action</b>    | Remove the extra key and try again.                                                                                                                           |
| <b>ORA-02262</b> | <b>ORA-<i>num</i> occurs while type-checking column default value expression</b>                                                                              |
| <b>Cause</b>     | An attempt to alter a column's datatype caused a type-checking error because the new datatype conflicted with the existing column's default value expression. |
| <b>Action</b>    | Remove the default value expression or do not alter the column's datatype, and try again.                                                                     |
| <b>ORA-02263</b> | <b>need to specify the datatype for this column</b>                                                                                                           |
| <b>Cause</b>     | The required datatype for the column is missing.                                                                                                              |
| <b>Action</b>    | Specify the required datatype and try again.                                                                                                                  |
| <b>ORA-02264</b> | <b><i>name</i> already used by an existing constraint</b>                                                                                                     |
| <b>Cause</b>     | The specified constraint name is not unique.                                                                                                                  |
| <b>Action</b>    | Specify a unique constraint name for the constraint and try again.                                                                                            |

**ORA–02265 cannot derive the datatype of the referencing column**

**Cause** The datatype of the referenced column is not defined as yet.

**Action** Make sure that the datatype of the referenced column is defined before referencing it.

**ORA–02266 unique/primary keys in table referenced by enabled foreign keys**

**Cause** An attempt was made to drop or truncate a table with unique or primary keys referenced by foreign keys enabled in another table.

**Action** Before dropping or truncating the table, disable the foreign key constraints in other tables. You can see what constraints are referencing a table by issuing the following command:

```
SELECT * FROM USER_CONSTRAINTS WHERE TABLE_NAME = "tabnam";
```

**ORA–02267 column type incompatible with referenced column type**

**Cause** An attempt was made to perform an operation on a pair of columns with incompatible datatypes.

**Action** Specify a compatible datatype for the referencing column.

**ORA–02268 referenced table does not have a primary key**

**Cause** The referenced table does not have a primary key.

**Action** Do not attempt to reference the table using a unique key, or create a unique key for the table.

**ORA–02269 key column cannot be of LONG datatype**

**Cause** An attempt was made to define a key column of datatype LONG. This is not allowed.

**Action** Change the datatype of the column or remove the LONG column from the key, and try again.

**ORA–02270 no matching unique or primary key for this column–list**

**Cause** An attempt was made to reference a unique or primary key in a table with a CREATE or ALTER TABLE statement when no such key exists in the referenced table.

**Action** Add the unique or primary key to the table or find the correct names of the columns with the primary or unique key, and try again.

|                  |                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORA-02271</b> | <b>table does not have such a constraint</b>                                                                                                      |
| <b>Cause</b>     | An attempt was made to reference a table using a constraint that does not exist.                                                                  |
| <b>Action</b>    | Check the spelling of the constraint name or add the constraint to the table, and try again.                                                      |
| <b>ORA-02272</b> | <b>constrained column cannot be of LONG datatype</b>                                                                                              |
| <b>Cause</b>     | A constrained column cannot be defined as datatype LONG. This is not allowed.                                                                     |
| <b>Action</b>    | Change the datatype of the column or remove the constraint on the column, and try again.                                                          |
| <b>ORA-02273</b> | <b>this unique/primary key is referenced by some foreign keys</b>                                                                                 |
| <b>Cause</b>     | A unique or primary key referenced by foreign keys cannot be dropped.                                                                             |
| <b>Action</b>    | Remove all references to the key before dropping it.                                                                                              |
| <b>ORA-02274</b> | <b>duplicate referential constraint specifications</b>                                                                                            |
| <b>Cause</b>     | A referential constraint was specified more than once. This is not allowed.                                                                       |
| <b>Action</b>    | Remove the duplicate specification.                                                                                                               |
| <b>ORA-02275</b> | <b>such a referential constraint already exists in the table</b>                                                                                  |
| <b>Cause</b>     | An attempt was made to specify a referential constraint that already exists. This would result in duplicate specifications and so is not allowed. |
| <b>Action</b>    | Be sure to specify a constraint only once.                                                                                                        |
| <b>ORA-02276</b> | <b>default value type incompatible with column type</b>                                                                                           |
| <b>Cause</b>     | The type of the evaluated default expression is incompatible with the datatype of the column.                                                     |
| <b>Action</b>    | Modify the default expression or change the column's datatype, and try again.                                                                     |
| <b>ORA-02277</b> | <b>invalid sequence name</b>                                                                                                                      |
| <b>Cause</b>     | An invalid sequence name was specified.                                                                                                           |
| <b>Action</b>    | Check syntax and spelling, specify a valid sequence name, and try again.                                                                          |

**ORA–02278 duplicate or conflicting MAXVALUE/NOMAXVALUE specifications**

**Cause** Duplicate or conflicting MAXVALUE and/or NOMAXVALUE specifications.

**Action** Remove one of the conflicting specifications and try again.

**ORA–02279 duplicate or conflicting MINVALUE/NOMINVALUE specifications**

**Cause** Duplicate or conflicting MINVALUE and/or NOMINVALUE clauses were specified.

**Action** Remove one of the conflicting specifications and try again.

**ORA–02280 duplicate or conflicting CYCLE/NOCYCLE specifications**

**Cause** Duplicate or conflicting CYCLE and/or NOCYCLE clauses were specified.

**Action** Remove one of the conflicting specifications and try again.

**ORA–02281 duplicate or conflicting CACHE/NOCACHE specifications**

**Cause** Duplicate or conflicting CACHE and/or NOCACHE clauses were specified.

**Action** Remove one of the conflicting specifications and try again.

**ORA–02282 duplicate or conflicting ORDER/NOORDER specifications**

**Cause** Duplicate or conflicting ORDER and/or NOORDER clauses were specified.

**Action** Remove one of the conflicting specifications and try again.

**ORA–02283 cannot alter starting sequence number**

**Cause** An attempt was made to alter a starting sequence number. This is not allowed.

**Action** Do not try to alter a starting sequence number.

**ORA–02284 duplicate INCREMENT BY specifications**

**Cause** A duplicate INCREMENT BY clause was specified.

**Action** Remove the duplicate specification and try again.

**ORA–02285 duplicate START WITH specifications**

**Cause** A duplicate START WITH clause was specified.

**Action** Remove the duplicate specification and try again.

**ORA-02286 no options specified for ALTER SEQUENCE**

**Cause** No ALTER SEQUENCE option was specified.

**Action** Check the syntax. Then specify at least one ALTER SEQUENCE option.

**ORA-02287 sequence number not allowed here**

**Cause** The specified sequence number reference, CURRVAL or NEXTVAL, is inappropriate at this point in the statement.

**Action** Check the syntax. Then remove or relocate the sequence number.

**ORA-02288 invalid OPEN mode**

**Cause** A mode other than RESETLOGS was specified in an ALTER DATABASE OPEN statement. RESETLOGS is the only valid OPEN mode.

**Action** Remove the invalid mode from the statement or replace it with the keyword RESETLOGS, and try again.

**ORA-02289 sequence does not exist**

**Cause** The specified sequence does not exist, or access privilege is required for this operation. Also, this error can occur if attempting to access a remote sequence through an invalid or non-existent database link.

**Action** Check spelling of the sequence name or obtain the required access privilege. If necessary, create the sequence. All remote sequences accessed in a distributed transaction must be on the same node.

**ORA-02290 check constraint *str.name* violated**

**Cause** The value or values attempted to be entered in a field or fields violate a defined check constraint.

**Action** Enter values that satisfy the constraint.

**ORA-02291 integrity constraint *str.name* violated – parent key not found**

**Cause** An attempt was made to INSERT or UPDATE a foreign key value. The result was a value that is not in the parent key.

**Action** UPDATE to or INSERT a value that is in the parent key.

**ORA-02292    integrity constraint *str.name* violated – child record found**

**Cause**    An attempt was made to delete a row that is referenced by a foreign key.

**Action**    It is necessary to DELETE or UPDATE the foreign key before changing this row.

**ORA-02293    cannot enable *name* – check constraint violated**

**Cause**    An attempt was made via an ALTER TABLE statement to add a check constraint to a populated table that had no complying values.

**Action**    Retry the ALTER TABLE statement, specifying a check constraint on a table containing complying values.

For more information about ALTER TABLE, see the index entry on “ALTER TABLE” in *Oracle7 Server SQL Reference*.

**ORA-02294    cannot add referential constraint – parent keys not found**

**Cause**    An attempt was made via an ALTER TABLE statement to add a referential constraint to a populated table that had no matching parent values.

**Action**    Retry the ALTER TABLE statement, specifying a valid primary key in a parent table.

**ORA-02295    found more than one enable/disable clause for constraint**

**Cause**    An attempt was made via a CREATE or ALTER TABLE statement to specify more than one ENABLE and/or DISABLE clause for a given constraint.

**Action**    Only one ENABLE or DISABLE clause may be specified for a given constraint.

**ORA-02296    cannot enable *name* – null values found**

**Cause**    An ALTER TABLE command with an ENABLE CONSTRAINT clause failed because the table contains values that do not satisfy the constraint.

**Action**    Make sure that all values in the table satisfy the constraint before issuing an ALTER TABLE command with an ENABLE CONSTRAINT clause.

For more information about ALTER TABLE and ENABLE CONSTRAINT, see the index entries on “ALTER TABLE” and on “ENABLE clause” in *Oracle7 Server SQL Reference*.

**ORA-02297 cannot disable constraint *name.name* – dependencies exist**

**Cause** An alter table disable constraint failed because the table has foreign keys that are dependent on the constraint.

**Action** Either disable the foreign key constraints or use a DISABLE CASCADE command.

**ORA-02298 cannot enable *name* – parent keys not found**

**Cause** An ALTER TABLE ENABLE CONSTRAINT command failed because the table has orphaned child records.

**Action** Make sure that the table has no orphaned child records before issuing an ALTER TABLE ENABLE CONSTRAINT command.

For more information about ALTER TABLE and ENABLE CONSTRAINT, see the index entries on “ALTER TABLE” and on “ENABLE clause” in *Oracle7 Server SQL Reference*.

**ORA-02299 cannot enable *name* – duplicate keys found**

**Cause** An ALTER TABLE ENABLE CONSTRAINT command failed because the table has duplicate key values.

**Action** Make sure that the table has no duplicate key values before issuing an ALTER TABLE ENABLE CONSTRAINT command.

For more information about ALTER TABLE and ENABLE CONSTRAINT, see the index entries on “ALTER TABLE” and on “ENABLE clause” in *Oracle7 Server SQL Reference*.

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**02351–02375: SQL\*Loader in Direct Path Mode**

This section lists messages generated when the direct path mode is used to load data into the database. See also range ORA-02476 to ORA-02479 for parallel direct path loader messages.

**ORA-02351 record *num*: Rejected – Error on table *name*, column *name***

**Cause** The indicated record caused an error on insert.

**Action** Determine the error and correct the record.



## 02351–02375: SQL\*Loader in Direct Path Mode

### **ORA-02352      direct path connection must be homogeneous**

**Cause**      The user-side to kernel-side connection is heterogeneous.

**Action**      Check that the connection is between identical hardware and operating systems.

### **ORA-02353      multi-byte character error**

**Cause**      The text specified by POSITION or terminated by new lines is invalid.

**Action**      Edit the control file or the datafile to fix the alignment of the column.

### **ORA-02354      conversion initialization error occurred on field *name***

**Cause**      An error occurred during conversion initialization for a field.

**Action**      This is an internal error. Contact customer support.

### **ORA-02355      conversion error occurred on CONSTANT field *str***

**Cause**      A CONSTANT field caused an error. All rows will be rejected.

**Action**      Determine the Oracle error and correct the record.

### **ORA-02356      the database is out of space. The load cannot continue**

**Cause**      The load was discontinued due to space exhaustion in the database.

**Action**      Add space for the specified table.

### **ORA-02357      packed decimal conversion error**

**Cause**      The column could not be converted from packed decimal to character.

**Action**      Check the column and make it conform to packed decimal format.

### **ORA-02358      zoned decimal conversion error**

**Cause**      The column could not be converted from packed decimal to character.

**Action**      Check the column and make it conform to packed decimal format.

### **ORA-02359      field in datafile exceeded maximum specified length**

**Cause**      The field is too long for the specified column.

**Action**      Shorten the field so that the length of the field equals or is less than the column length.

**ORA-02360 column not found before end of logical record (use TRAILING NULLCOLS)**

**Cause** A column started after the end of the logical record had been reached.

**Action** Use the TRAILING NULLCOLS option or supply data for the column.

**ORA-02361 initial enclosing character not found**

**Cause** The initial enclosing character of an enclosed field was not found.

**Action** Supply the character before the start of the field.

**ORA-02362 logical record ended – second enclosing character not present**

**Cause** The second enclosing character of an enclosed field was not found.

**Action** Supply the character after the end of the field.

**ORA-02363 no terminator found after TERMINATED and ENCLOSED field**

**Cause** No terminator was found after a terminated and enclosed field.

**Action** Supply the terminator after the end of the field.

**ORA-02364 record *num*: Discarded – failed all WHEN clauses**

**Cause** The record was not loaded because it failed the WHEN clauses of all the tables.

**Action** No action required.

**ORA-02365 index *name* was left in Direct Load State due to**

**Cause** The index was not loaded. The cause of the error is stated after the message.

**Action** Correct the cause of the error, then reload.

**ORA-02366 the following index or indexes on table *name* were processed**

**Cause** The indexes listed for the named table were loaded.

**Action** No action required.

**ORA-02367 index *name* was loaded**

**Cause** The index specified in the message was loaded.

**Action** No action required.

**ORA-02368      record *num*: Discarded – all columns null.**

**Cause**      The record was not loaded because all of the columns in the table were null for that record.

**Action**      No action required.

**ORA-02369      warning: Variable-length field was truncated**

**Cause**      A variable-length field was truncated by the end of the logical record.

**Action**      Although this is a warning, a variable length field has the length embedded in the data for each row, so check the data.

**ORA-02370      record *num* – Warning on table *name*, column *num***

**Cause**      The record indicated caused a warning.

**Action**      Determine the warning and correct the record, if necessary.

**ORA-02371      loader must be at least version *num* for direct path**

**Cause**      The version of SQL\*Loader being used is incompatible with this version of Oracle.

**Action**      Upgrade the version of SQL\*Loader to at least the specified version or use the conventional path.

**ORA-02372      relative start position > absolute field end position**

**Cause**      The relative start of a field specified as POSITION(\*+*n*:*y*) occurred after the absolute position *y*.

**Action**      Check that the values of *n* and *y* are correct and that the statement was entered correctly. Also check that all opening delimiters have matching closing delimiters.

**ORA-02373      Error parsing insert statement for table *name***

**Cause**      A parsing error occurred.

**Action**      Check the message following this parsing error message.

**ORA-02374      No more slots for read buffer queue**

**Cause**      There are no free read buffers.

**Action**      Use the READBUFFERS keyword in the loader to increase the number of read buffers.

---

**02376–02399: Oracle Resources**

This section lists messages generated when resources within the Oracle Server are altered.

**ORA-02376    invalid or redundant resource**

**Cause**    A resource that is not defined or that is specified twice appears in the CREATE or ALTER PROFILE statement.

**Action**    Define the resource before issuing a CREATE or ALTER PROFILE command. Also check the statement to see that each resource is listed only once.

**ORA-02377    invalid resource limit**

**Cause**    An invalid resource limit of 0 was specified.

**Action**    Specify a resource limit greater than 0.

**ORA-02378    duplicate resource name *name***

**Cause**    The same resource was specified twice in a CREATE or ALTER PROFILE statement.

**Action**    Issue the statement again, carefully checking that each resource is used only once.

**ORA-02379    profile *name* already exists**

**Cause**    An attempt was made to create a profile that already exists.

**Action**    Create the profile with a name not already used by another profile.

**ORA-02380    profile *name* does not exist**

**Cause**    An attempt was made to assign a user to a non-existent profile.

**Action**    Assign the user to an existing profile.

**ORA-02381    cannot drop PUBLIC\_DEFAULT profile**

**Cause**    An attempt was made to drop the PUBLIC\_DEFAULT profile.

**Action**    The PUBLIC\_DEFAULT profile cannot be dropped.

**ORA-02382      profile *name* has users assigned, cannot drop without CASCADE**

**Cause** An attempt was made to drop a profile that had users assigned to it without using the CASCADE option of the DROP PROFILE statement. A profile that has users assigned to it cannot be dropped, unless the CASCADE option is specified. CASCADE reassigns users to the PUBLIC\_DEFAULT profile before dropping the profile.

**Action** To reassign all users to the PUBLIC\_DEFAULT profile, issue the DROP PROFILE statement with the CASCADE option.

**ORA-02383      illegal cost factor**

**Cause** A negative value or UNLIMITED cost was specified for this resource in the ALTER RESOURCE COST statement.

**Action** Only positive integer values can be specified for resources in the ALTER RESOURCE COST statement. Issue the statement again, using a positive integer value for each resource specified.

**ORA-02390      exceeded COMPOSITE\_LIMIT, logoff in progress**

**Cause** The COMPOSITE\_LIMIT for the profile is exceeded. That is, the weighted sum of the connection time, logical reads per session, CPU usage per session, and private SGA space used during the session exceeded the limit set by the COMPOSITE\_LIMIT clause set in the user profile.

**Action** If this happens often, ask the database administrator to raise the COMPOSITE\_LIMIT of the user profile, or determine which resource is used the most and raise the limit on that resource.

**ORA-02391      exceeded simultaneous SESSIONS\_PER\_USER limit**

**Cause** An attempt was made to exceed the maximum number of concurrent sessions allowed by the SESSIONS\_PER\_USER clause of the user profile.

**Action** End one or more concurrent sessions or ask the database administrator to increase the SESSIONS\_PER\_USER limit of the user profile.

For more information about SESSIONS\_PER\_USER and the database administrator's specific tasks of adjusting concurrent sessions, see the index entries on "SESSIONS\_PER\_USER of CREATE PROFILE" in *Oracle7 Server SQL Reference* and on "LICENSE\_MAX\_SESSIONS parameter" in the *Oracle7 Server Administrator's Guide*.

**ORA-02392 exceeded session limit on CPU usage, logging off**

**Cause** An attempt was made to exceed the maximum CPU usage allowed by the CPU\_PER\_SESSION clause of the user profile.

**Action** If this happens often, ask the database administrator to increase the CPU\_PER\_SESSION limit of the user profile.

**ORA-02393 exceeded call limit on CPU usage**

**Cause** An attempt was made to exceed the maximum CPU time for a call, a parse, execute, or fetch, allowed by the CPU\_PER\_CALL clause of the user profile.

**Action** If this happens often, ask the database administrator to increase the CPU\_PER\_CALL limit of the user profile.

**ORA-02394 exceeded session limit on I/O usage, logging off**

**Cause** An attempt was made to exceed the maximum I/O allowed by the LOGICAL\_READS\_PER\_SESSION clause of the user profile.

**Action** If this happens often, ask the database administrator to increase the LOGICAL\_READS\_PER\_SESSION limit of the user profile.

**ORA-02395 exceeded call limit on I/O usage**

**Cause** An attempt was made to exceed the maximum I/O for a call, a parse, execute, or fetch, allowed by the LOGICAL\_READS\_PER\_CALL clause of the user profile.

**Action** If this happens often, ask the database administrator to increase the LOGICAL\_READS\_PER\_CALL limit of the user profile.

**ORA-02396 exceeded max Idle Time, please connect again**

**Cause** A user has exceeded the maximum time allowed to remain idle.

**Action** The user must reconnect to the database.

**ORA-02397 exceeded PRIVATE\_SGA Limit, logging off**

**Cause** This error occurs only when using a multi-threaded server.

**Action** Contact the database administrator to expand the PRIVATE\_SGA limit.

## 02376–02399: Oracle Resources

### **ORA-02398    exceeded procedure space usage**

**Cause**    Stored procedures used up too much space in the SYSTEM tablespace.

**Action**    Use fewer stored procedures or add an additional file to the system tablespace.

### **ORA-02399    exceeded maximum connect time, logging off**

**Cause**    A user has exceeded the maximum time allowed to be connected to the database.

**Action**    The user must reconnect to the database.

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## 02400–02419: EXPLAIN PLAN Command

This sections lists messages generated when using the SQL EXPLAIN PLAN command.

### **ORA-02401    cannot EXPLAIN view owned by another user**

**Cause**    The view specified in the user's SQL statement belongs to another user and cannot be explained.

**Action**    Create a view that has the same definition but belongs to the current user.

### **ORA-02402    PLAN\_TABLE not found**

**Cause**    The PLAN\_TABLE used by EXPLAIN to describe the SQL statement does not exist in the current schema.

**Action**    Create a PLAN\_TABLE in the current schema or use the INTO clause to store the EXPLAIN results in a plan table with a different name.

### **ORA-02403    plan table does not have correct format**

**Cause**    The plan table does not have the appropriate columns.

**Action**    Redefine the plan table with the appropriate columns.

### **ORA-02404    specified plan table not found**

**Cause**    The specified plan table cannot be found.

**Action**    Create the specified plan table or use an existing one.

---

## 02420–02429: Schemas

This section lists messages generated when commands are used that alter schemas or schema objects.

### **ORA-02420    missing schema authorization clause**

**Cause**    The schema AUTHORIZATION clause is missing in a CREATE SCHEMA statement.

**Action**    Check the syntax of the statement, provide a valid schema AUTHORIZATION clause, and retry the statement.



**ORA-02421    missing or invalid schema authorization identifier****Cause**    Either:

- The schema authorization identifier is not recognized.
- An attempt was made to use a schema authorization identifier for a user while not connected as that user.

**Action**    If the cause is

- an unrecognized identifier, then use an existing identifier.
- connected with a different user name, then disconnect and connect to the correct user name.

**ORA-02422    missing or invalid schema element**

**Cause**    A statement other than a CREATE TABLE, CREATE VIEW, or GRANT appears in a CREATE SCHEMA statement.

**Action**    See *Oracle7 Server SQL Reference* for the valid elements of the CREATE SCHEMA statement.

**ORA-02423    schema name does not match schema authorization identifier**

**Cause**    A table definition with a schema name prepended to the table name does not match the schema name provided in the AUTHORIZATION clause of a CREATE SCHEMA STATEMENT.

**Action**    Check that the schema names match the one given in the CREATE SCHEMA statement.

**ORA-02424    potential circular view references or unknown referenced tables**

**Cause**    The CREATE SCHEMA statement contains a view that depends on other views contained in the CREATE SCHEMA statement, or they contain references to non-existing tables.

**Action**    Create the dependent views in a separate CREATE SCHEMA statement and ensure that all referenced tables are either defined in the CREATE SCHEMA statement or exist outside the statement.

**ORA-02425    create table failed**

**Cause**    A CREATE TABLE statement failed in the CREATE SCHEMA statement.

**Action**    The cause for failure will be presented below this message. Follow the appropriate actions as suggested by the subsequent messages.

**ORA-02426    privilege grant failed**

**Cause** A GRANT statement failed in the CREATE SCHEMA statement.

**Action** The cause for failure will be presented below this message. Follow appropriate actions, as suggested by the subsequent messages.

**ORA-02427    create view failed**

**Cause** A CREATE VIEW statement failed in the CREATE SCHEMA statement.

**Action** The cause for failure will be presented below this message. Follow appropriate actions, as suggested by the subsequent messages.

**ORA-02428    could not add foreign key reference**

**Cause** Oracle could not add a foreign key reference because of an error in the declaration. Either the referenced table does not exist or the table does not have a unique key.

**Action** Check that the referenced table exists and/or has a unique key.

**ORA-02429    cannot drop index used for enforcement of unique/primary key**

**Cause** An attempt was made to drop an index that is being used as the enforcement mechanism for a unique or primary key.

**Action** Drop the integrity constraint instead of dropping the index.

---

**02430–02449: Constraint Enabling & Disabling**

This section lists messages generated when commands are used that affect constraints on a table.

**ORA-02430    cannot enable constraint *name* – no such constraint**

**Cause** The named constraint does not exist for this table.

**Action** Check that a constraint exists before trying to enable it.

**ORA-02431    cannot disable constraint *name* – no such constraint**

**Cause** The named constraint does not exist for this table.

**Action** Check that a constraint exists before trying to disable it.

## 02430–02449: Constraint Enabling & Disabling

### ORA-02432 cannot enable primary key – primary key not defined for table

**Cause** An attempt was made to enable a primary key that is not defined for the table.

**Action** Add a primary key definition for the table.

### ORA-02433 cannot disable primary key – primary key not defined for table

**Cause** An attempt was made to disable a primary key that is not defined for the table.

**Action** Check that a primary key exists before trying to disable it.

### ORA-02434 cannot enable unique(*str*) – unique key not defined for table

**Cause** An attempt was made to enable a unique key that is not defined for the table.

**Action** Check that a unique key exists before trying to enable it.

### ORA-02435 cannot disable unique *str* – unique key not defined for table

**Cause** An attempt was made to disable a unique key that is not defined for the table.

**Action** Check that a unique key exists before trying to disable it.

### ORA-02436 date or system variable wrongly specified in CHECK constraint

**Cause** An attempt was made to use a date constant or system variable, such as USER, in a check constraint that was not completely specified in a CREATE TABLE or ALTER TABLE statement. For example, a date was specified without the century.

**Action** Completely specify the date constant or system variable.

### ORA-02437 cannot enable *name* – primary key violated

**Cause** An attempt was made to enable a primary key constraint on a column that contains either duplicate values or null.

**Action** Remove the duplicate values or null before enabling the primary key constraint.

For more information about removing integrity constraints from columns, see the index entry on “integrity constraints, removing from columns” in *Oracle7 Server SQL Reference*.

**ORA-02438 column check constraint cannot reference other columns**

**Cause** An attempt was made to define a column check constraint that references another column.

**Action** This is not permitted for column check constraints. Create this constraint as a table check constraint.

**ORA-02439 non-unique index exists on unique/primary key constraint**

**Cause** An attempt was made to enable a primary key or unique constraint on a column that has an existing non-unique index.

**Action** Drop the non-unique index on the column or do not attempt to enable this constraint.

**ORA-02440 create as select with referential constraints not allowed**

**Cause** Integrity constraints on a table cannot be created when creating the table using the CREATE TABLE... AS SELECT... form.

**Action** First, create the table, and then alter the table to add the desired integrity constraints.

**ORA-02441 cannot drop non-existent primary key**

**Cause** An attempt was made to drop the primary key constraint on a table, but there is no primary key constraint on this table.

**Action** Ensure the correct table name is entered in the statement. Otherwise, no action required.

**ORA-02442 cannot drop non-existent unique key**

**Cause** An attempt was made to drop a unique key constraint for a column that does not have a unique key constraint.

**Action** Make certain the correct column name was entered. Otherwise, no action required.

**ORA-02443 cannot drop constraint – non-existent constraint**

**Cause** An attempt was made to drop a constraint that does not exist.

**Action** Make certain the constraint and table name are correct and attempt the procedure again.

## 02450–02475: Hash Cluster Commands

### **ORA–02444    cannot resolve referenced object in referential constraints**

**Cause**    An attempt was made to define a foreign key with a reference to a schema object that cannot be resolved to a base table reference.

**Action**    Define referential constraints only with schema objects resolving to a base table.

### **ORA–02445    exceptions table not found**

**Cause**    The explicitly or implicitly declared exceptions table does not exist.

**Action**    If the correct exceptions table name was used, then create the table and retry the enable command.

### **ORA–02446    CREATE TABLE ... AS SELECT failed – check constraint violated**

**Cause**    An attempt was made to use a CREATE TABLE... AS SELECT statement when some rows violated one or more CHECK constraints.

**Action**    Do not select rows that violate constraints.

---

## 02450–02475: Hash Cluster Commands

This section lists messages that occur when commands are used that affect hash clusters.

### **ORA–02450    invalid hash option – missing keyword IS**

**Cause**    The IS keyword is missing from the CREATE CLUSTER command.

**Action**    Check the syntax of the command and retry the statement.

### **ORA–02451    duplicate HASHKEYS specification**

**Cause**    The HASHKEYS option of the CREATE CLUSTER command is specified more than once.

**Action**    Check the syntax of the command, make certain to specify the HASHKEYS option only once, then retry the command.

### **ORA–02452    invalid HASHKEYS option value**

**Cause**    The value specified for HASHKEYS must be an integer.

**Action**    Check the syntax of the command, make certain to specify an integer for the HASHKEYS option, then retry the command.

**ORA-02453 duplicate HASH IS specification**

**Cause** The HASH IS option is specified more than once.

**Action** Check the syntax of the command, make certain to specify the HASH IS option only once, then retry the command.

**ORA-02454 number of hash keys per block *num* exceeds maximum of *num***

**Cause** The SIZE option specified for this hashed cluster is too small.

**Action** Retry the statement using a larger value for the SIZE option.

**ORA-02455 the number of cluster key column must be 1**

**Cause** An attempt was made to create a cluster using the HASH IS option with a number of key columns other than 1. Specify only one key column when using the HASH IS option.

**Action** Check the syntax of the command. Either specify only one key column or do not specify the HASH IS option, then retry the command.

**ORA-02456 the HASH IS column specification must be NUMBER(\*,0)**

**Cause** The column specification in the command must specify an integer.

**Action** Check the syntax of the command, make certain to specify an integer for the column specification, then retry the command.

**ORA-02457 the HASH IS option must specify a valid column**

**Cause** An attempt was made to create a cluster with the HASH IS option without specifying a valid column name.

**Action** Check the syntax of the command. Specify a valid column name in the statement, then retry the statement.

**ORA-02458 HASHKEYS must be specified for a HASH CLUSTER**

**Cause** An attempt was made to create a hash cluster without specifying the HASHKEYS option in the statement.

**Action** Check the syntax of the command, specify the HASHKEYS option, and retry the command.

## 02450–02475: Hash Cluster Commands

### **ORA-02459    hashkey value must be a positive integer**

**Cause**    The value specified for HASHKEYS was not a positive integer.

**Action**    Check the syntax of the command, specify only positive integers for the HASHKEYS option, then retry the command.

### **ORA-02460    inappropriate index operation on a hash cluster**

**Cause**    An attempt was made to create a cluster index on a hash cluster.

**Action**    Creation of cluster indexes on hash clusters is not allowed. Do not attempt to create this index.

### **ORA-02461    inappropriate use of the INDEX option**

**Cause**    The INDEX option cannot be specified for hash clusters.

**Action**    Check the syntax of the command. Do not specify the INDEX option with hash clusters.

### **ORA-02462    duplicate INDEX option specified**

**Cause**    The INDEX option is specified more than once.

**Action**    Check the syntax of the command, correct the problem, then retry the statement.

### **ORA-02463    duplicate HASH IS option specified**

**Cause**    The HASH IS option is specified more than once.

**Action**    Check the syntax of the command, correct the problem, then retry the statement.

### **ORA-02464    cluster definition cannot be both HASH and INDEX**

**Cause**    Both the HASH IS and INDEX option were specified. Clusters can be hash or indexed, but not both.

**Action**    Decide on which type of cluster is to be created, check the syntax of the command, then retry the statement.

### **ORA-02465    inappropriate use of the HASH IS option**

**Cause**    The HASH IS option is valid only for clusters.

**Action**    Check the syntax of the command, use the HASH IS option only for clusters, then retry the command.

- ORA-02466 the SIZE option is not allowed to be altered for HASH CLUSTERS**
- Cause** An attempt was made to change the SIZE option of a hash cluster after the cluster was created.
- Action** The SIZE option can be specified only when creating the hash cluster. Do not attempt to alter the SIZE of the cluster.
- ORA-02467 column referenced in hash expression not present in cluster**
- Cause** A column referenced in a hash expression is not present in the cluster definition.
- Action** Recreate the cluster and correct the error in the hash expression.
- ORA-02468 constant or system variable wrongly specified in expression**
- Cause** A constant or system variable is specified in the hash expression.
- Action** Recreate the cluster and correct the error in the hash expression.
- ORA-02469 hash expression does not return an Oracle Number**
- Cause** The result of evaluating a hash expression is not an Oracle Number.
- Action** Recreate the cluster and correct the error in the hash expression.
- ORA-02470 TO\_DATE, USERENV, or SYSDATE incorrectly used in hash expression**
- Cause** TO\_DATE, USERENV, and SYSDATE are not allowed in hash expressions.
- Action** Recreate the cluster and correct the error in the hash expression.
- ORA-02471 SYSDATE, UID, USER, ROWNUM, OR LEVEL incorrectly used in hash expression**
- Cause** SYSDATE, UID, USER, ROWNUM, OR LEVEL are not allowed in hash expression(s).
- Action** Recreate the cluster and correct the error in the hash expression.
- ORA-02472 PL/SQL functions not allowed in hash expressions**
- Cause** A PL/SQL function is used in a hash expression.
- Action** Recreate the cluster and remove the PL/SQL function.



## 02476–02479: Parallel Direct Loader

### ORA–02473    **error while evaluating the cluster’s hash expressions**

**Cause**    An error occurred while evaluating the cluster’s hash expression.

**Action**    Correct the query and retry.

### ORA–02474    **fixed hash area extents used *num* exceeds maximum allowed *num***

**Cause**    The number of extents required for creating the fixed hash area exceeded the maximum number allowed.

**Action**    Reduce the number of extents required by increasing the extent allocation sizes within the STORAGE clause.

For more information about hashing and the STORAGE clause, see the index entries on “hash cluster” and on “hashing” in *Oracle7 Server Concepts* and on “STORAGE clause, of ALTER CLUSTER” in *Oracle7 Server SQL Reference*.

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## 02476–02479: Parallel Direct Loader

This section lists messages generated when the parallel direct path mode is used to load data into the database. See also range ORA–02351 to ORA–02375 for direct path loader messages.

### ORA–02476    **cannot create index due to parallel direct load on table**

**Cause**    A parallel direct load is occurring to the specified table.

**Action**    Retry the statement after the load is complete.

### ORA–02477    **cannot perform parallel direct load on object “name”**

**Cause**    A parallel direct load is not possible because an index is being created on the table.

**Action**    Retry the load after the index creation is complete.

### ORA–02478    **merge into base segment would overflow MAXEXTENTS limit**

**Cause**    Merge of temporary segment into base segment failed because MAXEXTENTS was larger than the total in the temporary and base segments.

**Action**    Use a larger value for MAXEXTENTS on the base segment or make the extents in the temporary segments larger.

**ORA-02479      error while translating file name for parallel load**

**Cause**      The specified name of the database file to load with data was invalid.

**Action**      Specify a valid database filename.

---

**02480–02489: Trace Facility****ORA-02480      too many event classes specified for events**

**Cause**      Illegal trace enable string.

**Action**      Enter a legal trace enable control string.

**ORA-02481      too many id ranges specified for events**

**Cause**      Illegal trace enable string.

**Action**      Enter a legal trace enable control string.

**ORA-02482      specified an event class but gave no events**

**Cause**      Illegal trace enable string.

**Action**      Enter a legal trace enable control string.

**ORA-02483      illegal ID value specified for events**

**Cause**      Illegal trace enable string.

**Action**      Enter a legal trace enable control string.

**ORA-02485      low ID value is greater than high ID value**

**Cause**      Bad file name given in TRACE\_DEST INIT.ORA parameter.

**Action**      Specify a valid name in the TRACE\_DEST INIT.ORA parameter.

**ORA-02486      error in file *name*. Check trace\_dest init.ora parm**

**Cause**      Bad file name given in TRACE\_DEST INIT.ORA parameter.

**Action**      Specify a valid name in the TRACE\_DEST INIT.ORA parameter.

## 02490–02499: Resizeable Datafiles

**ORA-02487**     **error in writing file name *name*. Check trace\_dest init.ora parm**

**Cause**     Bad file name given in TRACE\_DEST INIT.ORA parameter.

**Action**     Specify a valid name in the TRACE\_DEST INIT.ORA parameter.

**ORA-02489**     **trace\_block\_size (*num*) must be divisible by *num***

**Cause**     The INIT.ORA parameter TRACE\_BLOCK\_SIZE was incorrectly set.

**Action**     Change the init.ora parameter and restart.

---

## 02490–02499: Resizeable Datafiles

**ORA-02490**     **missing required file size in RESIZE clause**

**Cause**     No value was specified for the RESIZE clause.

**Action**     Use correct syntax.

**ORA-02491**     **missing required keyword ON or OFF in AUTOEXTEND clause**

**Cause**     The keyword ON or OFF was not specified for the AUTOEXTEND clause.

**Action**     Use correct syntax.

**ORA-02492**     **missing required file block increment size in NEXT clause**

**Cause**     No value was specified for the NEXT clause.

**Action**     Use correct syntax.

**ORA-02493**     **invalid file increment size in NEXT clause**

**Cause**     A non-integer value was used for the NEXT clause of the DATAFILE list.

**Action**     Use correct syntax.

**ORA-02494**     **invalid or missing maximum file size in MAXSIZE clause**

**Cause**     UNLIMITED was not specified, or an invalid integer value was specified, for the MAXSIZE clause in the DATAFILE file list. The MAXSIZE value cannot be smaller than the SIZE value.

**Action**     Use correct syntax.

**ORA-02495** cannot resize file *name*, tablespace *name* is read only

**Cause** An attempt was made to resize a data file in a tablespace that is read only.

**Action** Change the tablespace to read/write and retry the resize operation.

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## 02500–02699: CTOS

See your operating system–specific Oracle documentation for information on error messages in this range. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## 02700–02874: UNIX Two Task

See the *Oracle7 Server for UNIX Administrator’s Reference Guide*. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## 02875–02899: IBM RS/6000

See the *Oracle7 for IBM RISC System/6000 Installation and Configuration Guide*, *Oracle7 for MVS Messages Guide*, and *Oracle7 for VM Messages Guide*. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## 03000–03099: Features Not Implemented

This section lists messages generated when a user tries to access a feature that is not implemented in Oracle.

**ORA-03001** unimplemented feature

**Cause** An attempt was made to use a feature that is not currently implemented.

**Action** Do not attempt to use the feature at this time.

## 03000–03099: Features Not Implemented

### ORA-03002    **operator not implemented**

**Cause**    An attempt was made to use an operator that is not currently implemented.

**Action**    Do not attempt to use the operator at this time.

### ORA-03007    **obsolete feature**

**Cause**    An attempt was made to use a feature that is no longer supported.

**Action**    No action required.

### ORA-03008    **parameter COMPATIBLE >= *val* needed for *feature\_name***

**Cause**    An attempt was made to use a feature for a later Oracle version than the setting of the initialization parameter, COMPATIBLE.

**Action**    Set COMPATIBLE to the value in the message, or higher, and retry the command, but be aware that this will limit your downgrade options.

---

**03100–03199: Two–Task Interface**

This sections lists messages generated when the two–task interface to Oracle is used.

**ORA–03100      communication area cannot be allocated; insufficient memory**

**Cause**      An attempt to allocate stack space for communication purposes failed. This is an internal error message not usually issued.

**Action**      Contact customer support.

**ORA–03106      fatal two–task communication protocol error**

**Cause**      The communication path between Oracle and the user task has stopped. This is an internal error message not usually issued.

**Action**      Contact customer support.

**ORA–03107      oranet buffer underflow**

**Cause**      This is an internal error message not usually issued.

**Action**      Contact customer support.

**ORA–03108      oranet: Oracle does not support this interface version**

**Cause**      The version of Oracle connected to via SQL\*Net does not support this version of the SQL\*Net protocol.

**Action**      Upgrade the older version of Oracle and try again.

**ORA–03109      oranet buffer overflow**

**Cause**      Data being transferred between the user program and Oracle overflowed the buffer space available. This is an internal error message not usually issued.

**Action**      Contact customer support.

**ORA–03110      oranet: Oracle does not support this SQL version**

**Cause**      The version of Oracle connected to via SQL\*Net does not support the version of the SQL\*Net protocol.

**Action**      Upgrade the older version of Oracle and try again.

**ORA–03111      break received on communication channel**

**Cause**      A break was processed on the communications channel, but was not properly handled by SQL\*Net software. This is an internal error message not usually issued.

**Action**      Contact customer support.

**ORA–03112      a server linked as single–task cannot use SQL\*Net**

**Cause**      A statement containing a SQL\*Net connect string was issued to the single–task server. For example, a database link was used in a SQL statement.

**Action**      Do not use SQL\*Net connect strings in a single–task environment.

For more information about SQL\*Net connect strings, see the index entries on “SQL\*Net connect strings” and on “SQL\*Net” in *Oracle7 Server Distributed Systems, Volume I*.

**ORA–03113      end–of–file on communication channel**

**Cause**      An unexpected end–of–file was processed on the communication channel. The problem could not be handled by the SQL\*Net, two task, software. This message could occur if the shadow two–task process associated with a SQL\*Net connect has terminated abnormally, or if there is a physical failure of the interprocess communication vehicle, that is, the network or server machine went down.

**Action**      If this message occurs during a connection attempt, check the setup files for the appropriate SQL\*Net driver and confirm SQL\*Net software is correctly installed on the server. If the message occurs after a connection is well established, and the error is not due to a physical failure, check if a trace file was generated on the server at failure time. Existence of a trace file may suggest an Oracle internal error that requires the assistance of customer support.

**ORA–03114      not connected to Oracle**

**Cause**      A call to Oracle was attempted when no connection was established. Usually this happens because a user–written program has not logged on. It may also happen if communication trouble causes a disconnection.

**Action**      Try again. If the message recurs and the program is user–written, check the program.

- ORA-03115     unsupported network datatype or representation**
- Cause**     A user bind or define, or an Oracle function, is not supported by this heterogeneous SQL\*Net connection.
- Action**     Upgrade the older version of Oracle and try again.
- 
- ORA-03116     invalid buffer length passed to a conversion routine**
- Cause**     This is an internal error message not usually issued.
- Action**     Contact customer support.
- 
- ORA-03117     two-task save area overflow**
- Cause**     This is an internal error message not usually issued.
- Action**     Contact customer support.
- 
- ORA-03118     two-task coroutine has invalid state**
- Cause**     This is an internal error message not usually issued.
- Action**     Contact customer support.
- 
- ORA-03120     two-task conversion routine: integer overflow**
- Cause**     An integer value in an internal Oracle structure overflowed when being sent or received over a heterogeneous connection. This can happen when an invalid buffer length or too great a row count is specified. It usually indicates a bug in the user application.
- Action**     Check parameters to Oracle calls. If the problem recurs, reduce all integer parameters, column values *not* included, to less than 32767.
- 
- ORA-03121     no interface driver connected – function not performed**
- Cause**     This message occurs usually because the SQL\*Net driver is not loaded into memory or there is a mismatch of the version of the driver. A user program linked with an obsolete library may also cause this message. Only programs provided by Oracle Corporation should use this interface.
- Action**     If the message occurred during use of a program provided by Oracle Corporation, contact customer support. If a user program caused the message, relink the program with current versions of the Oracle libraries.



### **ORA–03122     attempt to close Oracle–side window on user side**

**Cause**     This is an internal error message not usually issued.

**Action**     Contact customer support.

### **ORA–03123     operation would block**

**Cause**     The attempted operation cannot complete now.

**Action**     Retry the operation later.

### **ORA–03124     two–task internal error**

**Cause**     Internal error.

**Action**     Contact customer support.

### **ORA–03125     client–server protocol violation**

**Cause**     The application received a bad escape sequence from the server which may indicate a problem with the client application user code.

**Action**     Contact your customer support representative.

### **ORA–03126     network drive does not support non–blocking operations**

**Cause**     A non–block operation was attempted and the network driver does not support non–block operations.

**Action**     Use the default blocking operations or use a driver supporting non–blocking operations.

### **ORA–03127     no new operations allowed until the active operation ends**

**Cause**     An attempt was made to execute a new operation before the active, non–blocking operation completed or a new operation was attempted before all the pieces of a column were inserted or fetched.

**Action**     Execute the new operation after the non–blocking operation completes. If piecewise binds/defines were done, execute the new operation after all the pieces have been inserted or fetched.

For more information about inserting and fetching and the non–blocking mode, see the index entries on “non–blocking mode” and on “developing an OCI program” in the *Programmer’s Guide to the Oracle Call Interface*.

## 03200–03289: Extent Allocation and Other Space Management Errors

### **ORA-03128 connection is in blocking mode**

**Cause** The OCI test for non-blocking mode on a connection indicates that the connection is in blocking mode.

**Action** If non-blocking mode is required, use appropriate OCI calls to change the mode.

### **ORA-03129 the next piece to be inserted is required**

**Cause** The application performed a piecewise bind on a column.

**Action** Provide the next piece of this bind variable.

For more information about binding variables, see the index entries on “bind operation” and on “input variables, binding address” in the *Programmer’s Guide to the Oracle Call Interface*.

### **ORA-03130 the buffer for the next piece to be fetched is required**

**Cause** The application performed a piecewise define on the column.

**Action** Provide the next buffer for the next piece to be retrieved.

For more information about define and fetching operations, see the index entries on “define operation” and on “rows, fetching” in the *Programmer’s Guide to the Oracle Call Interface*.

### **ORA-03131 an invalid buffer was provided for the next piece**

**Cause** The application either provided the length of the buffer for the next piece to be zero or provided a null pointer.

**Action** Verify if the buffer pointer for the next piece is null or if the length is zero.

For more information about fetching operations, see the index entries on “rows, fetching” in the *Programmer’s Guide to the Oracle Call Interface*.

---

## 03200–03289: Extent Allocation and Other Space Management Errors

This section lists messages generated during extent allocation.

### **ORA-03200 the segment type specification is invalid**

**Cause** The segment type is not TABLE, INDEX, or CLUSTER.

**Action** Use a correct segment type.

**ORA-03201    the group number specification is invalid**

**Cause**    The freelist group number is either negative or larger than the number of freelist groups in the segment.

**Action**    Use a correct group number.

**ORA-03202    the scan limit specification is invalid**

**Cause**    The scan limit does not have a positive integer value greater than the number of freelist groups in the segment.

**Action**    Use a correct scan limit.

**ORA-03203    concurrent update activity makes space analysis impossible**

**Cause**    High volume of user updates interfere with the space analysis.

**Action**    Retry the command or lock the underlying objects.

**ORA-03230    segment only contains *num* blocks of unused space above high water mark**

**Cause**    An attempt was made to preserve too many blocks.

**Action**    Reduce the KEEP amount.

**ORA-03231    the INITIAL extent may not be deallocated**

**Cause**    An attempt was made to deallocate space in segment which was truncated prior to the 7.3 release.

**Action**    Increase the KEEP amount, or truncate the segment, and reissue the command.  
For more information about the TRUNCATE command, see the index entry on “TRUNCATE command” in *Oracle7 Server SQL Reference*.

**ORA-03274    both ALLOCATE EXTENT and DEALLOCATE UNUSED options are specified**

**Cause**    The DEALLOCATE option and the ALLOCATE option were specified in the same command.

**Action**    Choose one of the options or issue two separate commands.  
For more information about the ALLOCATE option, see the index entries on “ALLOCATE EXTENT clause, of ALTER CLUSTER command” and on “ALLOCATE EXTENT clause, of ALTER TABLE command” in *Oracle7 Server SQL Reference*.

**ORA-03275 duplicate DEALLOCATE option specification**

**Cause** The DEALLOCATE UNUSED option to ALTER TABLE or ALTER INDEX was specified more than once.

**Action** Specify the option at most once.

For more information about the DEALLOCATE UNUSED option, see the index entries on “ALTER TABLE” and on “ALTER INDEX” in *Oracle7 Server SQL Reference*.

**ORA-03276 duplicate ALLOCATE EXTENT option specification**

**Cause** The ALLOCATE EXTENT option to ALTER TABLE or ALTER INDEX is specified more than once.

**Action** Specify the option at most once.

**ORA-03277 invalid SIZE specified**

**Cause** The value specified for the SIZE option of the ALTER TABLE... ALLOCATE EXTENT statement must be a positive integer.

**Action** Choose an appropriate integer value.

**ORA-03278 duplicate option specified for ALLOCATE EXTENT**

**Cause** An option, datafile, SIZE, or INSTANCE, was specified more than once in the ALTER TABLE... ALLOCATE EXTENT statement.

**Action** Specify each option at most once.

**ORA-03279 invalid INSTANCE specified**

**Cause** The value specified for the INSTANCE option of the ALTER TABLE... ALLOCATE EXTENT statement is not valid.

**Action** Choose an appropriate INSTANCE specification.

**ORA-03280 invalid datafile filename specified**

**Cause** A character-string literal is expected but not found for the DATAFILE option of the ALTER TABLE... ALLOCATE EXTENT statement.

**Action** Specify the filename using a character-string literal enclosed in single quotes. Query the data dictionary view DBA\_DATA\_FILES to find the correct names of the datafiles.

## 03200–03289: Extent Allocation and Other Space Management Errors

### ORA-03281    **invalid ALLOCATE EXTENT option**

**Cause**    An option other than DATAFILE, SIZE, or INSTANCE was specified in the ALTER TABLE... ALLOCATE EXTENT statement.

**Action**    Remove the invalid option and retry the command.

### ORA-03282    **missing ALLOCATE EXTENT option**

**Cause**    No ALLOCATE EXTENT options were specified inside the parentheses of the ALTER TABLE... ALLOCATE EXTENT statement.

**Action**    If no options are required, do not use parentheses. Otherwise, specify one or more of the following options within parentheses: datafile, SIZE, or INSTANCE.

### ORA-03283    **specified datafile *name* does not exist**

**Cause**    The datafile specified for the DATAFILE option in the ALTER TABLE... ALLOCATE EXTENT statement does not exist.

**Action**    Retry the option with the correct filename for the database file. Query the data dictionary view DBA\_DATA\_FILES to find the correct names of the datafiles.

### ORA-03284    **specified datafile *name* is not a member of tablespace *name***

**Cause**    The datafile specified in the ALTER TABLE... ALLOCATE EXTENT statement does not belong to the tablespace in which the table resides.

**Action**    Retry the option with the correct datafile or the correct table. Query the data dictionary view DBA\_DATA\_FILES to find the correct names of the datafiles in that tablespace or query DBA\_TABLES to find the correct table name.

### ORA-03286    **ALLOCATE EXTENT not valid for HASH CLUSTERS**

**Cause**    The cluster cannot use the allocate extent option because it is a hash cluster.

**Action**    Do not use this command on a hash cluster.

### ORA-03287    **invalid FREELIST GROUP specified**

**Cause**    The specified FREELIST GROUP number is invalid.

**Action**    Choose a number between 1 and the number of freelist groups for this object.

**ORA-03288**    **both FREELIST GROUP and INSTANCE parameters may not be specified**

**Cause**      Both FREELIST GROUP and INSTANCE were specified in clause.

**Action**     Remove one of the two parameters.

---

## 03290–03295: TRUNCATE Command

This section lists messages generated when the TRUNCATE command is used.

**ORA-03290**    **invalid truncate command – missing CLUSTER or TABLE keyword**

**Cause**      An invalid object specification was given for the TRUNCATE command.

**Action**     Check the syntax of the command and retry the operation specifying either TRUNCATE CLUSTER or TRUNCATE TABLE.

**ORA-03291**    **invalid truncate option – missing STORAGE keyword**

**Cause**      The STORAGE keyword was not specified with the DROP or REUSE options of the TRUNCATE command.

**Action**     Check the syntax of the command and retry the operation.

**ORA-03292**    **table to be truncated is a member of a cluster**

**Cause**      An attempt was made to truncate a table that is a member of a cluster.

**Action**     Either truncate the entire cluster or drop and re-create the individual table.

**ORA-03293**    **cluster to be truncated is a HASH CLUSTER**

**Cause**      An attempt was made to truncate a hash cluster. This is not permitted; only index clusters can be truncated.

**Action**     Drop and re-create the cluster instead of using the TRUNCATE command.

## **03296–03299: Resizeable Datafiles**

### **ORA–03296     cannot resize datafile – file *name* not found**

**Cause**     The specified datafile was not available for resizing.

**Action**     Ensure that the datafile name is valid and, if so, ensure that the files is accessible.

For more information about specifying a valid datafile, see the index entry on “filespec” in *Oracle7 Server SQL Reference*.

### **ORA–03297     file contains *num* blocks of data beyond requested RESIZE value**

**Cause**     Some portion of the file in the region to be trimmed is currently in use by a database segment.

**Action**     Drop or move segments containing extents in this region prior to resizing the file, or choose a resize value such that only free space is in the trimmed region.

### **ORA–03298     cannot shrink datafile – file *name* is under hot backup**

**Cause**     An attempt was made to shrink a datafile while it was under hot backup. This is not allowed.

**Action**     Retry shrinking the file after the hot backup completes.

For more information about resizing datafiles, see the index entry “datafiles, automatic extension” in the *Oracle7 Server Administrator’s Guide* and the index entry “resizeable datafiles” in *Oracle7 Server Migration*.

### **ORA–03299     cannot create dictionary table *name***

**Cause**     A dictionary table is created upon the first execution of the command ALTER DATABASE AUTOEXTEND ON for a database. This operation did not succeed. The most probable cause for this is insufficient space in the system tablespace.

**Action**     See the accompanying messages and take appropriate action.

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## **03300–03499: Meiko**

For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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## 03500–03699: Macintosh

See *Oracle7 Server for Macintosh: Error Messages and Codes*. For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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## 03700–03999: AOS/VS

For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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## 04000–04019: Command Parameters

This section lists some of the messages generated when inconsistent values are used in a command.

### ORA-04000    the sum of PCTUSED and PCTFREE cannot exceed 100

**Cause**    The sum of the PCTUSED and PCTFREE values specified for a cluster or table exceeds 100.

**Action**    Create the table or cluster specifying values for PCTUSED and PCTFREE. The sum of these values cannot exceed 100.

### ORA-04001    sequence parameter *str* must be an integer

**Cause**    The specified sequence parameter was not an integer.

**Action**    Create the sequence, giving the specified parameter an integer value.

### ORA-04002    INCREMENT must be a non-zero integer

**Cause**    A sequence increment was specified as zero.

**Action**    Specify the increment as a non-zero value.

### ORA-04003    sequence parameter *num* exceeds the maximum size allowed *num* digits

**Cause**    The specified sequence parameter has too many digits.

**Action**    Specify the parameter with the allowed number of digits and try again.



**ORA-04004    MINVALUE must be less than MAXVALUE**

**Cause**    MINVALUE was specified to be greater than or equal to MAXVALUE.

**Action**    Specify a MINVALUE that is less than MAXVALUE and try again.

**ORA-04005    INCREMENT must be less than MAXVALUE minus MINVALUE**

**Cause**    INCREMENT was specified as equal to or greater than MAXVALUE minus MINVALUE. This is not permitted.

**Action**    Specify INCREMENT as less than MAXVALUE minus MINVALUE and try again.

**ORA-04006    START WITH cannot be less than MINVALUE**

**Cause**    The given starting value is less than MINVALUE.

**Action**    Check that the starting value is not less than MINVALUE and try again.

**ORA-04007    MINVALUE cannot be made to exceed the current value**

**Cause**    The given MINVALUE is greater than the current value.

**Action**    Check that MINVALUE is not greater than the current value and try again.

**ORA-04008    START WITH cannot be more than MAXVALUE**

**Cause**    The starting value is larger than MAXVALUE.

**Action**    Check that the starting value is less than MAXVALUE and try again.

**ORA-04009    MAXVALUE cannot be made to be less than the current value**

**Cause**    The current value exceeds the given MAXVALUE.

**Action**    Check that the new MAXVALUE is larger than the current value and try again.

**ORA-04010    the number of values to CACHE must be greater than 1**

**Cause**    The value specified in the CACHE clause of a CREATE SEQUENCE statement is 1. The default value is 20.

**Action**    Specify NOCACHE or a value greater than 1 and try again.

**ORA-04011      sequence *name* must range between *num* and *num***

**Cause** The value specified for one of the sequence parameters exceeds limits.

**Action** Specify a parameter within these limits.

For more information about CREATE SEQUENCE, see the index entry on “CREATE SEQUENCE” in *Oracle7 Server SQL Reference*.

**ORA-04012      object is not a sequence**

**Cause** The object specified cannot have sequence operations performed on it.

**Action** Re-enter the statement, making sure to spell the sequence name correctly.

**ORA-04013      number to CACHE must be less than one cycle**

**Cause** The number to CACHE specified in a CREATE SEQUENCE statement exceeds the number of values in a cycle.

**Action** Enlarge the cycle or cache fewer values, and try again.

**ORA-04014      descending sequences that CYCLE must specify MIN VALUE**

**Cause** A value was not specified in the CREATE SEQUENCE statement. Sequences that cycle must specify a value at which to begin again.

**Action** Re-create the sequence, specifying the value at which it is to begin.

**ORA-04015      ascending sequences that CYCLE must specify MAX VALUE**

**Cause** A value was not specified in the CREATE SEQUENCE statement. Sequences that cycle must specify a value at which to begin again.

**Action** Recreate the sequence, specifying the value at which it is to begin.

**ORA-04016      sequence *name* no longer exists**

**Cause** Sequence was dropped while processing its next value.

**Action** Recreate the sequence

For more information about CREATE SEQUENCE, see the index entry on “CREATE SEQUENCE” in *Oracle7 Server SQL Reference*.

### **04020–04029: Library Object Locks**

This section lists messages generated when a library object is locked and cannot be accessed.

**ORA-04020     deadlock detected while trying to lock object *name***

**Cause**     While trying to lock a library object, a deadlock is detected.

**Action**     Retry the operation later.

**ORA-04021     time-out occurred while waiting to lock object *name***

**Cause**     While trying to lock a library object, a time-out occurred.

**Action**     Retry the operation later.

**ORA-04028     cannot generate diana for object *name***

**Cause**     A lock conflict prevented the generation of diana for an object.

**Action**     Check the syntax. If no syntax errors are found, report this error to Oracle World Wide Support.

For more information about locks, see the index entry on “lock” in *Oracle7 Server SQL Reference*.

**ORA-04029     error ORA-*num* occurred when querying *name***

**Cause**     The table or view being queried might be missing. Look up the ORA-*num* indicated in the message.

**Action**     Fix the error.

---

### **04030–04039: System Memory**

This section lists messages generated by an Oracle Server when the operating system cannot allocate sufficient memory during an Oracle session.

**ORA-04030     out of process memory when trying to allocate *num* bytes *str*,*str***

**Cause**     Operating system process private memory has been exhausted.

**Action**     See the database administrator or operating system administrator to increase process memory quota. There may be a bug in the application that causes excessive allocations of process memory space.

- ORA-04031**     **unable to allocate *num* bytes of shared memory *num*, *num*, *num***
- Cause**     More shared memory is needed than was allocated in the operating system process. SGA private memory has been exhausted
- Action**     Either use the DBMS\_SHARED\_POOL package to pin large packages, reduce your use of shared memory, or increase the amount of available shared memory by increasing the value set for the SHARED\_POOL\_SIZE initialization parameter.

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## 04040–04069: Stored Procedures

This section lists some of the messages generated when stored procedures are accessed.

- ORA-04041**     **package specification must be created first before creating package body**
- Cause**     An attempt was made to create a package body before creating its package specification.
- Action**     Create the package specification before trying to create the package body.
- ORA-04042**     **procedure, function, package, or package body does not exist**
- Cause**     An attempt was made to access a procedure, function, package, or package body that does not exist.
- Action**     Ensure the name specified is correct.
- ORA-04043**     **object *name* does not exist**
- Cause**     An object name was specified that was not recognized by the system. There are several possible causes:
- An invalid name for a table, view, sequence, procedure, function, package, or package body was entered. Since the system did not recognize the invalid name, it responded with the message that the named object did not exist.
  - An attempt was made to rename an index or a cluster or some other object that cannot be renamed.
- Action**     Check the spelling of the renamed object and rerun the code. Valid names of tables, views, functions, and so forth can be listed by querying the data dictionary.

**ORA-04044      procedure, function, or package is not allowed here**

**Cause**      An attempt was made to specify a procedure, function, or package in an inappropriate place in a statement.

**Action**      Refer to *Oracle7 Server SQL Reference* for the correct placement of procedures, functions, and packages in statements.

**ORA-04045      errors during recompilation/revalidation of *name.name***

**Cause**      Errors occurred during the implicit recompilation/revalidation of the object named in the message.

When Trusted Oracle7 is configured in OS MAC mode, you may get this error if you attempt to select from a view that needs to be recompiled. In particular, if the view is on a lower database and a higher database selects from this view, this error can occur.

**Action**      More descriptive messages follow this one. Check the causes mentioned in the messages that follow and take the appropriate actions.

For Trusted Oracle7 users, if the cause is that the view needs to be recompiled, ensure that it is recompiled before it is selected.

**ORA-04046      results of compilation are too large to support**

**Cause**      An attempt to compile and store a large stored procedure resulted in compilation data that is too large for the system to support or store.

**Action**      Reduce the size of the store procedure by splitting it into smaller stored procedures.

**ORA-04050      invalid or missing procedure, function, or package name**

**Cause**      The required procedure, function, or package name is invalid or missing.

**Action**      Specify a valid name.

**ORA-04051      user *name* cannot use database link *name***

**Cause**      An attempt was made to access a non-existent database link, or a link not owned by the user logging in or PUBLIC, while attempting to access a remote object.

**Action**      Change the database link structure, so all indirect remote access requests are done from the same user originating the request or PUBLIC.

**ORA-04052      error occurred when looking up remote object *name***

**Cause**      An error occurred looking up a remote object.

**Action**      Fix the error. Check that the remote database system has run the script to create necessary views used for querying/looking up objects stored in the database. See the *Oracle7 Server Administrator's Guide*.

**ORA-04053      error occurred when validating remote object *name***

**Cause**      An error occurred trying to validate a remote object.

**Action**      Fix the error. Check that the remote database system has run the script to create necessary views used for querying/looking up objects stored in the database. See the *Oracle7 Server Administrator's Guide*.

**ORA-04054      database link *name* does not exist**

**Cause**      During compilation of a PL/SQL block, an attempt was made to use a non-existent database link.

**Action**      Use a different database link or create the database link.

**ORA-04055      package STANDARD@*name* is incompatible to local package STANDARD**

**Cause**      An attempt was made to compile a remote procedure call, but the remote procedure was compiled using a package STANDARD that has a different time-stamp from the one of the local package STANDARD. Therefore, those package STANDARDS are incompatible with each other and PL/SQL packages, procedures, and functions compiled against the remote package STANDARD are also incompatible with those compiled against the local package STANDARD.

**Action**      Upgrade either the local database or the remote database, whichever is older, to the same version.

**ORA-04060      insufficient privileges to execute *name***

**Cause**      An attempt was made to execute a stored procedure without sufficient privileges.

**Action**      Obtain the necessary privileges through direct grants of the privileges, not through roles.

**ORA–04061    existing state of *name* has been invalidated**

**Cause**    An attempt was made to resume the execution of a stored procedure using the existing state, which has become invalid or inconsistent because the stored procedure has been altered or dropped.

**Action**    Attempt the action again. This action should cause the existing state of all packages to be reinitialized.

**ORA–04062    *name* of *name* has been changed**

**Cause**    An attempt was made to execute a stored procedure to service a remote procedure call stub that specifies a timestamp or signature that is different from the current timestamp or signature of the procedure.

**Action**    Recompile the caller to obtain the new timestamp.

For more information about obtaining a timestamp, see the index entry on “timestamp conflict resolution method” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA–04063    *name* has errors**

**Cause**    An attempt was made to execute a stored procedure that has errors. For stored procedures, the problem could be syntax or references to other, non-existent procedures. For views, the problem could be a reference in the view’s defining query to a non-existent table.

**Action**    Fix the errors and create referenced objects as necessary.

**ORA–04064    not executed, invalidated *name***

**Cause**    An attempt was made to execute a stored procedure that has been invalidated.

**Action**    Recompile the procedure and its dependents.

**ORA–04065    not executed, altered, or dropped *name***

**Cause**    An attempt was made to execute a stored procedure that has been altered or dropped.

**Action**    Recompile the procedure’s dependents.

**ORA–04066    non-executable object, *name***

**Cause**    An attempt was made to execute an object that is not a package, procedure, or function.

**Action**    Check that a correct name is used.

**ORA-04067    not executed, *name* does not exist**

**Cause** An attempt was made to execute a package, procedure, or function that does not exist.

**Action** Check the name in the command.

**ORA-04068    existing state of packages has been discarded**

**Cause** An error occurred when attempting to execute a stored procedure.

**Action** Refer to the accompanying messages and fix the error mentioned. Try the procedure again after proper reinitialization of any application's state.

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**04070–04099: Triggers**

This section lists messages generated when triggers are accessed.

**ORA-04070    invalid trigger name**

**Cause** An invalid trigger name was specified.

**Action** Check that the trigger name is not a reserved keyword.

**ORA-04071    missing BEFORE or AFTER keyword**

**Cause** The trigger statement is missing the BEFORE/AFTER clause.

**Action** Specify either BEFORE or AFTER.

**ORA-04072    invalid trigger type**

**Cause** An invalid trigger type was given.

**Action** Specify either INSERT, UPDATE, or DELETE as the trigger type.

**ORA-04073    column list not valid for this trigger type**

**Cause** A column list was specified for a trigger type other than UPDATE.

**Action** Remove the column list from the trigger.

**ORA-04074    invalid REFERENCING name**

**Cause** An invalid name was given in the REFERENCING clause.

**Action** Check that the REFERENCING name is not a reserved word.



## 04070–04099: Triggers

### ORA–04075    **invalid trigger action**

**Cause**    A statement was given for the trigger action.

**Action**    Specify another trigger action that is not a statement.

### ORA–04076    **invalid NEW or OLD specification**

**Cause**    An invalid NEW or OLD specification was given for a column.

**Action**    Respecify the column using a correct NEW or OLD specification.

### ORA–04077    **WHEN clause cannot be used with table level triggers**

**Cause**    The WHEN clause can only be specified for row–level triggers.

**Action**    Remove the WHEN clause or specify it for each row.

### ORA–04078    **OLD and NEW values cannot be identical**

**Cause**    The REFERENCING clause specifies identical values for NEW and OLD.

**Action**    Specify the REFERENCING clause again with a different value for either NEW or OLD.

### ORA–04079    **invalid trigger specification**

**Cause**    The CREATE TRIGGER statement is invalid.

**Action**    Refer to *Oracle7 Server SQL Reference* for the correct syntax of the CREATE TRIGGER statement.

### ORA–04080    **trigger *name* does not exist**

**Cause**    The trigger name specified is invalid, or the trigger does not exist.

**Action**    Check the trigger name.

### ORA–04081    **trigger *name* already exists**

**Cause**    The trigger name or type already exists.

**Action**    Use a different trigger name or drop the trigger that is of the same type.

### ORA–04082    **NEW or OLD references not allowed in table level triggers**

**Cause**    The trigger is accessing NEW or OLD values in a table trigger.

**Action**    Remove any new or old references.

**ORA-04083    invalid trigger variable *name***

**Cause**    The variable referenced in the trigger body is invalid.

**Action**    See *Oracle7 Server SQL Reference* for valid trigger variable types.

**ORA-04084    cannot change trigger NEW values in after row triggers**

**Cause**    New trigger variables can only be changed in before-row triggers.

**Action**    Change trigger type or remove the variable reference.

**ORA-04085    cannot change the value of an OLD reference variable**

**Cause**    OLD values can only be read and not changed.

**Action**    Do not attempt to change an OLD variable.

**ORA-04086    trigger description too long, move comments into triggering code**

**Cause**    The trigger description is limited to 2000 characters, for dictionary storage reasons. The description does not include the text of the “when” clause or the text of the PL/SQL code executed for the trigger.

**Action**    If the trigger description contains a large comment, move that comment into the PL/SQL code for the trigger.

**ORA-04087    cannot change the value of ROWID reference variable**

**Cause**    ROWIDs can only be read and not changed.

**Action**    Do not attempt to change a ROWID value.

**ORA-04088    error during execution of trigger *name.name***

**Cause**    A runtime error occurred during execution of a trigger.

**Action**    Check the triggers that were involved in the operation.

**ORA-04089    cannot create triggers on objects owned by SYS**

**Cause**    An attempt was made to create a trigger on an object owned by SYS.

**Action**    Do not create triggers on objects owned by SYS.

**ORA-04090    *name* specifies same table, event and trigger time as *name***

**Cause**    The named trigger has a duplicate event and trigger time as another trigger.

**Action**    Combine both triggers into one trigger.

**ORA-04091    table *name* is mutating, trigger/function may not see it**

**Cause**    A trigger or a user-defined PL/SQL function that is referenced in the statement attempted to query or modify a table that was in the middle of being modified by the statement that fired the trigger.

**Action**    Rewrite the trigger or function so it does not read the table.

**ORA-04092    cannot COMMIT or ROLLBACK in a trigger**

**Cause**    A trigger attempted to COMMIT or ROLLBACK. This is not permitted.

**Action**    Rewrite the trigger so that COMMIT or ROLLBACK statements are not used.

**ORA-04093    references to columns of type LONG are not allowed in triggers**

**Cause**    A trigger attempted to reference a LONG column in the triggering table.

**Action**    Do not reference the LONG column.

**ORA-04094    table *name* is constraining, trigger may not modify it**

**Cause**    A trigger attempted to modify a table that was constraining for some referential constraint of a parent SQL statement.

**Action**    Rewrite the trigger so that it does not modify that table.

**ORA-04095    trigger *name* already exists on another table, cannot replace**

**Cause**    An attempt was made to replace a trigger that exists on another table.

**Action**    Re-create the trigger on the other table using the CREATE OR REPLACE TRIGGER statement.

**ORA-04096    trigger *name* has a WHEN clause that is larger than 2K**

**Cause**    A trigger's WHEN clause is limited to 2K for dictionary storage reasons.

**Action**    Use a smaller WHEN clause. Note, the trigger body could perform the same limiting action as the WHEN clause.

**ORA-04097    DDL conflict while trying to drop or alter a trigger**

**Cause**    An attempt was made to concurrently perform two DDL operations on a trigger or trigger table.

**Action**    Investigate the new state of the trigger and retry the DDL operation, if still appropriate.

**ORA-04098    trigger *name* is invalid and failed re-validation**

**Cause**    A trigger was attempted to be retrieved for execution and was found to be invalid. This also means that compilation/authorization failed for the trigger.

**Action**    The options are to resolve the compilation/authorization errors, disable the trigger, or drop the trigger.

For more information about enabling and disabling triggers, see the index entries on “enabling, triggers,” “disabling, triggers,” and “DROP TRIGGER command” in *Oracle7 Server SQL Reference*.

**ORA-04099    trigger *name* is valid but not stored in compiled form**

**Cause**    A trigger was attempted to be retrieved for execution and was found to be valid, but not stored. This may mean the an upgrade was done improperly from a non-stored trigger release.

**Action**    Execute the ALTER <triggername> COMPILE command to compile the trigger. The trigger will then be in stored form. Also, you may want to review that a proper upgrade was done.

For more information about ALTER TRIGGER, see the index entry on “ALTER TRIGGER” in *Oracle7 Server SQL Reference*.

## **04100–04499: MVS**

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## **04100–04499: MVS**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **04500–04899: CMS**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **04900–04929: ICL DRS6000**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **05000–05899: Original Equipment Manufacturers**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **05900–05999: Wang**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **06000–06429: SQL\*Net**

See *Oracle Network Products Troubleshooting Guide* for information on these error messages. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**06430–06499: NCR System 3000**

See *Oracle7 Server for NCR System 3000 Installation and User's Guide*. For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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**06500–06599: PL/SQL**

This section lists messages generated when Oracle detects a problem with PL/SQL code. These *ORA-*nnnnn** messages are usually followed by *PLS-*nnnnn** messages, which are listed in Chapter 3.

**ORA-06500 PL/SQL: storage error**

**Cause** This is a rare internal error message. Memory has been exhausted or corrupted.

**Action** Contact customer support.

**ORA-06501 PL/SQL: internal error *num*, arguments [*num*], [*num*], [*num*], [*num*], [*num*], [*num*]**

**Cause** This is an internal error message. An error has been detected in a PL/SQL program.

**Action** Contact customer support.

**ORA-06502 PL/SQL: numeric or value error**

**Cause** An arithmetic, numeric, string, conversion, or constraint error occurred. For example, this error occurs if an attempt is made to assign the value NULL to a variable declared NOT NULL, or if an attempt is made to assign an integer larger than 99 to a variable declared NUMBER(2).

**Action** Change the data, how it is manipulated, or how it is declared so that values do not violate constraints.

**ORA-06503 PL/SQL: Function returned without value**

**Cause** A call to a PL/SQL function completed, but no RETURN statement was executed.

**Action** Rewrite the PL/SQL function, making sure that it always returns a value of a proper type.

**ORA–06504 PL/SQL: Return types of Result Set variables or query do not match**

**Cause** Number and/or types of columns in a query do not match the declared return type of a Result Set variable, or the declared types of two Result Set variables do not match.

**Action** Change the program statement or declaration. Identify the query to which the variable, during execution, actually refers.

**ORA–06508 PL/SQL: could not find program unit being called**

**Cause** An attempt was made to call a stored program that could not be found. The program may have been dropped or incompatibly modified, or have compiled with errors.

**Action** Check that all referenced programs, including their package bodies, exist and are compatible.

**ORA–06509 PL/SQL: ICD vector missing for this package**

**Cause** This indicates a version clash between some package distributed with an Oracle product and the product executable.

**Action** Contact customer support.

**ORA–06510 PL/SQL: unhandled user-defined exception *str***

**Cause** A user-defined exception was raised by PL/SQL code, but not handled.

**Action** Fix the problem causing the exception or write an exception handler for this condition. It may be necessary to contact the application or database administrator.

**ORA–06511 PL/SQL: cursor already open**

**Cause** An attempt was made to open a cursor that was already open.

**Action** Close the cursor before attempting to reopen it.

**ORA–06512 at *str* line *num***

**Cause** This is usually the last of a message stack and indicates where a problem occurred in the PL/SQL code.

**Action** Fix the problem causing the exception or write an exception handler for this condition. It may be necessary to contact the application or database administrator.

**ORA-06513 PL/SQL: index for PL/SQL table out of range for host language array**

**Cause** An attempt was made to copy a PL/SQL table to a host language array, but an index in the table is either less than one or greater than the maximum size of the host language array. When copying PL/SQL tables to host language arrays, the table entry at index 1 is placed in the first element of the array, the entry at index 2 is placed in the second element of the array, and so on. If a table entry was not assigned, then the corresponding element in the host language array is set to NULL.

**Action** Increase the size of the host language arrays or decrease the size of the PL/SQL table. Also make sure that you do not use index values less than 1.

**ORA-06514 PL/SQL: The remote call cannot be handled by the server**

**Cause** The remote call had parameters that were cursor variables. This cannot be handled by stored procedures on your server.

**Action** Avoid using cursor variables as parameters for stored procedures on this server or upgrade your server to a version that supports this.

For more information about using cursor variables, see the index entry on “cursor variable” in the *PL/SQL User’s Guide and Reference*.

**ORA-06540 PL/SQL compilation error**

**Cause** A PL/SQL compilation error occurred. However, the user generally will not see this error message. Instead, there will be accompanying PLS-nnnnn error messages.

**Action** See accompanying PLS-nnnnn error messages.

**ORA-06541 PL/SQL: compilation error – compilation aborted**

**Cause** A PL/SQL compilation error occurred and the compilation was aborted. However, the user generally will not see this error message. Instead, there will be accompanying PLS-nnnnn error messages.

**Action** See accompanying PLS-nnnnn error messages.

**ORA-06544 PL/SQL: internal error, arguments:arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8**

**Cause** A PL/SQL internal error occurred.

**Action** Report this as a bug; the first argument is the internal error number.



**ORA-06550      line *num*, column *num*: *str***

**Cause**      A PL/SQL compilation error has occurred. The numbers given for line and column are the location in the PL/SQL block where the error occurred.

**Action**      Refer to the following PL/SQL messages for more information about the error.

**ORA-06554      package DBMS\_STANDARD must be created before using PL/SQL**

**Cause**      The data dictionary script required by PL/SQL has not yet been run.

**Action**      See the *Oracle7 Server Administrator's Guide* and your Oracle7 operating system-specific documentation for more information.

**ORA-06555      this name is currently reserved for use by user SYS**

**Cause**      An attempt was made to create a user-owned package named STANDARD, DBMS\_STANDARD, or DBMS\_OUTPUT. This is not allowed.

**Action**      Choose another name for the package.

**ORA-06556      the pipe is empty, cannot fulfill the UNPACK\_MESSAGE request**

**Cause**      There are no more items in the pipe.

**Action**      Check that the sender and receiver agree on the number and types of items placed on the pipe.

**ORA-06557      null values are not allowed for any parameters to pipe ICD's**

**Cause**      Internal error from the DBMS\_PIPE package.

**Action**      Contact customer support.

**ORA-06558      buffer in DBMS\_PIPE package is full. No more items allowed**

**Cause**      The pipe buffer size has been exceeded.

**ORA-06559      wrong datatype requested, *type*, actual datatype is *type***

**Cause**      The sender put a different datatype on the pipe than that being requested, package DBMS\_PIPE. The recognized datatypes and the corresponding numbers are: 6 – number, 9 – char, 12 – date.

**Action**      Check that the sender and receiver agree on the number and types of items placed on the pipe.

- ORA-06562      type of OUT argument must match type of column or bind variable**
- Cause** An attempt was made to get the value of a column or a bind variable by calling procedure COLUMN\_VALUE or VARIABLE\_VALUE of package DBMS\_SQL. However, the type of the given out argument was different from the type of the column or bind variable that was previously defined by calling procedure DEFINE\_COLUMN, for defining a column, or BIND\_VARIABLE, for binding a bind variable, of package DBMS\_SQL.
- Action** Pass in an OUT argument of the correct type when calling procedure COLUMN\_VALUE or VARIABLE\_VALUE. The right type is the type that was provided when defining the column or binding the bind variable.
- ORA-06560      pos, *num*, is negative or larger than the buffer size, *num***
- Cause** Internal error from the DBMS\_PIPE package.
- Action** Contact customer support.
- ORA-06563      top level procedure or function specified, cannot have subparts**
- Cause** The name to be resolved was specified with three parts, a.b.c, but the a.b part resolves to a top level procedure or function that does not have nested procedures. This can also happen with a two-part name, a.b, where a is a synonym for a top level package or procedure.
- Action** Specify a procedure or function within a package or a top level procedure or function.
- ORA-06564      object *name* does not exist**
- Cause** The named object could not be found. Either it does not exist or you do not have permission to access it.
- Action** Create the object or get permission to access it.
- ORA-06565      cannot execute *name* from within stored procedure**
- Cause** The named procedure cannot be executed from within a stored procedure, function, or package. This function can only be used from PL/SQL anonymous blocks.
- Action** Remove the procedure from the calling stored procedure.

**ORA-06566    invalid number of rows specified**

**Cause**    An invalid number of rows was specified in a call to the procedures `DEFINE_COLUMN` in the package `DBMS_SQL`. For a given parsed statement in a given cursor, all columns must be defined to have the same number of rows, so all the calls to `DEFINE_COLUMN` must specify the same number of rows.

**Action**    Specify a number that matches the number for previously defined columns.

**ORA-06567    invalid number of values specified**

**Cause**    An invalid number of values to be bound was specified in a call to the procedure `BIND_VARIABLE` in the package `DBMS_SQL`. For a given parsed statement in a given cursor, the same number of values must be bound for all bind variables, so all the calls to `BIND_VARIABLE` must specify the same number of values.

**Action**    Make sure that the same number of values are given for each of the bind variables.

**ORA-06568    obsolete ICD procedure called**

**Cause**    An obsolete ICD procedure was called by a PL/SQL program. The PL/SQL program was probably written for an earlier release of Oracle.

**Action**    Ensure that all PL/SQL packages are upgraded to the latest release of Oracle by following the upgrade instructions noted in the README document or by running the `CATPROC.SQL` script.

**ORA-06570    shared pool object does not exist, cannot be pinned**

**Cause**    The specified shared pool shared cursor could not be found. Therefore, it cannot be pinned.

**Action**    Make sure that a correct shared cursor name is given. Names are a string of the form `'HHHHHHHH,SDDDDDDDDDD'` where the H's are an 8-digit hex number from the 'address' column of `V$SQLAREA`, and the D's are a 1- to 10-digit decimal number with an optional leading sign from the 'hash\_value' column.

**ORA-06571    function *name* does not guarantee not to update database**

**Cause** There are two possible causes for this message:

- A SQL statement references a packaged PL/SQL function that does not contain a pragma that prevents the database from being updated.
- A SQL statement references a stand-alone, PL/SQL function that contains an instruction to update the database.

**Action** If the referenced function is a packaged PL/SQL function: Recreate the PL/SQL function with the required pragma; be certain to include the 'Write No Database State' (WNDS) argument in the argument list of the pragma.

If the referenced function is a stand-alone PL/SQL function: Do not use the function.

**ORA-06572    function *name* has out arguments**

**Cause** A SQL statement references either a packaged or a stand-alone PL/SQL function that contains an OUT parameter in its argument list. PL/SQL functions referenced by SQL statements must not contain the OUT parameter.

**Action** Recreate the PL/SQL function without the OUT parameter in the argument list.

**ORA-06573    function *name* modifies package state, cannot be used here**

**Cause** There are two possible causes for this message:

- A SQL statement references a packaged PL/SQL function that does not contain a pragma containing the 'Write no PackageState' (WNPS).
- A SQL statement references a stand-alone PL/SQL function that modifies a package state. A stand-alone PL/SQL function referenced by a SQL statement cannot modify a package state.

**Action** If the function is a packaged PL/SQL function: recreate the function and include a pragma containing the 'Write no Package State' (WNPS).

If the function is a stand-alone PL/SQL function: delete the function from the SQL statement.

**ORA-06574     function *name* references package state, cannot execute remotely**

**Cause** There are two possible causes for this message:

- A remote packaged function or a remote-mapped, local packaged function that does not contain a pragma with the 'Write no Package State' (WNPS) and 'Read no Package State' (RNPS) arguments references a package state.
- A remote stand-alone function or a remote-mapped, local stand-alone function contains a reference to a package state that reads or writes a package variable.

Only local functions that are referenced in a SELECT list, VALUES clause of an INSERT statement, or SET clause of an UPDATE statement can modify a package state.

**Action** If the function is a packaged function: Recreate the function and include a pragma containing the 'Write no Package State' (WNPS) and 'Read no Package State' (RNPS) arguments.

If the function is a stand-alone function: Do not call the function.

**ORA-06575     function *name* is in an invalid state**

**Cause** A SQL statement references a PL/SQL function that is in an invalid state. Oracle attempted to compile the function, but detected errors.

**Action** Check the SQL statement and the PL/SQL function for syntax errors or incorrectly assigned, or missing, privileges for a referenced object.

**ORA-06580     Hash Join ran out of memory while keeping large rows in memory**

**Cause** Hash Join reserved 3 slots (each slot size = DB\_BLOCK\_SIZE \* HASH\_JOIN\_MULTIBLOCK\_IO\_COUNT) for a row. If a row is larger than that, this error will be raised.

**Action** Increase HASH\_JOIN\_MULTIBLOCK\_IO\_COUNT so that each joined row fits in a slot. HASH\_AREA\_SIZE may also need to be increased.

For more information about hashing and managing hash clusters, see the index entries on “hash clusters” in the *Oracle7 Server Application Developer's Guide* and on “hashing, how to use” in *Oracle7 Server Tuning*.

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**06581–06591: European OEM Ports**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**06600–06699: SQL\*Net**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**06700–06899: SQL\*Net TLI**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**06900–06939: CMX**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**06950–06999: SQL\*Net AppleTalk**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**07000–07099: SQL\*Connect for DB2**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

## **07100–07199: SQL\*Connect for IMS**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **07200–07499: UNIX**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **07500–07999: VAX/VMS**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## **08000–08174: Accessing Data**

This section lists messages generated when Oracle is accessing data or database objects.

### **ORA–08000    maximum number of session sequence lists exceeded**

**Cause** This is an internal error message not normally issued.

**Action** Contact customer support.

### **ORA–08001    maximum number of sequences per session exceeded**

**Cause** An operation requested a resource that was unavailable. The maximum number of user sequences per session is specified by the initialization parameter `DC_SEQUENCES`. When this maximum is reached, no more requests are processed.

**Action** Try the operation again in a few minutes. If this error occurs often, shut down Oracle, increase the `DC_SEQUENCES` parameter in the initialization parameter file, and restart Oracle.

**ORA-08002     *name.CURRVAL* is not yet defined in this session**

**Cause** Sequence CURRVAL was selected before sequence NEXTVAL was referenced.

**Action** Select NEXTVAL from the sequence before selecting CURRVAL.

**ORA-08003     sequence *name.NEXTVAL* exceeds internal limits**

**Cause** The sequence was created with unsafe values for some of the parameters. The calculation of NEXTVAL cannot be made because it exceeds the legal representation size.

**Action** Alter or recreate the sequence number with legal limits.

**ORA-08004     *name.NEXTVAL str* [MIN][MAX]VALUE and cannot be instantiated**

**Cause** The requested value of NEXTVAL is greater than MAXVALUE or less than MINVALUE.

**Action** Alter the sequence so that a new value can be requested and try again.

**ORA-08005     specified row does not exist**

**Cause** A row with the given ROWID does not exist in any of the specified tables.

**Action** Check the query for a misspelled ROWID or table name and try again.

**ORA-08006     specified row no longer exists**

**Cause** The row has been deleted by another user since the operation began.

**Action** No action required.

**ORA-08008     another instance is mounted with USE\_ROW\_ENQUEUEES = *num***

**Cause** The shared instance being started does not have the same value for the USE\_ROW\_ENQUEUEES initialization parameter as already-running instances.

**Action** Make sure all instances' initialization parameter files specify the same value for the USE\_ROW\_ENQUEUEES parameter and try again.

**ORA-08100     index is not valid – see trace file for diagnostics**

**Cause** There is an error in the index validated by VALIDATE INDEX.

**Action** Check the relevant trace file. If the problem is not resolvable, contact customer support.



## 08175–08190: Discrete Transactions

### ORA–08101    **index key does not exist root dba *num*, dba *num num***

**Cause**    The system detected a possible inconsistency in an index. This is an internal error message that is not normally issued.

**Action**    Send the trace file to customer support, along with a description of the circumstances that produced the error. Customer support will need the numbers given in the message.

### ORA–08102    **index key not found, obj# *num*, dba *num num***

**Cause**    The system detected a possible inconsistency in an index. This is an internal error message that is not normally issued.

**Action**    Send the trace file to customer support, along with a description of the circumstances that produced the error. Customer support will need the numbers given in the message.

### ORA–08103    **object no longer exists**

**Cause**    The object has been deleted by another user since the operation began.

**Action**    Remove references to the object.

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## 08175–08190: Discrete Transactions

### ORA–08175    **discrete transaction restriction violated *name***

**Cause**    An attempt was made to perform an action that is not currently supported in a discrete transaction.

**Action**    Rollback the transaction and retry it as a normal transaction.

### ORA–08176    **cannot continue consistent read for the table/index – no undo records**

**Cause**    Oracle encountered an operation that does not generate undo records. For example, the operation might have been an attempt to create an index by performing a direct load or executing a discrete mode transaction.

**Action**    Retry the operation with a different snapshot time. If using an index, retry the operation without using the index.

**ORA-08177    cannot serialize access for this transaction**

**Cause**    Oracle encountered data changed by an operation that occurred after the start of this serializable transaction.

**Action**    In read/write transactions, retry the intended operation or transaction.

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**08200–08399: nCUBE**

For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**08401–08499: PL/SQL Utility Packages for Procedural Gateway**
**ORA-08401    invalid compiler name: *name***

**Cause**    An invalid compiler name was passed to a UTL\_PG conversion routine.

**Action**    Correct the compiler name parameter in the PL/SQL code that called the conversion routine.

**ORA-08412    error encountered in WMSGBSIZ, size for WMSGBLK is not big enough for warning message**

**Cause**    The WMSGBSIZ is the maximum size for warning message block, it is recommended to be 1024 bytes to 8 kbytes.

**Action**    Defined WMSGBLK of size between 1k to 8k bytes and update the WMSGBSIZ to the size of WMSGBLK.

**ORA-08413    invalid compiler type in FORMAT parameter at *name***

**Cause**    An invalid compiler type was defined in the format control block. The format control block is invalid.

**Action**    Check to be sure that the format parameter was built by MAKE\_RAW\_TO\_NUMBER\_FORMAT or MAKE\_NUMBER\_TO\_RAW\_FORMAT and that it was not accidentally overwritten or modified by the PL/SQL procedure.

**ORA-08414      error encountered in *name***

**Cause**      The function <routine> returned an error. Where <routine> may be:  
RAW\_TO\_NUMBER  
NUMBER\_TO\_RAW  
RAW\_TO\_NUMBER\_FORMAT  
NUMBER\_TO\_RAW\_FORMAT  
MAKE\_NUMBER\_TO\_RAW\_FORMAT  
MAKE\_RAW\_TO\_NUMBER\_FORMAT

**Action**      This message will be preceded by messages providing details about the error.  
Check those messages to determine what action to take.

**ORA-08429      raw data has invalid digit in display type data**

**Cause**      The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion  
routine contained invalid data. The picture mask parameter specified a digit,  
but the corresponding input from the raw data did not contain a valid digit.

**Action**      Either the input data is incorrect, or the picture mask is incorrect. Correct the  
appropriate item.

**ORA-08430      raw data missing leading sign**

**Cause**      The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion  
routine had no leading sign, but the mask options parameter specified a  
leading sign.

**Action**      Correct the input raw data or the mask options so that they match.

**ORA-08431      raw data missing zero as defined in picture**

**Cause**      The picture mask parameter passed to a UTL\_PG RAW\_TO\_NUMBER  
conversion routine contained a zero, but the corresponding input from the raw  
data was not a zero.

**Action**      Either the input data is incorrect, or the picture mask is incorrect. Correct the  
appropriate item.

**ORA-08432      raw data has invalid floating point data**

**Cause**      The input raw data passed to a UTL\_PG RAW\_TO\_NUMBER conversion  
routine contained invalid floating point data.

**Action**      Correct the input raw data.

**ORA-08433     invalid picture type in convert raw to number**

**Cause**     The picture mask parameter passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine contained non-numeric characters, but the conversion was to a numeric data type.

**Action**     Correct the picture mask parameter.

**ORA-08434     raw data has invalid trailing sign**

**Cause**     The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine had no trailing sign, but the mask options parameter specified a trailing sign.

**Action**     Correct the input raw data or the mask options so that they match.

**ORA-08435     PICTURE MASK missing the leading sign when SIGN IS LEADING specified**

**Cause**     The input MASK passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine had no leading sign, but the mask options parameter specified a leading sign.

**Action**     Correct the input raw data or the mask options so that they match.

**ORA-08436     raw data has invalid sign digit**

**Cause**     The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine had an invalid sign digit in the position where the picture mask specified a sign.

**Action**     Correct the input raw data or the picture mask so that they match.

**ORA-08437     invalid picture type in picture mask**

**Cause**     The picture mask parameter passed to a UTL\_PG NUMBER\_TO\_RAW conversion routine contained non-numeric characters, but the conversion was to a numeric data type.

**Action**     Correct the picture mask parameter.

**ORA-08440     raw buffer is too short to hold converted data**

**Cause**     The output raw buffer passed to a UTL\_PG NUMBER\_TO\_RAW conversion routine was not large enough to contain the results of the conversion based on the picture mask.

**Action**     Increase the raw buffer size to the size necessary to hold the entire result of the conversion.

**ORA-08441     closed parenthesis missing in picture mask**

**Cause**     A closed parenthesis was missing from the picture mask passed to a UTL\_PG conversion routine.

**Action**     Correct the picture mask.

**ORA-08443     syntax error in BLANK WHEN ZERO clause in mask options**

**Cause**     A syntax error was found in the BLANK WHEN ZERO clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: BLANK ZERO, BLANK ZEROS, BLANK ZEROES, BLANK WHEN ZERO, BLANK WHEN ZEROS, and BLANK WHEN ZEROES.

**Action**     Correct the mask options parameter.

**ORA-08444     syntax error in JUSTIFIED clause in mask options**

**Cause**     A syntax error was found in the JUSTIFIED clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: JUST, JUST RIGHT, JUSTIFIED, and JUSTIFIED RIGHT.

**Action**     Correct the mask options parameter.

**ORA-08445     syntax error in SIGN clause in mask options**

**Cause**     A syntax error was found in the SIGN clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: SIGN, LEADING SIGN, LEADING SEPARATE SIGN, LEADING SEPARATE CHARACTER SIGN, TRAILING SIGN, TRAILING SEPARATE SIGN, TRAILING SEPARATE CHARACTER SIGN IS LEADING, SIGN IS LEADING, SEPARATE SIGN IS LEADING, SEPARATE CHARACTER SIGN IS TRAILING, SIGN IS TRAILING, SEPARATE SIGN IS TRAILING, and SEPARATE CHARACTER.

**Action**     Correct the mask options parameter.

**ORA-08446     syntax error in SYNCHRONIZED clause in mask options**

**Cause**     A syntax error was found in the SYNCHRONIZED clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: SYNC, SYNC LEFT, SYNC RIGHT, SYNCHRONIZED, SYNCHRONIZED LEFT, and SYNCHRONIZED RIGHT.

**Action**     Correct the mask options parameter.

**ORA-08447     syntax error in USAGE clause in mask options**

**Cause** A syntax error was found in the USAGE clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: USAGE, DISPLAY USAGE, COMP USAGE, COMP-3 USAGE, COMP-4 USAGE, COMPUTATIONAL USAGE, COMPUTATIONAL-3 USAGE, COMPUTATIONAL-4 USAGE IS, DISPLAY USAGE IS, COMP USAGE IS, COMP-3 USAGE IS, COMP-4 USAGE IS, COMPUTATIONAL USAGE IS, COMPUTATIONAL-3 USAGE IS, and COMPUTATIONAL-4.

**Action** Correct the mask options parameter.

**ORA-08448     syntax error in DECIMAL-POINT environment clause**

**Cause** A syntax error was found in the DECIMAL-POINT environment clause parameter passed to a UTL\_PG conversion routine. Valid specifications are: DECIMAL-POINT IS COMMA.

**Action** Correct the environment clause parameter.

**ORA-08449     invalid numeric symbol found in picture mask**

**Cause** An invalid numeric symbol was found in the picture mask parameter passed to a UTL\_PG conversion routine.

**Action** Correct the picture mask parameter.

**ORA-08450     invalid specification of CR in picture mask**

**Cause** The CR suffix was incorrectly specified in the picture mask parameter passed to a UTL\_PG conversion routine. The CR suffix can only appear at the end of a picture mask.

**Action** Correct the picture mask parameter.

**ORA-08451     invalid specification of DB in picture mask**

**Cause** The DB suffix was incorrectly specified in the picture mask parameter passed to a UTL\_PG conversion routine. The DB suffix can only appear at the end of a picture mask.

**Action** Correct the picture mask parameter.

**ORA-08452      specification of E in picture mask is unsupported**

**Cause**      The floating point exponent symbol “E” was specified in the picture mask parameter passed to a UTL\_PG conversion routine. The floating point data type is currently not supported by the UTL\_PG conversion routines.

**Action**      Correct the picture mask parameter, and the data, if necessary.

**ORA-08453      more than one V symbol specified in picture mask**

**Cause**      The picture mask passed to a UTL\_PG conversion routine contained more than one decimal point indicator “V”. Only one decimal point indicator is allowed in the picture mask.

**Action**      Correct the picture mask parameter.

**ORA-08454      more than one S symbol specified in picture mask**

**Cause**      The picture mask passed to a UTL\_PG conversion routine contained more than one operational sign indicator “S”. Only one operational sign indicator is allowed in the picture mask.

**Action**      Correct the picture mask parameter.

**ORA-08455      syntax error in CURRENCY SIGN environment clause**

**Cause**      A syntax error was found in the CURRENCY SIGN environment clause parameter passed to a UTL\_PG conversion routine. Valid specifications are: CURRENCY SIGN IS x, where x is a valid currency sign.

**Action**      Correct the environment clause parameter.

**ORA-08456      no sign in picture mask but SIGN clause in mask options**

**Cause**      The picture mask parameter passed to a UTL\_PG conversion routine contained no sign symbol, “S”, “+”, or “-”, but the mask options parameter contained a SIGN clause. A sign symbol is required in the picture mask parameter when the mask options parameter contains a SIGN clause.

**Action**      Correct the picture mask parameter or the mask options parameter.

**ORA-08457      syntax error in SEPARATE CHARACTER option of SIGN clause**

**Cause**      A syntax error was found in the SEPARATE CHARACTER option of the SIGN clause in the mask options parameter passed to a UTL\_PG conversion routine. Valid specifications are: SEPARATE and SEPARATE CHARACTER.

**Action**      Correct the mask options parameter.

**ORA-08458    invalid format parameter**

**Cause**    The format parameter passed to a UTL\_PG conversion routine was invalid. The format parameter should have been built by a prior call to either MAKE\_RAW\_TO\_NUMBER\_FORMAT or MAKE\_NUMBER\_TO\_RAW\_FORMAT.

**Action**    Check to be sure that the format parameter was built by MAKE\_RAW\_TO\_NUMBER\_FORMAT or MAKE\_NUMBER\_TO\_RAW\_FORMAT and that it was not accidentally overwritten or modified by the PL/SQL procedure.

**ORA-08459    invalid format parameter length**

**Cause**    The format parameter passed to a UTL\_PG conversion routine was not the correct length. Format parameters must be 2048 bytes in length.

**Action**    Check to be sure that the format parameter was built by MAKE\_RAW\_TO\_NUMBER\_FORMAT or MAKE\_NUMBER\_TO\_RAW\_FORMAT and that it was not accidentally overwritten or modified by the PL/SQL procedure.

**ORA-08460    invalid environment clause in environment parameter**

**Cause**    The environment parameter passed to a UTL\_PG conversion routine contained an unsupported or invalid environment clause. Only the CURRENCY SIGN and the DECIMAL-POINT IS COMMA environment clauses are supported.

**Action**    Correct the environment parameter.

**ORA-08462    raw buffer contains invalid decimal data**

**Cause**    The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine contains invalid decimal data.

**Action**    Correct the input data.

**ORA-08463    overflow converting decimal number to Oracle number**

**Cause**    The output variable passed to a UTL\_PG RAW\_TO\_NUMBER was not large enough to hold the Oracle number resulting from the input decimal number.

**Action**    Be sure that the input decimal number is valid, and be sure that the output variable is large enough to hold the Oracle number value.



**ORA–08464     input raw decimal data contains more than 42 digits**

**Cause**     The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine contained more than 42 digits. This exceeds the maximum size of an Oracle number.

**Action**     Correct the raw input buffer.

**ORA–08465     input mask contains more than 32 characters**

**Cause**     The input mask passed to UTL\_PG numeric conversion routine contained more the 32 characters.

**Action**     Correct the mask input buffer.

**ORA–08466     raw buffer length *num* is too short for *name***

**Cause**     The input raw buffer passed to a UTL\_PG RAW\_TO\_NUMBER conversion routine was less than *num* bytes long, but the picture mask parameter specified that *num* bytes of input data were to be converted.

**Action**     Either the input data is incorrect, or the picture mask is incorrect. Correct the appropriate item.

**ORA–08467     error converting Oracle number to *num***

**Cause**     An error occurred when converting an Oracle number to a COBOL <type> of:  
DISPLAY  
COMP–3  
or character variable.  
The Oracle number was not in the correct format.

**Action**     Correct the call to the conversion routine. The input must be a valid Oracle number variable.

**ORA-08468     mask option *name* is not supported**

**Cause**     The mask option <clause> was passed to a UTL\_PG conversion routine, but is not supported by UTL\_PG.  
The <clause> can be:  
USAGE IS POINTER  
USAGE IS INDEX  
USAGE IS COMP-1  
USAGE IS COMP-2  
POINTER

**Action**     Remove the <clause> from the mask options parameter in the PL/SQL call to UTL\_PG.

**ORA-08498     Warning: picture mask *name* overrides picture mask option USAGE IS *name* to USAGE IS DISPLAY**

**Cause**     Picture mask option is overridden by Picture mask

**Action**     no action need, just for information.

**ORA-08499     Warning: picture mask options *name* ignored by UTL\_PG**

**Cause**     Picture mask options such as OCCUR, SYNC and others are not processed by the UTL\_PG numeric conversion routines.

**Action**     This is an informational message only. The message may be eliminated by removing the unnecessary picture mask options from the parameter list passed to the UTL\_PG routine.

**08500–09099: SQL\*Connect**

For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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**09100–09199: Oracle Gateways**

This section lists messages that are returned to an Oracle7 client application because a problem occurred while accessing a non-Oracle system, known as a target system, using an Oracle gateway.

**ORA–09100    target system returned following message:**

**Cause**    A target system being accessed by an Oracle gateway returned an error that could not be handled by the gateway server. This message is followed by a second message generated by the target system or the gateway.

**Action**    See the documentation for the target system for an explanation of the second message.

**ORA–09101    target system communication error**

**Cause**    The gateway encountered an error when communicating with the target system. This message will generally be followed by a second message generated either by the target system or the gateway.

**Action**    See the documentation for the target system for an explanation of the second message.

**ORA–09102    gateway internal communication error**

**Cause**    The Oracle gateway encountered an internal error during communication with a module that is part of the gateway.

**Action**    Contact customer support.

**ORA–09103    gateway internal protocol error**

**Cause**    The Oracle gateway encountered an internal error during communication with an internal module.

**Action**    Contact customer support.

**ORA-09104      gateway internal cross-communication error**

**Cause**      The Oracle gateway encountered an internal error during communication with a module that is part of the gateway but located in a different process.

**Action**      Contact customer support.

**ORA-09105      failed to acquire storage space in target system**

**Cause**      For an Oracle gateway, the amount of storage available within the target system was reached. This message is followed by a second message generated by the target system.

**Action**      See the documentation for the target system for an explanation of the second message.

**ORA-09106      target system could not obtain IO resource**

**Cause**      The target system was unable to open a file, data set, or other resource needed to perform the I/O. This message is followed by a second message generated by the target system.

**Action**      See the documentation for the target system for an explanation of the second message.

**ORA-09107      definition of a target system object may have changed**

**Cause**      In an Oracle transparent gateway, an attempt was made to execute a SQL statement whose definition in the GDDL source may be out of date. The timestamp in the gateway data dictionary is different from the timestamp in the target system.

**Action**      Use the Transparent Gateway Administrator utility to replace the table using the revised GDDL source.

**ORA-09108      invalid record in target system**

**Cause**      The Oracle gateway or the target system noticed that the record is not valid according to its definition. This message is followed by a second message generated by the gateway or the target system depending on the error.

**Action**      See the gateway documentation or the documentation for the target system for an explanation of the second error message.

**ORA-09109      view “*view\_name*” cannot be used in a subquery**

**Cause**      The view definition contains a set operator, which makes it impossible to use that view definition in a subquery. This message can occur only in SQL-based gateways.

**Action**      Do not use the view in a subquery.

**ORA-09110      view “*view\_name*” defines operation not supported on the target system**

**Cause**      In a user-developed gateway, the implementor defined a view that defines an Oracle table in terms of other data source tables, and this definition contains SQL elements not supported by that system.

**Action**      Contact the implementor to correct the view definition error.

**ORA-09111      data manipulation operation not legal on this object**

**Cause**      In an Oracle transparent gateway, the target system rejected an insert, delete, or update operation. This message is followed by a second message generated by the target system.

**Action**      See the documentation for the target system for an explanation of the second message.

**ORA-09112      target system check constraint violated**

**Cause**      The values being inserted or updated do not satisfy the check constraint in the transparent gateway. This message is followed by a second message generated by the target system or the gateway.

**Action**      See the documentation for the target system or your Oracle7 operating system-specific documentation for an explanation of the second message.

**ORA-09113      target system integrity constraint violated**

**Cause**      The values being inserted, updated, or deleted do not satisfy the integrity constraints defined in the target system in a transparent gateway. This message is followed by a second message generated by the target system or the gateway.

**Action**      See the documentation for the target system or your Oracle7 operating system-specific documentation for an explanation of the second message.

**ORA-09114     target system is out of memory**

**Cause** A target system being accessed by an Oracle gateway ran out of memory. This message is followed by a second message generated by the target system.

**Action** See the documentation for the target system for an explanation of the second message.

**ORA-09115     target system has timed out**

**Cause** A target system being accessed by an Oracle gateway timed out. This error occurs when system resource usage is too high for the request to be served in a reasonable time or when a deadlock, or some other wait condition, occurred in the target system. This message is followed by a second message generated by the target system or the gateway.

**Action** See the documentation for the target system or your Oracle7 operating system-specific documentation for an explanation of the second message.

**ORA-09116     definition of target system data object is inconsistent**

**Cause** In an Oracle transparent gateway, The target system was unable to perform the initial operations necessary to access the mapped table. The GDDL source specifies certain fields or options that are not supported for this gateway configuration.

**Action** Correct the GDDL source and issue the Transparent Gateway Administrator command to CREATE OR REPLACE or DROP the table.

**ORA-09117     bind-value cannot be translated into SQL text**

**Cause** For the SQL-based transparent gateway, the target system does not support binds, or binds are disabled using the RESOLVE\_BINDS gateway initialization parameter.

**Action** Enable binds or do not bind using datatypes not supported in SQL text.

**ORA-09118     maximum number of savepoints exceeded**

**Cause** For the SQL-based transparent gateway, the target system was unable to set the savepoint because the maximum number of active savepoints was reached.

**Action** Re-organize the transaction so that this limit is not reached or increase the maximum in the target system if that is possible.

**ORA–09119     initialization file contains error**

**Cause**     An Oracle gateway server encountered an error in the gateway server initialization file. This message is followed by a second message. If the second message did not follow, it can be found in the gateway log file.

**Action**     Refer to the second message to fix the initialization file.

**ORA–09120     gateway has timed out access to target system**

**Cause**     The Oracle Gateway request was not serviced within the specified time by the target system.

**Action**     See your Oracle7 operating system–specific documentation for an explanation of when this error can occur.

**ORA–09121     fetch exceeds maximum number of records defined for table**

**Cause**     The transparent gateway detected that a query will retrieve more rows than the maximum defined in the GDDL for mapped table.

**Action**     See your Oracle7 operating system–specific documentation for an explanation of when this error can occur.

**ORA–09122     access to object “*name*” denied**

**Cause**     An Oracle transparent gateway denied access to the specified object.

**Action**     Log in as a user with access to the object or change the access permission of the object.

**ORA–09123     ROWID not found in gateway rowid cache**

**Cause**     For the transparent gateway, the ROWID cache holds no entry that corresponds to the specified ROWID. Possibly, the ROWID entry was overwritten in the gateway ROWID cache.

**Cause**     Increase the size of the gateway ROWID cache by setting the value of the ROWID\_CACHE\_SIZE gateway initialization parameter to a higher value and restart the gateway server.

**ORA–09124     in *name* argument *name*: Index out of range**

**Cause**     The transparent gateway server detected that the index for a mapped table is bigger than allowed by the definition in the GDDL source.

**Action**     Modify the query or the GDDL source so that the index is in range.

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**09200–09499: DOS, OS/2, and Novell**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**09500–09699: MPE/XL**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**09700–09999: UNIX**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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**10000–10999: Internal**

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**11000–11999: SQL\*Net MVS**

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.



**12000–12019: Table Snapshots**

This section lists messages generated when table snapshots are accessed.

**ORA-12000      a snapshot log already exists on table *name***

**Cause**      An attempt was made to create a snapshot log on a table that already has a snapshot log. Each master table can have only one snapshot log.

**Action**      All snapshots on a table can use the same snapshot log for that table. To make changes to the existing log, use the ALTER SNAPSHOT LOG command or drop the snapshot log and create it again.

**ORA-12001      cannot create log: table *name* already has a trigger**

**Cause**      An attempt was made to create a snapshot log on a table when the table already had an AFTER ROW trigger. Snapshot logs are filled by an AFTER ROW trigger on the master table, so the trigger cannot be created.

**Action**      If it is necessary to create a snapshot log, drop the current trigger on the master table.

**ORA-12002      there is no snapshot log on table *name***

**Cause**      An attempt was made to drop a snapshot that does not exist.

**Action**      Check spelling, syntax, and use an existing snapshot name.

**ORA-12003      snapshot *name* does not exist**

**Cause**      An attempt was made to reference a snapshot that does not exist.

**Action**      Check the name of the snapshot in the statement for typing errors. Retry the statement with an existing snapshot name.

**ORA-12004      REFRESH FAST cannot be used**

**Cause**      An attempt to fast refresh a snapshot was made when the master table for the snapshot has no snapshot log, or the snapshot log cannot be used.

**Action**      To REFRESH FAST, first create a snapshot log on the master table. Otherwise, use the REFRESH COMPLETE option of the ALTER SNAPSHOT command. If these options are omitted, Oracle decides the appropriate method for refreshing.

|                  |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORA-12005</b> | <b>may not schedule automatic refresh for times in the past</b>                                                                                                                                                                                                                                                                                                                               |
| <b>Cause</b>     | An attempt was made to schedule an automated snapshot refresh for a time in the past.                                                                                                                                                                                                                                                                                                         |
| <b>Action</b>    | Choose a time in the future for the automated snapshot refresh.                                                                                                                                                                                                                                                                                                                               |
| <b>ORA-12006</b> | <b>a snapshot with the same <i>user.name</i> already exists</b>                                                                                                                                                                                                                                                                                                                               |
| <b>Cause</b>     | An attempt was made to create a snapshot with the name of an existing snapshot.                                                                                                                                                                                                                                                                                                               |
| <b>Action</b>    | Create the snapshot using a different name or drop the existing snapshot.                                                                                                                                                                                                                                                                                                                     |
| <b>ORA-12007</b> | <b>snapshot reuse parameters are inconsistent</b>                                                                                                                                                                                                                                                                                                                                             |
| <b>Cause</b>     | During Import or Export, the CREATE SNAPSHOT or CREATE SNAPSHOT LOG.. REUSE command was given inconsistent parameters immediately after the REUSE.                                                                                                                                                                                                                                            |
| <b>Action</b>    | Other messages will accompany this message. Examine the other messages for a more complete description of the problem.                                                                                                                                                                                                                                                                        |
| <b>ORA-12008</b> | <b>error in snapshot refresh path</b>                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cause</b>     | Some problem is preventing the snapshot from reading the view on the master table. A number of events could cause this problem, among them the following: <ul style="list-style-type: none"> <li>• The master table no longer exists.</li> <li>• A column was added to the master table, and the view was not altered.</li> <li>• The master is at a remote site and inaccessible.</li> </ul> |
| <b>Action</b>    | Other messages will accompany this message. Examine the other messages for a more complete description of the problem. The most likely solution to the problem will be to recreate the snapshot.                                                                                                                                                                                              |
| <b>ORA-12009</b> | <b>snapshots may not contain long columns</b>                                                                                                                                                                                                                                                                                                                                                 |
| <b>Cause</b>     | An attempt was made to create a snapshot with a long column.                                                                                                                                                                                                                                                                                                                                  |
| <b>Action</b>    | Do not attempt to create snapshot logs with long columns.                                                                                                                                                                                                                                                                                                                                     |
| <b>ORA-12010</b> | <b>cannot create snapshot log on table owned by SYS</b>                                                                                                                                                                                                                                                                                                                                       |
| <b>Cause</b>     | CREATE SNAPSHOT LOG attempts to create a trigger on the table, but triggers cannot be created on SYS tables.                                                                                                                                                                                                                                                                                  |
| <b>Action</b>    | Do not create snapshot logs on SYS tables.                                                                                                                                                                                                                                                                                                                                                    |

## 12100–12299: SQL\*Net

### ORA–12011    execution of *num* jobs failed

**Cause**    Some kind of error was caught in DBMS\_IJOB.RUN. One or more jobs that were due to be run produced errors that they could not handle.

**Action**    Look at the alert log for details on which jobs failed and why.

### ORA–12012    error on auto execute of job *num*

**Cause**    Some kind of error was caught while doing an automatic execute of a job.

**Action**    Look at the accompanying errors for details on why the execute failed.

### ORA–12013    updatable snapshots must be simple enough to do fast refresh

**Cause**    The updatable snapshot query statement is specified with a join, subquery, union, CONNECT BY, ORDER BY, or GROUP BY.

**Cause**    Specify a simpler snapshot statement. If a join is needed, create multiple simple snapshots, and then create a view on top of the multiple snapshots.

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## 12100–12299: SQL\*Net

See your operating system–specific Oracle documentation. For a listing of other Oracle manuals containing operating system–specific messages, see “Related Publications” in the Preface.

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## 12300–12399: Multiple Mount

This section lists messages generated by Trusted Oracle7.

### ORA–12315    database link type is invalid for the ALTER DATABASE statement

**Cause**    The database link name specified on the ALTER DATABASE statement is not an ROM: link. Specify an ROM: link when using the ALTER DATABASE statement to mount or open a secondary database.

**Action**    Retry the ALTER DATABASE statement using a valid ROM: link to the database to be mounted or opened. If a valid ROM: link does not exist, create one using the CREATE DATABASE LINK command. See the *Trusted Oracle7 Server Administrator's Guide* for more information about creating database links using the ROM: link type.

**ORA-12316 syntax error in database link's connect string**

**Cause** The connect string in the CREATE DATABASE LINK statement has a syntactical error.

**Action** Drop the database link and recreate it using valid syntax. See *Oracle7 Server SQL Reference* for more information about the connect string portion of the CREATE DATABASE LINK statement.

**ORA-12317 logon to database (link name *name*) denied**

**Cause** Any of the following:

- Either the user name or password was misspelled.
- The user does not exist in the secondary database.
- The user in the secondary database was not granted the CREATE SESSION system privilege.
- The username/password in the database link definition is invalid for any of the above reasons.
- If database verification of login information is active, then the username and password do not match in the primary and secondary databases.
- If operating system verification of login information is active, then the username does not match in the primary and secondary databases.

**Action** Enter the correct information.

- Ask the database administrator for the secondary database to create the user.
- Ask the database administrator for the secondary database to grant the CREATE SESSION system privilege to the user.
- Correct the database link definition.
- Check that username and password match in the primary and secondary databases.
- Check that the username matches in the primary and secondary databases.

**Note:** Always use operating system authentication in Trusted Oracle7. For more information about the advantages of O/S authentication, see the *Trusted Oracle7 Server Administrator's Guide*.

**ORA-12318    database (link name *name*) is already mounted**

**Cause**    An attempt was made to mount a secondary database already mounted by the instance.

**Action**    No additional action is required to mount the database. To establish access, use the ALTER DATABASE command to open the database.

**ORA-12319    database (link name *name*) is already open**

**Cause**    An attempt was made to open a secondary database that is already open.

**Action**    No additional action is required to establish access.

**ORA-12321    database (link name *name*) is not open and AUTO\_MOUNTING=FALSE**

**Cause**    The instance attempted to mount the secondary database, but it is not open and it is not enabled for automatic mounting.

**Action**    Manually mount and open the secondary database using the ALTER DATABASE command with the OPEN and MOUNT options. To allow the instance to mount and open secondary databases automatically, set the AUTO\_MOUNTING parameter in the initialization parameter file to TRUE.

**ORA-12322    unable to mount database (link name *name*)**

**Cause**    This message should be accompanied by additional messages that indicate the cause of the problem.

**Action**    Follow the steps outlined in the accompanying messages to resolve the problem.

**ORA-12323    unable to open database (link name *name*)**

**Cause**    This message should be accompanied by additional messages that indicate the cause of the problem.

**Action**    Follow the steps outlined in the accompanying messages to resolve the problem.

**ORA-12324    cannot use the ROM: link type on a private database link**

**Cause**    You can only specify the ROM: link type on a public, not on a private, database link.

**Action**    If there is an existing public database link to the secondary database, use that link. If not, and public access to the secondary database is desired, create a public database link to the secondary database using the CREATE DATABASE LINK command.

- ORA-12326**     **database *name* is closing immediately; no operations are permitted**
- Cause**     The operation attempted was terminated because the database is closing.
- Action**     Wait until the database reopens or contact the database administrator.
- 
- ORA-12329**     **database *name* is closed; no operations are permitted**
- Cause**     The operation attempted was terminated because the database is closing.
- Action**     Wait until the database reopens or contact the database administrator.
- 
- ORA-12333**     **database (link name *name*) is not mounted**
- Cause**     An attempt was made to open a database that is not mounted.
- Action**     Mount the database with the ALTER DATABASE command, then reattempt to open the database.
- 
- ORA-12334**     **database (link name *name*) is still open**
- Cause**     An attempt was made to dismount a database that is still open.
- Action**     Close the database with the ALTER DATABASE command, then reattempt to dismount the database.
- 
- ORA-12335**     **database (link name *name*) is not open**
- Cause**     An attempt was made to close a database that is not open.
- Action**     The database is closed; proceed with dismounting it.
- 
- ORA-12341**     **maximum number of open mounts exceeded**
- Cause**     The number specified on the OPEN\_MOUNTS parameter in the initialization parameter file exceeds 255, which is the maximum allowed.
- Action**     Change the value of this initialization parameter so that it reflects the actual number of possible open mounts to secondary databases. This must be less than 255.
- 
- ORA-12342**     **open mounts exceeds limit set on the OPEN\_MOUNTS parameter**
- Cause**     The number of currently open mounts exceeds the value specified in the OPEN\_MOUNTS initialization parameter.
- Action**     Increase the value of the OPEN\_MOUNTS parameter so that it accommodates the maximum possible number of open mounts to secondary databases.

### **ORA-12345    user *name* lacks CREATE SESSION privilege in database (link name *name*)**

**Cause**    There are two causes of this message:

- Your username in the second database specified was not granted the CREATE SESSION system privilege.
- The username specified in the connect string of the database link definition was not granted the CREATE SESSION system privilege.

**Action**    The action you take depends upon the cause of the message:

- In the first case, check that your username in the secondary database was granted the CREATE SESSION system privilege.
- In the second case, check that the username specified in the connect string of the database link definition was granted the CREATE SESSION system privilege in the secondary database.

### **ORA-12350    database link being dropped is still mounted**

**Cause**    An attempt was made to drop a ROM: database link while it was still mounted and/or opened.

**Action**    Close and dismount the database. Then retry the drop statement.

### **ORA-12351    cannot create view using a remote object which has a remote object reference**

**Cause**    An attempt was made to create a view that references a remote object that, in turn, references an object on another database. Because the view that you tried to create references a remote object, that object cannot reference an object on another database.

**Action**    Choose a different object to reference in your view or change the remote object so that it does not reference another database.

### **ORA-12352    object *name* is invalid**

**Cause**    An attempt was made to reference, or compile against, an object in a secondary database. However, the object is invalid because it is in a secondary database. Therefore, the system cannot validate or recompile it.

**Action**    Recompile the invalid object in the secondary database.

**ORA-12353 secondary stored object cannot reference remote object**

**Cause** You tried either to select from a remote view or execute a remote procedure that references an object on another database. Because the remote view or procedure is on a secondary database, an additional reference to another database cannot be done.

**Action** Choose a different object to reference or change the remote view or procedure so that it does not reference another database.

**ORA-12354 secondary object being dropped**

**Cause** You tried to access an object, for example, a table or view, on a secondary database that was being dropped.

**Action** Repeat the operation. If you receive the message again, try to access the object from the secondary database. If you receive an internal error or a trace file, contact customer support.

---

**12400–12499: Trusted Oracle**
**ORA-12400 DBLOW is not a valid operating system label**

**Cause** The operating system label corresponding to DBLOW has become invalid due to a change in operating system label definitions.

**Action** Use the operating system facilities to restore the definition of this label, or change the value of DBLOW to a valid label. To change the value of DBLOW, you must mount the database and switch to OSMAC mode.

**ORA-12401 DBHIGH is not a valid operating system label**

**Cause** The operating system label corresponding to DBHIGH has become invalid due to a change in operating system label definitions.

**Action** Use the operating system facilities to restore the definition of this label, or change the value of DBHIGH to a valid label. To change the value of DBHIGH, you must mount the database and switch to OSMAC mode.

**ORA-12402 file: *str***

**Cause** Reporting filename for detail of another message.

**Action** Correct the underlying problems mentioned in the other messages.



**ORA-12403     file label *name* must be equal to DBHIGH *name***

**Cause**     A datafile was found to have a label not equal to DBHIGH. This may be caused if DBHIGH is changed or if a file is relabeled.

**Action**     Either relabel the file to match DBHIGH or change DBHIGH to match the file.

**ORA-12404     device low *name* must be dominated by DBLOW *name***

**Cause**     A datafile was found on a device with an authorized range insufficient to handle the lowest labeled data in the file.

**Action**     Lower the authorized minimum device label or move the file to a different device.

**ORA-12405     device high *name* must dominate DBHIGH *name***

**Cause**     A datafile was found on a device with an authorized range insufficient to handle the highest labeled data in the file.

**Action**     Raise the authorized maximum device label or move the file to a different device.

**ORA-12406     must be at DBHIGH *name* in O/S to add files to a tablespace**

**Cause**     A file was added to a new or existing tablespace by a user whose operating system label was not equal to DBHIGH.

**Action**     Log in to the O/S at DBHIGH to add the file. If creating a new tablespace, set the session label to the label at the desired tablespace definition. If adding a file to an existing tablespace, either set the session label to match the tablespace or user WRITEDOWN privilege to alter the tablespace.

**ORA-12407     cannot insert or update the ROWLABEL column of a view**

**Cause**     You tried to insert into or update the ROWLABEL column of a view. Trusted Oracle7 does not allow you to modify the ROWLABEL column of a view.

**Action**     While you cannot modify the ROWLABEL column of a view, you can modify the ROWLABEL column in the base table(s) of the view. Use the INSERT or UPDATE commands to modify the base tables(s). Consequently, this modifies the view.

**ORA-12408      tablespace previously existed at another label *name***

**Cause**      A tablespace by this name was previously created and dropped at another label. Part of the dictionary entry for the old tablespace remains, and the new tablespace is attempting to reuse the old entry.

**Action**      Either recreate the tablespace at the original label or choose a new name for this tablespace.

**ORA-12409      DBLOW cannot be null in DBMS MAC mode**

**Cause**      The database was started in DBMS MAC mode before resetting DBLOW.

**Action**      Restart the database in OS MAC mode and supply valid values for both DBHIGH and DBLOW before starting up in DBMS MAC mode.

**ORA-12410      DBHIGH cannot be null in DBMS MAC mode**

**Cause**      The database was started in DBMS MAC mode before resetting DBHIGH.

**Action**      Restart the database in OS MAC mode and supply valid values for both DBHIGH and DBLOW before starting up in DBMS MAC mode.

**ORA-12411      DBHIGH must dominate DBLOW**

**Cause**      DBHIGH does not dominate DBLOW.

**Action**      Restart the database in OS MAC mode and supply valid values for DBHIGH and DBLOW before starting up in DBMS MAC mode.

**ORA-12412      cannot raise DBLOW above *num***

**Cause**      An attempt was made to raise DBLOW above its current value. DBLOW can only be lowered, it cannot be raised.

**Action**      Do not attempt to raise DBLOW.

**ORA-12413      cannot lower DBHIGH below *num***

**Cause**      An attempt was made to lower DBHIGH below its current value. DBHIGH can only be raised.

**Action**      Do not attempt to lower DBHIGH.

**ORA-12414     must be DBHIGH *name* to startup database**

**Cause**     An attempt was made to open a database while at an O/S label not equal to DBHIGH.

**Action**     Log in at DBHIGH to start the database.

**ORA-12415     session label must dominate the creation label of role *name***

**Cause**     An attempt was made to grant a privilege to a role while at a label that does not dominate the role's creation label. Your DBMS label must dominate the role's creation label to grant a privilege to the role.

**Action**     Check the creation label of the role and perform the grant while at a label that dominates the creation label of the role.

**ORA-12416     label of audit must dominate user**

**Cause**     An attempt was made to set statement audit options on a user below the label where the user was created.

**Action**     Check the label of the user and set the audit options at the user label or higher.

**ORA-12418     label of index must equal table**

**Cause**     An attempt was made to create an index on a table at a label different from where the table was created. It is necessary to be at the identical label and specifically at DBHIGH or DBLOW if the table was created at DBHIGH or DBLOW.

**Action**     Check the label of the table and create the index at the correct label.

**ORA-12419     label of column must equal table**

**Cause**     An attempt was made to add a column to a table at a different label than where the table was created.

**Action**     Check the label of the table and add the column at the correct label.

**ORA-12420     label of stored object must dominate referenced object *name***

**Cause**     An attempt was made to create a stored object, such as a view, procedure, function trigger, that references some object not dominated by the current label. While the referenced object may be visible due to enabled MAC privileges, MAC privileges cannot be used for creating the stored object.

**Action**     Check the label of the indicated object and create the new object at a label that dominates all referenced objects.

**ORA-12421 label of grant must dominate object**

**Cause** An attempt was made to grant privileges on an object at a label lower than where the object was created.

**Action** Check the label of the object and perform the grant at the object label or higher.

**ORA-12422 label of grant must dominate grantee *name***

**Cause** An attempt was made to grant privileges to a user at a label lower than where the user was created.

**Action** Check the label of the grantee and perform the grant at that label or higher.

**ORA-12423 label of constraint must equal table**

**Cause** An attempt was made to add a constraint to a table at a label different from the label of the table.

**Action** Check the label of the table and add the constraint at the label of the table.

**ORA-12424 label of object must dominate tablespace**

**Cause** An attempt was made to create an object in a tablespace created at a label higher than the object.

**Action** Check the label of the tablespace and create the object at that label or higher.

**ORA-12425 label of table must dominate cluster**

**Cause** An attempt was made to create a table in a cluster created higher than the label of the table.

**Action** Check the label of the cluster and create the table at that label or higher.

**ORA-12426 label of user must dominate default or temporary tablespace**

**Cause** An attempt was made to give a user a default or temporary tablespace at a higher label.

**Action** Check the label of the default and temporary tablespaces and create the user at that label or higher.

**ORA-12427 label of object must dominate schema**

**Cause** An attempt was made to create an object in a schema defined at a label higher than the object.

**Action** Check the label of the schema and create the object at that label or higher.

**ORA-12428    insufficient MAC privileges**

**Cause**    There are sufficient privileges to read the object, but no MAC write access to the object.

**Action**    Either retry the operation at the label of the object or see the system administrator for the needed MAC privilege.

**ORA-12429    label of comment must equal table or view**

**Cause**    An attempt was made to comment a table or view at a label different from the label at which the table or view was created.

**Action**    Check the label of the table or view and add the comment at that label.

**ORA-12430    label of trigger must equal table**

**Cause**    An attempt was made to create a trigger at a label different from where the table was created. Your DBMS label must match the table's creation label to create the trigger on the table. While the table may be visible due to enabled MAC privileges, MAC privileges cannot be used to create a trigger.

**Action**    Check the creation label of the table and create the trigger while at a label that matches the creation label of the table.

**ORA-12431    label of user must dominate default profile**

**Cause**    An attempt was made to give a user a default profile created at a label lower than the user.

**Action**    Check the label of the profile and create the user at that label or higher.

**ORA-12432    label of grant must equal label of procedure**

**Cause**    An attempt was made to assign MAC privileges to a procedure at a label other than the creation label of the procedure.

**Action**    Grant MAC privileges to the procedure at the procedure's creation label.

**ORA-12433    label of default role *name* must dominate user**

**Cause**    An attempt was made to assign a user a default role created at a label below where the user was created.

**Action**    Check the labels of the user and role and assign only roles higher than the user.

**ORA-12434    label of child record must dominate parent**

**Cause**    An attempt was made to insert a child record at a label lower than the corresponding parent record.

**Action**    Check the label of the parent key value and insert the child record at that label or higher.

**ORA-12435    label of package body must equal package**

**Cause**    An attempt was made to create a package body at a label different from the corresponding package.

**Action**    Check the label of the package and create the package body at that label.

**ORA-12436    package body must exist to grant MAC privileges**

**Cause**    An attempt was made to grant MAC privileges to a package when the package body does not exist.

**Action**    Create the package body for the package and then re-attempt the grant.

For more information on granting MAC privileges, see the index entry on “MAC privileges” in the *Trusted Oracle7 Server Administrator's Guide*.

**ORA-12437    cannot write down to a database at a lower label**

**Cause**    An attempt was made to perform a write operation in a secondary database. Write operations are possible only in the primary database.

**Action**    Connect directly to the database to perform the operation.

**ORA-12438    insufficient privileges to validate constraint on all rows**

**Cause**    It is necessary to have access to all rows in a table to attempt to enable a constraint.

**Action**    To read all rows in the table, either enable MAC privileges or downgrade all rows in the table.

**ORA-12439    cannot modify ROWLABEL column**

**Cause**    An attempt was made to modify the ROWLABEL column.

**Action**    None. It is not possible to modify the ROWLABEL column.

**ORA-12440      database has not been mounted in read-compatible mode**

**Cause**      The requested secondary database was not last started in read-compatible mode.

**Action**      Set the DB\_MOUNT\_MODE initialization parameter to READ\_COMPATIBLE in the secondary database and startup the secondary database.

**ORA-12441      grant already exists at a different label**

**Cause**      One of the granted privileges was previously granted at a different label.

**Action**      Check USER\_SYS\_GRANTS or USER\_OBJ\_GRANTS to locate the label at which the privilege was previously granted. Revoke the old grant and regrant it at the new label.

**ORA-12442      must be at same label as user to modify default roles**

**Cause**      An attempt was made to modify a user's default roles at a different label than where the user was created.

**Action**      Check the ALL\_USERS view to see the label at which the user was created and alter the user at that label.

**ORA-12443      audit option already exists at a different label**

**Cause**      You tried to audit an event that was previously audited at a different label.

**Action**      Check the DBA\_STMT\_AUDIT\_OPTS or DBA\_PRIV\_AUDIT\_OPTS dictionary views to identify the label of the previous audit statement. If you want to audit the event at the new label, stop the old audit, using the NOAUDIT statement, and re-audit the event while at the new label.

**ORA-12444      file label is lower than instance label**

**Cause**      You tried to reuse a file with a label different from the database instance label.

**Action**      Examine the message stack for the filename. Remove the file or relabel it to match the database instance label.

**ORA-12445      index/row label mismatch – see trace file**

**Cause**      A label in an index has been found not to match the row to which that label points. This may indicate that index labels have been directly changed, which is inappropriate.

**Action**      To solve the immediate problem, you can drop and recreate the index. If you are unsure of the problem's cause, contact customer support and send them the trace file.

**ORA-12446 file label is higher than instance label**

**Cause** You tried to reuse a file with a label different from the database instance label. You can reuse only files labeled at or below the instance label.

**Action** Examine the message stack for the filename. Remove the file or relabel it to match the database instance label.

**ORA-12447 non-secure protocol used; connection denied**

**Cause** You tried to connect to Trusted Oracle7 with a networking protocol that was not secure. You must use a secure networking protocol to connect via a remote location.

**Action** Either connect to the database with a secure networking protocol or log in directly to the database.

**ORA-12449 least upper bound resulted in an invalid operating system label**

**Cause** You tried to do an operation that generated a least upper bound (LUB) label, which is not a valid label on your operating system.

**Action** Examine the message stack for a more specific message. See the *Trusted Oracle7 Server Administrator's Guide* for information on least upper-bound (LUB) functions. For more information on invalid label generation, see your operating system-specific Oracle documentation.

**ORA-12450 label string could not be translated into binary label**

**Cause** The operating system could not translate given label string.

**Action** Check that the specified string is a valid label and retry the operation.

**ORA-12451 binary OS label could not be translated into string label**

**Cause** The operating system could not translate the specified binary label.

**Action** Check that the specified string is a valid label and retry the operation.

**ORA-12452 label format string could not be parsed; check format codes**

**Cause** An invalid format string on a label function was specified.

**Action** Check that a valid format string is specified and retry the operation. See the *Trusted Oracle7 Server Administrator's Guide* for a complete list of valid format strings.



**ORA-12453     missing quote in literal string**

**Cause**     A literal string was specified with an incorrect number of quotes.

**Action**     Check that the string has matching quotes and retry the operation.

**ORA-12454     punctuation supplied does not match specified input format**

**Cause**     The punctuation supplied in the label string is inconsistent with the format specified.

**Action**     Change the punctuation in the label string or the format, whichever is appropriate, and retry the statement.

**ORA-12455     OS format not allowed in this context**

**Cause**     The label format string supplied has an OS format that is not allowed with the TO\_LABEL function.

**Action**     Change the label format string to not use the OS format type.

**ORA-12456     literal string supplied does not match specified input format**

**Cause**     The literal string supplied is inconsistent with the format string specified.

**Action**     Change the literal in the label string or format, whichever is appropriate, and retry the statement.

**ORA-12457     invalid length for MLSLABEL bind variable**

**Cause**     A bind variable of type MLSLABEL is too long.

**Action**     Consult your documentation for proper datatype lengths.

**ORA-12458     the input string could not be translated into a binary label**

**Cause**     The input string you specified is not a valid binary label on your operating system.

**Action**     Check the input string, change any components so that they form a valid label, and retry the operation. Refer to your Oracle7 operating system-specific documentation for more information.

**ORA-12459     maximum number of columns in a Trusted Oracle table is 253**

**Cause** A CREATE or ALTER TABLE statement tried to add more than 253 columns, not counting ROWLABEL, to a table.

**Action** Specify no more than 253 columns in your CREATE or ALTER TABLE command.

**ORA-12460     the value *str* for the MLS\_LABEL\_FORMAT parameter is not valid**

**Cause** The value for the MLS\_LABEL\_FORMAT initialization parameter you specified does not contain a valid format mask. You must have a valid MLS\_LABEL\_FORMAT parameter for the database to start up.

**Action** Change this parameter setting in your initialization parameter file to a correct value.

**ORA-12461     invalid binary label**

**Cause** You provided a binary label in an OCI program's bind statement that was not a valid operating system label.

**Action** Replace the invalid binary label with one that is valid. Refer to your Oracle7 operating system-specific documentation for more information.

**ORA-12470     process label could not be found**

**Cause** An error was encountered in translating the operating system process label into a label number.

**Action** Examine the message stack for a more specific message. Refer to your Oracle7 operating system-specific documentation for more information.

**ORA-12475     cannot log in below DBLOW *name***

**Cause** An attempt was made to log in at a label dominated by DBLOW.

**Action** Either log in at a higher label or lower DBLOW.

**ORA-12476     cannot log in above DBHIGH *name***

**Cause** The user attempted to log in at a label dominating DBHIGH.

**Action** Either log in at a lower label or raise DBHIGH.

**ORA-12478     cannot insert label above DBHIGH *name***

**Cause**     An attempt was made to insert a value explicitly above DBHIGH into the ROWLABEL column or to specify a value higher of datatype MLSLABEL. Any label inserted into a Trusted Oracle7 table must fall between DBLOW and DBHIGH, inclusive.

**Action**     Either raise the value of DBHIGH or specify a lower label on the INSERT or UPDATE statement.

**ORA-12480     secondary database changing between OS MAC and DBMS MAC modes**

**Cause**     An attempt was made to access a secondary database while the secondary database is changing between OS MAC and DBMS MAC modes.

**Action**     Retry the operation after the change is complete.

**ORA-12485     cannot find file label for *name***

**Cause**     An error was encountered while reading the label of the specified file.

**Action**     Examine the message stack for an operating system message. Refer to your Oracle7 operating system-specific documentation for more information.

**ORA-12487     insufficient privileges to set label to DBHIGH or DBLOW**

**Cause**     It is only possible to set a label to DBHIGH or DBLOW when connected INTERNAL to Trusted Oracle7.

**Action**     Connect INTERNAL to Trusted Oracle7, then set the label DBHIGH or DBLOW. If this is not possible due to insufficient privileges, contact the database administrator.

**ORA-12488     session label must be equal to *name***

**Cause**     An attempt was made to log in to an OS MAC database at other than the database label.

**Action**     Log in from an OS process at the specified label.

**ORA-12489     insufficient MAC privilege to alter session**

**Cause**     User does not have sufficient MAC privileges to alter session.

**Action**     Either change the OS label so ALTER SESSION is not needed or obtain MAC privileges.

**ORA-12490 cannot connect at session label below user definition *name***

**Cause** An attempt was made to alter a session label below the label at which the user was created.

**Action** Either do not alter the session label below the specified label or recreate the user at a lower label.

**ORA-12491 cannot change MAC mode when mounted in READ\_COMPATIBLE mode**

**Cause** You tried to change between OS and DB MAC mode while the database was mounted in READ\_COMPATIBLE mode.

**Action** Set the DB\_MOUNT\_MODE initialization parameter to NORMAL and restart the database.

**ORA-12494 cannot mount secondary database labeled above DBLOW**

**Cause** The secondary database requested was labeled above the DBLOW of the primary database.

**Action** Check that that DBHIGH on the secondary database is below DBLOW of the primary database.

**ORA-12495 multi-threaded server cannot be used with Trusted Oracle**

**Cause** The MTS\_DISPATCHERS parameter is set in the initialization file, which initiated the configuration of the multi-threaded server.

**Action** Remove the MTS\_DISPATCHERS parameter from the initialization file and restart the instance.

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**12500–12699: SQL\*Net**

See your operating system-specific Oracle documentation. For a listing of other Oracle manuals containing operating system-specific messages, see “Related Publications” in the Preface.

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**12700–12799: National Language Support**

This section lists messages generated when the National Language Support feature of Oracle is accessed.

### **ORA-12700    invalid NLS parameter value *name***

**Cause**    An invalid NLS initialization parameter was specified.

**Action**    Check the syntax and spelling of the parameter. Enter the correct parameter into the initialization parameter file.

### **ORA-12701    CREATE DATABASE character set is not known**

**Cause**    The character set specified in the CREATE DATABASE command does not exist on the system.

**Action**    Refer to your Oracle7 operating system–specific documentation for more information about character sets on the system. Use a valid character set in the CREATE DATABASE command.

### **ORA-12702    invalid NLS parameter string used in SQL function**

**Cause**    An invalid parameter or value was entered in the NLS parameter string in a SQL function.

**Action**    Check the syntax of the function and the parameters. Enter the command again using the correct syntax and valid values.

### **ORA-12703    this character set conversion is not supported**

**Cause**    An attempt was made to use the CONVERT function to convert between two character sets, and the requested conversion is not possible due to unavailability of one or both character sets.

**Action**    Use character sets available on the system in the CONVERT function.

### **ORA-12705    invalid or unknown NLS parameter value specified**

**Cause**    There are two possible causes: Either an attempt was made to issue an ALTER SESSION statement with an invalid NLS parameter or value; or the NLS\_LANG environment variable contains an invalid language, territory, or character set.

**Action**    Check the syntax of the ALTER SESSION command and the NLS parameter, correct the syntax and retry the statement, or specify correct values in the NLS\_LANG environment variable.

For more information about the syntax of the ALTER SESSION command, see the index entry on “ALTER SESSION command” in *Oracle7 Server SQL Reference*.

**ORA-12706    this CREATE DATABASE character set is not allowed**

- Cause** An attempt was made to create a database on an ASCII-based machine using an EBCDIC-based character set or vice versa. This is not permitted.
- Action** Create the database using either ASCII-based or EBCDIC-based character sets, depending on what is supported by the hardware. Refer to your Oracle7 operating system-specific documentation for more information about the type of character set supported.

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**12800–12849: Parallel Query/Index Creation**

This section lists some of the messages generated during a parallel query or parallel index creation.

**ORA-12800    system appears too busy for parallel query execution**

- Cause** The load on the system is too high to perform parallel queries.
- Action** Re-enter the statements serially or wait until the system load is reduced.

**ORA-12801    error signaled in parallel query server *name***

- Cause** A parallel query server encountered an exception as described in the accompanying message(s).
- Action** Correct the error described in the accompanying message.

**ORA-12802    parallel query server lost contact with coordinator**

- Cause** A parallel query server was unable to communicate with the server coordinating the parallel query.
- Action** Check for operating system or network errors and retry the statement. If this problem persists, contact customer support.

**ORA-12803    parallel query server lost contact with another server**

- Cause** A parallel query server was unable to communicate with another server involved in the parallel query.
- Action** Check for operating system or network errors and retry the statement. If this problem persists, contact customer support.

## 12800–12849: Parallel Query/Index Creation

### **ORA-12804      parallel query server appears to have died**

**Cause**      Process information for a parallel query server thread cannot be found.

**Action**      Check for operating system errors and retry the statement. If this problem persists, contact customer support.

### **ORA-12805      parallel query server died unexpectedly**

**Cause**      The PMON process is cleaning up the process because a parallel query server terminated unexpectedly.

**Action**      Check for operating system errors and retry the statement. If this problem persists, contact customer support.

### **ORA-12806      could not get background process to hold enqueue**

**Cause**      This is an internal error that is not usually issued.

**Action**      Contact customer support.

### **ORA-12807      process queue could not receive parallel query message**

**Cause**      This is an internal error that is not usually issued.

**Action**      Contact customer support.

### **ORA-12808      cannot set [CACHE | SCAN]\_INSTANCES greater than number of instances *num***

**Cause**      An attempt was made, using the ALTER SYSTEM command, to set CACHE\_INSTANCES or SCAN\_INSTANCES to a value greater than the number of available instances.

**Action**      See the accompanying message for the allowable maximum value or set SCAN\_INSTANCES or CACHE\_INSTANCES to ALL.

### **ORA-12809      cannot set [CACHE / SCAN]\_INSTANCES when mounted in exclusive mode**

**Cause**      An attempt was made to set CACHE\_INSTANCES or SCAN\_INSTANCES using the ALTER SYSTEM command while the database was mounted in exclusive mode.

**Action**      Only set CACHE\_INSTANCES or SCAN\_INSTANCES when the database is mounted in PARALLEL or SHARED mode.

- ORA-12810**     **PARALLEL\_MAX\_SERVERS must be less than or equal to *num***
- Cause**     An attempt was made to set the PARALLEL\_MAX\_SERVERS initialization parameter to a value higher than the maximum allowed by the system.
- Action**     See the accompanying message for the allowable maximum value.
- 
- ORA-12811**     **PARALLEL\_MIN\_SERVERS must be less than or equal to PARALLEL\_MAX\_SERVERS, *num***
- Cause**     An attempt was made to set the PARALLEL\_MIN\_SERVERS initialization parameter to a value higher than PARALLEL\_MAX\_SERVERS.
- Action**     See the accompanying message for the allowable maximum value.
- 
- ORA-12812**     **only one PARALLEL or NOPARALLEL clause may be specified**
- Cause**     PARALLEL was specified more than once, NOPARALLEL was specified more than once, or both PARALLEL and NOPARALLEL were specified in a CREATE TABLE, CREATE CLUSTER, CREATE INDEX, ALTER TABLE, ALTER CLUSTER statement, or a RECOVER command.
- Action**     Specify PARALLEL or NOPARALLEL only once.
- 
- ORA-12813**     **value for PARALLEL or DEGREE must be greater than 0**
- Cause**     PARALLEL 0 or DEGREE 0 was specified in a CREATE TABLE, CREATE CLUSTER, CREATE INDEX, ALTER TABLE, ALTER CLUSTER statement, or a RECOVER command.
- Action**     Specify a value greater than 0 or specify default parallelism using PARALLEL with no degree or using DEGREE DEFAULT within a PARALLEL clause.
- 
- ORA-12814**     **only one CACHE or NOCACHE clause may be specified**
- Cause**     CACHE was specified more than once, NOCACHE was specified more than once, or CACHE and NOCACHE, were specified in a CREATE TABLE, CREATE CLUSTER, CREATE INDEX, ALTER TABLE, ALTER CLUSTER, or a RECOVER command.
- Action**     Specify CACHE or NOCACHE only once.
- 
- ORA-12815**     **value for INSTANCES must be greater than 0**
- Cause**     PARALLEL parameter specifying number of instances must be a positive integer or DEFAULT.
- Action**     Specify a positive integer or DEFAULT for INSTANCES if parallelism across instances is desired.



## 12800–12849: Parallel Query/Index Creation

### **ORA-12817    parallel query option must be enabled**

**Cause**    You tried to attempt an operation that requires the parallel query option.

**Action**    Enable the parallel query option.

### **ORA-12818    invalid option in PARALLEL clause**

**Cause**    An unrecognized option was specified with a PARALLEL clause.

**Action**    Specify any combination of DEGREE {<n> | DEFAULT } and  
INSTANCE { <n> | DEFAULT } within the PARALLEL clause.

### **ORA-12819    missing options in PARALLEL clause**

**Cause**    The PARALLEL clause was specified without an option.

**Action**    Specify any combination of DEGREE { <n> | DEFAULT } and  
INSTANCE { <n> | DEFAULT } within the PARALLEL clause.

### **ORA-12820    invalid value for DEGREE**

**Cause**    An invalid value for DEGREE was specified within a PARALLEL clause.

**Action**    Specify a positive integer or DEFAULT.

### **ORA-12821    invalid value for INSTANCES**

**Cause**    An invalid value for INSTANCES was specified within a PARALLEL clause.

**Action**    Specify a positive integer or DEFAULT.

### **ORA-12822    duplicate option in PARALLEL clause**

**Cause**    DEGREE or INSTANCE was specified more than once within a  
PARALLEL clause.

**Action**    Specify the option only once.

### **ORA-12823    default degree of parallelism may not be specified here**

**Cause**    Either an ALTER DATABASE RECOVER command was specified with the  
DEGREE DEFAULT option in a PARALLEL clause or another command was  
specified with no option in the PARALLEL clause.

**Action**    Specify an explicit degree of parallelism.

**ORA-12824 INSTANCES DEFAULT may not be specified here**

**Cause** An ALTER DATABASE RECOVER command was specified with the INSTANCES DEFAULT option.

**Action** Specify an explicit value for INSTANCES or omit the INSTANCES option if single instance recovery is desired.

**ORA-12825 explicit degree of parallelism must be specified here**

**Cause** An ALTER DATABASE RECOVER command was specified without the DEGREE option.

**Action** Specify an explicit degree of parallelism.

**ORA-12826 hung parallel query server was killed**

**Cause** Parallel query server was hung and subsequently killed.

**Action** Re-execute query and report suspicious events noted in the trace file to customer support if error persists.

**ORA-12827 insufficient parallel query slaves available**

**Cause** PARALLEL\_MIN\_PERCENT parameter was specified and fewer than minimum slaves were acquired.

**Action** Either re-execute query with lower PARALLEL\_MIN\_PERCENT or wait until some running queries are completed, thus freeing up slaves.

For more information about the PARALLEL\_MIN\_PERCENT parameter, see the index entry on “PARALLEL\_MIN\_PERCENT parameter” in *Oracle7 Server SQL Reference*.

## **13000–13199: Spatial Data Option**

### **ORA-13000     dimension number is out of range**

**Cause**     The specified dimension is either smaller than one or greater than the number of dimensions encoded in the HHCODE.

**Action**     Make sure that the dimension number is between 1 and the maximum number of dimensions encoded in the HHCODE.

For more information about the Spatial Data option, see

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### **ORA-13001     dimensions mismatch error**

**Cause**     The number of dimensions in two HHCODEs involved in a binary HHCODE operation do not match.

**Action**     Make sure that the number of dimensions in the HHCODEs match.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### **ORA-13002     specified level is out of range**

**Cause**     The specified level is either smaller than 1 or greater than the maximum level encoded in an HHCODE.

**Action**     Verify that all levels are between 1 and the maximum number of levels encoded in the HHCODE.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### **ORA-13003     the specified range for a dimension is invalid**

**Cause**     The specified range for a dimension is invalid.

**Action**     Make sure that the lower bound (lb) is less than the upper bound (ub).

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13004 the specified buffer size is invalid**

**Cause** The buffer size for a function is not valid.

**Action** This is an internal error. Contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13005 recursive HHCODE function error**

**Cause** An error occurred in a recursively called HHCODE function.

**Action** This is an internal error. Contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13006 the specified cell number is invalid**

**Cause** The cell identifier is either less than 0 or greater than  $(2^{\text{ndim}} - 1)$ .

**Action** Make sure that the cell identifier is between 0 and  $(2^{\text{ndim}} - 1)$ .

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13007 an invalid HEX character was detected**

**Cause** A character that is not in the range [0–9] or [A–Fa–f] was detected.

**Action** Verify that all characters in a string are in [0–9] or [A–Fa–f].

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13008 the specified date format has an invalid component**

**Cause** Part of specified date format is invalid.

**Action** Verify that the date format is valid.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

## 13000–13199: Spatial Data Option

### ORA-13009 the specified date string is invalid

**Cause** The specified date string has a bad component or does not match the specified format string.

**Action** Make sure that the components of the date string are valid and that the date and format strings match.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13010 an invalid number of arguments has been specified

**Cause** An invalid number of arguments was specified for an HHCODE function.

**Action** Verify the syntax of the function call.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13011 value is out of range

**Cause** A specified dimension value is outside the range defined for that dimension.

**Action** Make sure that all values to be encoded are within the defined dimension range.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13012 an invalid window type was specified

**Cause** An invalid window type was specified.

**Action** Valid window types are RANGE, PROXIMITY, POLYGON.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13013 the specified topology was not INTERIOR or BOUNDARY

**Cause** A topology was specified that was not INTERIOR or BOUNDARY.

**Action** Make sure that INTERIOR or BOUNDARY is used to describe an HHCODE's topology.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13014 a topology identifier outside the range of 1 to 8 was specified**

**Cause** A topology identifier outside the range of 1 to 8 was specified

**Action** Specify a topology in the range of 1 to 8.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13015 the window definition is not valid**

**Cause** The number of values used to define the window does not correspond to the window type.

**Action** Verify that the number of values used to defined the window is correct for the window type and number of dimensions.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13016 bad partition definition**

**Cause** The partition common code was not correctly decoded.

**Action** This is an internal error. Contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13017 unrecognized line partition shape**

**Cause** The shape of a 2-D line partition could not be determined.

**Action** This is an internal error. Contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13018 bad distance type**

**Cause** The specified distance type is invalid.

**Action** The only supported distance functions are EUCLID and MANHATTAN.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

## 13000–13199: Spatial Data Option

### ORA-13100    **badly formed request frame**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13101    **partition name datatype should be varchar2**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13102    **reply pipe name datatype should be varchar2**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13103    **failed to acknowledge on pipe *name* due to timeout**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13104    **failed to send reply on pipe *name* due to timeout**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13105    buffer overflow encountered on pipe *name***

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13106    acknowledgment on pipe *name* interrupted**

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13107    reply on pipe *name* interrupted**

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13108    spatial table *name* not found**

**Cause** The specified spatial table does not exist.

**Action** Check the Spatial Data option data dictionary to make sure that the table exists.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13109    spatial table *name* exists**

**Cause** The specified spatial table exists.

**Action** Drop the existing table or use a different name.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.



## 13000–13199: Spatial Data Option

### ORA-13110    **spatial table *name* is not partitioned**

**Cause**    The specified spatial table is not partitioned.

**Action**    Check the Spatial Data option data dictionary and make sure that a high water mark is set.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13111    **spatial table *name* has no partition key defined**

**Cause**    The specified spatial table does not have a partition key defined.

**Action**    Check the Spatial Data option data dictionary and make sure that the table is partitioned.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13112    **invalid count mode *name***

**Cause**    The specified count mode is not valid.

**Action**    Alter the count mode. Valid count modes are ESTIMATE or EXACT.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13113    **Oracle table *name* does not exists**

**Cause**    The specified Oracle table does not exist.

**Action**    Check the Oracle7 data dictionary and make sure that the table exists.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13114    **tablespace *name* not found**

**Cause**    The specified tablespace does not exist.

**Action**    Check the Spatial Data option data dictionary and make sure that the specified tablespace exists and that there is a space quota defined on it.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13115    tablespace *name* is already allocated**

**Cause**    The specified tablespace is already allocated to the spatial table.

**Action**    Allocate another tablespace name to the table.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13116    tablespace *name* is not allocated to table *name***

**Cause**    The specified tablespace is not allocated to the specified spatial table.

**Action**    Allocate the tablespace to the spatial table.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13117    partition *name* not found**

**Cause**    The specified partition does not exist.

**Action**    Verify the name of the partition by checking the Spatial Data option data dictionary.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13118    partition *name* is offline**

**Cause**    The specified partition is offline.

**Action**    Bring the partition online and then retry the operation.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13119    source and target tablespaces are identical**

**Cause**    Identical source and target tablespaces were specified when trying to move partition.

**Action**    Specify different source and target tablespaces if you wish to move a partition.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

## 13000–13199: Spatial Data Option

### ORA-13120 SD\*POD is not listening on pipe *name*

**Cause** There is no partition operation daemon listening on the specified pipe.

**Action** Start a daemon listening on the pipe by using the LISTEN command line option of SD\*POD.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13121 failed to create child partition

**Cause** The creation of a child partition failed.

**Action** Check for other errors that accompany this error and correct them first.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13122 child partition *name* not found

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13123 column *name* is already defined

**Cause** The specified column is already defined for the spatial table.

**Action** Use a different column name.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13124 unable to determine column id for column *name*

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13125    partition key is already set**

**Cause** A partition key is already set for the spatial table.

**Action** Only one partition key can be specified per spatial table.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13126    unable to determine class for spatial table *name***

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13127    failed to generate target partition**

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13128    failed to identify dimensions for column *name***

**Cause** The dimension definitions could not be found for the specified column.

**Action** Make sure that the specified column is a spatial column.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13129    HHCODE column *name* not found**

**Cause** The specified spatial column does not exist.

**Action** Verify that the specified column is a spatial column by checking the Spatial Data option data dictionary.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

## 13000–13199: Spatial Data Option

### ORA-13130    **timed out waiting for reply on *name***

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13131    **record in pipe *name* is too big**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13132    **pipe read on *name* was interrupted**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13133    **archive request failed**

**Cause**    The request to archive a partition failed.

**Action**    Check the log file and correct any errors indicated.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13134    **restore request failed**

**Cause**    The request to restore a partition failed.

**Action**    Check the log file and correct any errors indicated.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13135 duplicate offline path**

**Cause** The offline path specified is already being used by another spatial table.

**Action** Use a different offline path.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13136 null common code generated**

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13138 could not determine name of object *name***

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13139 could not obtain column definition for *name***

**Cause** This is an internal error.

**Action** Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13140 invalid target type**

**Cause** The specified target type is not valid.

**Action** Substitute a valid target type. Valid target types are TABLE or VIEW.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13141    invalid RANGE window definition**

**Cause**    The RANGE window specified is not correctly defined.

**Action**    A RANGE window is defined by specifying the lower and upper boundary of each dimension as a pair of values (e.g.: lower\_bound1,upper\_bound1,lower\_bound2,upper\_bound2,...). There should be an even number of values.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13142    invalid PROXIMITY window definition**

**Cause**    The PROXIMITY window specified is not correctly defined.

**Action**    A PROXIMITY window is defined by specifying a center point and a radius. The center point is defined by ND values. There should be ND+1 values.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13143    invalid POLYGON window definition**

**Cause**    The POLYGON window specified is not correctly defined.

**Action**    A POLYGON window is defined by specifying N pairs of values that represent the vertices of the polygon. There should be an even number of values.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13144    target table *name* not found**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

**ORA-13145    failed to generate range list**

**Cause**    This is an internal error.

**Action**    Document messages and contact Oracle Worldwide Support.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

- ORA-13146    could not find table substitution variable *name***
- Cause** The partition name substitution variable name was not found in the SQL filter.
- Action** The substitution variable name must be in the SQL filter to indicate where that partition name should be placed.
- For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.
- ORA-13147    failed to generate MBR**
- Cause** This is an internal error.
- Action** Document messages and contact Oracle Worldwide Support.
- For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.
- ORA-13148    failed to generate SQL filter**
- Cause** This is an internal error.
- Action** Document messages and contact Oracle Worldwide Support.
- For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.
- ORA-13149    failed to generate next sequence number for spatial table *name***
- Cause** This is an internal error.
- Action** Document messages and contact Oracle Worldwide Support.
- For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.
- ORA-13150    failed to insert exception record**
- Cause** Operation failed to insert a record into the exception table
- Action** Fix any other errors reported.
- For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.



## 14000–14099: Partitioned Objects – Parsing

### ORA-13152    invalid HHCODE type

**Cause**    Specified HHCODE type is not valid.

**Action**    Substitute a valid HHCODE type. Valid HHCODE types are POINT and LINE.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13197    only MDSYS can execute *name*

**Cause**    You tried to execute a restricted procedure.

**Action**    Only MDSYS can execute the specified partition.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

### ORA-13198    Oracle error ORAname encountered

**Cause**    Specified Oracle error was encountered.

**Action**    Correct the Oracle error.

For more information about the Spatial Data option, see *Oracle7 Spatial Data Option Reference and Administrator's Guide*.

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## 14000–14099: Partitioned Objects – Parsing

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## 14400–14499: Partitioned Objects – Execution

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## 14500–14999: Partitioned Objects – Analyze

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## 19999–21000: Stored Procedures

### ORA-19999    *SKIP\_ROW procedure was called*

**Cause**    This message is raised when the SKIP\_ROW procedure is called.

**Action**    This procedure should be called only within a trigger or a procedure called by a trigger.

### ORA-20000    *application\_specific\_message*

**Cause**    The stored procedure RAISE\_APPLICATION\_ERROR was called, which causes this message to be generated.

**Action**    Correct the problem as described in the message or contact the application administrator or database administrator for more information.

### ORA-21000    *error number argument to RAISE\_APPLICATION\_ERROR of name is out of range, must be between -20000 and -20999, inclusive*

**Cause**    An attempt was made to specify a number not in the range of -20000 to -20999.

**Action**    The valid range for user-specified error numbers is -20000 to -20999 inclusively. Do not specify numbers outside this range.

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## 21100–21299: Internal Messages

Internal messages are not documented in this manual.

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## 23300–24299: DBMS PL/SQL Packages

This section lists messages generated by the DBMS\_SYS\_ERROR package.

### ORA-23300    *application\_specific\_message*

**Cause**    The stored procedure RAISE\_SYSTEM\_ERROR was called to generate this message.

**Action**    Correct the problem described in the message or contact the application programmer or database administrator for more information.

**ORA–23301      mixed use of deferred RPC destination modes**

**Cause**      Replication catalog determined deferred remote procedure call destinations were mixed with destination determined by other mechanisms in the same transaction.

**Action**      Do not mix destination types in the same transaction.

**ORA–23302      application raised communication failure during deferred RPC**

**Cause**      An application declared a communication failure during a deferred remote procedure call.

**Action**      Retry the application when communication is restored.  
This section lists some of the messages generated when stored procedures are accessed.

**ORA–23303      application raised generic exception during deferred RPC**

**Cause**      An application declared a generic failure during a deferred remote procedure call.

**Action**      Dependent on application.

**ORA–23304      malformed deferred RPC at arg *name* of *name* in call *name*, in tid *name***

**Cause**      A deferred remote procedure call was issued without the correct number of arguments as determined by the count parameter DBMS\_DEFER.CALL.

**Action**      Ensure the number of arguments matches the count.

**ORA–23305      internal deferred RPC error: *str***

**Cause**      An internal error occurred in the deferred remote procedure call.

**Action**      Contact customer support.

**ORA–23306      schema “*name*” does not exist**

**Cause**      The schema name was null or misspelled, or the schema does not exist locally.

**Action**      Specify the schema correctly, or create it with CREATE USER.

**ORA–23307      replicated schema “*name*” already exists**

**Cause**      The given database already replicates the given schema.

**Action**      Choose a different schema or a different database.

**ORA-23308     object “*name.name*” does not exist or is invalid**

**Cause** The given name was null or misspelled, the given type was wrong, the object does not exist as a valid database object, or the object does not exist as a replicated object with the appropriate status.

**Action** Ensure the object is valid in the database, is visible to the user, and, if appropriate, is a valid object in ALL\_REPOBJECT.

**ORA-23309     object “*name.name*” of type *name* exists**

**Cause** An object in the same namespace exists, perhaps with a different type or shape, or the same object has already been registered as a repobject in another object group.

**Action** Remove the offending object with the SQL DROP command, unregister the offending object with DBMS\_REPCAT.DROP\_MASTER\_REPOBJECT(), or reinvoke the request using TRUE for a boolean parameter such as RETRY or USE\_EXISTING\_OBJECT.

For more information about the DBMS\_REPCAT package, see the index entry on “DBMS\_REPCAT package” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23310     object group “*name*” is not quiesced**

**Cause** The requested operation requires the object group to be suspended.

**Action** Invoke SUSPEND\_MASTER\_ACTIVITY at the repgroup’s masterdef, wait until the status has changed to quiesced, and then retry the original request.

For more information about quiescing the replicated environment and suspending replication activity, see the index entries on “quiescing,” “suspending replication activity,” and “SUSPEND\_MASTER\_ACTIVITY” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23311     object group “*name*” is quiesced**

**Cause** SUSPEND\_MASTER\_ACTIVITY has been called before the object group has resumed normal operation.

**Action** If a RESUME\_MASTER\_ACTIVITY request is pending, wait until it completes, and then reinvoke SUSPEND\_MASTER\_ACTIVITY.

For more information about quiescing the replicated environment and resuming replication activity, see the index entries on “quiescing,” “resuming replication activity,” “SUSPEND\_MASTER\_ACTIVITY,” and “RESUME\_MASTER\_ACTIVITY” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23312    not the masterdef according to *name***

**Cause** The group name is null, the group name is misspelled, the invocation or given database is not the masterdef, or one of the masters does not believe the invocation database is the masterdef.

**Action** If the given group name and masterdef were both correct, connect to the masterdef and retry the request, or relocate the masterdef at the errant databases using RELOCATE\_masterdef.

For more information about changing master definition sites, see the index entries on “recovery” and on “RELOCATE\_MASTERDEF” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23313    object group “*name*” is not mastered at *name***

**Cause** The group name is null, the group name is misspelled, the invocation database is not a master, or the invocation database does not believe the given database is a master.

**Action** If the given group name was correct, connect to a current master and retry the request, make the invocation database a master with ADD\_MASTER\_DATABASE, or use SWITCH\_SNAPSHOT\_MASTER if the invocation database is a snapshot site.

For more information about adding a master site and changing a snapshot site’s master, see the index entries on “master sites, creating,” “changing, master definition site,” “ADD\_MASTER\_DATABASE,” “SWITCH\_SNAPSHOT\_MASTER” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23314    database is not a snapshot site for *name***

**Cause** The invocation database is not a snapshot database for the given object group.

**Action** Connect to the desired snapshot database and retry the request, or make the invocation database a snapshot site with CREATE\_SNAPSHOT\_REPSHEMA or CREATE\_SNAPSHOT\_REPGROUP.

**ORA-23315    repcatlog version or request *name* is not supported by version *name***

**Cause** Either incompatible repcat versions are used, or a REPCATLOG record has been corrupted.

**Action** Convert the master to a compatible version of repcat or retry the request.

**ORA-23316    the masterdef is *name***

**Cause** One of the masters to be removed is the masterdef.

**Action** Relocate the masterdef to a master that will not be removed, and then reinvoke the REMOVE\_MASTER\_DATABASES request at the new masterdef.

**ORA-23317    a communication failure has occurred**

**Cause** The remote database is inaccessible.

**Action** Ensure the remote database is running, the communications network is functioning, and the appropriate database links are present.

**ORA-23318    a DDL failure has occurred**

**Cause** User-supplied or system-generated DDL did not execute successfully.

**Action** Examine DDL, database state, REPCATLOG, and ALL\_ERRORS to determine why the failure occurred.

**ORA-23319    parameter value *name* is not appropriate**

**Cause** The given value of a parameter is either null, misspelled, or not supported.

**Action** Refer to the documentation and use parameter values that are appropriate for the given situation.

**ORA-23320    the request failed because of values *name* and *name***

**Cause** A missing DDL record for a REPCATLOG record, or inconsistency in REPCAT views.

**Action** Retry the request, or make the views consistent.

**ORA-23323    parameter length exceeds deferred remote procedure call limits**

**Cause** A deferred remote procedure call parameter was longer than the deferred remote procedure call limit of 2000 bytes for CHAR/VARCHAR2 parameters and 255 bytes for raw parameters.

**Action** Use smaller parameters.

**ORA-23324 error *num*, while creating DEFERROR entry at *name* with error *num***

**Cause** The given error was encountered while attempting to create a DEFERROR entry for the given error code and the given database.

**Action** Correct the cause of the given error.

**ORA-23325 parameter type is not *type***

**Cause** A function in DBMS\_DEFER\_SYS\_QUERY was called to retrieve a deferred remote procedure call parameter from the deferred remote procedure call queue, but the type of the parameter does not match the return type of the function.

**Action** Use the function corresponding to the parameter type.

**ORA-23326 the system is being quiesced**

**Cause** A deferred remote procedure call operation was attempted while the database was quiesced.

**Action** Resume database activity with the DBMS\_REPCAT.RESUME\_MASTER\_ACTIVITY call.

**ORA-23327 imported deferred remote procedure call data does not match *id* of importing db**

**Cause** Deferred remote procedure call queues were imported from a database with a different global name or operating system than the importing database.

**Action** Deferred remote procedure call data should only be imported into a database with the same global name and hardware and operating system.

**ORA-23328 snapshot base table *name.name* must be same as replicated master table**

**Cause** When creating a snapshot through repcat, the snapshot base table did not match a replicated table name at the master.

**Action** Change the snapshot DDL to use the same base table as the replicated table name at the master.

For more information about naming a snapshot base table, see the index entries on “snapshots, naming” and on “snapshots, base table” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23329     successful user-provided ddl but no snapshot *name.name*.**

**Cause**     The DDL provided by the user to create a snapshot was executed without error, but snapshot does not exist.

**Action**     Manually back-out the DDL, and re-register with matching ddl and snapshot.  
For more information about creating a snapshot, see the index entries on “snapshot sites, creating” and on “snapshot sites, propagating DDL changes” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23330     column group *name* already exists**

**Cause**     The column group was already registered in the object group.

**Action**     Use a column group name not yet registered in the object group.

**ORA-23331     column group *name* does not exist**

**Cause**     The given column group is either null, misspelled or not registered.

**Action**     Use a registered column group.

**ORA-23332     group *name* is in use; cannot drop**

**Cause**     The given column group or priority group is being used to resolve conflicts.

**Action**     Call DBMS\_REPCAT procedures DROP\_UPDATE\_RESOLUTION, DROP\_DELETE\_RESOLUTION, DROP\_UNIQUE\_RESOLUTION so that the column group or priority group is no longer in use before dropping.

**ORA-23333     column *name* is already part of a column group**

**Cause**     Attempted to add a column to a column group when the column was already a member of a column group.

**Action**     Drop the column from its existing column group before trying to add it to another.

**ORA-23334     column *name* does not exist in table or column group**

**Cause**     The given column is either null, misspelled or is not part of the given table or column group.

**Action**     Use a column that is a member of the table or column group.



**ORA–23335    priority group *name* already exists**

**Cause**    The priority group was already registered in the object group.

**Action**    Use a column group name not yet registered in the object group.

**ORA–23336    priority group *name* does not exist**

**Cause**    The priority group was already registered in the object group.

**Action**    Use a priority group name not yet registered in the object group.

**ORA–23337    priority or value not in priority group *name***

**Cause**    The specified value or priority has not been registered as part of the priority group.

**Action**    Either specify a different value or priority that is already part of the priority group, or add the value to the priority group.

**ORA–23338    priority or value already in priority group *name***

**Cause**    The specified value or priority has already been registered as part of the priority group.

**Action**    Either specify a different value or priority that is not already part of the priority group, or drop the value from the priority group.

**ORA–23339    duplicate conflict resolution information**

**Cause**    The specified combination of column group, sequence, conflict type and/or parameter table name, parameter column name, and parameter sequence number has already been registered.

**Action**    Verify that additional conflict resolution information needs to be added and provide a new sequence number. If modifying existing information, the existing information must be dropped first.

**ORA–23340    incorrect resolution method *name***

**Cause**    User function is specified when conflict resolution method was not “USER FUNCTION” or specified resolution method is not one of the predefined methods.

**Action**    If user function is specified when conflict resolution method was not “USER FUNCTION”, either reregister function with method as “USER FUNCTION” or specify a NULL user function. Otherwise, specify one of the documented supported conflict resolution methods.

**ORA-23341    user function required**

**Cause** A NULL user function was specified for the “USER FUNCTION” method.

**Action** Provide user function name, e.g., “schema”. “package”. “function”, that conforms to the documented user function specifications or specify one of the documented supported conflict resolution methods.

**ORA-23342    invalid parameter column *name***

**Cause** The parameter column name is null or misspelled, the invocation database is not a master, or is of the wrong type for the specified conflict resolution method.

**Action** Specify a parameter column from the specified column group that has a correct type for the conflict resolution method.

**ORA-23343    no match for specified conflict resolution information**

**Cause** The specified combination of column group, sequence, conflict type has not been registered, for example, for adding a comment.

**Action** Specify a combination of column group, sequence, conflict type that has been registered.

**ORA-23344    constraint *name.name* does not exist**

**Cause** A null, misspelled or nonexistent constraint was specified when registering a uniqueness conflict.

**Action** Register a named constraint for the specified table.

**ORA-23345    table *name.name* not registered to collect statistics**

**Cause** A procedure that deals with conflict resolution statistics-gathering was called for a table that was not registered to collect statistics.

**Action** Call DBMS\_REPCAT.REGISTER\_STATISTICS to register the table.

**ORA-23346    primary key is undefined for table *name***

**Cause** Trying to generate replication support for a table without a primary key as defined by a constraint or DBMS\_REPCAT\_COLUMNS.

**Action** Add a primary key constraint to the table or define a primary key using DBMS\_REPCAT\_COLUMNS.

**ORA-23347     datatype *name* for column *name* table *name* not supported**

**Cause**     The table has a column whose datatype is not supported by repcat.

**Action**     Remove the column from the table, or alter the column to have one of the supported datatypes.

**ORA-23348     cannot replicate procedure *name*; only IN parameters supported**

**Cause**     Trying to generate replication support for a package that has a procedure with OUT or IN OUT parameters.

**Action**     Remove the procedure from the package, or remove the OUT or IN OUT parameters from the procedure.

**ORA-23349     cannot generate replication support for functions**

**Cause**     Trying to generate replication support for a package that has a public function, or for a stand-alone function.

**Action**     Remove the public function from the package, or alter the function to be a procedure.

**ORA-23350     maximum number of recursive calls exceeded**

**Cause**     This usually occurs when trying to resolve conflicts in a table while concurrent updates to the same row create more conflicts.

**Action**     Re-execute the deferred transaction from DEFERROR using DBMS\_DEFER\_SYS.EXECUTE\_ERROR.

**ORA-23351     parameter datatype *name* for procedure *name* not supported**

**Cause**     The procedure has a parameter whose datatype is not supported by repcat.

**Action**     Remove the parameter from the procedure, or alter the parameter to have one of the supported datatypes.

**ORA-23352     duplicate destination for deferred transaction**

**Cause**     A duplicate destination was specified for a deferred transaction either in a DBMS\_DEFER.CALL call or an earlier DBMS\_DEFER.TRANSACTION call or a DBMS\_DEFER\_SYS.ADD\_DEFAULT\_DEST call.

**Action**     Remove the duplicate entry.

**ORA–23353    deferred RPC queue has entries for object group *name***

**Cause** The requested action cannot be performed until the queue is empty for the given object group.

**Action** Use DBMS\_DEFER\_SYS.EXECUTE or DBMS\_DEFER\_SYS.DELETE\_TRAN to empty the queue.

For more information about forcing an execution of the deferred transaction queue and deleting a transaction in deferred transaction queue, see the index entries on “deferred transactions, pushing changes,” “DefError table, deleting transactions from,” “DBMS\_DEFER\_SYS.EXECUTE,” “DBMS\_DEFER\_SYS.DELETE\_TRAN” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA–23354    deferred RPC execution disabled for *name***

**Cause** The execution of a deferred remote procedure call at the destination failed because its propagation was disabled.

**Action** Enable deferred remote procedure call execution with the DBMS\_DEFER\_SYS.ENABLE call.

**ORA–23355    object *name.name* does not exist or is invalid at master site.**

**Cause** The given name was null or misspelled; the given type was wrong; the object does not exist as a valid database object at the master site; or the object does not exist as a replicated object with the appropriate status.

**Action** Ensure the object is valid in the master database and is visible to the user; and if appropriate, ensure the object is a valid object in all\_repobject.

For more information about valid objects at the master site, see the index entry on “snapshot sites, objects allowed” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA–23360    only one snapshot for master table *name* can be created**

**Cause** An attempt to create more than one snapshot on a given master table in the same rep group.

**Action** Create these other snapshots in a different rep group at another site.

For more information about creating a snapshot, see the index entries on “snapshot sites, creating” and on “snapshot logs, master table, creating” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23361      snapshot *name* does not exist at master site**

**Cause**      The snapshot does not exist at the master site for offline instantiation of the snapshot.

**Action**      The correct procedure is to create the snapshot in a different schema at the master site, and then follow the instructions for offline instantiation of snapshots.

For more information about creating a snapshot, see the index entries on “snapshot sites, creating” and on “snapshot logs, master table, creating” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23363      mismatch of snap base table *name* at master and snap site**

**Cause**      The name of the base table of the snapshot at the master site is different from the base table at the snapshot site. This error may arise during offline instantiation of snapshots.

**Action**      Retry offline instantiation with a snapshot name less than 24 bytes.

For more information about naming a snapshot, see the index entry on “snapshots, base table” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23364      replication option not installed**

**Cause**      The replication option was not installed at this site. Updatable snapshots, deferred remote procedure calls, and other replication features were, therefore, unavailable.

**Action**      Install the replication option. The replication option is not part of the Oracle7 Server product and must be purchased separately. Contact an Oracle Sales representative if the replication option needs to be purchased.

**ORA-23365      site *name* does not exist**

**Cause**      The site specified in argument REFERENCE\_SITE or argument COMPARISON\_SITE in call to DIFFERENCES() routine or RECTIFY() routine did not name an existing site.

**Action**      Make sure that database sites specified really do exist, and re-run the routine.

For more information about the arguments to the DIFFERENCES() routine and the RECTIFY() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23366 integer value *num* is less than 1**

**Cause** The value of argument MAX\_MISSING to routine DIFFERENCES() cannot be less than 1. Value of argument COMMIT\_ROWS to routines DIFFERENCES() and RECTIFY() cannot be less than 1.

**Action** Choose an integer value for those arguments to be 1 or greater.

For more information about the arguments to the DIFFERENCES() routine and the RECTIFY() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23367 table *name* is missing the primary key**

**Cause** The table specified in argument ONAME1 or ONAME2 in call to DIFFERENCES() routine did not contain either a primary key or a virtual primary key (defined through DBMS\_REPCAT package under symmetric replication).

**Action** Make sure the tables specified have a primary key defined.

For more information about the arguments to the DIFFERENCES() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23368 name *name* cannot be null or the empty string**

**Cause** Argument SNAME1, SNAME2, ONAME1, ONAME2, MISSING\_ROWS\_SNAME, MISSING\_ROWS\_ONAME1, MISSING\_ROWS\_ONAME2 to DIFFERENCES() or RECTIFY() cannot be NULL or (EMPTY STRING).

**Action** Change the argument to a non-null or a non-empty string.

For more information about the arguments to the DIFFERENCES() routine and the RECTIFY() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23369 value of “*name*” argument cannot be null**

**Cause** Argument MAX\_MISSING to DIFFERENCES() routine cannot be NULL.

**Action** Legal values for MAX\_MISSING are integers 1 or greater.

For more information about the arguments to the DIFFERENCES() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23370     table name and table *name* are not shape equivalent *name***

**Cause** The tables specified were not shape equivalent, which means intuitively that the number of columns, the names, their datatypes and lengths were not the same. Specifically, the problem was in the parentheses and was one of the following: the number of columns were not equal, datatypes of columns with same name in different tables were different, lengths of VARCHAR2 and CHAR columns were not equal, precision and scale of number datatypes were not equal.

**Action** Make sure the two tables being compared have the same number of columns, same column names, and same datatypes.

For more information about using column groups, see the index entry on “column groups, using” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23371     column *name* unknown in table *name***

**Cause** Some column in ARRAY\_COLUMNS argument (or COLUMN\_LIST argument) to DIFFERENCES() routine did not correspond to a column in the specified table.

**Action** Make sure that all the columns in either ARRAY\_COLUMNS or COLUMN\_LIST are present in the specified table.

For more information about the arguments to the DIFFERENCES() routine, see the *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23372     type *name* in table *name* is unsupported**

**Cause** Certain types in the table comparison utility were not supported.

**Action** Make sure that the types of columns in the tables to be compared are the ones supported by symmetric replication.

For more information about column groups, see the index entry on “column groups, understanding” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23373     object group *name* does not exist**

**Cause** The group name was null or misspelled, or the group did not exist locally.

**Action** Specify the group correctly, or create it with DBMS\_REPCAT.CREATE\_MASTER\_REGROUP().

For more information about creating a replicated group, see the index entries on “replicated groups, creating” and on “DBMS\_REPCAT.CREATE\_MASTER\_REGROUP” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23374    object group *name* already exists**

**Cause** The given database already replicated the given object group.

**Action** Choose a different group or a different database.

**ORA-23375    feature is incompatible with database version at *num***

**Cause** A feature not compatible with the specified database was used.

**Action** Set or raise the value of the COMPATIBLE parameter in the INIT.ORA file to match the necessary compatibility level.

For more information about parameter files and their initialization parameters, see the index entry on “parameter files” in *Oracle7 Server Concepts*.

**ORA-23376    node *name* is not compatible with replication version \“*name*\”**

**Cause** A feature that was not compatible with the remote database was used.

**Action** Upgrade the remote database and retry the operation.

For more information about replication compatibility, see *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23377    bad name *name* for missing\_rows\_onsame1 argument**

**Cause** An attempt was made to use the name of the reference site table as the name of the MISSING\_ROWS\_ONAME1 argument.

**Action** Provide a separately created table with a different name for MISSING\_ROWS\_ONAME1 argument. The separately created table will contain the differences between the tables being compared.

For more information about the MISSING\_ROWS\_ONAME1 argument, see *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23378    connection qualifier *name* is not valid for object group *name***

**Cause** The connection qualifier used in the database link for the specified object group does match the qualifier specified for the group in create\_master\_repgroup.

**Action** Use or create a database link which contains the correct connection qualifier.

For more information about connection qualifiers, see *Oracle7 Server Distributed Systems, Volume II*.



**ORA–23379 connection qualifier *name* is too long**

**Cause** The maximum length of a database link, including the connection qualifier, is 128 bytes.

**Action** Use a shorter connection qualifier, or shorten the name of the database link.  
For more information about connection qualifiers, see *Oracle7 Server Distributed Systems, Volume II*.

**ORA–23380 propagation mode *name* is not valid**

**Cause** The specified propagation is misspelled, or is not supported.

**Action** Refer to the manual on replicated data for valid propagation modes.  
For more information about propagation, see the index entry “propagating changes” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA–23381 generated object for base object *name.name@name* does not exist**

**Cause** The system generated object(s) for the specified base object do not exist at the specified site. The current operation requires the base object to have generated replication support.

**Action** Ensure that the generated replication object(s) for the base object exist and are valid at the specified site. If the generated object(s) do not exist, then the procedure `dbms_repcat.generate_replication_support()` needs to be called from the master definition site for the base object.  
For more information about generating replication support, see the index entry “generating, replication support” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA–23400 invalid snapshot name “*name*”**

**Cause** A null, misspelled, or badly formed snapshot name was given to `DBMS_SNAPSHOT.REFRESH`.

**Action** Provide a valid snapshot name to `DBMS_SNAPSHOT.REFRESH`.

**ORA–23401 snapshot “*name.name*” does not exist**

**Cause** A snapshot name was given to `DBMS_SNAPSHOT.REFRESH` that is not in `SYS.SNAP$` or its associated views.

**Action** Provide a snapshot name that is in `SYS.SNAP$`, `ALL_SNAPSHOTS`, or `USER_SNAPSHOTS`.

- ORA-23402**    **refresh was aborted because of conflicts caused by deferred transactions**
- Cause**    There are outstanding conflicts logged in the DEFERROR table at the snapshot's master.
- Action**    Resolve the conflicts in the master DEFERROR table and refresh again after the table is empty. Alternatively, refresh with REFRESH\_AFTER\_ERRORS set to TRUE, which will proceed with the refresh, even if there are conflicts in the master's DEFERROR table. Proceeding despite conflicts can result with an updatable snapshot's changes appearing to be temporarily lost, until a refresh succeeds after the conflicts are resolved.
- 
- ORA-23403**    **refresh group “*name.name*” already exists. Refresh group not a stored object?**
- Cause**    Making a new refresh group when there is already a group of the same name in SYS.RGROUP\$.
- Action**    Choose a different refresh group name.
- 
- ORA-23404**    **refresh group “*name.name*” does not exist**
- Cause**    A refresh group name was given that is not in SYS.RGROUP\$.
- Action**    Provide a refresh group name that is in SYS.RGROUP\$ or DBS\_RGROUP.
- 
- ORA-23405**    **refresh group number “*name*” does not exist**
- Cause**    A refresh group number was given that is not in SYS.RGROUP\$.
- Action**    Provide a refresh group number that is in SYS.RGROUP\$ or DBS\_RGROUP.
- 
- ORA-23406**    **insufficient privileges on user “*name*”**
- Cause**    The caller is not the owner of the snapshot and does not have ALTER ANY SNAPSHOT privileges.
- Action**    Perform the operation as the owner of the snapshot or as a user with ALTER ANY SNAPSHOT privileges.
- 
- ORA-23407**    **object name “*name*” must be shaped like “SCHEMA.OBJECT” or “OBJECT”**
- Cause**    The object name, for example, the rollback segment, the snapshot name, or the refresh group, was incorrectly specified.
- Action**    Retry the operation with the object name properly specified, like “SCHEMA.OBJECT” or “OBJECT”.

**ORA-23409      could not find an unused refresh group number**

**Cause**      1000 consecutive refresh group numbers, as defined by the RGROUPSEQ number, were already used by rows in SYS.RGROUPS.

**Action**      Alter the sequence number to be within a legal unused range and destroy unneeded refresh groups.

**ORA-23410      snapshot “*name.name*” is already in a refresh group**

**Cause**      A snapshot of the same name is already in a refresh group.

**Action**      Subtract the snapshot its the current refresh group and add it to its new refresh group, or combine the two refresh groups into a single refresh group.

**ORA-23411      snapshot “*name.name*” is not in refresh group “*name.name*”**

**Cause**      The specified snapshot is not in the specified refresh group.

**Action**      Try again with the proper snapshot and refresh group names.

**ORA-23420      interval must evaluate to a time in the future**

**Cause**      The parameter INTERVAL evaluates to a time earlier than SYSDATE.

**Action**      Choose an expression that evaluates to a time later than SYSDATE.

**ORA-23421      job number *num* is not a job in the job queue**

**Cause**      There is no job visible to the caller with the given job number.

**Action**      Choose the number of a job visible to the caller.

**ORA-23422      Oracle Server could not generate an unused job number**

**Cause**      Oracle Server could not generate a job number that was not used to identify another job.

**Action**      Retry the operation.

**ORA-23423      job number *num* is not positive**

**Cause**      The given job number is less than 1.

**Action**      Choose a positive integer.

**ORA-23430     argument *name* cannot be NULL or empty string**

**Cause** The caller has provided an argument whose value cannot be NULL or the empty string.

**Action** Check that the VARCHAR2 value provided is not NULL or the empty string and retry the call.

For more information about NULL and VARCHAR2, see the index entries on “NULL” and “VARCHAR2” in the *PL/SQL User’s Guide and Reference*.

**ORA-23431     wrong state: *name***

**Cause** The routine was executed against a replicated object group that was in the wrong state.

**Action** Make sure that the replicated object group is in the state given in the error message.

For more information about replicated schemas, see the index entry on “replicated schemas” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23432     master site *name* already exists**

**Cause** An attempt was made to instantiate a replicated object group at a master site that was already a part of the object group.

**Action** If you were trying to add this site, do nothing because it already exists; otherwise, pick the name of another site, and re-run the routine.

For more information about replicated schemas, see the index entry on “replicated schemas” in *Oracle7 Server Distributed Systems, Volume II*.

**ORA-23433     executing against wrong master site *name***

**Cause** An attempt was made to execute the routine at a site that is different from the site specified in the argument of the routine.

**Action** Provide an argument to the routine that correctly indicates the site against which the routine should be executing.

For more information about site priority, see the index entry on “site priority” in *Oracle7 Server Distributed Systems, Volume II*.

## 24300–24999: UPI/OCI Messages

### ORA–23434 master site *name* not known for object group

**Cause** The site name given as an argument to a routine was not already known to the replicated object group.

**Action** Execute the DBMS\_OFFLINE\_SCHEMA.BEGIN\_INSTANTIATION() routine to add a new site to the replicated schema.

For more information about adding members to site priority groups, see the index entry on “site priority groups, adding members to” in *Oracle7 Server Distributed Systems, Volume II*.

### ORA–24275 function *name* parameter *name* missing or invalid

**Cause** The function <pkgnname.funcname> was called with a parameter <parname> that was null, 0 length, or had an invalid value.

**Action** Correct the parameter to supply values that comply with its datatype and limits as specified in the documentation.

### ORA–24276 function *name* output *name* maximum value exceeded

**Cause** The function <pkgnname.funcname> computed a value for the output <parname> that exceeded the maximum allowed. This can occur when multiple input parameters, each valid separately, combine to specify an invalid result. For example, when a length parameter multiplied by a copies parameter yields a total length exceeding the maximum for the output datatype.

**Action** Correct the input values to produce a result that will comply with the limits as specified in the documentation.

---

## 24300–24999: UPI/OCI Messages

### ORA–24300 bad value for mode

**Cause** An undefined mode value was specified.

**Action** Check that the correct mode is selected and that an allowed value for that mode is specified.

For more information about mode values, see the index entries on “mode, of a parameter in C,” “mode, of a parameter in COBOL,” “mode, of a parameter in FORTRAN” in the *Programmer’s Guide to the Oracle Call Interface*.

**ORA-24301 null host specified in thread-safe logon**

**Cause** An HDA was not specified in the logon call while running in a thread safe environment.

**Action** Make sure that HDA is not NULL when calling the logon routine.

For more information about host data areas(HDA) and defining the OCI data structures, see the index entries on “host data area” and on “data structures, defining” in the *Programmer's Guide to the Oracle Call Interface*.

**ORA-24302 host connection in use by another thread**

**Cause** An attempt was made to use the host connection while it was in use by another thread.

**Action** Wait for another thread to finish before using this connection.

For more information about connecting to the Oracle Server, see the index entry on “connections, multiple” in the *Programmer's Guide to the Oracle Call Interface*.

**ORA-24303 call not supported in non-deferred linkage**

**Cause** One of the calls that was supported in deferred mode linkage exclusively was invoked when the client was linked non-deferred.

**Action** Use this call in deferred mode of linkage.

For more information about deferred mode linking, see the index entry on “deferred, mode linking” in the *Programmer's Guide to the Oracle Call Interface*.

**ORA-24304 datatype not allowed for this call**

**Cause** Data of this datatype cannot be sent or fetched in pieces.

**Action** Use other bind or define calls for this datatype.

For more information about bind and define calls, see the index entry on “developing an OCI program” in the *Programmer's Guide to the Oracle Call Interface*.

## 25000–25099: Trigger Errors

### ORA–24305 bad bind or define context

**Cause** The call was executed on a cursor for which this was invalid.

**Action** Verify that this call is valid for this cursor. For example, GET PIECE INFORMATION and SET PIECE INFORMATION are valid on a cursor if appropriate binds and defines have been done on this cursor.

For more information about bind and define calls, see the index entries on “bind operation” and on “define operation” in the *Programmer’s Guide to the Oracle Call Interface*.

### ORA–24306 bad buffer for piece

**Cause** A zero length buffer or a null buffer pointer was provided.

**Action** Verify that the buffer pointing to this piece or its length is non-zero. The buffer pointer for the next piece or its length can be zero if it is the last piece to be inserted and there are no more data for the column.

For more information about fetching operations, see the index entry on “rows, fetching” in the *Programmer’s Guide to the Oracle Call Interface*.

### ORA–24307 invalid length for piece

**Cause** The length of the piece exceeds the maximum possible size of the data.

**Action** Verify that the length of this piece and the cumulative length of all the previous pieces are not more than the PROGVL parameter specified in the obindps call.

For more information about fetching operations, see the index entry on “rows, fetching” in the *Programmer’s Guide to the Oracle Call Interface*.

---

## 25000–25099: Trigger Errors

### ORA–25000 invalid use of bind variable in trigger WHEN clause

**Cause** A bind variable was used in the WHEN clause of a trigger.

**Action** Remove the bind variable. To access the table columns, use (new/old).column\_name.

For more information about triggers, see the index entry on “triggers” in *Oracle7 Server SQL Reference*.

---

**25100–25199: Parse Errors****ORA-25100      TABLESPACE option can only be used with ALTER INDEX REBUILD**

**Cause**      The TABLESPACE option to ALTER INDEX was used without the REBUILD option.

**Action**      Use ALTER INDEX REBUILD TABLESPACE <tablespace name>.  
  
For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA-25101      duplicate REBUILD option specification**

**Cause**      The REBUILD option to ALTER INDEX was specified more than once.

**Action**      Specify the option at most once.  
  
For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA-25102      PARALLEL option can only be used with ALTER INDEX REBUILD**

**Cause**      The PARALLEL option to ALTER INDEX was used without the REBUILD option.

**Action**      Use ALTER INDEX REBUILD.  
  
For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA-25103      NOPARALLEL option can only be used with ALTER INDEX REBUILD**

**Cause**      The NOPARALLEL option to ALTER INDEX was used without the REBUILD option.

**Action**      Use ALTER INDEX REBUILD.  
  
For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.



**ORA–25104      UNRECOVERABLE option can only be used with ALTER INDEX REBUILD**

**Cause**      The UNRECOVERABLE option to ALTER INDEX was used without the REBUILD option.

**Action**      Use ALTER INDEX REBUILD.

For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX,” “UNRECOVERABLE,” and “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA–25105      RECOVERABLE option can only be used with ALTER INDEX REBUILD**

**Cause**      The RECOVERABLE option to ALTER INDEX was used without the REBUILD option.

**Action**      Use ALTER INDEX REBUILD.

For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA–25106      only one of PARALLEL or NOPARALLEL clause may be specified**

**Cause**      PARALLEL was specified more than once, NOPARALLEL was specified more than once, or both PARALLEL and NOPARALLEL were specified in an ALTER INDEX REBUILD statement.

**Action**      Remove all but one of the PARALLEL or NOPARALLEL clauses.

For more information about ALTER INDEX and other options in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA–25107      duplicate TABLESPACE option specification**

**Cause**      The TABLESPACE was specified more than once in an ALTER INDEX REBUILD statement.

**Action**      Remove all but one of the TABLESPACE clauses.

For more information about ALTER INDEX and the TABLESPACE option in CREATE INDEX, see the index entries on “ALTER INDEX” and on “CREATE INDEX” in *Oracle7 Server SQL Reference*.

**ORA-25108     standby lock name space exceeds size limit of *num* characters**

**Cause** The lock name space for the standby database exceeded the maximum string length.

**Action** Change initialization parameter STANDBY\_LOCK\_NAME\_SPACE to a character string of less than the specified characters.

For more information about standby databases, see the index entries on “standby database” in the *Oracle7 Server Administrator's Guide*.

**ORA-25109     standby lock name space has illegal character *char***

**Cause** An invalid lock name space was specified for the standby database. The lock name space for the standby database can only contain A–Z, 0–9, ' \_', '#', '\$', and '@' characters.

**Action** Change initialization parameter STANDBY\_LOCK\_NAME\_SPACE to a valid character string.

For more information about standby databases, see the index entries on “standby database” in the *Oracle7 Server Administrator's Guide*.

**ORA-25110     NOSORT may not be used with a bitmap index**

**Cause** An attempt was made to create a bitmap index using the NOSORT option.

**Action** Remove NOSORT from the CREATE BITMAP INDEX statement.

For more information about the NOSORT option, see the index entry on “NOSORT option, of CREATE INDEX command” in *Oracle7 Server SQL Reference*.

**ORA-25111     BITMAP may not be used with a cluster index**

**Cause** An attempt was made to create a cluster index the the BITMAP attribute.

**Action** Remove BITMAP from the CREATE INDEX statement.

For more information about the CREATE INDEX command, see the index entry on “CREATE INDEX command” in *Oracle7 Server SQL Reference*.

**ORA-25112     a bitmap index may index only one column**

**Cause** An attempt was made to create a bitmap index on more than one column.

**Action** Remove all columns in the CREATE INDEX statement except one.

For more information about the CREATE INDEX command, see the index entry on “CREATE INDEX command” in *Oracle7 Server SQL Reference*.

## 25200–25699: Advanced Queueing

### ORA–25113 DML operations for BITMAP indexes not implemented

**Cause** A DML operation such as INSERT, UPDATE, DELETE was performed on a table that has at least one BITMAP index defined.

**Action** Remove all BITMAP indexes defined on the table.

For more information about the CREATE INDEX command, see the index entry on “CREATE INDEX command” in *Oracle7 Server SQL Reference*.

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## 25200–25699: Advanced Queueing

# PL/SQL and FIPS Messages

**T**his chapter lists messages issued by PL/SQL. For each message, the probable cause and corrective action are given.

To help you find and fix errors, PL/SQL inserts object names, numbers, and character strings into some error messages. These message inserts are represented by ***name***, ***num***, and ***str***, respectively. For example, the error message listed as

```
PLS-00388: undefined column name in subquery
```

might be issued as

```
PLS-00388: undefined column AMPNO in subquery
```

This chapter also lists the warnings that can be issued by the FIPS Flagger when it is enabled in an Oracle tool.

## **PL/SQL Error Messages**

**PLS-00101      reserved for future use**

**Release**      Not in Release 2.3.

**PLS-00102      parser stack overflow because nesting is too deep**

**Cause**      The parser, which checks the syntax of PL/SQL statements, uses a data structure called a stack; the number of levels of nesting in the PL/SQL block exceeded the stack capacity.

**Action**      Reorganize the block structure to avoid nesting at too deep a level. For example, move the lowest-level sub-block to a higher level.

**PLS-00103      found *str* but expected one of the following: *str***

**Cause**      This error message is from the parser. It found a token (language element) that is inappropriate in this context.

**Action**      Check previous tokens as well as the one given in the error message. The line and column numbers given in the error message refer to the end of the faulty language construct.

**PLS-00104      empty argument list in call of procedure *name* must be omitted**

**Cause**      In a subprogram call, the name of the subprogram was followed by an empty parameter list. For example, procedure P was called as P(). This is not allowed.

**Action**      Remove the empty parameter list. In the example, change the procedure call to P.

**PLS-00105      at most one forward declaration of type *name* is permitted**

**Release**      Not in Release 2.3.

**PLS-00108      declarative units must be a single variable declaration**

**Cause**      While checking a declarative unit (a top-level declare block without the BEGIN...END), PL/SQL found that there was more than one item declared or that the item was not a variable declaration. A table is a common variable declaration at the unit level. To define a TABLE, compile a DECLARE compilation unit, but only one at a time is allowed.

**Action**      Declare variables in separate declarative units.

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLS-00109</b> | <b>unknown exception name <i>name</i> in PRAGMA EXCEPTION_INIT</b>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cause</b>     | No declaration for the exception name referenced in an EXCEPTION_INIT pragma was found within the scope of the pragma.                                                                                                                                                                                                                                                                                                                          |
| <b>Action</b>    | Make sure the pragma follows the exception declaration and is within the same scope.                                                                                                                                                                                                                                                                                                                                                            |
| <b>PLS-00110</b> | <b>bind variable <i>name</i> not allowed in this context</b>                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cause</b>     | A bind variable, that is, an identifier prefixed with a colon, was found in an inappropriate context.                                                                                                                                                                                                                                                                                                                                           |
| <b>Action</b>    | Remove the colon or replace the bind variable with the appropriate object.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>PLS-00111</b> | <b>end-of-file in comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cause</b>     | A comment had a comment initiator (/*), but before the comment terminator (*/) was found, an end-of-file marker was encountered.                                                                                                                                                                                                                                                                                                                |
| <b>Action</b>    | Remove the comment initiator or add a comment terminator. The line and column numbers accompanying the error message refer to the beginning of the last legal token before the comment initiator.                                                                                                                                                                                                                                               |
| <b>PLS-00112</b> | <b>end-of-line in quoted identifier</b>                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cause</b>     | A quoted identifier had a beginning quote ("), but before the ending quote (") was found, an end-of-line marker was encountered.                                                                                                                                                                                                                                                                                                                |
| <b>Action</b>    | Remove the beginning quote or add the ending quote. The line and column numbers accompanying the error message refer to the beginning of the quoted identifier.                                                                                                                                                                                                                                                                                 |
| <b>PLS-00113</b> | <b>END identifier <i>name1</i> must match <i>name2</i> at line <i>num</i>, column <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                |
| <b>Cause</b>     | Following the keyword END, which terminates some language constructs (such as loops, blocks, functions, and procedures), you can optionally place the name of that construct. For example, at the end of the definition of loop L you might write END L.<br><br>This error occurs when the optional name does not match the name given to the language construct. It is usually caused by a misspelled identifier or by faulty block structure. |
| <b>Action</b>    | Make sure the spelling of the END identifier matches the name given to the language construct and that the block structure is correct.                                                                                                                                                                                                                                                                                                          |

### **PLS-00114    identifier *name* too long**

**Cause**    The name of a PL/SQL variable is longer than 30 characters. Legal identifiers (including quoted identifiers) have a maximum length of 30 characters. A string literal might have been mistakenly enclosed in double quotes instead of single quotes, in which case PL/SQL considers it a quoted identifier.

**Action**    Shorten the name to 30 characters or less. If a string literal is being used, replace the double quotes with single quotes.

### **PLS-00115    this PRAGMA must follow the declaration of *name***

**Cause**    The pragma refers to a PL/SQL object that was not declared or is not within the scope of the reference. Identifiers must be declared before they are used in a pragma; forward references are *not* allowed.

**Action**    Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.

### **PLS-00116    duplicate WHERE clause in table expression**

**Cause**    Two or more WHERE clauses were found in a DELETE, SELECT, or UPDATE statement. The WHERE clause specifies a condition under which rows in a table are processed. The condition can contain several logical expressions connected by AND or OR, but a statement can contain only one WHERE clause.

**Action**    Remove one of the WHERE clauses and, if necessary, connect logical expressions by AND or OR.

### **PLS-00117    duplicate CONNECT BY clause in table expression**

**Cause**    Two or more CONNECT BY clauses were found in a SELECT statement. The CONNECT BY clause defines a relationship used to return rows in a hierarchical order. The relationship can contain two expressions separated by a relational operator (such as = or !=), but a statement can contain only one CONNECT BY clause.

**Action**    Remove one of the CONNECT BY clauses and, if necessary, separate expressions by a relational operator.

**PLS-00118 duplicate GROUP BY clause in table expression**

**Cause** Two or more GROUP BY clauses were found in a SELECT statement. The GROUP BY clause lists column expressions used to form a summary row for each group of selected rows. The list can contain several column expressions separated by commas, but a statement can contain only one GROUP BY clause.

**Action** Remove one of the GROUP BY clauses and, if necessary, separate column expressions by commas.

**PLS-00119 duplicate HAVING clause in table expression**

**Cause** Two or more HAVING clauses were found in a SELECT statement. The HAVING clause specifies a condition under which groups of rows (formed by the GROUP BY clause) are included in the result. The condition can include several logical expressions connected by AND or OR, but a statement can contain only one HAVING clause.

**Action** Remove one of the HAVING clauses and, if necessary, connect logical expressions by AND or OR.

**PLS-00120 inappropriate argument in OPEN statement**

**Cause** The *cursor\_name* parameter in an OPEN statement is misspelled or does not refer to a legally declared cursor.

**Action** Check the spelling of the *cursor\_name* parameter. Make sure the cursor was declared properly.

**PLS-00121 only the set function COUNT may take \* as an argument**

**Cause** The asterisk (\*) option was used in the argument list of a SQL group function other than COUNT. For example, the code might look like

```
SELECT SUM(*) INTO emp_count FROM emp; -- should be COUNT(*)
```

Only COUNT permits the use of the asterisk option, which returns the number of rows in a table.

**Action** Remove the asterisk option from the argument list and replace it with an expression that refers to one or more database columns.



### **PLS-00123     program too large**

**Cause** PL/SQL was designed primarily for robust transaction processing. One consequence of the special-purpose design is that the PL/SQL compiler imposes a limit on block size. The limit depends on the mix of statements in the PL/SQL block. Blocks that exceed the limit cause this error.

**Action** The best solution is to modularize the program by defining subprograms, which can be stored in an Oracle database. Another solution is to break the program into two sub-blocks. Have the first block INSERT any data the second block needs into a temporary database table. Then, have the second block SELECT the data from the table.

### **PLS-00124     name of exception expected for first argument in EXCEPTION\_INIT pragma**

**Cause** The first argument passed to the EXCEPTION\_INIT pragma was something other than an exception name. The first argument must be the name of a legally declared exception.

**Action** Replace the first argument with the name of a legally declared exception.

### **PLS-00125     type name expected**

**Cause** When a constant or variable was declared, its datatype was not specified. For example, the code might look like

```
pi  CONSTANT := 3.14159;  -- should be CONSTANT REAL := 3.14159
```

Every constant and variable must have a datatype, which specifies a storage format, constraints, and valid range of values.

**Action** Supply the missing datatype specifier.

### **PLS-00126     selector ALL is not allowed**

**Cause** The ALL shortcut for specifying system privileges or statement options was used in a SQL statement. PL/SQL does not support the ALL shortcut.

**Action** Remove the ALL shortcut from the SQL statement.

### **PLS-00127     pragma *name* is not a supported pragma**

**Cause** The named pragma (compiler directive) is not among those supported by PL/SQL. The pragma name might be misspelled, or the pragma syntax might be faulty.

**Action** Check the spelling of the pragma name, and make sure the proper syntax was used.

- PLS-00128    illegal number of arguments for pragma *name***
- Cause**    The number of arguments (actual parameters) passed to the named pragma (compiler directive) is incorrect. A required argument was omitted from the argument list, or the pragma syntax is faulty (for example, a comma might be missing between two parameters).
- Action**    Supply the missing argument, or correct the faulty syntax.
- 
- PLS-00129    pragma INTERFACE only supports C as its first argument**
- Cause**    The first parameter passed to pragma INTERFACE specified a host language other than C. Currently, C is the only host language supported. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).
- Action**    Check the spelling of the first parameter, which should be C, and make sure the proper syntax was used.
- 
- PLS-00130    pragma *name* expects 1st argument to be a procedure/function/package/cursor**
- Cause**    The first argument (actual parameter) passed to the named pragma (compiler directive) was not the name of a subprogram, package, or cursor, as required. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).
- Action**    Check the spelling of the first parameter, and make sure the proper syntax was used.
- 
- PLS-00131    pragma *name* expects 2nd argument to be a procedure**
- Cause**    The second argument (actual parameter) passed to the named pragma (compiler directive) was not the name of a procedure, as required. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).
- Action**    Check the spelling of the second parameter, and make sure the proper syntax was used.

**PLS-00132     pragma RESTRICT\_REFERENCES does not support *str***

**Cause**     One of the parameters passed to pragma RESTRICT\_REFERENCES was not among the following, as required: WNDS, WNPS, RNDS, RNPS. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).

**Action**     Check the spelling of all the parameters, and make sure the proper syntax was used.

**PLS-00133     pragma *name* expects 1st argument to be an identifier or string literal**

**Cause**     The first argument (actual parameter) passed to the named pragma (compiler directive) was not an identifier or string literal, as required. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).

**Action**     Check the spelling of the first parameter, and make sure the proper syntax was used.

**PLS-00134     pragma *name* expects 2nd argument to be an identifier**

**Cause**     The second argument (actual parameter) passed to the named pragma (compiler directive) was not an identifier, as required. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).

**Action**     Check the spelling of the second parameter, and make sure the proper syntax was used.

**PLS-00135     pragma *name* expects 3rd argument to be an identifier or string literal**

**Cause**     The third argument (actual parameter) passed to the named pragma (compiler directive) was not an identifier or string literal, as required. The parameter might be misspelled, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).

**Action**     Check the spelling of the third parameter, and make sure the proper syntax was used.

- PLS-00136**     **pragma *name* expects 3rd argument to be an empty string**
- Cause**     The third argument (actual parameter) passed to the named pragma (compiler directive) was not an empty string, as required. The parameter might be miscoded, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).
- Action**     Check the coding of the third parameter, and make sure the proper syntax was used.
- 
- PLS-00137**     **pragma *name* expects 4th argument to be a numeric-literal**
- Cause**     The fourth argument (actual parameter) passed to the named pragma (compiler directive) was not a numeric literal, as required. The parameter might be miscoded, or the pragma syntax might be faulty (for example, a comma might be missing between two parameters).
- Action**     Check the coding of the fourth parameter, and make sure the proper syntax was used.
- 
- PLS-00201**     **identifier *name* must be declared**
- Cause**     An attempt was made to reference an undefined variable, exception, procedure, function, or other object. Either the identifier was not declared or it was not within the scope of the reference.
- Action**     Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.
- 
- PLS-00202**     **type *name* must be declared**
- Cause**     An attempt was made to reference an undefined type. Either the type specifier was not declared or it is not within the scope of the reference.
- Action**     Check the spelling and declaration of the type specifier. Also confirm that the declaration is placed correctly in the block structure.
- 
- PLS-00203**     **function DECODE must be called with at least 3 non-Boolean arguments**
- Cause**     Less than three arguments were passed to the built-in function DECODE. Though DECODE takes a variable number of (non-Boolean) arguments, at least three arguments must be passed.
- Action**     Call DECODE with three or more arguments.

**PLS-00204      function or pseudo-column *name* may be used inside a SQL statement only**

**Cause**      A pseudocolumn or proscribed function was used in a procedural statement. The SQL pseudocolumns (CURRVAL, LEVEL, NEXTVAL, ROWID, ROWNUM) can be used only in SQL statements. Likewise, certain functions such as DECODE, DUMP, and VSIZE and the SQL group functions (AVG, MIN, MAX, COUNT, SUM, STDDEV, VARIANCE) can be used only in SQL statements.

**Action**      Remove the pseudocolumn reference or function call from the procedural statement. Or, replace the procedural statement with a SELECT INTO statement; for example, replace

```
bonus := DECODE(rating, 1, 5000, 2, 2500, ...);
```

with the following statement:

```
SELECT DECODE(rating, 1, 5000, 2, 2500, ...) INTO bonus FROM dual;
```

**PLS-00205      aggregate not allowed here**

**Cause**      An aggregate, that is, a parenthesized list of values such as (7788, 'SCOTT', 20), was found in an inappropriate context.

**Action**      Remove or relocate the aggregate.

**PLS-00206      %TYPE must be applied to a variable or column, not *name***

**Cause**      The program object declared using the %TYPE datatype attribute is not of the appropriate class. It must be a variable, column, record component, subprogram formal parameter, or other object to which values can be assigned.

**Action**      Declare an object of the appropriate class or define the datatype in another way (for example, use %ROWTYPE).

**PLS-00207      identifier *name*, applied to implicit cursor SQL, is not a legal cursor attribute**

**Cause**      An identifier that is not a cursor attribute was applied to the identifier SQL. For example, this error occurs if the cursor attribute is misspelled.

**Action**      Check the spelling of the cursor attribute name. Make sure the attribute is one of these: %NOTFOUND, %FOUND, %ROWCOUNT, %ISOPEN.

|                  |                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLS-00208</b> | <b>identifier <i>name</i> is not a legal cursor attribute</b>                                                                                                                   |
| <b>Cause</b>     | An identifier not declared as a cursor attribute was applied to an identifier declared as a cursor. For example, this error occurs if the cursor attribute is misspelled.       |
| <b>Action</b>    | Check the spelling of the cursor attribute name. Make sure the attribute is one of these: %NOTFOUND, %FOUND, %ROWCOUNT, %ISOPEN.                                                |
| <b>PLS-00209</b> | <b>table <i>name</i> is not in FROM clause</b>                                                                                                                                  |
| <b>Cause</b>     | In a query, a table referenced by the select list is not named in the FROM clause.                                                                                              |
| <b>Action</b>    | Check the spelling of the table names, make sure each column in the select list refers to a table in the FROM clause, then re-execute the query.                                |
| <b>PLS-00210</b> | <b>an OTHERS clause is required in this CASE statement</b>                                                                                                                      |
| <b>Release</b>   | Not in Release 2.3.                                                                                                                                                             |
| <b>PLS-00211</b> | <b>CASE labels or ranges must not be duplicated in different WHEN clauses</b>                                                                                                   |
| <b>Release</b>   | Not in Release 2.3.                                                                                                                                                             |
| <b>PLS-00212</b> | <b>could not obtain enough memory to compile CASE statement</b>                                                                                                                 |
| <b>Release</b>   | Not in Release 2.3.                                                                                                                                                             |
| <b>PLS-00213</b> | <b>package STANDARD not accessible</b>                                                                                                                                          |
| <b>Cause</b>     | The PL/SQL compiler could not find package STANDARD in the current Oracle database. To compile a program, PL/SQL needs package STANDARD.                                        |
| <b>Action</b>    | Make sure that package STANDARD is available in the current Oracle database, then retry the operation.                                                                          |
| <b>PLS-00214</b> | <b>BEGIN...END block nesting is too deep</b>                                                                                                                                    |
| <b>Cause</b>     | The number of levels of nesting in the PL/SQL block is too large. Blocks can be nested up to 255 levels deep, depending on the availability of system resources such as memory. |
| <b>Action</b>    | Reorganize the block structure to avoid nesting at too deep a level. For example, move the lowest-level sub-block to a higher level.                                            |

### **PLS-00215    string length constraints must be in range (1 .. 32767)**

**Cause** When a character variable was declared, a length outside the legal range was specified. For example, the following declarations are illegal:

```
flag  CHAR(0);           -- illegal; zero length
name  VARCHAR2(-10);     -- illegal; negative length
```

**Action** Change the length constraint, making sure that it lies in the range 1 .. 32767

### **PLS-00216    NUMBER precision constraint must be in range (1 .. 38)**

**Cause** A NUMBER variable was declared with a precision that is outside the legal range. Declarations such as N NUMBER(800) or N NUMBER(123,10) are not supported.

**Action** Change the illegal NUMBER precision constraint, making sure that it lies in the range 1 .. 38.

### **PLS-00217    NUMBER scale constraint must be in range (-84 .. 127)**

**Cause** A NUMBER variable was declared with a scale that is outside the legal range. Declarations such as N NUMBER(10,345) or N NUMBER(10,-100) are not supported.

**Action** Change the illegal NUMBER scale constraint, making sure that it lies in the range -84 .. 127.

### **PLS-00218    a variable declared NOT NULL must have an initialization assignment**

**Cause** In general, variables that have no initialization clause in their declaration are automatically initialized to NULL. This is illogical for NOT NULL variables; therefore, an initialization clause is required.

**Action** Add an initialization clause to the variable declaration.

### **PLS-00219    label *name* reference is out of scope**

**Cause** A block or loop label was used to qualify a variable (as in *outer\_block.date*) that was not declared or is not within the scope of the label. The variable name might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.

**Action** Check the spelling and declaration of the variable name. Also confirm that the declaration is placed correctly in the block structure.

**PLS-00220     simple name required in this context**

**Cause**     A qualified name such as A.B or A.B.C is not permitted here.

**Action**     Use a simple name such as A instead.

**PLS-00221     *name* is not a procedure or is undefined**

**Cause**     An identifier being referenced as a procedure was not declared or actually represents another object (for example, it might have been declared as a function).

**Action**     Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.

**PLS-00222     no function with name *name* exists in this scope**

**Cause**     An identifier being referenced as a function was not declared or actually represents another object (for example, it might have been declared as a procedure).

**Action**     Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.

**PLS-00223     parameterless procedure *name* used as function**

**Cause**     An identifier being referenced as a parameterless function actually represents a procedure.

**Action**     Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure. If necessary, change the declaration of the identifier or change the reference so that it does not require a return value.

**PLS-00224     object *name* must be of type function or array to be used this way**

**Cause**     An identifier being referenced as a function or an array actually represents an object (a number or date, for example) that cannot be referenced in this way.

**Action**     Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.



### **PLS-00225    subprogram or cursor *name* reference is out of scope**

**Cause**    A subprogram or cursor references a variable that was not declared or is not within the scope of the subprogram or cursor. The variable name might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.

**Action**    Check the spelling and declaration of the variable name. Also confirm that the declaration is placed correctly in the block structure.

### **PLS-00226    package *name* used as variable reference**

**Cause**    A package was referenced in an expression as if it were a variable or function. Either the name of the variable or function is misspelled or the reference is not fully qualified. For example, to call the function *my\_function*, which is stored in package *my\_package*, dot notation must be used, as follows:

```
... my_package.my_function ...
```

**Action**    Correct the spelling of the variable or function name or use dot notation to reference the packaged variable or function.

### **PLS-00227    subprogram IN formal *name* is not yet denotable**

**Cause**    When the formal parameters of a subprogram were declared, one parameter was used to initialize another, as in

```
PROCEDURE my_proc (j NUMBER, k NUMBER := j) IS ...
```

The first parameter has no value until run time, so it cannot be used to initialize another parameter.

**Action**    Remove the illegal formal parameter reference.

### **PLS-00229    attribute expression within SQL expression**

**Cause**    An attribute expression, such as SQL%NOTFOUND, was used in a SQL statement, but attribute expressions are allowed only in procedural statements.

**Action**    To work around this limitation, assign the value of the attribute expression to a variable, then use the variable in the SQL statement. For example, replace the statement

```
INSERT INTO audits VALUES (c1%ROWCOUNT, ...);
```

with the following statements:

```
row_count := c1%ROWCOUNT;  
INSERT INTO audits VALUES (row_count, ...);
```

**PLS-00230     OUT and IN OUT formal parameters may not have default expressions**

**Cause** When the formal parameters of a procedure were declared, an OUT or IN OUT parameter was initialized to a default value, as in

```
PROCEDURE calc_bonus (bonus OUT REAL := 0, ...) IS ...
```

However, only IN parameters can be initialized to default values.

**Action** Remove the illegal default expression.

**PLS-00231     function *name* may not be used in SQL**

**Cause** A proscribed function was used in a SQL statement. Certain functions such as SQLCODE and SQLERRM can be used only in procedural statements.

**Action** Remove the function call from the SQL statement. Or, replace the function call with a local variable. For example, the following statement is illegal:

```
INSERT INTO errors VALUES (SQLCODE, SQLERRM);
```

However, you can assign the values of SQLCODE and SQLERRM to local variables, then use the variables in the SQL statement, as follows:

```
err_num := SQLCODE;
err_msg := SQLERRM;
INSERT INTO errors VALUES (err_num, err_msg);
```

**PLS-00232     nested packages not permitted**

**Cause** A package was declared inside another package, but package declarations are allowed only at the top level. In other words, packages cannot be nested.

**Action** Move the package declaration outside the enclosing package.

**PLS-00233     function name used as an exception name in WHEN clause**

**Cause** The WHEN clause in an exception handler contains a function call instead of an exception name. A valid exception handler consists of a WHEN clause, which must specify an exception, followed by a sequence of statements to be executed when that exception is raised.

**Action** Check the spelling of the identifier in the WHEN clause, then replace the function call with an exception name.

### **PLS-00302      component *name* must be declared**

**Cause** In a reference to a component (for example, in the name A.B, B is a component of A), the component was not declared. The component might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.

**Action** Check the spelling and declaration of the component. Also confirm that the declaration is placed correctly in the block structure.

### **PLS-00303      qualifier *name* must be declared**

**Cause** In a name such as A.B, A is a qualifier, and B is a component of the qualifier. This error occurs when no declaration for the qualifier is found. The qualifier might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.

**Action** Check the spelling and declaration of the qualifier. Also confirm that the declaration is placed correctly in the block structure.

### **PLS-00304      cannot compile body of *name* without its specification**

**Cause** The compiled package specification required to compile a package body could not be found. Some possible causes follow:

- the package name is misspelled
- the package specification was never compiled
- the compiled package specification is not accessible

The package specification must be compiled before compiling the package body, and the compiler must have access to the compiled specification.

**Action** Check the spelling of the package name. Compile the package specification before compiling the package body. Also, make sure the compiler has access to the compiled specification.

### **PLS-00305      previous use of *name* conflicts with this use**

**Cause** While looking for prior declarations of a cursor, procedure, function, or package, the compiler found another object with the same name in the same scope. Or, the headers of subprogram in a package specification and body do not match word for word.

**Action** Check the spelling of the cursor, procedure, function, or package name. Also check the names of all constants, variables, parameters, and exceptions declared in the same scope. Then, remove or rename the object with the duplicate name. Or, change the headers of the packaged subprogram so that they match word for word.

- PLS-00306      wrong number or types of arguments in call to *name***
- Cause** This error occurs when the named subprogram call cannot be matched to any declaration for that subprogram name. The subprogram name might be misspelled, a parameter might have the wrong datatype, the declaration might be faulty, or the declaration might be placed incorrectly in the block structure. For example, this error occurs if the built-in square root function SQRT is called with a misspelled name or with a parameter of the wrong datatype.
- Action** Check the spelling and declaration of the subprogram name. Also confirm that its call is correct, its parameters are of the right datatype, and, if it is not a built-in function, that its declaration is placed correctly in the block structure.
- PLS-00307      too many declarations of *name* match this call**
- Cause** The declaration of a subprogram name is ambiguous because there was no exact match between the declaration and the call and more than one declaration matched the call when implicit conversions of the parameter datatypes were used. The subprogram name might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.
- Action** Check the spelling and declaration of the subprogram name. Also confirm that its call is correct, its parameters are of the right datatype, and, if it is not a built-in function, that its declaration is placed correctly in the block structure.
- PLS-00308      this construct is not allowed as the origin of an assignment**
- Cause** The construct or expression does not designate a value that can be assigned to a variable. For example, the datatype name NUMBER cannot appear on the right hand side of an assignment statement as in X := NUMBER.
- Action** Correct the illegal assignment statement.
- PLS-00309      with %LAST attribute, *name* must be a variable of an enumerated type**
- Release** Not in Release 2.3.
- PLS-00310      with %ROWTYPE attribute, *name* must name a table, cursor, or cursor variable**
- Cause** The %ROWTYPE attribute must be applied to an identifier declared as a cursor, cursor variable, or database table. This error occurs when %ROWTYPE follows some identifier that has not been so declared.
- Action** Change the declaration or do not apply the %ROWTYPE attribute to the identifier.

- PLS-00311**    **the declaration of the type of *name* is incomplete or malformed**
- Cause**      This occurrence of the identifier cannot be compiled because its datatype has not been properly defined.
- Action**      Correct the faulty datatype declaration.
- 
- PLS-00312**    **a positional parameter association may not follow a named association**
- Cause**      When a list of parameters is passed to a subprogram or cursor, if both positional and named associations are used, all positional associations must be placed in their declared order and before all named associations, which can be in any order.
- Action**      Reorder the parameter list to meet the requirements or use named association only.
- 
- PLS-00313**    ***name* not declared in this scope**
- Cause**      There is no declaration for the given identifier within the scope of reference. The identifier might be misspelled, its declaration might be faulty, or the declaration might be placed incorrectly in the block structure.
- Action**      Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.
- 
- PLS-00314**    **TABLE declarations are not allowed as PL/SQL local variables**
- Cause**      In a precompiled program, the DECLARE TABLE statement was mistakenly used inside an embedded PL/SQL block. If an embedded PL/SQL block refers to a database table that does not yet exist, use the DECLARE TABLE statement to tell the precompiler what the table will look like. However, DECLARE TABLE statements are allowed only in the host program.
- Action**      Move the DECLARE TABLE statement outside the embedded PL/SQL block. If you want a variable that can store an entire row of data selected from a database table or fetched from a cursor or cursor variable, use the %ROWTYPE attribute.
- 
- PLS-00315**    **PL/SQL TABLE declarations must currently use BINARY\_INTEGER indexes**
- Cause**      In the INDEX BY clause of a PL/SQL table declaration, a datatype other than BINARY\_INTEGER was specified. PL/SQL tables can have one column and a primary key. The column can have any scalar type, but the primary key must have type BINARY\_INTEGER.
- Action**      Change the datatype specifier to BINARY\_INTEGER.

**PLS-00316 PL/SQL tables must currently use a single BINARY\_INTEGER index**

**Cause** In the INDEX BY clause of a PL/SQL table declaration, a composite primary key was specified. PL/SQL tables must have a simple, unnamed primary key of type BINARY\_INTEGER.

**Action** Change the faulty clause to INDEX BY BINARY\_INTEGER.

**PLS-00319 subquery in an IN or NOT IN clause must contain exactly one column**

**Cause** An invalid expression such as

```
a IN (SELECT x, y, z FROM ... )
```

was used. When a [NOT]IN clause is used with a subquery, it does not test for set membership. The number of expressions in the [NOT]IN clause and the subquery select list must match. So, in the example above, the subquery must specify at most one column.

**Action** Change the subquery to select only one column.

**PLS-00320 the declaration of the type of this expression is incomplete or malformed**

**Cause** In a declaration, the name of a variable or cursor is misspelled or the declaration makes a forward reference. Forward references are not allowed in PL/SQL. A variable or cursor must be declared *before* it is referenced in other statements, including other declarative statements. For example, the following declaration of *dept\_rec* raises this exception because it refers to a cursor not yet declared:

```
DECLARE
    dept_rec dept_cur%ROWTYPE;
    CURSOR dept_cur IS SELECT ...
    ...
```

**Action** Check the spelling of all identifiers in the declaration. If necessary, move the declaration so that it makes no forward references.

**PLS-00321 expression *str* is inappropriate as the left hand side of an assignment statement**

**Cause** The expression does not designate a variable that can have a value assigned to it. For example, the function SYSDATE cannot appear on the left hand side of an assignment statement such as

```
SYSDATE := '01-JAN-1990';
```

**Action** Correct the illegal assignment statement.

**PLS-00322      declaration of a constant *name* must contain an initialization assignment**

**Cause**      A constant declaration lacks the assignment of an initial value. For example, in the following declaration “:= 3.14159” is the initialization clause:

```
pi CONSTANT NUMBER := 3.14159;
```

**Action**      Correct the constant declaration by supplying the missing initialization assignment.

**PLS-00323      subprogram *name* is declared in a package specification and must be defined in the package body**

**Cause**      A subprogram specification was placed in a package specification, but the corresponding subprogram body was not placed in the package body. The package body implements the package specification. So, the package body must contain the definition of every subprogram declared in the package specification.

**Action**      Check the spelling of the subprogram name. If necessary, add the missing subprogram body to the package body.

**PLS-00324      cursor attribute may not be applied to non-cursor *name***

**Cause**      This error occurs when a cursor attribute (%FOUND, %NOTFOUND, %ROWCOUNT, or %ISOPEN) appears following an identifier not declared as a cursor or cursor variable. It occurs, for example, if the variable name *my\_cur* in *my\_cur*%FOUND was not properly declared as a cursor or if the variable declaration was placed incorrectly in the block structure.

**Action**      Check the spelling and declaration of the identifier. Also confirm that the declaration is placed correctly in the block structure.

**PLS-00325      non-integral numeric literal *num* is inappropriate in this context**

**Cause**      A non-integer numeric literal was used in a context that requires an integer (a number with no decimal point).

**Action**      Replace the inappropriate literal with an integer literal.

- PLS-00326**     **IN clause must contain same number of expressions as subquery**
- Cause**     The number of expressions in an IN clause did not equal the number of expressions in a corresponding subquery select list. For example, the following statement is invalid because the IN clause contains two expressions, but the subquery select list contains just one:
- ```
... WHERE (ename, sal) IN (SELECT sal FROM emp);
```
- Action**     Check the number of expressions in each set, then revise the statement to make the numbers equal.
- 
- PLS-00327**     **'name' is not in SQL scope here**
- Cause**     In a SQL statement, a reference was made to an out-of-scope database object. The referenced object might be misspelled, or the reference might be mixed, as in the following example:
- ```
CURSOR c1 IS SELECT dept.dname FROM emp;
```
- Action**     Check the spelling of all database objects in the SQL statement, and make sure all references are to objects within the current scope.
- 
- PLS-00328**     **a subprogram body must be defined for the forward declaration of *name***
- Cause**     A subprogram specification was declared, but the corresponding subprogram body was not defined. Write the subprogram specification and body as a unit. An alternative solution is to separate the specification from its body, which is necessary when you want to define mutually recursive subprograms or you want to group subprograms in a package.
- Action**     Check the spelling of the subprogram name. If necessary, supply the missing subprogram body.
- 
- PLS-00330**     **invalid use of type name or subtype name**
- Cause**     A datatype or subtype specifier was mistakenly used in place of a constant, variable, or expression. For example, the code might look like
- ```
IF emp_count > number THEN ... -- illegal; NUMBER is a datatype specifier
```
- Action**     Replace the datatype or subtype specifier with a valid constant, variable, or expression.



**PLS-00335     a package name conflicts with an existing object**

**Cause** In a CREATE PACKAGE statement, a package (which is a database object that groups logically related PL/SQL types, objects, and subprograms) was given the same name as an existing database object.

**Action** Give the package a unique name.

**PLS-00341     declaration of cursor *name* is incomplete or malformed**

**Cause** A cursor declaration is improper or an identifier referenced in the cursor declaration was not properly declared. A return type that does not refer to an existing database table or a previously declared cursor or cursor variable might have been specified. For example, the following cursor declaration is illegal because *c1* is not yet fully defined:

```
CURSOR c1 RETURN c1%ROWTYPE IS SELECT ... -- illegal
```

In this case, a return type does not have to be specified because it is implicit.

**Action** Check the spelling and declaration of the cursor name and any identifiers referenced in the cursor declaration. Also confirm that the declaration is placed correctly in the block structure. If a return type was specified, make sure that it refers to an existing database table or a previously declared cursor or cursor variable.

**PLS-00351     not logged on to database *name***

**Cause** An attempt was made to access an Oracle database without being logged on. Probably, an invalid username or password was entered.

**Action** Log on to Oracle with a correctly spelled username and password before trying to access the database.

**PLS-00352     unable to access another database *name***

**Cause** An attempt was made to reference an object in a database other than the current local or remote Oracle database.

**Action** Correct the reference and make sure the object is in the current Oracle database.

**PLS-00353     *name* must name a user in the database**

**Cause** This error occurs when the username was misspelled or when the user does not exist in the database.

**Action** Check the spelling of the username and make sure the user exists.

**PLS-00354      username must be a simple identifier**

**Cause** A qualified username such as *scott.accts* is not permitted in this context.

**Action** Specify a simple username such as *scott* instead.

**PLS-00355      use of PL/SQL table not allowed in this context**

**Cause** A PL/SQL table was referenced in the wrong context (for example, with a remote link).

**Action** Remove the PL/SQL table reference or change the context.

**PLS-00356      name must name a table to which the user has access**

**Cause** The named table is not accessible to the user. This error occurs when the table name or username was misspelled, the table and/or user does not exist in the database, the user was not granted the necessary privileges, or the table name duplicates the name of a local variable or loop counter.

**Action** Check the spelling of the table name and username. Also confirm that the table and user exist, the user has the necessary privileges, and the table name does not duplicate the name of a local variable or loop counter.

**PLS-00357      table, view or sequence reference name not allowed in this context**

**Cause** A reference to database table, view, or sequence was found in an inappropriate context. Such references can appear only in SQL statements or (excluding sequences) in %TYPE and %ROWTYPE declarations. Some valid examples follow:

```
SELECT ename, emp.deptno, dname INTO my_ename, my_deptno, my_dept
      FROM emp, dept WHERE emp.deptno = dept.deptno;
DECLARE
    last_name  emp.ename%TYPE;
    dept_rec   dept%ROWTYPE;
```

**Action** Remove or relocate the illegal reference.

**PLS-00358      column name exists in more than one table; use qualifier**

**Cause** The statement is ambiguous because it specifies two or more tables having the same column name. For example, the following statement is ambiguous because *deptno* is a column in both tables:

```
SELECT deptno, loc INTO my_deptno, my_loc FROM emp, dept;
```

**Action** Precede the column name with the table name (as in *emp.deptno*) so that the column reference is unambiguous.

### **PLS-00359      assignment target in *str* must have components**

**Cause**      An assignment target was declared that lacks the components needed to store the assigned values. For example, this error occurs if you try to assign a row of column values to a variable instead of a record, as follows:

```
DECLARE
    dept_rec dept%ROWTYPE;
    my_deptno dept.deptno%TYPE;
    ...
BEGIN
    SELECT deptno, dname, loc INTO my_deptno -- invalid
    FROM dept WHERE ...
```

**Action**      Check the spelling of the names of the assignment target and all its components. Make sure the assignment target is declared with the required components and that the declaration is placed correctly in the block structure.

### **PLS-00360      cursor declaration without body needs return type**

**Cause**      A cursor declaration lacks either a body (SELECT statement) or a return type. If you want to separate a cursor specification from its body, a return type must be supplied, as in

```
CURSOR c1 RETURN emp%ROWTYPE;
```

**Action**      Add a SELECT statement or return type to the cursor declaration.

### **PLS-00361      a cursor variable must be IN OUT to be OPENed**

**Cause**      A cursor variable was declared as the IN or OUT formal parameter of a subprogram that, when called, will change the state of the cursor variable. In such cases, the cursor variable must be declared as an IN OUT parameter.

**Action**      Change the parameter mode from IN or OUT to IN OUT.

**PLS-00362    invalid cursor return type; '*name*' must be a record type**

**Cause** In a cursor specification or REF CURSOR type definition, a non-record type such as NUMBER or TABLE was specified as the return type. This is not allowed. Only the following return types are allowed:

- <record\_type\_name>
- <record\_name>%TYPE
- <table\_name>%ROWTYPE
- <cursor\_name>%ROWTYPE
- <cursor\_variable\_name>%ROWTYPE

**Action** Revise the cursor specification or REF CURSOR type definition so that it specifies one of the above return types.

**PLS-00363    expression *str* cannot be used as an assignment target**

**Cause** A literal, constant, IN parameter, loop counter, or function call was mistakenly used as the target of an assignment. For example, the following statement is illegal because the assignment target, 30, is a literal:

```
SELECT deptno INTO 30 FROM dept WHERE ... -- illegal
```

**Action** Correct the statement by using a valid assignment target.

**PLS-00363    expression *str* cannot be used as an assignment target**

**Cause** A literal, constant, IN parameter, loop counter, or function call was mistakenly used as the target of an assignment. For example, the following statement is illegal because the assignment target, 30, is a literal:

```
SELECT deptno INTO 30 FROM dept WHERE ... -- illegal
```

**Action** Correct the statement by using a valid assignment target.

**PLS-00364    loop index variable *name* use is invalid**

**Cause** A reference to a loop counter was found in an inappropriate context. For example, the following statement is illegal because the loop counter is used as the terminal value in its own range expression:

```
FOR j IN 1 .. j LOOP ... -- illegal
```

**Action** Change the loop range expression so that it does not reference the loop counter. If you want to refer in the range expression to another variable with the same name as the loop counter, change either name or qualify the variable name with a label.

**PLS-00365     *name* is an OUT parameter and cannot be read**

**Cause** An attempt was made to assign the value of an OUT parameter to another parameter or variable. Inside a procedure, an OUT parameter acts like an uninitialized variable; therefore, its value cannot be read. For example, the following assignments are illegal:

```
PROCEDURE calc_bonus (bonus OUT REAL, ...) IS
    rating  REAL;
    wages   REAL;
BEGIN
    ...
    IF rating > 90 THEN
        bonus := bonus * 2; -- illegal
        SELECT sal + bonus INTO wages FROM emp ... -- illegal
    ...
    END IF;
    ...
END calc_bonus;
```

**Action** Use an IN OUT parameter instead of the OUT parameter. Inside a procedure, an IN OUT parameter acts like an initialized variable; therefore, its value can be read.

**PLS-00366     subtype of a NOT NULL type must also be NOT NULL**

**Cause** After a subtype was defined as NOT NULL, it was used as the base type for another subtype defined as NULL. That is not allowed. For example, the code might look like

```
DECLARE
    SUBTYPE Weekday IS INTEGER NOT NULL;
    SUBTYPE Weekend IS Weekday NULL; -- illegal
```

instead of

```
DECLARE
    SUBTYPE Weekday IS INTEGER NOT NULL;
    SUBTYPE Weekend IS Weekday;
```

**Action** Revise the subtype definitions to eliminate the conflict.

**PLS-00367     a RAISE statement with no exception name must be inside an exception handler**

**Cause** A RAISE statement not followed by an exception name was found outside an exception handler.

**Action** Delete the RAISE statement, relocate it to an exception handler, or supply the missing exception name.

**PLS-00368** in RAISE statement, *name* must be an exception name

**Cause** The identifier in a RAISE statement is not a valid exception name.

**Action** Make sure the identifier in the RAISE statement was declared as an exception and is correctly placed in the block structure. If you are using the name of a PL/SQL predefined exception, check its spelling.

**PLS-00369** no choices may appear with choice OTHERS in an exception handler

**Cause** A construct of the form

```
WHEN except1 OR OTHERS =>
```

was encountered in the definition of an exception handler. The OTHERS handler must appear by itself as the last exception handler in a block.

**Action** Remove the identifier that appears with OTHERS or write a separate exception handler for that identifier.

**PLS-00370** OTHERS handler must be last among the exception handlers of a block

**Cause** One or more exception handlers appear after an OTHERS handler. However, the OTHERS handler must be the last handler in a block or subprogram because it acts as the handler for all exceptions not named specifically.

**Action** Move the OTHERS handler so that it follows all specific exception handlers.

**PLS-00371** at most one declaration for *name* is permitted in the declaration section

**Cause** A reference to an identifier is ambiguous because there are conflicting declarations for it in the declarative part of a block, procedure, or function. At most one declaration of the identifier is permitted in a declarative part.

**Action** Check the spelling of the identifier. If necessary, remove all but one declaration of the identifier.

**PLS-00372** in a procedure, RETURN statement cannot contain an expression

**Cause** In a procedure, a RETURN statement contains an expression, which is not allowed. In functions, a RETURN statement *must* contain an expression because its value is assigned to the function identifier. However, in procedures, a RETURN statement simply lets you exit before the normal end of the procedure is reached.

**Action** Remove the expression from the RETURN statement, or redefine the procedure as a function.

**PLS-00373      EXIT label *name* must label a LOOP statement**

**Cause**      The label in an EXIT statement does not refer to a loop. An EXIT statement need not specify a label. However, if a label is specified (as in EXIT *my\_label*), it must refer to a loop statement.

**Action**      Make sure the label name is spelled correctly and that it refers to a loop statement.

**PLS-00374      illegal EXIT statement; it must appear inside the loop labeled *name***

**Cause**      An EXIT statement need not specify a label. However, if a label is specified (as in EXIT *my\_label*), the EXIT statement must be inside the loop designated by that label.

**Action**      Make sure the label name is spelled correctly; if necessary, move the EXIT statement inside the loop to which the label refers.

**PLS-00375      illegal GOTO statement; this GOTO cannot branch to label *name***

**Cause**      The line and column numbers accompanying the error message refer to a GOTO that branches from outside a construct (a loop or exception handler, for example) that contains a sequence of statements to a label inside that sequence of statements. Such a branch is not allowed.

**Action**      Either move the GOTO statement inside the sequence of statements or move the labeled statement outside the sequence of statements.

**PLS-00376      illegal EXIT statement; it must appear inside a loop**

**Cause**      An EXIT statement was found outside of a loop construct. The EXIT statement is used to exit prematurely from a loop and so must always appear within a loop.

**Action**      Either remove the EXIT statement or place it inside a loop.

**PLS-00378      invalid compilation unit for this release of PL/SQL**

**Cause**      A *compilation unit* is a file containing PL/SQL source code that is passed to the compiler. Only compilation units containing blocks, declarations, statements, and subprograms are allowed. This error occurs when some other language construct is passed to the compiler.

**Action**      Make sure the compilation unit contains only blocks, declarations, statements, and subprograms.

- PLS-00379 CASE statements are not included in this release of PL/SQL**
- Cause** The unit being compiled contains a CASE statement. However, the current release of PL/SQL does not support CASE statements.
- Action** Remove the CASE statement from the compilation unit.
- 
- PLS-00381 type mismatch found at *name* between column and variable in subquery or INSERT**
- Cause** The datatypes of a column and a variable do not match. The variable was encountered in a subquery or INSERT statement.
- Action** Change the variable datatype to match that of the column.
- 
- PLS-00382 expression is of wrong type**
- Cause** An expression has the wrong datatype for the context in which it was found.
- Action** Change the datatype of the expression. You might want to use datatype conversion functions.
- 
- PLS-00383 type mismatch found at *name* inside an IN or NOT IN clause**
- Cause** In a test for set membership such as X NOT IN (SELECT Y ... ), the expressions X and Y do not match in datatype, and it is unclear which implicit conversion is required to correct the mismatch.
- Action** Change the expressions so that their datatypes match. You might want to use datatype conversion functions in the select list.
- 
- PLS-00384 type mismatch found at *name* in UPDATE's SET clause**
- Cause** The column to the left of the equal sign in the SET clause of an UPDATE statement does not match in datatype with the column, expression, or subquery to the right of the equal sign, and it is unclear which implicit conversion is required to correct the mismatch.
- Action** Change the expressions so that their datatypes match. You might want to use datatype conversion functions in the SET clause.
- 
- PLS-00385 type mismatch found at *name* in SELECT...INTO statement**
- Cause** The expressions to the left and right of the INTO clause in a SELECT...INTO statement do not match in datatype, and it is unclear which implicit conversion is required to correct the mismatch.
- Action** Change the expressions so that their datatypes match. You might want to use datatype conversion functions in the select list.



**PLS-00386      type mismatch found at *name* between FETCH cursor and INTO variables**

**Cause**      An assignment target in the INTO list of a FETCH statement does not match in datatype with the corresponding column in the select list of the cursor declaration, and it is unclear which implicit conversion is required to correct the mismatch.

**Action**      Change the cursor declaration or change the datatype of the assignment target. You might want to use datatype conversion functions in the select list of the query associated with the cursor.

**PLS-00387      INTO variable cannot be a database object**

**Cause**      An item in the INTO list of a FETCH or SELECT statement was found to be a database object. INTO introduces a list of user-defined variables to which output values are assigned. Therefore, database objects cannot appear in the INTO list.

**Action**      Check the spelling of the INTO list item. If necessary, remove the item from the INTO list or replace it with a user-defined output variable.

**PLS-00388      undefined column *name* in subquery**

**Cause**      A subquery contains a column name that was not defined for the specified table.

**Action**      Change the expression to specify a column that was defined.

**PLS-00389      undefined column *name* in left-hand-side expression**

**Cause**      A left-hand-side expression in a SQL statement refers to an undefined column.

**Action**      Check the spelling of the column name, then change the expression so that it refers only to defined columns.

**PLS-00390      undefined column *name* in INSERT statement**

**Cause**      An INSERT statement refers to a column not defined for the table or view into which data is being inserted.

**Action**      Check the spelling of the column name, then revise the statement so that it refers only to defined columns.

**PLS-00391    undefined column *name* in UPDATE statement**

**Cause**    An UPDATE statement refers to a column not defined for the table or view being updated.

**Action**    Check the spelling of the column name, then revise the statement so that it refers only to defined columns.

**PLS-00392    type mismatch in arguments to BETWEEN**

**Cause**    In a comparison such as X BETWEEN Y AND Z, the expressions X, Y, and Z do not match in datatype, and it is unclear which implicit conversion is required to correct the mismatch.

**Action**    Change the expressions so that their datatypes match. You might want to use datatype conversion functions.

**PLS-00393    wrong number of columns in SELECT...INTO statement**

**Cause**    The number of columns selected by a SELECT...INTO statement does not match the number of variables in the INTO clause.

**Action**    Change the number of columns in the select list or the number of variables in the INTO clause so that the numbers match.

**PLS-00394    wrong number of values in the INTO list of a FETCH statement**

**Cause**    The number of variables in the INTO clause of a FETCH statement does not match the number of columns in the cursor declaration.

**Action**    Change the number of variables in the INTO clause or the number of columns in the cursor declaration so that the numbers match.

**PLS-00395    wrong number of values in VALUES clause of INSERT statement**

**Cause**    The number of columns in an INSERT statement does not match the number of values in the VALUES clause. For example, the following statement is faulty because no column is specified for the value 20:

```
INSERT INTO emp (empno, ename) VALUES (7788, 'SCOTT', 20);
```

**Action**    Change the number of items in the column list or the number of items in the VALUES list so that the numbers match.

### **PLS-00396      INSERT statement's subquery yields wrong number of columns**

**Cause**      The number of columns in an INSERT statement does not match the number of columns in a subquery select list. For example, the following statement is faulty because no corresponding column is specified for *col3*:

```
INSERT INTO emp (ename, empno) SELECT col1, col2, col3 FROM ...
```

**Action**      Change the number of items in the column list of the INSERT statement or the number of items in the select list so that the numbers match.

### **PLS-00397      type mismatch in arguments to IN**

**Cause**      In a test for set membership such as *X IN (Y, Z)*, the expressions *X*, *Y*, and *Z* do not match in datatype, and it is unclear which implicit conversion is required to correct the mismatch.

**Action**      Change the expressions so that their datatypes match. You might want to use datatype conversion functions.

### **PLS-00398      wrong number of columns in UNION, INTERSECT, or MINUS expression**

**Cause**      The SELECT clauses to the left and right of a UNION, INTERSECT, or MINUS expression do not select the same number of columns. For example, the following statement is faulty because the select lists do not contain the same number of items:

```
CURSOR my_cur IS SELECT ename FROM emp  
                 INTERSECT SELECT ename, empno FROM emp;
```

**Action**      Change the select lists so that they contain the same number of items.

### **PLS-00399      different types of columns in UNION, INTERSECT, or MINUS expression**

**Cause**      The select lists to the left and right of a UNION, INTERSECT, or MINUS expression select at least one column that is mismatched in datatype. For example, the following statement is faulty because the constant 3 has datatype NUMBER, whereas SYSDATE has datatype DATE:

```
CURSOR my_cur IS SELECT 3 FROM emp  
                 INTERSECT SELECT SYSDATE FROM emp;
```

**Action**      Change the select lists so that they match in datatype. You might want to use datatype conversion functions in the select list of one or more queries.

- PLS-00400**     **different number of columns between cursor SELECT statement and return value**
- Cause**     In a cursor declaration, a return type (such as RETURN *emp%*ROWTYPE) was specified, but the number of returned column values does not match the number of select-list items.
- Action**     Change the cursor return type or the select list so that the number of returned column values matches the number of select-list items.
- 
- PLS-00401**     **different column types between cursor SELECT statement and return value found at *name***
- Cause**     In a cursor declaration, a return type (such as RETURN *emp%*ROWTYPE) was specified, but a returned column value and its corresponding select-list item have different datatypes.
- Action**     Change the cursor return type or the select list so that each returned column value and its corresponding select-list item have the same datatype.
- 
- PLS-00402**     **alias required in SELECT list of cursor to avoid duplicate column names**
- Cause**     A cursor was declared with a SELECT statement that contains duplicate column names. Such references are ambiguous.
- Action**     Replace the duplicate column name in the select list with an alias.
- 
- PLS-00403**     **expression *str* cannot be used as an INTO target of a SELECT/FETCH statement**
- Cause**     A FETCH statement was unable to assign a value to an assignment target in its INTO list because the target is not a legally formed and declared variable. For example, the following assignment is illegal because 'Jones' is a character string, not a variable:
- ```
FETCH my_cur INTO 'Jones';
```
- Action**     Check the spelling and declaration of the assignment target. Make sure that the rules for forming variable names are followed.
- 
- PLS-00404**     **cursor *name* must be declared with FOR UPDATE to use with CURRENT OF**
- Cause**     The use of the CURRENT OF *cursor\_name* clause is legal only if *cursor\_name* was declared with a FOR UPDATE clause.
- Action**     Add a FOR UPDATE clause to the definition of the cursor or do not use the CURRENT OF *cursor\_name* clause.

### **PLS-00405    subquery not allowed in this context**

**Cause**    A subquery was used in an inappropriate context, such as:

```
if (SELECT deptno FROM emp WHERE ... ) = 20 then ...
```

Subqueries are allowed only in SQL statements.

**Action**    The same result can be obtained by using a temporary variable, as in:

```
SELECT deptno INTO temp_var FROM emp WHERE ...;  
IF temp_var = 20 THEN ...
```

### **PLS-00406    length of SELECT list in subquery must match number of assignment targets**

**Cause**    A query select list is not the same length as the list of targets that will receive the returned values. For example, the following statement is faulty because the subquery returns two values for one target:

```
UPDATE emp SET ename =  
    (SELECT ename, empno FROM emp WHERE ename = 'SMITH') ...
```

**Action**    Change one of the lists so that they contain the same number of items.

### **PLS-00407    '\*' not allowed here; a list of columns is required**

**Cause**    An asterisk (\*) was used as an abbreviation for a list of column names. However, in this context the column names must be written out explicitly.

**Action**    Replace the asterisk with a list of column names.

### **PLS-00408    duplicate column *name* not permitted in INSERT or UPDATE**

**Cause**    An UPDATE or INSERT statement has a column list that contains duplicate column names.

**Action**    Check the spelling of the column names, then eliminate the duplication.

### **PLS-00409    duplicate variable *name* in INTO list is not permitted**

**Cause**    The same variable appears twice in the INTO list of a SELECT or FETCH statement.

**Action**    Remove one of the variables from the INTO list.

**PLS-00410 duplicate fields in record or table are not permitted**

**Cause** When a user-defined record was declared, the same name was given to two fields. Like column names in a database table, field names in a user-defined record must be unique.

**Action** Check the spelling of the field names, then remove the duplicate.

**PLS-00411 number of values in aggregate and in subquery don't match**

**Cause** In a statement of the form *aggregate* = *subquery*, the numbers of values in the aggregate and subquery are unequal. For example, the code might look like

```
... WHERE (10,20,30) = (SELECT empno,deptno FROM emp WHERE...);
```

**Action** Revise the aggregate or subquery so that the numbers of values match.

**PLS-00412 list of values not allowed as argument to this function or procedure**

**Cause** A parenthesized list of values separated by commas (that is, an aggregate) was used in the wrong context. For example, the following usage is *invalid*:

```
WHERE (col1, col2) > (SELECT col3, col4 FROM my_table ...)
```

However, an equal sign can take a list of values and a subquery as left- and right-hand-side arguments, respectively. So, the following usage is valid:

```
WHERE (col1, col2) = (SELECT col3, col4 FROM my_table ...)
```

**Action** Rewrite the expression. For example, the clause

```
WHERE (col1, col2) > (SELECT col3, col4 FROM my_table ...)
```

can be rewritten as

```
WHERE col1 > (SELECT col3 FROM my_table ...) AND
      col2 > (SELECT col4 FROM my_table ...)
```

**PLS-00413 identifier in CURRENT OF clause is not a cursor name**

**Cause** The identifier in a CURRENT OF clause names an object other than a cursor.

**Action** Check the spelling of the identifier. Make sure that it names the cursor in the DELETE or UPDATE statement and that it names the cursor itself, not a FOR-loop variable.

## PL/SQL Error Messages

### **PLS-00414    no column *name* in table**

**Cause**    A table name or alias was used to qualify a column reference, but the column was not found in that table. Either the column was never defined or the column name is misspelled.

**Action**    Confirm that the column was defined and check the spelling of the column name.

### **PLS-00417    table or view or column does not exist**

**Cause**    A database table, view, or column was specified in a SQL statement that does not exist, or the privileges required to access the table or view were not granted.

**Action**    Check the spelling of the table (or view) and column names; make sure the table and columns exist. If necessary, ask the DBA to grant the privileges required to access the table.

### **PLS-00418    array bind type must match PL/SQL table row type**

**Cause**    A host array was passed (by an Oracle Precompiler program, for example) to a PL/SQL subprogram for binding to a PL/SQL table parameter. However, the datatypes of the array elements and PL/SQL table rows are incompatible. So, the binding failed.

**Action**    Change the datatype of the array elements or PL/SQL table rows to make the datatypes compatible.

### **PLS-00419    reference to remote attribute not permitted**

**Cause**    An attempt was made to reference a remote cursor attribute, which is not allowed. For example, the code might look like

```
IF SQL%NOTFOUND@newyork THEN ...
```

**Action**    Do not try to reference a remote cursor attribute.

**PLS-00420 cannot call built-in routines remotely**

**Cause** An attempt was made to call a built-in PL/SQL function remotely, which is not allowed. For example, the code might look like

```
my_sqlerrm := SQLERRM@newyork;
```

or

```
INSERT INTO emp VALUES (my_empno, STANDARD.RTRIM@newyork(my_ename), ...);
```

**Action** Always call built-in functions locally; never specify a database link.

**PLS-00421 synonym definitions nested too deeply; possible loop in synonyms**

**Cause** Directly or indirectly, a synonym was defined in terms of itself, creating a circular definition. Or, a chain of synonyms, too long for the PL/SQL compiler to handle, was defined.

**Action** Redefine the synonyms to eliminate the circular definition. If necessary, shorten the chain of synonyms.

**PLS-00422 no PL/SQL translation for the bind type given for this bind variable**

**Cause** A host variable was passed (by an Oracle Precompiler program, for example) to PL/SQL for binding. However, its datatype is not compatible with any PL/SQL datatype. So, the binding failed.

**Action** Change the datatype of the host variable to make it compatible with a PL/SQL datatype.

**PLS-00423 ORDER BY item must be the number of a SELECT-list expression**

**Cause** A column alias was used in the ORDER BY clause of a SELECT statement that uses a UNION, INTERSECT, or MINUS set operator. This is not allowed. In such cases, expressions in the ORDER BY clause must be unsigned integers that designate the ordinal positions of select-list items.

**Action** Change the alias in the ORDER BY clause to an unsigned integer that designates the ordinal position of the select item in question.

**PLS-00424 RPC defaults cannot include package state**

**Cause** An attempt was made to call a remote subprogram whose defaulted parameters depend on package state, which is not allowed. When calling remote subprograms, the actual parameters must be passed explicitly if the corresponding formal parameters depend on package state.

**Action** Call the remote subprogram by passing each actual parameter explicitly.



**PLS-00425     in SQL, function argument and return type must be SQL type**

**Cause**     When a stored function was called from a SQL statement, parameters of the wrong type were passed. To be callable from SQL statements, a stored function must meet several requirements, one of which is that its arguments have SQL datatypes such as CHAR, DATE, or NUMBER. None of the arguments can have non-SQL types such as BOOLEAN, TABLE, or RECORD.

**Action**     Make sure all the arguments in the function call have SQL datatypes.

**PLS-00426     cursor variable OUT parameter '*name*' cannot be FETCH'ed or CLOSE'd**

**Cause**     When a cursor variable was declared as the formal parameter of a subprogram that will FETCH from and/or CLOSE the cursor variable, the OUT parameter mode was specified. This is not allowed. In such cases, the IN or IN OUT mode must be specified.

**Action**     Change the parameter mode from OUT to IN or IN OUT.

**PLS-00428     an INTO clause is expected in this SELECT statement**

**Cause**     The INTO clause of a SELECT INTO statement was omitted. For example, the code might look like

```
SELECT deptno, dname, loc FROM dept WHERE ...
```

instead of

```
SELECT deptno, dname, loc INTO dept_rec FROM dept WHERE ...
```

In PL/SQL, only a subquery is written without an INTO clause.

**Action**     Add the required INTO clause.

**PLS-00450     a variable of this private type cannot be declared here**

**Release**     Not in Release 2.3.

**PLS-00451     remote types not allowed**

**Cause**     When a constant or variable was declared, a datatype that is defined in a remote library unit was specified. This is not allowed.

**Action**     Do not specify the datatype unless it is defined locally.

- PLS-00452**     **subprogram *name* violates its associated pragma**
- Cause**     A packaged function cannot be called from SQL statements unless its purity level is asserted by coding a RESTRICT\_REFERENCES pragma in the package specification. The pragma, which is used to control side effects, tells the PL/SQL compiler to deny the packaged function read/write access to database tables, public packaged variables, or both. A SQL statement that violates the pragma will cause a compilation error.
- Action**     Raise the purity level of the function, or relax the pragma restrictions.
- PLS-00483**     **exception *name* may appear in at most one exception handler in this block**
- Cause**     An exception appears in two different WHEN clauses (that is, two different exception handlers) in the exception-handling part of a PL/SQL block or subprogram.
- Action**     Remove one of the references to the exception.
- PLS-00484**     **redundant exceptions *name* and *name* must appear in same exception handler**
- Cause**     Using the EXCEPTION\_INIT pragma, different exceptions were initialized to the same Oracle error number; then, they were referenced in different exception handlers within the same exception-handling part. Such references conflict.
- Action**     Remove one of the exceptions or initialize it to a different Oracle error number.
- PLS-00485**     **in exception handler, *name* must be an exception name**
- Cause**     An identifier not declared as an exception appears in an exception handler WHEN clause. Only the name of an exception is valid in a WHEN clause.
- Action**     Check the spelling of the exception name and make sure the exception was declared properly.
- PLS-00486**     **SELECT list cannot be enclosed in parentheses**
- Cause**     In a SELECT statement, the select list was enclosed in parentheses, as in:
- `SELECT (deptno, dname, loc) FROM dept INTO ...`
- This breaks the rules of SQL syntax. Parentheses are not required because the keywords SELECT and FROM delimit the select list.
- Action**     Remove the parentheses enclosing the select list.

### PLS-00487    **invalid reference to variable *name***

**Cause**    A variable was referenced in a way that is inconsistent with its datatype. For example, a scalar variable might have been mistakenly referenced as a record, as follows:

```
DECLARE
    CURSOR emp_cur IS SELECT empno, ename, sal FROM emp;
    emp_rec emp_cur%ROWTYPE;
    my_sal  NUMBER(7,2);
BEGIN
    ...      total_sal := total_sal + my_sal.sal;  -- invalid
    ...
```

**Action**    Check the spelling of the variable name. Make sure the variable was declared properly and that the declaration and reference are consistent regarding datatype.

### PLS-00488    **invalid variable declaration: object *name* must be a type or subtype**

**Cause**    The datatype specifier in a variable declaration does not designate a legal type. For example, the %TYPE attribute might not have been added to a declaration, as in

```
DECLARE
    my_sal    emp.sal%TYPE;
    my_ename  emp.ename;    -- missing %TYPE
    ...
```

When declaring a constant or variable, to provide the datatype of a column automatically, use the %TYPE attribute. Likewise, when declaring a record, to provide the datatypes of a row automatically, use the %ROWTYPE attribute.

**Action**    Make sure the datatype specifier designates a legal type. Remember to use the %TYPE and %ROWTYPE attributes when necessary.

### PLS-00489    **invalid table reference: *name* must be a column in this expression**

**Cause**    In a query, a select-list item refers to a table in the FROM clause but not to a database column.

**Action**    Check the spelling of the column names, make sure each column in the select list refers to a table in the FROM clause, then re-execute the query.

**PLS-00490    illegal statement**

**Cause** A constant, variable, function call, or incomplete statement was used where a statement was expected. For example, instead of calling a function from an expression, it might have been called as a statement (as if it were a procedure).

**Action** Check the statement, making sure that its commands, identifiers, operators, delimiters, and terminator form a complete and valid PL/SQL statement.

**PLS-00491    numeric literal required**

**Cause** A constant or variable was used where a numeric literal is required. For example, the code might look like

```
my_ename VARCHAR2(max_len);
```

instead of

```
my_ename VARCHAR2(15);
```

When specifying the maximum length of a VARCHAR2 variable, an integer literal must be used.

**Action** Replace the identifier with a numeric literal.

**PLS-00503    RETURN <value> statement required for this return from function**

**Cause** In a function body, a RETURN statement was used that contains no expression. In procedures, a RETURN statement contains no expression because the statement simply returns control to the caller. However, in functions, a RETURN statement must contain an expression because its value is assigned to the function identifier.

**Action** Add an expression to the RETURN statement.

**PLS-00504    type *name\_BASE* may not be used outside of package STANDARD**

**Cause** In a declaration, the datatype NUMBER\_BASE (for example) was mistakenly specified. The datatypes CHAR\_BASE, DATE\_BASE, MLSLABEL\_BASE, and NUMBER\_BASE are for internal use only.

**Action** Specify (for example) the datatype NUMBER instead of NUMBER\_BASE.

**PLS-00505      user-defined types may only be defined as PL/SQL tables or records**

**Cause**      An attempt was made to define a type other than TABLE or RECORD, but these are the only user-defined types allowed in this release of PL/SQL. For example, the following type definition is illegal:

```
TYPE Byte IS INTEGER(2); -- illegal
```

**Action**      Remove the type definition, or revise it to specify a TABLE or RECORD type.

**PLS-00506      user-defined constrained subtypes are disallowed**

**Cause**      An attempt was made to define a constrained subtype, but only unconstrained subtypes are allowed in this release of PL/SQL. For example, the following type definition is illegal:

```
SUBTYPE Acronym IS VARCHAR2(5); -- illegal
```

**Action**      Remove the illegal type constraint.

**PLS-00507      a PL/SQL table may not contain a table or record with composite fields**

**Cause**      In a TABLE type definition, a nested record type was specified as the element type. This is not allowed. All fields in the record must be scalars.

**Action**      Remove the TABLE type definition, or replace the nested record type with a simple record type.

**PLS-00508      the expression in a RETURN statement cannot be a type**

**Cause**      A datatype specifier was used instead of an expression in the RETURN statement of a user-defined function, as shown in the example below. Do not confuse the RETURN statement, which sets the function identifier to the result value, with the RETURN clause, which specifies the datatype of the result value.

```
FUNCTION credit-rating (acct_no NUMBER) RETURN BOOLEAN IS
BEGIN
    ...
    RETURN NUMBER; -- should be an expression
END;
```

**Action**      Replace the datatype specifier in the RETURN statement with an appropriate expression.

**PLS-00509    implementation restriction: pass a returned record to a temporary identifier before selecting a field**

**Cause** Illegal syntax was used to call a parameter-less function that returns a record or a PL/SQL table of records. When calling a function that takes parameters and returns a record, you use the following syntax to reference fields in the record:

```
function_name(parameters).field_name
```

However, you cannot use the syntax above to call a parameter-less function because PL/SQL does not allow empty parameter lists. That is, the following syntax is illegal:

```
function_name().field_name -- illegal; empty parameter list
```

You cannot just drop the empty parameter list because the following syntax is also illegal:

```
function_name.field_name -- illegal; no parameter list
```

**Action** Declare a local record or PL/SQL table of records to which you can assign the function result, then reference its fields directly.

**PLS-00510    FLOAT cannot have scale**

**Cause** When a FLOAT variable was declared, its precision and scale were specified, as shown in the following example:

```
DECLARE
    Salary FLOAT(7,2);
```

However, a scale for FLOAT variables cannot be specified; only a precision can be specified, as in

```
salary FLOAT(7);
```

**Action** Remove the scale specifier from the declaration, or declare a NUMBER variable instead.

**PLS-00511    a record may not contain a PL/SQL table of records**

**Cause** In a RECORD definition, one of the fields was declared as a PL/SQL table of records. This is not allowed. A record can be the component of another record (that is, records can be nested), but a PL/SQL table of records cannot be the component of a record.

**Action** Remove the field declaration, or revise it to specify a simple record type.

- PLS-00512**    **implementation restriction: '*name*' cannot directly access remote package variable or cursor**
- Cause**    An attempt was made to reference a remote packaged variable or cursor. This is not allowed. Instead, add to the remote package a function that returns the value of the variable or cursor.
- Action**    Remove the illegal reference.
- 
- PLS-00700**    **PRAGMA EXCEPTION\_INIT of *name* must follow declaration of its exception in same block**
- Cause**    An EXCEPTION\_INIT pragma was not declared in the same block as its exception. They must be declared in the proper order in the same block, with the pragma declaration following the exception declaration.
- Action**    Place the EXCEPTION\_INIT pragma directly after the exception declaration referenced by the pragma.
- 
- PLS-00701**    **illegal Oracle error number *num* for PRAGMA EXCEPTION\_INIT**
- Cause**    The error number passed to an EXCEPTION\_INIT pragma was out of range. The error number must be in the range -9999 .. -1 (excluding -100) for Oracle errors or in the range -20000 .. -20999 for user-defined errors.
- Action**    Use a valid error number.
- 
- PLS-00702**    **second argument to PRAGMA EXCEPTION\_INIT must be a numeric literal**
- Cause**    The second argument passed to an EXCEPTION\_INIT pragma was something other than a numeric literal (a variable, for example). The second argument must be a numeric literal in the range -9999 .. -1 (excluding -100) for Oracle errors or in the range -20000 .. -20999 for user-defined errors.
- Action**    Replace the second argument with a valid error number.
- 
- PLS-00703**    **multiple instances of named argument in list**
- Cause**    Two or more actual parameters in a subprogram call refer to the same formal parameter.
- Action**    Remove the duplicate actual parameter.

**PLS-00704     *name must be declared as an exception***

**Cause** The *exception\_name* parameter passed to an EXCEPTION\_INIT pragma is misspelled or does not refer to a legally declared exception. Or, the pragma is misplaced; it must appear in the same declarative section, somewhere after the exception declaration.

**Action** Check the spelling of the *exception\_name* parameter. Then, check the exception declaration, making sure the exception name and the keyword EXCEPTION are spelled correctly. Also make sure the pragma appears in the same declarative section somewhere after the exception declaration.

**PLS-00705     *exception name used in expression requiring return type***

**Cause** An exception was referred to in an expression. Exceptions have names but not values and therefore cannot contribute values to an expression. For example, the following RETURN statement is illegal:

```
FUNCTION credit_limit (cust_no INTEGER) RETURN NUMBER IS
    limit          NUMBER;
    over_limit     EXCEPTION;
    ...
BEGIN
    ...
    RETURN over_limit;  -- illegal
END;
```

**Action** Check the spelling of the identifiers in the expression, then rewrite the expression so that it does not refer to an exception.

**PLS-00706     *exception name cannot be used as prefix of a selected component***

**Cause** An exception name was mistakenly used to qualify a reference to a component. For example, when dot notation was used to specify fields within a record, an exception name might have been coded instead of the record name.

**Action** Rewrite the component reference using a valid prefix (for example, the name of a package, record, or schema).



### **PLS-00707    unsupported construct or internal error [*num*]**

- Cause**    At run time, this is an internal error. At compile time, it indicates one of the following problems:
- A call was made to a remote subprogram that has a parameter type or default expression not supported at the calling site.
  - An incomplete upgrade or downgrade was done to a database that has stored procedures. Perhaps incorrect versions of system packages such as STANDARD.SQL were installed.
  - A compiler bug was encountered. In such cases, legal PL/SQL syntax will fail to compile.
- Action**    Either report the internal error to your Customer Support representative or, depending on the problem, take one of the following actions:
- Revise the logic of the application to use parameter types and default expressions that are supported at both the local and remote sites.
  - Complete the upgrade or downgrade properly, making sure to install correct versions of all system packages.
  - Report the legal-syntax error to your Customer Support representative. If there are line and column numbers displayed with the error message, they might help you find a workaround. For example, try recoding the offending line to avoid the bug.

### **PLS-00708    pragma *name* must be declared in a package specification**

- Cause**    The named pragma was not declared in a package specification, as required. For example, the pragma RESTRICT\_REFERENCES must be declared in a package specification.
- Action**    Remove or relocate the misplaced pragma.

### **PLS-00801    internal error [*num*]**

- Cause**    This is a generic internal error that might occur during compilation or execution. The first parameter is the internal error number.
- Action**    Report this error as a bug to your Customer Support representative.

**PLS-00900     can't find body of unit *name***

**Cause** At run time, the body of a program unit could not be found. This might have happened, for example, if a procedure that has a specification but no body was referenced. (No compile-time errors were generated because the specification exists.)

**Action** Define a body for the program unit.

**PLS-00901     the datatype of column *name* of table *name* is not supported**

**Cause** A column in a database table belongs to a datatype that is not supported by the current release of PL/SQL.

**Action** Remove the offending column from the table or copy the desired columns to another table.

**PLS-00902     a read-only bind variable used in OUT or IN OUT context**

**Cause** A host variable that is protected from update was used in a context that allows an update.

**Action** Check the context and change the use of the host variable, or assign the value of the host variable to a PL/SQL local variable, then use the local variable instead.

**PLS-00904     insufficient privilege to access object *name***

**Cause** An attempt was made to operate on a database object without the required privilege. This error occurs, for example, if an attempt was made to UPDATE a table for which only SELECT privileges were granted.

**Action** Ask the DBA to perform the operation or to grant you the required privilege.

**PLS-00905     object *name* is invalid**

**Cause** An invalid package specification or stored subprogram was referenced. A package specification or stored subprogram is invalid if its source code or any database object it references has been DROPPed, REPLACed, or ALTERed since it was last compiled.

**Action** Find out what invalidated the package specification or stored subprogram, then make sure that Oracle can recompile it without errors.

**PLS-00906      compilation is not possible**

**Cause**      The PL/SQL compiler cannot run properly because its operating environment is corrupted. For example, its error message file might be inaccessible.

**Action**      Check the PL/SQL operating environment, making sure that all files required by the compiler are accessible.

**PLS-00950      in this version, PL/SQL tables cannot be used in this SQL statement**

**Cause**      In a SQL statement, a PL/SQL table was referenced incorrectly. For example, the following reference might have been made, but PL/SQL table attributes can only be used in procedural statements:

```
SELECT ename_tab.COUNT INTO name_count WHERE ...
```

**Action**      Remove the incorrect reference from the SQL statement.

**PLS-00990      PL/SQL tables of cursor variables are not allowed**

**Cause**      An attempt was made to use a REF CURSOR type to define a TABLE type, which is not allowed. The rows in a PL/SQL table cannot store the values of cursor variables.

**Action**      Redefine the TABLE type using one of the PL/SQL scalar datatypes (such as CHAR, DATE, or NUMBER) to specify its column type.

**PLS-00993      cursor variables cannot be passed as RPC arguments or results**

**Cause**      An attempt was made to pass a cursor variable to or from a remote subprogram, which is not allowed. For example, a remote procedure cannot be used to open a cursor variable because remote subprograms cannot return the values of cursor variables.

**Action**      Change the subprogram call to reference a local database.

**PLS-00994      cursor variables cannot be declared as part of a package**

**Cause**      An attempt was made to declare a cursor variable in a package specification, which is not allowed. Although REF CURSOR types can be defined in a PL/SQL block, subprogram, or package, cursor variables can be declared only in a block or subprogram.

**Action**      Move the cursor variable declaration into a PL/SQL block or subprogram.

**PLS-00995     unhandled exception # *num***

**Cause**     An exception was raised for which no handler was found. If it cannot find a handler for a raised exception, PL/SQL returns an unhandled exception to the host environment. The number embedded in the message is an Oracle error code listed in this manual.

**Action**     Fix the condition that raised the exception, write an appropriate exception handler, or use the OTHERS handler. If there is an appropriate handler in the current block, the exception was raised in a declaration or exception handler, and therefore propagated immediately to the enclosing block.

**PLS-00996     out of memory**

**Cause**     A request from PL/SQL for more memory failed.

**Action**     Make sure that you are not referencing the wrong row in a PL/SQL table and that the program is not recursing too deeply.

**01400–01799: FIPS Warnings**

This section lists the warnings that can be issued by the FIPS Flagger when it is enabled in an Oracle tool (such as Server Manager, SQL\*Plus, or an Oracle Precompiler) and either

- an Oracle extension to the SQL92 standard is used, or
- a SQL92 feature is used in a non-conforming manner

FIPS warning messages are listed for completeness. The causes and actions are described in ANSI document ANSI X3.135–1992.

|                  |                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------|
| <b>PLS–01400</b> | <b>use of    ' token</b>                                                                               |
| <b>PLS–01401</b> | <b>identifier over 18 characters long</b>                                                              |
| <b>PLS–01402</b> | <b>use of quoted identifier</b>                                                                        |
| <b>PLS–01403</b> | <b>Comment delimiters /* */</b>                                                                        |
| <b>PLS–01404</b> | <b>ANSI Identifiers can only consist of letters, digits, and the underscore character</b>              |
| <b>PLS–01405</b> | <b>under ANSI's grammar, numeric data represented in exponent notation must use an uppercase E</b>     |
| <b>PLS–01406</b> | <b>an identifier has been found that is considered a keyword in ANSI's grammar but not in PL/SQL's</b> |
| <b>PLS–01407</b> | <b>one of the identifiers CHAR, CHARACTER, or INTEGER has been redefined by the programmer</b>         |
| <b>PLS–01408</b> | <b>use of &amp; token</b>                                                                              |
| <b>PLS–01409</b> | <b>use of PRIOR_ token</b>                                                                             |
| <b>PLS–01410</b> | <b>use of MOD token</b>                                                                                |
| <b>PLS–01411</b> | <b>use of REM token</b>                                                                                |

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <b>PLS-01412</b> | <b>use of EXP token</b>                                                     |
| <b>PLS-01413</b> | <b>use of NULL an expression</b>                                            |
| <b>PLS-01414</b> | <b>use of qualified expression here</b>                                     |
| <b>PLS-01415</b> | <b>use of aggregate value here</b>                                          |
| <b>PLS-01416</b> | <b>use of &lt;id&gt; (&lt;value&gt;...) here</b>                            |
| <b>PLS-01417</b> | <b>use of %attribute</b>                                                    |
| <b>PLS-01418</b> | <b>subquery cannot include set operators in ANSI's grammar</b>              |
| <b>PLS-01419</b> | <b>subquery must have either * or exactly one column in its select list</b> |
| <b>PLS-01420</b> | <b>INTERSECT and MINUS set operators are not ANSI</b>                       |
| <b>PLS-01421</b> | <b>FOR UPDATE clause</b>                                                    |
| <b>PLS-01422</b> | <b>aliases</b>                                                              |
| <b>PLS-01423</b> | <b>subquery on right-hand-side in set clause</b>                            |
| <b>PLS-01424</b> | <b>non-ANSI order of clauses</b>                                            |
| <b>PLS-01425</b> | <b>connect-by clause</b>                                                    |
| <b>PLS-01450</b> | <b>this &lt;value expression&gt; contains a nonconforming datatype</b>      |
| <b>PLS-01451</b> | <b>the datatypes of these &lt;value expressions&gt; must be comparable</b>  |
| <b>PLS-01452</b> | <b>this function is not part of the ANSI standard</b>                       |
| <b>PLS-01453</b> | <b>this procedure is not part of the ANSI standard</b>                      |
| <b>PLS-01454</b> | <b>no operator may be used with values of datatype CHAR</b>                 |

## 01400–01799: FIPS Warnings

|                  |                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------|
| <b>PLS–01455</b> | <b>the predicates IS NULL and IS NOT NULL are defined only for column specifications</b>                      |
| <b>PLS–01456</b> | <b>name length cannot exceed 3.</b>                                                                           |
| <b>PLS–01458</b> | <b>the set clause in an UPDATE statement requires a column name of length 1</b>                               |
| <b>PLS–01460</b> | <b>cannot access object on a remote host</b>                                                                  |
| <b>PLS–01463</b> | <b>STDDEV is not a standard set function</b>                                                                  |
| <b>PLS–01464</b> | <b>VARIANCE is not a standard set function</b>                                                                |
| <b>PLS–01466</b> | <b>null strings are not allowed</b>                                                                           |
| <b>PLS–01467</b> | <b>the value list of the IN predicate, if not a subquery, must contain only value_specifications</b>          |
| <b>PLS–01468</b> | <b>the first argument of the like–predicate must be a column of type character string</b>                     |
| <b>PLS–01469</b> | <b>ANSI standard does not permit records</b>                                                                  |
| <b>PLS–01470</b> | <b>the escape character in the like–predicate must be a literal or a variable of type CHAR</b>                |
| <b>PLS–01471</b> | <b>the keyword DISTINCT must be present in a COUNT(DISTINCT sim_expr)</b>                                     |
| <b>PLS–01472</b> | <b>in a set_function_specification, if DISTINCT is present, the expression must be a column_specification</b> |
| <b>PLS–01473</b> | <b>use &lt;&gt; instead of != or ~=</b>                                                                       |
| <b>PLS–01474</b> | <b>use of ANY is non_ANSI</b>                                                                                 |
| <b>PLS–01500</b> | <b>unions are not allowed in the definition of a view</b>                                                     |
| <b>PLS–01501</b> | <b>options in CREATE TABLE statement is non–ANSI.</b>                                                         |

|                  |                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>PLS-01502</b> | <b>constraint name and constraint status are non-ANSI.</b>                                                            |
| <b>PLS-01503</b> | <b>the expression in a SET clause must not include a set function</b>                                                 |
| <b>PLS-01504</b> | <b>use of AS phase in CREATE TABLE statement is non_ANSI</b>                                                          |
| <b>PLS-01505</b> | <b>ALTER is non-ANSI</b>                                                                                              |
| <b>PLS-01506</b> | <b>CREATE INDEX is non-ANSI</b>                                                                                       |
| <b>PLS-01507</b> | <b>DROP is non-ANSI</b>                                                                                               |
| <b>PLS-01701</b> | <b>illegal syntax in ROLLBACK WORK statement</b>                                                                      |
| <b>PLS-01702</b> | <b>illegal syntax in COMMIT WORK statement</b>                                                                        |
| <b>PLS-01703</b> | <b>cursor name in CLOSE statement must be of length 1</b>                                                             |
| <b>PLS-01704</b> | <b>the expressions in a sort clause must be column specs or unsigned integers, with optional ASC or DESC</b>          |
| <b>PLS-01705</b> | <b>table specified by a cursor not updatable if cursor specification has a UNION or ORDER_BY</b>                      |
| <b>PLS-01707</b> | <b>in positioned DELETE or UPDATE statement, table must be identified in specification of cursor</b>                  |
| <b>PLS-01708</b> | <b>in searched DELETE, UPDATE or INSERT, table must not appear in FROM clause of subqueries in search condition</b>   |
| <b>PLS-01709</b> | <b>value list of INSERT statement, if specified with value list rather than subquery, must be value specification</b> |
| <b>PLS-01710</b> | <b>in a positioned DELETE or UPDATE statement, the cursor name must be of length 1</b>                                |
| <b>PLS-01711</b> | <b>a SELECT statement may not contain ORDER_BY, HAVING, or GROUP_BY clause</b>                                        |



## **01400–01799: FIPS Warnings**

**PLS–01712     ANSI does not allow bind variables as INDICATORS**

**PLS–01713     the constraints on these types do not match**

**PLS–01714     ANSI expects a column name not a literal value here**

**PLS–01715     ANSI does not accept SAVEPOINTS**

# Precompiler Messages

This chapter lists messages that might occur when running the Oracle Precompilers. Also listed are messages that the Oracle runtime library might return to the SQLCA. For each message, the probable cause and corrective action are given. The Oracle Precompilers issue various warning and error messages. For example, the following message code and message statement might appear:

```
PCC-U-00036: No input file name specified
```

The message code consists of a prefix, severity code, and sequence number. The prefix PCC shows that the message was generated by an Oracle Precompiler. There are four severity codes. The following table gives their meanings:

| <i>Code</i> | <i>Meaning</i>                                                                                                                           |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| W           | Warning—despite an error, a compilable output file was created.                                                                          |
| S           | Severe error—despite an error, an output file was created. However, it might not be compilable.                                          |
| F           | Fatal error—no output file was created because of an internal problem or because a resource (such as memory) was unavailable or ran out. |
| U           | Unrecoverable error—no output file was created because an input requirement was not met.                                                 |
| I           | Information only—no error or warning was encountered. Information messages are used only for FIPS flagging.                              |

## Precompiler Messages

This section lists precompile and runtime error messages that were added since Pro\*C/C++, Release 2.1, and Pro\*COBOL, Pro\*FORTRAN, and Pro\*Ada, Releases 1.7. For more information about precompilers, see the precompiler documentation that refers to the programming language in use. The following is a list of Oracle precompiler documentation:

- *Programmer's Guide to the Oracle Call Interface for Ada*
- *Programmer's Guide to the Oracle Precompilers*
- *Programmer's Guide to the Oracle Call Interface*
- *Programmer's Guide to the Pro\*Ada Precompiler*
- *Programmer's Guide to the Oracle Pro\*C/C++ Precompiler*
- *Pro\*COBOL Supplement to the Oracle Precompilers Guide*
- *Pro\*FORTRAN Supplement to the Oracle Precompilers Guide*
- *Pro\*Pascal Supplement to the Oracle Precompilers Guide*
- *Pro\*PL/I Supplement to the Oracle Precompilers Guide*

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## 00001–01600: Oracle Precompiler, Version 1 Messages

### **PCC–00001    Unable to open file *name***

**Cause**    The precompiler was unable to open a temporary file for internal use. There might be insufficient disk space, too many open files, or read-only protection on the output directory.

**Action**    Check that there is enough disk space, that the limit for open files is set high enough (check with the system manager) and that protection on the directory allows opening a file for writing.

### **PCC–00002    Invalid syntax at column *name* in line *num* of file *name***

**Cause**    There is a syntax error in an EXEC statement or the statement is not properly terminated.

**Action**    Correct the syntax of the EXEC statement. If the error occurred at the end of the input file, check that the last EXEC statement is properly terminated.

- PCC-00003**    **Invalid SQL Identifier at column *name* in line *num* of file *name***
- Cause**    The symbol in a conditional precompilation statement (such as EXEC ORACLE IFDEF) is invalid, or the name of a SQL descriptor, statement, or cursor is invalid or was not properly declared.
- Action**    Check the statement syntax and spelling of the identifier and check that a reserved word was not accidentally used. If necessary, define the identifier in a variable declaration or DECLARE statement ahead of the line in error.
- PCC-00004**    **Mismatched IF/ELSE/ENDIF block at line *num* in file *name***
- Cause**    There is an EXEC ORACLE ELSE or EXEC ORACLE ENDIF statement without a matching EXEC ORACLE IFDEF statement.
- Action**    Add the missing EXEC ORACLE IFDEF statement or delete or move the EXEC ORACLE ELSE or EXEC ORACLE ENDIF statement.
- PCC-00005**    **Unsupported datatype in line *num* of file *name***
- Cause**    A host variable defined in the Declare Section has an unsupported datatype or has a scale or precision outside the supported range.
- Action**    Redefine the host variable using a supported datatype. Check that the scale and precision of a numeric variable are in the accepted range.
- PCC-00007**    **Invalid WHENEVER condition at column *name* in line *num* of file *name***
- Cause**    A condition other than SQLERROR, SQLWARNING, or NOT FOUND was specified in an EXEC SQL WHENEVER statement, or one of these was used but spelled incorrectly.
- Action**    Correct the spelling of the WHENEVER condition or use a host-language IF statement to test the special condition.

**PCC–00008     Invalid WHENEVER action at column *name* in line *num* of file *name***

**Cause**     At least one of the following:

- An action other than CONTINUE, GOTO, or STOP was specified in an EXEC SQL WHENEVER statement.
- One of the specified actions was spelled incorrectly.
- The host language does not allow the action (STOP is illegal in Pro\*Pascal programs).
- A GOTO label is invalid.

**Action**     Check that the host language allows the specified WHENEVER action. If necessary, correct the spelling of the WHENEVER action or correct the GOTO label.

**PCC–00009     Invalid host variable at column *name* in line *num* of file *name***

**Cause**     A host variable used in an EXEC SQL statement was not declared in the Declare Section or has an unsupported datatype.

**Action**     Declare the host variable in the Declare Section, making sure it has one of the supported datatypes.

**PCC–00010     Statement out of place at line *num* in file *name***

**Cause**     An EXEC statement was not placed properly in the host program. For example, there might be a data manipulation statement in the Declare Section. In a Pro\*COBOL program, the Declare Section might be outside the WORKING-STORAGE SECTION.

**Action**     Remove or relocate the statement.

**PCC–00011     Already in a Declare Section at line *num* in file *name***

**Cause**     A BEGIN DECLARE SECTION statement was found inside a Declare Section.

**Action**     Remove the extra BEGIN DECLARE SECTION statement.

**PCC–00012     Not in a Declare Section at line *num* in file *name***

**Cause**     An END DECLARE SECTION statement without a matching BEGIN DECLARE SECTION statement was found. Either the BEGIN DECLARE SECTION statement is missing or misspelled or the END DECLARE SECTION statement is an extra.

**Action**     Add or correct the BEGIN DECLARE SECTION statement or remove the extra END DECLARE SECTION statement.

**PCC-00013    Unable to open INCLUDE file *name* at line *num* in file *name***

**Cause** The precompiler was unable to open the input file specified in the INCLUDE statement. Some possible causes follow:

- The filename is misspelled.
- The file does not exist.
- The search path to the file is incorrect.
- File access privileges are insufficient.
- Another user has locked the file.
- There is not enough disk space.
- There are too many open files.

**Action** Check that the file exists, that the search path to the file is correct, that sufficient privileges to access the file have been granted, and that it is not locked by another user. Also, check that there is enough disk space and that the limit for open files is set high enough (check with the system manager).

**PCC-00014    Undeclared SQL identifier *ident* at line *num* in file *name***

**Cause** The name of a descriptor, statement, or cursor was not declared or is misspelled.

**Action** Add or correct the descriptor, statement, or cursor declaration.

**PCC-00015    Unrecognized host language syntax ignored at line *num* in file *name***

**Cause** The host language syntax used to define a host variable in the Declare Section is incorrect.

**Action** Check the syntax and the spelling, then correct the declaration.

**PCC-00016    Unable to open a cursor at line *num* in file *name***

**Cause** The syntax in a SQL statement is faulty. The precompiler was expecting a host variable but found something else.

**Action** Check the syntax and the spelling, then correct the SQL statement.

**PCC-00017    Unable to parse statement at line *num* in file *name***

**Cause** There is a syntax error in an array declaration. The precompiler was expecting a right bracket (]) but found something else.

**Action** Check the syntax, then correct the array declaration.

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCC–00018</b> | <b>Expected <i>token</i>, but found <i>token</i> at line <i>num</i> in file <i>name</i></b>                                                |
| <b>Cause</b>     | The syntax in a SQL statement is faulty. The precompiler found an unexpected or illegal token.                                             |
| <b>Action</b>    | Check the syntax and the spelling, then correct the SQL statement.                                                                         |
| <b>PCC–00019</b> | <b>Unable to obtain bind variables at line <i>num</i> in file <i>name</i></b>                                                              |
| <b>Cause</b>     | The precompiler was unable to find information about an input host variable (bind variable) used in a SQL statement.                       |
| <b>Action</b>    | Check that the input host variable is declared in the Declare Section and used properly in the SQL statement.                              |
| <b>PCC–00020</b> | <b>Unable to obtain define variables at line <i>num</i> in file <i>name</i></b>                                                            |
| <b>Cause</b>     | The precompiler was unable to find information about an output host variable (define variable) used in a SQL statement.                    |
| <b>Action</b>    | Check that the output host variable is declared in the Declare Section and used properly in the SQL statement.                             |
| <b>PCC–00021</b> | <b>Oracle Error: ORA–<i>nnnnn</i></b>                                                                                                      |
| <b>Cause</b>     | An Oracle error occurred.                                                                                                                  |
| <b>Action</b>    | Refer to the indicated message in the ORA message chapters of this manual.                                                                 |
| <b>PCC–00022</b> | <b>Out of space – unable to allocate <i>num</i> bytes</b>                                                                                  |
| <b>Cause</b>     | The precompiler process ran out of memory.                                                                                                 |
| <b>Action</b>    | Allocate more memory to the process, then retry.                                                                                           |
| <b>PCC–00023</b> | <b>Unable to log off Oracle</b>                                                                                                            |
| <b>Cause</b>     | An Oracle connection error occurred while the precompiler was trying to log off, probably because Oracle has been shut down.               |
| <b>Action</b>    | Check that Oracle is available, then retry.                                                                                                |
| <b>PCC–00024</b> | <b>Indicator variable <i>var</i> has wrong type or length at line <i>num</i> in file <i>name</i></b>                                       |
| <b>Cause</b>     | An indicator variable was not declared in the Declare Section as a 2-byte integer. Indicator variables must be defined as 2-byte integers. |
| <b>Action</b>    | Redefine the indicator variable as a 2-byte integer.                                                                                       |

- PCC-00025    Undeclared indicator variable *var* at line *num* in file *name***
- Cause**    An indicator variable used in a SQL statement was not declared in the Declare Section or its name is misspelled.
- Action**    Add or correct the indicator variable declaration.
- 
- PCC-00026    Invalid host variable *vat* at line *num* in file *name***
- Cause**    A host variable used in a SQL statement was not declared properly. Some possible causes follow:
- It was not declared in the Declare Section.
  - Its datatype is not supported.
  - Its name is misspelled.
  - It is a COBOL group item; in Pro\*COBOL, only elementary items are allowed in a SQL statement.
- Action**    Add or correct the host variable declaration.
- 
- PCC-00027    Redeclared SQL *identifier ident* at line *num* in file *name***
- Cause**    The name of a SQL descriptor, statement, or cursor was re-declared (that is, declared twice).
- Action**    Check the spelling of the identifier, then, if necessary, remove the extra declaration.
- 
- PCC-00028    Option *optnam* not legal as EXEC ORACLE OPTION**
- Cause**    A precompiler option was specified inline in an EXEC ORACLE statement, instead of on the command line. Some options can be specified only on the command line. For example, INAME cannot be specified inline.
- Action**    Respecify the precompiler option on the command line, instead of in an EXEC ORACLE statement. To see an online display of the precompiler options, enter the precompiler command (with no options) at the operating-system prompt.
- 
- PCC-00029    Ambiguous option *optnam***
- Cause**    The name of a precompiler option was abbreviated ambiguously. For example, MAX= might refer to MAXLITERAL or MAXOPENCURSORS.
- Action**    Respecify the full option name or an unambiguous abbreviation. To see an online display of the precompiler options, enter the precompiler command (with no options) at the operating-system prompt.



**PCC–00031    Invalid value given for option *optnam***

**Cause**    The value specified for a precompiler option is invalid, probably because the value is misspelled (as in LTYPE=HORT) or out of range (as in PAGELEN=–55).

**Action**    Check the value, making sure it is spelled correctly and within the legal range.

**PCC–00032    Invalid option *optnam***

**Cause**    The precompiler found an invalid precompiler option name. Some possible causes follow:

- The option name is misspelled.
- The specified option does not exist.
- The equal sign (=) between the option name and value is missing or has space around it.

**Action**    Check that the option exists and that its name is spelled correctly. To see an online display of the precompiler options, enter the precompiler command (with no options) at the operating–system prompt. Also check that there is an equal sign between the option name and value.

**PCC–00033    Missing operand for option *optnam***

**Cause**    No value was specified for a precompiler option. Either the value is missing or there is space around the equal sign (as in LTYPE=SHORT).

**Action**    Check that a value for each option has been specified and that there is no space around the equal sign.

**PCC–00036    No input file name specified**

**Cause**    The input file was not specified on the command line.

**Action**    Use the INAME command–line option to specify the input file.

**PCC–00037    Unable to log on to Oracle with *username*. Oracle error number: *ora–nnnnn***

**Cause**    The precompiler was unable to log on to Oracle with the specified username and password. An Oracle error with given number occurred when the logon was attempted.

**Action**    Refer to the indicated message in the ORA message chapters of this manual.

**PCC-00038    Unable to open a cursor**

**Cause** This is an internal error message not usually issued.

**Action** Call customer support for assistance. If the application does not require syntactic or semantic checking of SQL statements and does not use PL/SQL, specify SQLCHECK=NONE on the command line.

**PCC-00039    Unable to open input file *name***

**Cause** The precompiler was unable to open the input file specified by the INAME precompiler option. Some possible causes follow:

- The filename is misspelled.
- The file does not exist.
- The search path to the file is incorrect.
- File access privileges are insufficient.
- Another user has locked the file.
- There is not enough disk space.
- There are too many open files.

**Action** Check that the file exists, that the search path to the file is correct, that sufficient privileges have been granted to access the file, and that it is not locked by another user. Also check that there is enough disk space and that the limit for open files is set high enough (check with the system manager).

**PCC–00040    Unable to open listing file *name***

**Cause**    The precompiler was unable to open the listing file specified by the LNAME precompiler option. Some possible causes follow:

- The filename is misspelled.
- The file does not exist.
- The search path to the file is incorrect.
- File access privileges are insufficient.
- Another user has locked the file.
- There is not enough disk space.
- There are too many open files.

**Action**    Check that the file exists, that the search path to the file is correct, that sufficient privileges have been granted to access the file, and that it is not locked by another user. Also check that there is enough disk space and that the limit for open files is set high enough (check with the system manager). If a listing file is not needed, specify LTYPE=NONE on the command line.

**PCC–00041    Unable to open output file *name***

**Cause**    The precompiler was unable to open the output file specified by the ONAME precompiler option. Some possible causes follow:

- The filename is misspelled.
- The file does not exist.
- The search path to the file is incorrect.
- File access privileges are insufficient.
- Another user has locked the file.
- There is not enough disk space.
- There are too many open files.

**Action**    Check that the file exists, that the search path to the file is correct, that sufficient privileges have been granted to access the file, and that it is not locked by another user. Also check that there is enough disk space and that the limit for open files is set high enough (check with the system manager).

- PCC-00042**    **Must include SQLCA file when MODE=ANSI and WHENEVER SQLWARNING used**
- Cause**    When MODE={ANSI|ANSI14}, an attempt was made to use the WHENEVER SQLWARNING statement without declaring the SQLCA. When MODE={ANSI|ANSI14}, declaring the SQLCA is optional, but to use the WHENEVER SQLWARNING statement, the SQLCA must be declared.
- Action**    Remove all WHENEVER SQLWARNING statements from the program or declare the SQLCA by hardcoding it or copying it into the program with the INCLUDE statement.
- 
- PCC-00044**    **Array size mismatch in INTO/USING. Minimum is: *min (num:num)***
- Cause**    The size of an array variable in an INTO/USING clause is too small for the number of rows processed.
- Action**    Declare all array variables in the INTO/USING clause to have at least the minimum dimension given.
- 
- PCC-00045**    ***clause\_name* clause inappropriate at line *num* in file *name*. Ignored**
- Cause**    There is a misplaced clause at the end of an EXEC SQL statement (an AT clause at the end of a SELECT statement, for example), or the action specified in a FOR clause is invalid (for example, FOR:loop INTO...).
- Action**    Check the statement syntax, then relocate or correct the misplaced or invalid clause.
- 
- PCC-00047**    **Unterminated comment/string constant beginning near line *num* in file *name***
- Cause**    A string constant is missing an ending quotation mark, or a comment is missing an ending delimiter.
- Action**    Check that all comments are delimited and all string constants are enclosed by quotation marks.
- 
- PCC-00050**    **Unable to generate descriptor in program unit ending line *num* in file *name***
- Cause**    The precompiler was unable to generate a descriptor for the compilation unit. This can occur from either of the following:
- a non-existent or improperly implemented Declare Section
  - undetected syntax errors near the beginning of the source file or just before the END DECLARE SECTION statement
- Action**    Verify that the Declare Section is properly implemented. Then check for syntax errors at the beginning of the compilation unit and before any END DECLARE SECTION statement, and correct as appropriate.

- PCC–00051**     **Size of VARCHAR *hostvar* at *num* is larger than 65533 at line *num* in file *name***
- Cause**     The declared size of a VARCHAR host variable exceeds the precompiler limit of 65533 bytes.
- Action**     Check the Declare Section, making sure the size of each VARCHAR variable does not exceed 65533 bytes.
- 
- PCC–00053**     **FOR variable *var* is invalid type at line *num* in file *name***
- Cause**     The count variable in a FOR clause has the wrong datatype. The datatype must be NUMBER or LONG (or be compatible with NUMBER or LONG).
- Action**     Check the declaration and check that the count variable has a datatype of NUMBER or LONG (or a compatible Oracle or host–language datatype).
- 
- PCC–00054**     **Expected end–of–statement at column *name* in line *num* of file *name***
- Cause**     The precompiler expected to find a statement terminator at the end of an EXEC statement but found something else. This can happen if tabs were embedded in the source code (because the precompiler has no way of knowing how many spaces a tab represents).
- Action**     If tabs are embedded in the source code, replace them with spaces. Check the statement syntax and check that each EXEC statement has a terminator. For embedded CREATE {FUNCTION | PROCEDURE | PACKAGE} statements and for embedded PL/SQL blocks, check that the statement terminator is END–EXEC.
- Action**     Correct or remove the erroneous CREATE statement.
- 
- PCC–00055**     **Array *name* not allowed as bind variable at line *num* in file *name***
- Cause**     A host array was used as a bind (input) variable in the WHERE clause of a SELECT statement. This is not allowed.
- Action**     Remove the host array or replace it with a simple host variable.
- 
- PCC–00056**     **FOR clause not allowed in SELECT statement at line *num* in file *name***
- Cause**     FOR clause was used with a SELECT statement. This is not allowed, as data returned from the last loop in the execution of the SELECT overwrites data returned in a previous loop.
- Action**     Remove the FOR clause from the SELECT statement and use a host–language construct to iteratively execute the SELECT statement.

- PCC-00060 Both CURSOR and STATEMENT have AT clauses at line *num* of file *name***
- Cause** Two AT clauses, one in a DECLARE STATEMENT statement, the other in a DECLARE CURSOR statement, pertain to the same SQL statement. The AT clause may be specified with either DECLARE STATEMENT or DECLARE CURSOR but not with both.
- Action** Remove the AT clause from one of the statements.
- PCC-00061 Error at line *num*, column *name*. PLS-*nnnnn***
- Cause** The precompiler found an error in an embedded SQL statement or PL/SQL block.
- Action** Refer to the indicated PL/SQL error message and correct the SQL statement or embedded PL/SQL block. See Chapter 3 “PL/SQL Message”.
- PCC-00062 Must use option SQLCHECK=SEMANTICS when there is embedded PL/SQL**
- Cause** The precompiler tried to parse an embedded PL/SQL block when SQLCHECK={SYNTAX | NONE}. PL/SQL blocks can be parsed only when SQLCHECK=SEMANTICS is specified.
- Action** Remove the PL/SQL block or specify SQLCHECK=SEMANTICS.
- PCC-00063 Reached end of file *name* before end-of-statement at line *num***
- Action** The precompiler encountered an end-of-file while parsing a PL/SQL block.
- Action** Add the appropriate statement terminator (;) or end-of-block statement (END;) to the PL/SQL block.
- PCC-00064 All uses of a given host variable must use identical indicator variables**
- Cause** Two or more occurrences of a host variable in an EXEC SQL statement were associated with different indicator variables. This is not allowed.
- Action** Rename the indicator variables so that each occurrence of the host variable is associated with the same indicator variable.
- PCC-00065 USERID required, but not specified**
- Cause** The SQLCHECK=SEMANTICS option was specified, but the USERID option on the command line was not specified.
- Action** Specify USERID=*username/password* or enter a username and password when prompted or specify SQLCHECK={SYNTAX | NONE}.

- PCC–00066      USERID only used when SQLCHECK=SEMANTICS, USERID ignored**
- Cause**      The USERID option was specified when SQLCHECK={SYNTAX|NONE}. This is unnecessary.
- Action**      Specify the USERID option only when SQLCHECK=SEMANTICS.
- 
- PCC–00067      IRECLen exceeded. Line *num* in file *name* truncated**
- Cause**      While reading the input file, the precompiler found a line longer than IRECLen.
- Action**      Either shorten the input line or specify a larger IRECLen value on the command line.
- 
- PCC–00068      Host and indicator variables may not have the same name**
- Cause**      In an EXEC SQL statement, an indicator variable had the same name as a host variable. The names of a host variable and its associated indicator variable must be different. Also, an indicator variable cannot be used as a host variable.
- Action**      Rename the host or indicator variable.
- 
- PCC–00069      Host variable *var* has unsupported datatype at line *num* in file *name***
- Cause**      A host variable had an unsupported datatype. For a list of supported datatypes, see the language-specific supplement to the *Programmer's Guide to the Oracle Precompilers*.
- Action**      Redefine the host variable in the Declare Section, giving it a supported datatype.
- 
- PCC–00070      Illegal syntax. Exponential value in SQL statement: *text***
- Cause**      The precompiler found a syntax error while parsing a number coded in scientific notation. The precompiler expected to find a signed integer following the exponentiation indicator (E), but found something else.
- Action**      Reformat the number correctly.
- 
- PCC–00072      Input file name length exceeds 14 characters**
- Cause**      The filename specified exceeded the maximum length. On some operating systems, the maximum length of a filename is 14 characters.
- Action**      Use a filename of 14 or fewer characters.

- PCC–00073    Cursor is declared but never OPENed at line *num* in file *name***
- Cause**    A cursor was DECLAREd but was not referenced in an OPEN statement. This is only an informational message.
- Action**    Remove the cursor declaration or code an OPEN statement for the cursor.
- 
- PCC–00074    FIPS warning: Multiply defined host variable in line *num* of file *name***
- Cause**    An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the name of a global host variable was used to declare a local host variable. This informational message is issued by the FIPS Flagger when FIPS=YES.
- Action**    No action required. However, for ANSI/ISO compliance, do not reuse the names of global host variables to declare local host variables.
- 
- PCC–00075    “:” expected before indicator variable**
- Cause**    An indicator variable was not prefixed with a colon, as required.
- Action**    Prefix a colon to the indicator variable in question.
- 
- PCC–00076    DISPLAY type must be SIGN LEADING SEPARATE**
- Cause**    This message is issued only by Pro\*COBOL. DISPLAY SIGN LEADING SEPARATE is the only DISPLAY type supported by Pro\*COBOL.
- Action**    Check the spelling of the variable declaration. If necessary, remove the reference to the unsupported DISPLAY type.
- 
- PCC–00077    Colon usage with numeric label in WHENEVER statement is not ANSI**
- Cause**    An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a numeric WHENEVER... GOTO label was prefixed with a colon. For example, the code might have looked like:
- `EXEC SQL WHENEVER SQLERROR GOTO :99;`
- This informational message is issued by the FIPS Flagger when FIPS=YES.
- Action**    No action required. However, for ANSI/ISO compliance, prefix alphanumeric (but not numeric) WHENEVER... GOTO labels with a colon.



**PCC–00078      FIPS warning: Invalid ANSI SQL identifier**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the name given to a host variable:

- is longer than 18 characters,
- does not begin with a letter, or
- contains consecutive or trailing underscores

In the following Pro\*C example, the host variable name is 19 characters long and therefore non-compliant:

```
EXEC SQL BEGIN DECLARE SECTION;  
    int  department_location;  -- not ANSI/ISO-compliant  
    ...  
EXEC SQL END DECLARE SECTION;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, change the host variable name so that it is <=18 characters long, begins with a letter, and does not contain consecutive or trailing underscores.

**PCC–00079      ANSI requires colon on label in WHENEVER statement**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, an alphanumeric WHENEVER... GOTO label was not prefixed with a colon. For example, the offending code might look like:

```
EXEC SQL WHENEVER NOT FOUND GOTO no_more;
```

This message is only a warning issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, prefix alphanumeric (but not numeric) WHENEVER... GOTO labels with a colon.

**PCC–00080      TYPE identifier already TYPEd**

**Cause**      The identifier being TYPEd in an EXEC SQL TYPE statement appeared in a previous EXEC SQL TYPE statement. A given identifier can appear in only one EXEC SQL TYPE statement.

**Action**      Check the spelling of the identifiers. Use different identifiers in the EXEC SQL TYPE statements, or remove one of the EXEC SQL TYPE statements.

- PCC-00081     Scale specification not allowed for given datatype**
- Cause**     The Oracle external datatype referenced in an EXEC SQL VAR or EXEC SQL TYPE statement does not allow a scale specification.
- Action**     Check the precision specification and remove the scale specification.
- 
- PCC-00082     Length and scale specifications must be an integer**
- Cause**     A floating point number or a non-number to specify a length or scale was used. Only integers can be used.
- Action**     Correct or remove the length and/or scale specification.
- 
- PCC-00083     Bind and define variables not allowed in CREATE statement**
- Cause**     Host variables cannot appear in a CREATE statement. If the makeup of a CREATE statement cannot be known until run time, a dynamic SQL statement must be used to execute it. That is, the program must accept or build the CREATE statement at run time, store it in a host string, then EXECUTE it.
- Action**     Correct or remove the erroneous CREATE statement.
- 
- PCC-00085     Error writing to file *name***
- Cause**     The precompiler was unable to write to the named output file. Some possible causes follow:
- Sufficient file access privileges were not defined.
  - Another user has locked the file.
  - There is not enough disk space.
  - There are too many open files.
- Action**     Check that sufficient privileges exist to access the file and that it is not locked by another user. Also check that there is enough disk space and that the limit for open files is set high enough (check with the system manager).
- 
- PCC-00086     Source file *name* has zero length**
- Cause**     The source file specified on the command line contains no code. Consequently, there is nothing for the precompiler to process.
- Action**     Specify a valid source file containing embedded SQL statements.

**PCC–00087 EXEC SQL TYPE statement not allowed for this host language**

**Cause** An EXEC SQL TYPE statement was used with a host language that does not support user-defined datatype equivalencing. This feature is available only in Pro\*C and Pro\*Pascal.

**Action** Remove the offending EXEC SQL TYPE statement.

**PCC–00088 User-defined type identifier expected**

**Cause** The user-defined datatype name in an EXEC SQL TYPE statement is missing or misspelled, is a reserved word, is not a legal identifier in the host language or conflicts with a base datatype in that language.

**Action** Check the spelling of the user-defined datatype name. If necessary, declare a valid user-defined datatype. User-defined datatype equivalencing is available only in Pro\*C and Pro\*Pascal.

**PCC–00089 Invalid Oracle TYPE specification**

**Cause** The Oracle external datatype name in an EXEC SQL TYPE or EXEC SQL VAR statement is missing or misspelled.

**Action** Check the spelling of the external datatype name. If necessary, supply the missing datatype name.

**PCC–00090 Precision/scale specification must be given for DECIMAL datatype**

**Cause** A precision and/or scale specification for the Oracle external datatype DECIMAL in an EXEC SQL TYPE or EXEC SQL VAR statement was omitted.

**Action** Add the precision and/or scale specification to the EXEC SQL TYPE or EXEC SQL VAR statement.

**PCC–00091 TYPE statement requires format specification for this Oracle datatype**

**Cause** A length, precision, and/or scale specification for an Oracle external datatype in an EXEC SQL TYPE or EXEC SQL VAR statement was omitted.

**Action** Add the length, precision, and/or scale specification for the external datatype to the EXEC SQL TYPE or EXEC SQL VAR statement.

**PCC–00092 Length and/or scale incompatible with specified Oracle datatype**

**Cause** An invalid length or scale for an Oracle external datatype in an EXEC SQL TYPE or EXEC SQL VAR statement was specified.

**Action** Check that a length large enough to accommodate the external datatype is specified. If a scale is specified, check that it lies in the range –84 .. 99.

- PCC-00093 Invalid or obsolete option, ignored**
- Cause** The precompiler found an option available in a prior version or different host language but not in the current version or host language.
- Action** Remove the option specification.
- PCC-00094 Array length for char[n] datatype must be => 2**
- Cause** When MODE={ANSI | ANSI14}, a length of less than 2 characters for a **char[n]** host variable was specified or a simple CHAR variable was specified. When MODE={ANSI | ANSI14}, the length must be at least 2 characters. This message is issued only by the Pro\*C Precompiler.
- Action** Correct the declaration so that it specifies a length of at least 2 characters.
- PCC-00095 Missing PROGRAM, SUBROUTINE, FUNCTION, or BLOCK DATA statement**
- Cause** FORTRAN source files are expected to have at least one PROGRAM, SUBROUTINE, FUNCTION, or BLOCK DATA statement, which the precompiler uses to detect the beginning of a routine or compilation unit.
- Action** Add one of these statements to the source file.
- PCC-00096 Array FETCH not allowed for MODE=ANSI14**
- Cause** When MODE=ANSI14, an array SELECT or FETCH was attempted. However, array operations are not allowed when MODE=ANSI14.
- Action** If MODE=ANSI14 must be specified, place the SELECT or FETCH statement in a host-language loop, instead of using the array interface.
- PCC-00097 Use of DECIMAL and DISPLAY types allowed only for COBOL and PLI**
- Cause** The DECIMAL or DISPLAY external datatype was used in an EXEC SQL VAR statement with an Oracle Precompiler other than Pro\*COBOL or Pro\*PL/I. These external datatypes are available only in Pro\*COBOL and Pro\*PL/I.
- Action** Remove the reference to the DECIMAL or DISPLAY external datatype from the EXEC SQL VAR statement.
- PCC-00098 Scale specification cannot be used in this context**
- Cause** In a Pro\*C, Pro\*FORTRAN, or Pro\*Pascal program, scale in an EXEC SQL TYPE or EXEC SQL VAR statement in the current context cannot be specified.
- Action** Remove the scale specification from the EXEC SQL TYPE or EXEC SQL VAR statement.

**PCC–00099      Length cannot be given for types ROWID, DATE, or MLSLABEL**

**Cause**      A length for the ROWID, DATE, or MLSLABEL external datatype was specified in an EXEC SQL TYPE or EXEC SQL VAR statement. This is unnecessary because those are fixed-length types.

**Action**      Remove the length specification from the EXEC SQL TYPE or EXEC SQL VAR statement.

**PCC–00100      Non integer label is not ANSI**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a non-integer WHENEVER... GOTO label was in a Pro\*Pascal program. For example, the offending code might look like:

```
EXEC SQL WHENEVER NOT FOUND GOTO 5.0;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, use only integer WHENEVER... GOTO labels in a Pro\*Pascal program.

**PCC–00101      Lower case 'e' in floating point number is not ANSI**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a lowercase “e” was used in scientific notation. For example, the offending code might look like:

```
maxnum = 10e38;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, use an uppercase 'E' in scientific notation.

**PCC–00102      FOR UPDATE is an Oracle extension**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the FOR UPDATE OF clause was used in a cursor declaration. For example, the offending code might look like:

```
EXEC SQL DECLARE emp_cursor CURSOR FOR
      SELECT ENAME, SAL FROM EMP WHERE DEPTNO = :dept_number
      FOR UPDATE OF SAL;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, do not use the FOR UPDATE OF clause.

**PCC-00103    AT clause is an Oracle extension**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the AT *db\_name* clause was used in a SQL statement. For example, the offending code might look like:

```
EXEC SQL AT oracle3 COMMIT RELEASE;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use the AT *db\_name* clause.

**PCC-00104    FOR clause is an Oracle extension**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the FOR clause was used in an array-processing SQL statement. For example, the offending code might look like:

```
EXEC SQL FOR :limit INSERT INTO EMP (EMPNO, JOB, DEPTNO)
VALUES (:emp_number, :job_title, :dept_number);
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use the FOR clause.

**PCC-00105    Keyword WORK required here by ANSI**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the keyword WORK was used in a COMMIT or ROLLBACK statement. For example, the offending code might look like:

```
EXEC SQL COMMIT WORK RELEASE;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use the keyword WORK.

**PCC–00106      RELEASE is an Oracle extension to the COMMIT and ROLLBACK statements**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the parameter RELEASE was used in a COMMIT or ROLLBACK statement. For example, the offending code might look like:

```
EXEC SQL ROLLBACK RELEASE;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, do not use the parameter RELEASE.

**PCC–00107      The CONNECT statement is Oracle implementation dependent**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, the CONNECT statement was used to log on to Oracle. For example, the offending code might look like:

```
EXEC SQL CONNECT :username IDENTIFIED BY :password;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, specify the AUTO\_CONNECT command–line option instead of using a CONNECT statement.

**PCC–00108      This statement is not supported by ANSI**

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a nonconforming SQL statement such as PREPARE was used. For example, the offending code might look like:

```
EXEC SQL PREPARE sql_statement FROM :sql_string;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**      No action required. However, for ANSI/ISO compliance, do not use the nonconforming SQL statement.

**PCC-00109     Dynamic SQL and PL/SQL are Oracle extensions to ANSI SQL**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, dynamic SQL or embedded PL/SQL was used. For example, the offending code might look like:

```
EXEC SQL EXECUTE
      BEGIN
          SELECT ...
          ...
      END;
END-EXEC;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use dynamic SQL or embedded PL/SQL.

**PCC-00110     Oracle extension to the WHENEVER statement**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a nonconforming keyword such as NOTFOUND, STOP, RAISE, or DO was used in the WHENEVER statement. (Note that NOT FOUND is ANSI-compliant.) For example, the offending code might look like:

```
EXEC SQL WHENEVER SQLERROR STOP;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use the nonconforming keyword.

**PCC-00111     SQLCHECK value in EXEC ORACLE statement exceeds command line value**

**Cause** The SQLCHECK option was entered inline and specified a level of checking higher than the level specified (or accepted by default) on the command line. This is not allowed. For example, if SQLCHECK={SYNTAX|LIMITED} is specified on the command line, SQLCHECK={SEMANTICS|FULL} cannot be specified inline.

This message is only a warning; the precompiler ignores the inline value and continues processing.

**Action** Revise the EXEC ORACLE statement or specify a lower level of checking on the command line.



**PCC–00112     Datatype not supported by ANSI**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a pointer or nonconforming datatype such as VARCHAR was used. For example, the offending code might look like:

```
EXEC SQL BEGIN DECLARE SECTION;
      VARCHAR  username[20];
      ...
EXEC SQL END DECLARE SECTION;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not use pointers or nonconforming datatypes.

**PCC–00113     Value of DBMS option invalid with given value of MODE option**

**Cause** When MODE={ANSI14 | ANSI13}, DBMS=V7 was specified, or when MODE=ANSI, DBMS=V6 was specified. These option settings are incompatible. Note that the DBMS option was not available before release 1.5 of the Oracle Precompilers.

**Action** With DBMS=V7, instead of MODE={ANSI14 | ANSI13}, specify MODE={ANSI | ORACLE}. With DBMS=V6, instead of MODE=ANSI, specify MODE={ANSI14 | ANSI13 | ORACLE} but MODE=ORACLE is recommended.

**PCC–00114     Length spec required in EXEC SQL VAR statements for VARxxx types**

**Cause** In a EXEC SQL VAR statement, a VARCHAR or VARRAW external datatype was specified without a length. Unlike other types, the maximum length of the data field must be specified for VARCHAR and VARRAW.

**Action** Add a length specification to the EXEC SQL VAR statement.

**PCC–00115     Array required here**

**Cause** In an ARRAYLEN statement, the name of a previously declared host array was not specified. The first host variable in an ARRAYLEN statement must be an array. The second host variable, which specifies an array dimension, must be a 4-byte integer. The correct syntax follows:

```
EXEC SQL ARRAYLEN host_array (dimension);
```

The ARRAYLEN statement must appear in the Declare Section along with, but somewhere after, the declarations of *host\_array* and *dimension*.

**Action** Check the spelling of both identifiers in the ARRAYLEN statement. If necessary, supply the missing host array name.

**PCC-00116    This array already given in an ARRAYLEN statement**

**Cause** The same host array was specified in two different ARRAYLEN statements. A given host array cannot be specified in more than one ARRAYLEN statement.

**Action** Check the spelling of the host array names in both ARRAYLEN statements. Change one of the names so that they refer to different host arrays or remove one of the ARRAYLEN statements.

**PCC-00117    Invalid ARRAYLEN length variable type**

**Cause** A valid array dimension was not specified in an ARRAYLEN statement. The array dimension must be specified using a previously declared 4-byte integer host variable, not a literal or expression. For example, the offending code might look like:

```
EXEC SQL ARRAYLEN ename_array (25); -- illegal dimension
```

**Action** Supply a valid array dimension. If necessary, declare a 4-byte integer host variable for use in the ARRAYLEN statement.

**PCC-00118    Use of host variable initialization not supported by ANSI SQL**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a host variable was initialized in its declaration, as shown in the following Pro\*C example:

```
EXEC SQL BEGIN DECLARE SECTION;
      int dept_number = 20; -- not ANSI/ISO-compliant
      ...
EXEC SQL END DECLARE SECTION;
```

This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action required. However, for ANSI/ISO compliance, do not initialize host variables in their declarations.

**PCC-00119    Value of *const* variable in INTO clause will be modified**

**Cause** A variable declared with the type specifier *const* was used in an INTO clause. Such variables should not be modified and should not be used in an INTO clause.

**Action** Check the spelling of all identifiers in the INTO clause. If necessary, remove *const* from the host variable declaration or use a different host variable.

**PCC–00120     File I/O error during code generation**

**Cause**     A file I/O error occurred during code generation. This may be caused by insufficient disk space.

**Action**     Check that there is enough disk space.

**PCC–00121     Arrays of VARCHAR pointers are not supported**

**Cause**     An array of pointers was declared, which is not allowed. However, pointers to scalar types are allowed. With Pro\*C, declare pointers to **char[n]** and **VARCHAR[n]** variables as pointers to **CHAR** or **VARCHAR** (with no length specification).

**Action**     Correct or remove the declaration.

**PCC–00122     Input file name and output file name are identical**

**Cause**     On the command line, the same pathname for **INAME** and **ONAME** was specified, which designates the precompiler input and output files, respectively.

**Action**     Change one of the path/filenames.

**PCC–00123     Entire VARCHAR declaration must be on same line**

**Cause**     In a Pro\*C program, a **VARCHAR** declaration spans more than one line, which is not allowed.

**Action**     Revise the declaration so that it uses only one line.

**PCC–00124     COMMON\_NAME option must be before PROGRAM or subroutine beginning**

**Cause**     In a FORTRAN program, subroutine, or function, the precompiler option **COMMON\_NAME** was mistakenly specified after the **PROGRAM**, **SUBROUTINE**, or **FUNCTION** statement. If **COMMON\_NAME** is specified inline, its **EXEC ORACLE OPTION** statement must precede the **PROGRAM**, **SUBROUTINE**, or **FUNCTION** statement.

**Action**     Relocate the **EXEC ORACLE OPTION** statement or specify **COMMON\_NAME** on the command line.

**PCC-00126      Could not find or open system configuration file**

**Cause** The precompiler was unable to find or open the system configuration file (a text file containing preset command-line options, which the precompiler uses by default). Some possible causes follow:

- The file does not exist.
- The search path to the file is incorrect.
- File access privileges are insufficient.
- There are too many open files.

However, this message is just a warning. Processing continues even if the system configuration file does not exist.

**Action** Check that the file exists, that the search path to the file is correct, and that sufficient privileges exist to access the file. Also check that the limit for open files is set high enough (check with the system manager).

**PCC-00127      *text***

**Cause** This is a generic error message from the command-line processor.

**Action** Correct the indicated error.

**PCC-00128      Command line processor severe error**

**Cause** The command line processor encountered a severe error.

**Action** After making sure that all the command-line options are specified correctly, call customer support with a full account of all the options and configuration files used.

**PCC-00129      option *optnam* must be given**

**Cause** A required command-line option is missing. For example, the INAME option, which specifies the name of the input file, might be missing.

**Action** Supply the missing command-line option.

**PCC-00130      Invalid value *val* for option *optnam***

**Cause** The precompiler found an invalid option value. For example, the value might have been misspelled (as in DBMS=6V) or illegal (as in DBMS=V5).

**Action** Check the value, making sure that it is legal and correctly spelled.

**PCC–00132     Indicator array size must not be less than its host variable**

**Cause**     An host variable array was used with an indicator array declared with a smaller dimension. For example:

```
EXEC SQL BEGIN DECLARE SECTION;
int    dept_no[20];
short dept_no_ind[10];
EXEC SQL END DECLARE SECTION;
...
SELECT ... INTO dept_no:dept_no_ind ...
```

**Action**     Increase the size of the indicator array.

**PCC–00133     Command line option MODE=ANSI required with option NLS\_LOCAL=YES**

**Cause**     The precompiler option NLS\_LOCAL=YES was used without also specifying MODE=ANSI. The precompiler option MODE=ANSI must be specified if NLS\_LOCAL=YES.

**Action**     Set the precompiler option MODE=ANSI in addition to NLS\_LOCAL=YES or do not set NLS\_LOCAL=YES.

**PCC–00135     Result Set Cursor usage is not standard SQL**

**Cause**     An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, an Oracle Result Set Cursor was used. This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action**     No action required. However, for ANSI/ISO compliance, do not use Result Set Cursors.

**PCC–00136     Invalid SQL\_CURSOR declaration**

**Cause**     An array of SQL\_CURSOR host variables was declared or, if Pro\*COBOL, a PICTURE clause was specified in the SQL\_CURSOR declaration. In Pro\*FORTRAN, a length specification (i.e., “\*n”) on the SQL\_CURSOR declaration may have been specified. These usages are not supported.

**Action**     Check that the SQL\_CURSOR variable is not declared as an array or, if Pro\*COBOL, that no PICTURE clause is specified for the SQL\_CURSOR. In Pro\*FORTRAN, check that there is no length specification (i.e., “\*n”) for the SQL\_CURSOR.

**PCC-00137 Invalid use of SQL\_CURSOR host variable**

**Cause** A SQL\_CURSOR variable was used in an INTO or WHERE clause. SQL\_CURSOR variables can be used only where ordinary cursor identifiers or, in a PL/SQL block, a cursor would normally be used.

**Action** Remove the SQL\_CURSOR variable reference from the INTO or WHERE clause, or use a host variable of another type in the INTO or WHERE clause.

**PCC-00138 Result Set Cursors are not implemented in this precompiler**

**Cause** There was an attempt to reference a host variable as a cursor reference. Cursor variables are not implemented in Pro\*Pascal or Pro\*PL/I.

**Action** Rewrite your host-language code to use standard SQL cursors.

**PCC-00140 CREATE FUNCTION/PROCEDURE/PACKAGE/TRIGGER are Oracle extensions**

**Cause** An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, one of the following statements was used:

- CREATE FUNCTION
- CREATE PROCEDURE
- CREATE PACKAGE
- CREATE TRIGGER

These statements are Oracle extensions to the ANSI/ISO SQL standards. This informational message is issued by the FIPS Flagger when FIPS=YES.

**Action** No action is required. However, for ANSI/ISO compliance, do not use any of these statements.

**PCC-00141 Thread Safety is not implemented in this precompiler**

**Cause** There has been an attempt to use CONTEXT sql statements. The thread safety feature is not implemented in PRO\*Pascal, Pro\*PL/I, or Pro\*C 1.x.

**Action** Rewrite your host-language code without using runtime contexts.

**PCC-00142 No EXEC SQL CONTEXT USE statement encountered**

**Cause** No EXEC SQL CONTEXT USE statement was encountered and the option THREADS=YES was requested.

**Action** Ensure that the necessary context variable (of type sql\_context) has been declared, ALLOCATED, and USED prior to any executable SQL statements.

**PCC–00143     Runtime context variable not of correct type**

**Cause**     The runtime context variable referenced in an EXEC SQL CONTEXT USE statement is not of type **sql\_context**.

**Action**     Declare your runtime context variable of type **sql\_context**.

**PCC–00144     UNSAFE\_NULL=YES allowed if MODE=ORACLE and DBMS=V7**

**Cause**     UNSAFE\_NULL=YES was specified on the command line, but either the MODE option was not ORACLE or the DBMS option was not V7.

**Action**     Specify MODE=ORACLE and DBMS=V7 when using UNSAFE\_NULL=YES.

**PCC–00145     This statement can only be used with THREADS=YES**

**Cause**     An EXEC SQL ENABLE THREADS or EXEC SQL CONTEXT statement was used with THREADS=NO specified when precompiling.

**Action**     Specify THREADS=YES when running the precompiler, or remove the EXEC ENABLE THREADS or EXEC SQL CONTEXT statement from the source code.

**PCC–01000     You are not authorized to run Pro\*COBOL**

**Cause**     The authorization or license to run the Pro\*COBOL Precompiler has expired.

**Action**     Call customer support for assistance.

**PCC–01001     Your Pro\*COBOL authorization is about to expire**

**Cause**     The authorization or license to run the Pro\*COBOL Precompiler is about to expire.

**Action**     Call customer support for assistance.

**PCC–01002     Invalid character *char* in indicator area at line *num* in file *name***

**Cause**     In a Pro\*COBOL Precompiler program, only a blank, hyphen (-), asterisk (\*), slash (/), or letter “D” is allowed in the indicator area, but the precompiler found another character.

**Action**     Remove or replace the invalid character. If the FORMAT=ANSI option is specified, check for an end-of-line in column 7.

**PCC–01003     Invalid continuation at line *num* in file *name***

**Cause**     In a Pro\*COBOL program, a continuation line was completely blank, except for the continuation character.

**Action**     Remove or replace the empty continuation line.

**PCC-01004 In an EXEC statement at end-of-file**

**Cause** In a Pro\*COBOL input file, the last EXEC statement was not terminated properly.

**Action** Terminate the last EXEC statement with an END-EXEC.

**PCC-01005 PROCEDURE DIVISION not found**

**Cause** The precompiler could not find the PROCEDURE DIVISION header in a Pro\*COBOL program. Some possible causes follow:

- A keyword in the header is missing or misspelled.
- There is an apostrophe in the REMARKS section (the precompiler mistook the apostrophe for the beginning of a string literal).
- There is an unterminated literal in the WORKING-STORAGE SECTION.
- The wrong value for the FORMAT option was specified.

**Action** Check that the PROCEDURE DIVISION header is in place and spelled correctly, that there is no apostrophe in the REMARKS section, that all literals in the WORKING-STORAGE SECTION are terminated, and that the right value for the FORMAT option is specified.

**PCC-01006 EXEC statement cannot begin in Area A at line *num* in file *name***

**Cause** In a Pro\*COBOL program, EXEC statements must begin in Area B, but the precompiler found a statement beginning in Area A.

**Action** Move the statement rightward so that it begins in Area B.

**PCC-01007 WORKING-STORAGE SECTION not found**

**Cause** The precompiler could not find the WORKING-STORAGE SECTION header in a Pro\*COBOL program, probably because a keyword is missing or misspelled, or the wrong value for the FORMAT option might have been specified.

**Action** Check that the WORKING-STORAGE SECTION header is in place and spelled correctly and that the right value for the FORMAT option is specified.

**PCC-01008 Multiple element records not allowed in Declare Section**

**Cause** A few COBOL compilers do not allow group items to be passed as parameters in a CALL statement. (Check the COBOL compiler user's guide.) If the compiler is one of these, group items within the Declare Section can contain only one elementary item.

**Action** Assign each host variable its own group item.



**PCC–01009 For HOST=COB74, a SQL statement must be followed by ELSE or “.”**

**Cause** In a Pro\*COBOL program, an EXEC SQL statement is followed by another statement in the same sentence. An EXEC SQL statement must be the last statement in a COBOL–74 sentence and so must be terminated by the keyword ELSE or a period.

**Action** Change the program logic, making the EXEC SQL statement the last statement in the sentence.

**PCC–01010 Invalid use of NULL character in character literal**

**Cause** A null character (binary zero) was found in a string literal. This is not allowed by Pro\*COBOL.

**Action** Remove the null character from the string literal.

**PCC–01011 USAGE IS BINARY clause must be terminated by “.” on same line**

**Cause** The period terminating the USAGE IS BINARY clause must be on the same line as the USAGE clause. This message only occurs on operating systems that support the COMP5=YES command line option of Pro\*COBOL, where COMP–5 is substituted for BINARY.

**Action** Check that the period terminating the USAGE IS BINARY clause is on the same line as the USAGE clause.

**PCC–01012 DATA DIVISION not found**

**Cause** The Pro\*COBOL precompiler did not find a DATA DIVISION in the input source file. Pro\*COBOL applications are required to have a DATA DIVISION.

**Action** Add a DATA DIVISION to the input source file.

**PCC–01013 Invalid use of PIC N array variable “*variable\_name*” at line *line\_number* in file *name***

**Cause** A PIC N variable was declared using an OCCURS clause. Tables of PIC N variables are not supported by the Pro\*COBOL precompiler.

**Action** Declare the PIC N variable without an OCCURS clause or, if the PIC N variable is not used in any SQL statements, declare it outside the Declare Section.

**PCC-01014    “VARYING” not supported with PIC N PICTURE clause**

**Cause** The keyword VARYING was used in a PIC N variable declaration.

**Action** Remove the keyword VARYING from the variable declaration. If you want to declare a PIC N VARCHAR variable, specify the precompiler option VARCHAR=YES and declare the variable as an implicit VARCHAR group item as illustrated by the following example:

```
EXEC SQL BEGIN DECLARE SECTION END-EXEC.
...
01  ENAME.
    05  ENAME-LEN  PIC S9(4) COMP.
    05  ENAME-ARR  PIC N(20).
...
EXEC SQL END DECLARE SECTION END-EXEC.
```

**PCC-01015    Cannot equivalence PIC N variable *name***

**Cause** A PIC N variable or an implicit VARCHAR group item (with a PIC N variable as an elementary item) was used in an EXEC SQL VAR statement. This is not allowed.

**Action** Do not use a PIC N variable in an EXEC SQL VAR statement. If you want an equivalence to an Oracle type using an EXEC SQL VAR statement, use a PIC X variable instead of a PIC N variable.

**PCC-01016    “N” character literals not supported in embedded PL/SQL**

**Cause** An “N” character literal was used within a PL/SQL block.

**Action** Remove the “N” character literal from the PL/SQL block.

**PCC-01100    You are not authorized to run Pro\*FORTRAN**

**Cause** The authorization or license to run the Pro\*FORTRAN Precompiler has expired.

**Action** Call customer support for assistance.

**PCC-01101    Your Pro\*FORTRAN authorization is about to expire**

**Cause** The authorization or license to run the Pro\*FORTRAN Precompiler is about to expire.

**Action** Call customer support for assistance.

**PCC–01102    Invalid label at line *num* in file *name***

**Cause**    The Pro\*FORTRAN Precompiler found an invalid FORTRAN statement label in columns 1 through 6.

**Action**    Correct or remove the statement label.

**PCC–01200    You are not authorized to run Pro\*C**

**Cause**    The authorization or license to run the Pro\*C Precompiler has expired.

**Action**    Call customer support for assistance.

**PCC–01201    Your Pro\*C authorization is about to expire**

**Cause**    The authorization or license to run the Pro\*C Precompiler is about to expire.

**Action**    Call customer support for assistance.

**PCC–01202    Identifier *ident* truncated to 31 characters**

**Cause**    A host identifier (the name of a host variable, for example) was truncated to the maximum length (31 characters) allowed by the precompiler.

**Action**    No action required. This message is just informational.

**PCC–01300    You are not authorized to run Pro\*PL/I**

**Cause**    The authorization or license to run the Pro\*PL/I Precompiler has expired.

**Action**    Call customer support for assistance.

**PCC–01301    Your Pro\*PL/I authorization is about to expire**

**Cause**    The authorization or license to run the Pro\*PL/I Precompiler is about to expire.

**Action**    Call customer support for assistance.

**PCC–01400    You are not authorized to run Pro\*Pascal**

**Cause**    The authorization or license to run the Pro\*Pascal Precompiler has expired.

**Action**    Call customer support for assistance.

**PCC–01401    Your Pro\*Pascal authorization is about to expire**

**Cause**    The authorization or license to run the Pro\*Pascal Precompiler is about to expire.

**Action**    Call customer support for assistance.

|                  |                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCC–01500</b> | <b>You are not authorized to run Pro*Ada</b>                                                                                                  |
| <b>Cause</b>     | The authorization or license to run the Pro*Ada Precompiler has expired.                                                                      |
| <b>Action</b>    | Call Oracle Customer Support for assistance.                                                                                                  |
| <b>PCC–01501</b> | <b>Your Pro*Ada authorization is about to expire</b>                                                                                          |
| <b>Cause</b>     | The authorization or license to run the Pro*Ada Precompiler is about to expire.                                                               |
| <b>Action</b>    | Call Oracle Customer Support for assistance.                                                                                                  |
| <b>PCC–01510</b> | <b>No package, procedure, or function statement seen in <i>name</i></b>                                                                       |
| <b>Cause</b>     | Every Ada source file must have a package, procedure, or function statement. The precompiler did not find one.                                |
| <b>Action</b>    | Add the appropriate statement(s) to the source file and rerun Pro*Ada.                                                                        |
| <b>PCC–01511</b> | <b>Identifier on line <i>num</i> in file <i>name</i> was too long for code generated in file <i>name</i></b>                                  |
| <b>Cause</b>     | An identifier used in the host program is of a length that causes precompiler-generated code to exceed the length limitation on source lines. |
| <b>Action</b>    | Use a shorter identifier or use the ORECLLEN option to increase the allowed line length.                                                      |
| <b>PCC–01512</b> | <b>Invalid EXEC SQL INCLUDE of file <i>name</i> found at line <i>num</i> in file <i>name</i></b>                                              |
| <b>Cause</b>     | The EXEC SQL INCLUDE statement is not allowed in Pro*Ada.                                                                                     |
| <b>Action</b>    | Embed required source text directly in the Pro*Ada file. Use the “with” context clause to include required packages.                          |
| <b>PCC–01513</b> | <b>FIPS warning: Unsupported datatype in line <i>num</i> of file <i>name</i></b>                                                              |
| <b>Cause</b>     | An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a host variable was declared with a non-ANSI/ISO standard type.      |
| <b>Action</b>    | No action required. However, for ANSI/ISO compliance, use only ANSI/ISO standard types.                                                       |

## 00001–01600: Oracle Precompiler, Version 1 Messages

**PCC–01515      FIPS warning: Undeclared host variable hostvar at line *num* in file *name***

**Cause**      An Oracle extension to the ANSI/ISO SQL standard was used. Specifically, a host variable was declared outside of a Declare Section.

**Action**      No action required. However, for ANSI/ISO compliance, declare the host variable within a Declare Section.

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**02010-02400: Oracle Precompiler, Release 2.0 Messages****PCC-02010 Found end-of-file while scanning string literal**

**Cause** A string in a SQL statement, which should be delimited by single quotation marks, was not terminated properly.

**Action** Check that all strings are delimited.

**PCC-02011 Found identifier greater than 128 characters (truncated)**

**Cause** The precompiler found an identifier that was too long.

**Action** Shorten the identifier. SQL identifiers should be limited to 18 characters.

**PCC-02012 Did not find a matching quote for CHAR constant**

**Cause** A character constant with a single quotation mark was not terminated.

**Action** Terminate the character constant.

**PCC-02013 Unknown escape sequence**

**Cause** The precompiler found an escape sequence that it could not process inside a string literal. This error can arise when multibyte character strings that can contain shift-in or shift-out escape sequences are used.

**Action** Correct the string representation.

**PCC-02014 Syntax error at line *num*, column *colnam*, file *name***

**Cause** The precompiler detected an error in C or embedded SQL syntax. This message is followed by a more specific error message.

**Action** Correct the syntax error.

**PCC-02015 Unable to open include file**

**Cause** The precompiler could not open a header file that was specified using the **#include** preprocessor directive or the EXEC SQL INCLUDE statement. This can happen if the file specification is inaccurate or if read permission or read access rights on the file or on one or more of the directories in the path were not granted.

**Action** Recheck that the file specification is correct, that the file exists, and that read permission have been granted so that the file can be read.

**PCC–02016    Include file pathname is too long**

**Cause**    The pathname for include files exceeded the maximum length of 80 characters.

**Action**    Move the include file, or create an environment variable or logical to shorten the pathname.

**PCC–02017    Unable to open output file**

**Cause**    The precompiler could not open an output file. This could be a generated code output file (.c file) or a listing file. This message can result from many causes. For example:

- A pathname for a specified output file contains a non-existent directory.
- An operating-system error occurred because the file system or disk is full.
- Write permission on the specified directory or directories in the path do not exist.

**Action**    Track down the cause of the error, as suggested above, and correct it.

**PCC–02018    Found end-of-file while scanning comment**

**Cause**    A C comment, either in C code or in an embedded SQL statement, was not terminated.

**Action**    Find the unterminated comment and terminate it with \*/.

**PCC–02019    Preprocessor warning at line *num*, column *colnam*, file *name***

**Cause**    This message indicates that a warning condition occurred as the precompiler was doing the preprocessor pass. A more specific warning message will follow this message.

**Action**    Correct the condition according to the action specified for the message that follows.

**PCC–02020    Preprocessor error at line *num*, column *colnam*, file *name***

**Cause**    This message indicates that an error condition occurred as the precompiler was in the preprocessing phase. A more specific error message will follow this message.

**Action**    Correct the error according to the action specified for the message that follows.

**PCC–02021    Found newline while scanning string literal**

**Cause**    A string constant contains a newline character. For example,

```
char x[] = "Hello
world";
```

**Action** Remove the newline character.

**PCC-02022 Found end of file while scanning a SQL statement**

**Cause** The precompiler encountered an end of file while parsing an exec sql statement.

**Action** Add the statement terminator(;) or complete the exec sql statement.

**PCC-02023 Found end of file while scanning a PL/SQL statement**

**Cause** The precompiler encountered an end of file while parsing a PL/SQL statement (EXEC SQL EXECUTE ...).

**Action** Complete the PL/SQL statement.

**PCC-02024 NCHAR literals are not permitted inside PL/SQL blocks**

**Cause** The precompiler found a multi-byte character string in an embedded PL/SQL statement. For example, the offending code might look like

```
EXEC SQL execute
      declare
          name char(10) := N'Matsuda';
      BEGIN
          ....
      END;
END-EXEC;
```

**Action** Remove multi-byte character string from the PL/SQL block or rewrite the declaration without using NLS\_CHAR.

**PCC-02025 NLS\_LOCAL should be TRUE when using NCHAR literals**

**Cause** The precompiler detected a multi-byte character host variable (NCHAR literal) when the option NLS\_LOCAL was not set to TRUE on the command line. When NLS\_LOCAL=TRUE, the runtime library (SLLIB) performs blank-padding and blank-stripping for host variables that are of multi-byte types.

**Action** Specify NLS\_LOCAL=TRUE on the command line.



**PCC–02035      CMD–LINE: CONFIG= option is invalid in a config file**

**Cause**      A user configuration file inside a user configuration file cannot be specified. That is, nested configuration files cannot be nested.

**Action**      If there are nested configuration files, move the options from the nested files to the top–level file.

**PCC–02040      CMD–LINE: Option selected, but no value provided**

**Cause**      An option on the command line was specified, but a value for it was not included. For example, the offending code might look like:

```
proc ina=sample1 oname=
```

could trigger this error message.

**Action**      Provide a value for the option.

**PCC–02041      CMD–LINE: Option does not exist:**

**Cause**      A non–existent option on the command line was specified.

**Action**      See the *Programmer’s Guide to the Oracle Precompilers* for a list of the valid command–line options and their possible values.

**PCC–02043      CMD–LINE: Option syntax is incorrect**

**Cause**      A value for a command–line option was incorrectly specified.

**Action**      See the *Programmer’s Guide to the Oracle Precompilers* for the correct syntax for specifying command–line option values.

**PCC–02044      CMD–LINE: Illegal or out of range value for option: *option string***

**Cause**      A value specified for a command–line option was not within the accepted range. For example, the range for the MAXOPENCURSORS option is 5 to 256. If a value outside this range is specified, this message is triggered.

**Action**      See the *Programmer’s Guide to the Oracle Precompilers* for the ranges that option values can take.

**PCC–02045      CMD–LINE: Option is not unique: *option name***

**Cause**      An option name was partially specified on the command line that made it non unique. For example, in the command line

```
proc in=t.pc
```

the “in” option can imply either the INAME or INCLUDE option.

**Action** Provide sufficient characters on the command line to make the option name unique.

**PCC-02046 CMD-LINE: Unable to open config file: *filename***

**Cause** A non-existent user configuration file was specified on the command line with the config option.

**Action** Provide a valid filename for the configuration file.

**PCC–02047      CMD–LINE: Option is not allowed inline: *option string***

**Cause**      An option was entered inline that can only be entered on the command line or in a configuration file. For example, the offending code might look like

```
EXEC ORACLE OPTION (NLS_CHAR=<name>);
```

The NLS\_CHAR option can only be entered on the command line or in a configuration file.

**Action**      Remove the option from the source file, and specify it on the command line.

**PCC–02066      CMD–LINE: Could not find or could not open system config file**

**Cause**      The system configuration file has a standard name (*pmscfg.h*) and a location that is operating–system dependent. On UNIX systems, it is located in the *\$ORACLE\_HOME/proc* directory. If a file named *pmscfg.h* is not found in the standard location, this warning message is issued.

**Action**      Create a system configuration file in the standard location. The file can be empty. See also the operating system–specific Oracle documentation.

**PCC–02100      Unable to initialize PL/SQL**

**Cause**      The precompiler connected to Oracle but could not invoke the PL/SQL engine. This error can result if an earlier release of Oracle7 is used without the Procedural Option

**Action**      To use PL/SQL, upgrade to a more recent release of Oracle7.

**PCC–02101      Unable to open input file**

**Cause**      The precompiler could not open the input file. This is the *.pc* file specified in the INAME= option. This means that the file does not exist, that a directory was incorrectly specified in the pathname, or that the person running the precompiler does not have read permission for the file.

This message could also result from operating–system errors. For example, an unmounted file system or disk I/O errors, could trigger this error.

**Action**      Check that permission to read the file exists and that the full pathname has been specified correctly. Check for operating system–specific problems. See also the operating system–specific Oracle documentation.

**PCC–02102      Fatal error while doing C preprocessing**

**Cause**      The precompiler issues this message after a more specific message.

**Action**      Correct the problem specified in the previous message or messages.

**PCC-02103 Please enter your password:**

**Cause** The username was specified on the command line without a password.  
For example:

```
proc sqlcheck=full iname=sample1.pc userid=scott/
```

**Action** Re-enter the command line, and include the password.

**PCC-02104 Unable to connect to Oracle**

**Cause** The precompiler could not connect to Oracle with the username, password, and, if applicable, database link that was supplied. Note that this is a precompiler message, not a run time message. This means that the USERID option value, either on the command line or in a configuration file, was incorrect.

**Action** Check that the username and password are current and correct. Run SQL\*DBA or SQL\*Plus and verify that connection can be made using that username and password.

**PCC-02105 Unable to open list file**

**Cause** The precompiler could not open the listing file. This message can result from many causes. For example:

- A pathname for a specified listing file contains a non-existent directory.
- An operating-system error occurred because the file system or disk is full.
- Write permission on the specified directory has not been granted.

**Action** Track down the cause of the error, as suggested above, and correct it.

**PCC-02106 Userid only used when SQLCHECK=FULL, userid ignored**

**Cause** The USERID option was specified on the command line, but SQLCHECK was not equal to FULL or SEMANTICS. The USERID has no effect, unless SQLCHECK=FULL or SQLCHECK=SEMANTICS.

**Action** This is a warning message only.

**PCC-02107    You may not specify PARSE = FULL when CODE = CPP**

**Cause**    The PARSE=FULL and CODE=CPP options were both specified on the command line. The PARSE=FULL option invokes the C parser, which does not understand any C++ constructs generated by the precompiler with CODE=CPP option.

**Action**    Set the PARSE option to either NONE or PARTIAL if the CODE=CPP option is specified.

**PCC-02108    UNSAFE\_NULL=YES allowed only if MODE=ORACLE and DBMS=V7 or V6\_CHAR**

**Cause**    UNSAFE\_NULL=YES was specified on the command line, but either the MODE option was not ORACLE or the DBMS option was not V7 or V6\_CHAR.

**Action**    Specify MODE=ORACLE and DBMS=V7 or V6\_CHAR when using UNSAFE\_NULL=YES.

**PCC-02109    SQLCHECK=NONE is not yet supported, using SYNTAX**

**Cause**    SQLCHECK=NONE was specified on the command line but is not supported in this release. SQLCHECK=SYNTAX was used instead.

**Action**    This is a warning message only. To avoid this warning, specify SQLCHECK=SYNTAX or SQLCHECK=SEMANTICS.

**PCC-02129    CMD-LINE: Client supplied static options table is invalid**

**Cause**    This is an internal error message not usually issued.

**Action**    Call Oracle customer support.

**PCC-02132    CMD-LINE: Could not allocate memory**

**Cause**    This is an internal error message not usually issued.

**Action**    Call Oracle customer support.

**PCC-02133    CMD-LINE: Error processing string function**

**Cause**    This is an internal error message not usually issued. It indicates that a C string function, such as *strcpy* or *strlen*, returned an error.

**Action**    Call Oracle customer support.

**PCC-02134      CMD-LINE: Null option supplied**

**Cause** A zero length option was specified on the command line.

**Action** Re-enter the command line with a valid option.

**PCC-02135      CMD-LINE: User asked for help**

**Cause** This is a final message that the precompiler issues when information about the command-line options has been requested. For example, if the command

proc ?

is issued to get a list of the current default values for the command-line options, this message appears at the end of the list.

**Action** No action required.

**PCC-02138      CMD-LINE: Internal consistency error**

**Cause** This is an internal message for program exceptions. An unexpected condition was encountered by the command-line processor and a consistency check failed. Some possible causes of this message include:

- invalid command-line options
- memory corruption

**Action** Report this error to Worldwide Support after gathering the following information:

- the events that led to the error
- the attempted operations that led to the error
- any unusual circumstances prior to this error

**PCC-02144      CMD-LINE: Blank characters are not allowed on either side of an equal sign (=)**

**Cause** An equal sign (=) was either immediately preceded or followed by a blank character.

**Action** Precompile your program again without blank characters on either side of any equal sign (=) on the command line.

**PCC-02200      Found unrecognized punctuation sequence**

**Cause** This error indicates that the precompiler parser encountered a badly-formed identifier or keyword

**Action** Correct the syntax.

**PCC–02201 Found syntax error**

**Cause** This general message precedes one or more specific messages that detail the nature of the error.

**Action** No action required. Correct the errors diagnosed in the following message(s).

**PCC–02202 No TYPEDEF name was given**

**Cause** The precompiler parser encountered a TYPEDEF statement that had no name after the type specification. For example

```
typedef int;
```

**Action** Correct the syntax.

**PCC–02203 Found end of file when not expected**

**Cause** The parser can emit this message when a general syntax error occurs, for example, an unmatched '{' or '('.

**Action** Correct the syntax.

**PCC–02204 EXEC SQL INCLUDE not permitted from within an included file**

**Cause** EXEC SQL INCLUDE statements cannot be nested. Also, an EXEC SQL INCLUDE statement cannot be put inside a file that is included using the **#include** preprocessor command.

**Action** Recode the program so that the nested include statement is not required.

**PCC–02205 Parser error at line *num*, column *colnam*, file *name***

**Cause** The precompiler parser encountered a syntax error, either in C code or in SQL code. A more specific message should follow.

**Action** No action required for this message. Take the appropriate action for any following messages.

**PCC-02206     Host variables are not permitted within a DDL statement**

**Cause** A Data Definition Language statement cannot use host variables. For example, the statement

```
CREATE TABLE :table_name (c1 char(10));
```

is illegal, because the name of the table in a CREATE TABLE statement cannot be represented using a host variable.

**Action** Use dynamic SQL to create the names of database objects (tables, views, columns, etc.) at runtime. See the *Programmer's Guide to the Oracle Precompilers* for information about dynamic SQL.

**PCC-02207     Invalid macro name**

**Cause** The precompiler parser encountered a #DEFINE directive that had no macro name associated with it. For example,

```
#define
```

**Action** Correct the syntax.

**PCC-02208     No filename specified in #include statement**

**Cause** The precompiler parser encountered a #INCLUDE directive that had no filename associated with it. For example,

```
#include
```

**Action** Specify appropriate filename with the #INCLUDE directive, or correct the syntax.

**PCC-02209     Macro invocation has incorrect number of arguments**

**Cause** A macro invocation in the source does not have the same number of arguments as the macro definition in the #DEFINE line.

**Action** Correct the macro reference or the macro definition.

**PCC-02210     C++ punctuation sequences are not permitted**

**Cause** C++ punctuation sequences are not supported by the Pro\*C/C++ precompiler.

**Action** Rewrite your C++ code without using punctuation sequences and precompile it again.



**PCC–02301    Cannot open input file for reading**

**Cause**    The semantic analysis phase of the precompiler could not re-open the input file to generate output code.

**Action**    Check that the input file and its directory's protections and privileges do not change during precompilation.

**PCC–02302    Cannot open code generation output file**

**Cause**    The precompiler was not able to open one or both of the temporary files that are required for code generation. The user executing the precompiler must have write permission (and/or the appropriate privileges) on the current directory.

**Action**    Check that permission exists to create files in the current directory.

**PCC–02303    Cannot open include file**

**Cause**    The precompiler was not able to open a header file specified using the #INCLUDE preprocessor directive or the EXEC SQL INCLUDE statement. This can happen if the file specification is inaccurate or if read permission or read-access rights on the file or on one or more of the directories in the path have not been granted.

**Action**    Recheck that the file specification is correct, that the file exists, and that read permission has been granted so that the file can be read.

**PCC–02304    Invalid declaration of C function**

**Cause**    A C function using invalid syntax was declared.

**Action**    Consult a C programming manual and correct the declaration.

**PCC–02305    Illegal mixing of new and old style C function declarations**

**Cause**    All C functions using either the traditional style (K&R style) function declarations or the new (ANSI) style must be declared; the two styles cannot be mixed.

**Action**    Adopt a consist declaration style for functions.

**PCC–02306    Illegal name of C function**

**Cause**    A C function was declared with a name that is not a legal C identifier.

**Action**    Use legal C identifiers for all function names.

**PCC-02307      Void can only be used when single parameter**

**Cause** A function can be declared or defined using the following syntax:

```
int func1(void)
```

to indicate that the function has no parameters. **void** can be used only once in this case.

**Action** Remove the extra **voids** in the function definition or declaration.

**PCC-02308      Identifier required in this function definition**

**Cause** A function definition written in ANSI C must have both the name and the type for all parameters.

**Action** Rewrite the function definition so that it contains the name of each parameter.

**PCC-02309      Illegal formal parameter declaration**

**Cause** A formal parameter in a function declaration was specified without giving its type.

**Action** Include the types of all parameters in function declarations.

**PCC-02310      Formal parameter VARCHARs must be declared as pointers**

**Cause** Many C compilers allow structures to be passed to and returned from functions. Although a VARCHAR is implemented as a C **struct**, VARCHARs must be passed to a function as pointers.

**Action** Take the address of a VARCHAR when it is passed to a function. See the example in the section “Referencing VARCHAR Variables” in the *Programmer’s Guide to the Oracle Precompilers*.

**PCC-02311      Cannot have VARCHAR bit fields**

**Cause** Host variables cannot contain bit fields.

**Action** Recode the application to remove the bit fields.

**PCC-02312      Arrays of VARCHAR greater than two dimensions not allowed**

**Cause** A VARCHAR array with more than two dimensions was declared. Multidimensional arrays are not supported as host variables.

**Action** Recode the application to remove multidimensional array usage.

**PCC–02313      Malformed VARCHAR declaration – missing length**

**Cause**      When a VARCHAR is declared, a length specification is mandatory. For example, the following VARCHAR declaration is meaningless, hence illegal:

```
VARCHAR v1[ ];
```

**Action**      Specify the length for each declared VARCHAR.

**PCC–02314      Cannot evaluate constant SIZEOF expression**

**Cause**      A SIZEOF operator was used where a precompiler expression was expected.

**Action**      Eliminate the SIZEOF operator.

**PCC–02315      Cannot evaluate expression as a constant.**

**Cause**      The specified expression does not evaluate to a constant. Such expressions are required, for example, as the length of a VARCHAR.

**Action**      Replace the expression with one that does evaluate to a constant integer

**PCC–02316      Illegal operator in constant expression**

**Cause**      A non–arithmetic operator was present in the expression.

**Action**      Rewrite the expression to eliminate the non–arithmetic operator.

**PCC–02317      Illegal cast type expression**

**Cause**      A illegal cast is present in the expression.

**Action**      Remove the illegal cast.

**PCC–02318      Missing type expression**

**Cause**      The specified expression is missing the declaration of a type.

**Action**      Specify a type for the expression.

**PCC–02319      Expression type does not match usage**

**Cause**      The type of a variable does not match its usage. For example, in dynamic SQL, a host variable containing the text of a SQL statement must be declared as a C character type or be equivalenced to the SQL type STRING.

**Action**      Remove the declaration.

|                  |                                                                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCC-02320</b> | <b>Arithmetic expression does not have correct operand types</b>                                                                                                                                                     |
| <b>Cause</b>     | The arithmetic expression must be specified with integral types.                                                                                                                                                     |
| <b>Action</b>    | Rewrite the expression using integral types.                                                                                                                                                                         |
| <b>PCC-02321</b> | <b>Only subtraction between two pointers is permitted</b>                                                                                                                                                            |
| <b>Cause</b>     | Pointer values cannot be added, multiplied, or divided.                                                                                                                                                              |
| <b>Action</b>    | Recode to avoid this error message.                                                                                                                                                                                  |
| <b>PCC-02322</b> | <b>Found undefined identifier</b>                                                                                                                                                                                    |
| <b>Cause</b>     | An identifier used in a SQL statement was not defined. For example, a cursor name was referenced that had not been declared, or in a DECLARE CURSOR statement, a statement name was used that had not been PREPARED. |
| <b>Action</b>    | Check that all SQL identifiers, such as cursor names and statement names, have been defined before use.                                                                                                              |
| <b>PCC-02326</b> | <b>Illegal structure reference operation</b>                                                                                                                                                                         |
| <b>Cause</b>     | A structure component using invalid syntax was referenced. For example, a -> operator was used instead of a required '.' operator.                                                                                   |
| <b>Action</b>    | Correct the invalid reference.                                                                                                                                                                                       |
| <b>PCC-02327</b> | <b>Struct or struct pointer required</b>                                                                                                                                                                             |
| <b>Cause</b>     | A scalar host variable was used in a context where a structure (or its pointer) is required.                                                                                                                         |
| <b>Action</b>    | Make the host variable a structure or add more scalar host variables to satisfy the SQL syntax requirements.                                                                                                         |
| <b>PCC-02328</b> | <b>Undefined struct member</b>                                                                                                                                                                                       |
| <b>Cause</b>     | A structure component was referenced that was not declared as part of the structure.                                                                                                                                 |
| <b>Action</b>    | Redefine the structure.                                                                                                                                                                                              |
| <b>PCC-02330</b> | <b>Expecting an expression of integer type</b>                                                                                                                                                                       |
| <b>Cause</b>     | The expression does not evaluate to an integer. For example, a SQL FOR expression must evaluate to an integral type.                                                                                                 |
| <b>Action</b>    | Rewrite the expression.                                                                                                                                                                                              |

**PCC–02331     Undefined SQL identifier**

**Cause** All SQL identifiers must be defined before they are used. This message can result when a CURSOR or STATEMENT is not declared (defined) before being referenced.

**Action** Define the identifier.

**PCC–02332     Attempted to redefine SQL identifier**

**Cause** A SQL identifier (such as a cursor name) can be defined only once.

**Action** Do not redefine the identifier. Use a different name.

**PCC–02333     SQL identifier was not declared as a statement**

**Cause** A SQL statement identifier was referenced in a DECLARE... CURSOR statement that was not PREPARED.

**Action** Check that all SQL statement names have been declared. Remember that SQL statement names are identifiers, not variables, and that they are local to the precompilation unit.

**PCC–02334     SQL identifier was not declared as a cursor**

**Cause** A cursor name was used in an OPEN, FETCH, or CLOSE statement that had not been DECLARED.

**Action** Check that all SQL cursor names have been declared. Remember that cursors are identifiers, not variables, and that they are local to the precompilation unit.

**PCC–02335     Body of cursor must name statement identifier**

**Cause** In a Dynamic SQL Method 4 application, the DECLARE... CURSOR statement must name a statement identifier that has been PREPARED in a preceding statement. The PREPARE statement must physically (not logically) precede the DECLARE command.

**Action** This error message is followed by another message that gives the line and column of the reference to the statement. Recode the application.

**PCC–02336     Host variable expression has invalid type**

**Cause** The host variable was declared using a C type that is not permitted as a host variable. See the *Programmer's Guide to the Oracle Precompilers* for a list of the permissible C types for host variables.

**Action** Use a permissible host variable type.

|                  |                                                                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCC-02337</b> | <b>Cannot declare multi-dimensioned array for this type</b>                                                                                                                                        |
| <b>Cause</b>     | Host variable arrays of scalars with more than 1 dimension cannot be declared.                                                                                                                     |
| <b>Action</b>    | Recode the application because this kind of host variable usage is not possible with database operations.                                                                                          |
| <b>PCC-02338</b> | <b>Structure contains a nested struct or union</b>                                                                                                                                                 |
| <b>Cause</b>     | A host structure was used that contained a <b>struct</b> or <b>union</b> . This usage is not legal for Pro*C Release 2.0.                                                                          |
| <b>Action</b>    | This error message is followed by another message that gives the line and column of the reference to the illegal <b>struct</b> . Redefine the structure.                                           |
| <b>PCC-02339</b> | <b>Host variables cannot be of union types</b>                                                                                                                                                     |
| <b>Cause</b>     | A C <b>union</b> as a host variable cannot be used.                                                                                                                                                |
| <b>Action</b>    | This error message is followed by another message that gives the line and column of the reference to the illegal <b>union</b> . Recode, using a <b>struct</b> or individual scalar host variables. |
| <b>PCC-02340</b> | <b>Structure contains a bit field</b>                                                                                                                                                              |
| <b>Cause</b>     | Bit fields are not allowed in host variables because they are meaningless for database DML operations.                                                                                             |
| <b>Action</b>    | This error message is followed by another message that gives the line and column of the reference to the offending host variable. Recode the application.                                          |
| <b>PCC-02341</b> | <b>Host variable has illegal type</b>                                                                                                                                                              |
| <b>Cause</b>     | A host variable cannot be declared using the <b>void</b> type.                                                                                                                                     |
| <b>Action</b>    | Rewrite the declaration, using a permissible host variable type.                                                                                                                                   |
| <b>PCC-02342</b> | <b>Using WHERE CURRENT OF on cursor defined without FOR UPDATE clause</b>                                                                                                                          |
| <b>Cause</b>     | When MODE=Oracle, a cursor defined with a WHERE CURRENT OF clause must also have a FOR UPDATE clause.                                                                                              |
| <b>Action</b>    | Rewrite the cursor definition.                                                                                                                                                                     |

**PCC–02343    Body of cursor must be a query expression**

**Cause**    A cursor definition must be a SELECT statement.

**Action**    Rewrite the cursor definition.

**PCC–02344    Host variable arrays must all be of equal size**

**Cause**    This is a warning message. If host arrays are not of equal size, the size of the smallest array is used.

**Action**    No action required.

**PCC–02345    SQLCHECK=SEMANTICS must be given when embedded PL/SQL blocks are used**

**Cause**    When a Pro\*C program contains embedded PL/SQL blocks, the program must be precompiled using the SQLCHECK=SEMANTICS option, specified either on the command line or in a configuration file.

**Action**    Use the SQLCHECK=SEMANTICS option. This also requires that the USERID connect option be given.

**PCC–02346    PL/SQL found semantic errors**

**Cause**    A database entity, such as a table or column name, was referenced, that does not exist. This is a compile time error, not a runtime error.

**Action**    Check that all referenced objects in PL/SQL statements actually exist and that the necessary access permission on them have been granted.

**PCC–02347    PL/SQL found syntax errors**

**Cause**    A PL/SQL statement was used illegally.

**Action**    Check the *PL/SQL User's Guide and Reference* for the correct syntax.

**PCC–02348    Indicators are not allowed in EXEC IAF statements**

**Cause**    Indicator variables associated with host variables cannot be used in EXEC IAF statements such as GET and PUT in a user exit.

**Action**    Eliminate the indicator variables. If feasible (for example with Forms V4), use EXEC TOOLS statements, which *do* allow indicator variables. See the *Programmer's Guide to the Oracle Precompilers* for more information of EXEC IAF and EXEC TOOLS statements.

**PCC-02349 Precision must be specified for this type**

**Cause** In a VAR or TYPE statement, certain Oracle types require that the precision be specified. For example, VARCHAR2 or CHAR.

**Action** Indicate the precision.

**PCC-02350 Cannot equivalence this SQL type**

**Cause** Datatype or variable equivalencing to the datatypes NUMBER or DECIMAL cannot be used. See the “Datatype Equivalencing” section in the *Programmer's Guide to the Oracle Precompilers* for more information.

**Action** Use the appropriate datatype for the application.

**PCC-02351 Illegal datatype equivalencing operation**

**Cause** The datatype specified could not be equivalenced, or the syntax was incorrect in the VAR or TYPE statement.

**Action** See the *Programmer's Guide to the Oracle Precompilers* for a list of the datatypes that can be equivalenced and the correct syntax of the VAR or TYPE statement.

**PCC-02352 Out of bounds bind position from PL/SQL**

**Cause** This is an internal error.

**Action** Call Oracle customer support for assistance.

**PCC-02353 Semantic error at line *num*, column *colnam*, file *name***

**Cause** This error message precedes a more specific error message.

**Action** No action required. Correct the error(s) reported in the following message(s).

**PCC-02354 A file included with #INCLUDE cannot contain SQL statements**

**Cause** The Pro\*C Precompiler reads header files referenced in #INCLUDE directives and uses the values defined in them. But the precompiler never generates code using statements in header files, so use of SQL statements in these files is illegal.

**Action** Move the SQL statement(s) into the main body of the application or use EXEC SQL INCLUDE to check that the included file is precompiled.



**PCC–02355 Invalid or obsolete option, ignored**

**Cause** A command–line option that is not used in Pro\*C Release 2.0 was specified. For example, the option AREASIZE is no longer valid with precompilers used with the Oracle7 Server.

**Action** No action required. This is an informational message.

**PCC–02356 Warning at line *num*, column *colnam*, file *name***

**Cause** This is a generic warning message. It precedes a more specific warning.

**Action** No action required. Correct the error(s) indicated in the following messages.

**PCC–02357 Function calls may not be used as host variable expressions**

**Cause** Only objects that are *lvalues* (that resolve to an address) can be host variables. Because a function *call* is not an lvalue, one cannot be used in place of a host variable.

**Action** Recode the application.

**PCC–02358 Identifier following ARRAYLEN must be the name of an array**

**Cause** A declared array must be specified as the argument for an ARRAYLEN statement. Declare the array textually *before* the ARRAYLEN statement. See the *Programmer's Guide to the Oracle Precompilers* for the syntax of the ARRAYLEN statement.

**Action** Correct the statement, specifying a host array as the argument.

**PCC–02359 Identifier specifying ARRAYLEN dimension must be an integer**

**Cause** The expression that specifies the ARRAYLEN dimension must evaluate to an integer. For example, the statement

```
EXEC SQL ARRAYLEN my_array(1.3)
```

cannot be parsed.

**Action** Correct the statement, using an integral dimension.

**PCC–02360 This array type is invalid for use with ARRAYLEN statement**

**Cause** Arrays of some host variables types are not allowed and hence also cannot be used in ARRAYLEN statements. VARCHAR is an example.

**Action** Specify an array with a datatype that can be used in host arrays.

- PCC-02361    Use of ARRAYLEN with SQL host arrays is ignored**
- Cause**    ARRAYLEN is only valid with arrays that can be bound in PL/SQL blocks.
- Action**    Use an appropriate array type.
- 
- PCC-02362    Host variable not declared within SQL Declare Section**
- Cause**    When MODE=ANSI is specified at precompile time, all host variables must be declared inside Declare Sections. Remember that MODE=ANSI refers to ANSI SQL, not ANSI C.
- Action**    Add the EXEC SQL BEGIN DECLARE SECTION... EXEC SQL END DECLARE SECTION statements around all host variable declarations.
- 
- PCC-02363    Indicator variable must be a structure**
- Cause**    If the host variable is a structure, the associated indicator variable must also be a structure.
- Action**    Recode the application.
- 
- PCC-02364    Host structure and its indicator must have the same number of fields**
- Cause**    When a structure containing indicator variables is declared and associated with a host structure, the indicator structure must contain the same number of fields as the host structure. This is so even when some of the indicators will not be used or even when it would not make sense to do so (for fields constrained as NON NULL, for example).
- Action**    Redeclare the indicator structure.
- 
- PCC-02365    Host and its indicator variable must have the same array dimensions**
- Cause**    When associating an array of indicators with a host array, it is good practice to make the indicator array the same length as the host array. It should never be shorter.
- Action**    This is a warning message. The smallest array size will determine the number of items fetched, inserted, or updated.
- 
- PCC-02366    Command line argument MODE=ANSI may not be used with DBMS=V6**
- Cause**    The semantics of certain operations (such as character comparison) in Oracle Version 6 are not 100% compliant with the ANSI/ISO SQL standards. When V6 semantics are requested, using the DBMS=V6 or DBMS=V6\_CHAR option, precompilation with MODE=ANSI is not permitted.
- Action**    Do not use ANSI mode with the V6 options.

**PCC–02367     Indicator variables must be declared as type short**

**Cause**     The only C type allowed for indicator variables is **short**. An array of indicator variables must be an array of **shorts**.

**Action**     Redeclare the indicator variables and/or indicator arrays.

**PCC–02368     An EXEC TOOLS host variable context name is not type char**

**Cause**     If a host variable is used to define a context name in an EXEC TOOLS GET CONTEXT or EXEC TOOLS SET CONTEXT statement, the host variable must be a character type.

**Action**     Redeclare the context name host variable.

**PCC–02369     An EXEC TOOLS host pointer variable is not a pointer**

**Cause**     The host variable specifying an EXEC TOOLS context must be a pointer type

**Action**     Redeclare the variable, making sure that it is a pointer.

**PCC–02370     An EXEC TOOLS message host variable is not type char**

**Cause**     If a host variable is used to define a context name in an EXEC TOOLS GET CONTEXT or EXEC TOOLS SET CONTEXT statement, the host variable must be a character type.

**Action**     Redeclare the context name host variable.

**PCC–02371     Illegal FOR clause**

**Cause**     The argument of a FOR clause must be specified as an integer or as an identifier containing an integer.

**Action**     Rewrite the FOR clause.

**PCC–02372     FOR clause not allowed in a SELECT statement**

**Cause**     A SQL statement containing a SELECT command cannot contain a FOR clause. The meaning of such a statement would be unclear.

**Action**     Rephrase the SELECT statement, removing the FOR clause.

**PCC-02373 Invalid declaration in EXEC SQL DECLARE section**

**Cause** An improper declaration was placed in a Declare Section. This message is usually caused by including an EXEC SQL TYPE or EXEC SQL VAR declaration in a Declare Section.

**Action** Move the declaration outside the Declare Section.

**PCC-02374 SQLCHECK value exceeds command line value**

**Cause** The value assigned to the SQLCHECK option in an EXEC Oracle statement in a program was greater than the value given either on the command line or greater than the default value if no SQLCHECK option was given on the command line.

The order of the option values is SEMANTICS > SYNTAX > NONE.

When this warning message is issued, the original value of SQLCHECK (the default or the command-line value) stays in effect.

**Action** Remove or recode the EXEC Oracle option(s) in the *.pc* source file to avoid this warning message.

**PCC-02375 SQL statement found outside the body of a function**

**Cause** A SQL statement other than a declarative, datatype equivalence or WHENEVER statement was found outside the body of a function when PARSE=FULL.

**Action** Move the SQL statement inside the body of a function.

**PCC-02376 You may not declare SQLCODE when DEF\_SQLCODE = TRUE**

**Cause** The DEF\_SQLCODE option may not be specified if a SQLCODE declaration already explicitly appears in the program.

**Action** Remove the SQLCODE declaration from the program or specify DEF\_SQLCODE=NO (the default).

**PCC-02377 Arrays of implicit VARCHARs are not permitted**

**Cause** An array of implicit VARCHARs was declared when HOST\_VARCHAR=TRUE.

**Action** Rewrite the implicit VARCHAR declaration without using arrays.

**PCC–02378    Invalid type for National Language character variable**

**Cause**    A variable declared as a National Language character using the NLS\_CHAR option was not declared as a char or implicit VARCHAR.

**Action**    Declare the variable as a char or implicit VARCHAR or do not specify using the NLS\_CHAR option.

**PCC–02379    Cannot equivalence National Language character variables**

**Cause**    A National Language character variable (specified using the NLS\_CHAR option) has undergone datatype equivalencing using either the EXEC SQL VAR or TYPE statements.

**Action**    Do not equivalence National Language character variables.

**PCC–02380    NLS\_LOCAL should be TRUE when using NLS\_CHAR**

**Cause**    NLS\_CHAR was used to specify National Language character variables without specifying NLS\_LOCAL=TRUE.

**Action**    Specify NLS\_LOCAL=TRUE. Note that in future releases, this will no longer apply.

**PCC–02381    Cannot use National Language character variables inside PL/SQL**

**Cause**    A variable or fixed length National Language character variable was used in an embedded PL/SQL block.

**Action**    Remove the variable from the block or use another one having a legal bind type.

**PCC–02382    You must specify MODE = ANSI when using NLS\_CHAR**

**Cause**    NLS\_CHAR was used to specify NLS multi-byte character variables without specifying MODE=ANSI.

**Action**    Specify MODE=ANSI on the command line.

**PCC–02383    Arrays of National Language variables are not permitted**

**Cause**    A variable used as a bind or define variable declared using NLS\_CHAR was declared as an array of National Language character strings.

**Action**    Rewrite the declaration without using arrays or choose not to specify using NLS\_CHAR.

**PCC-02384 Missing array length specifier**

**Cause** An array declaration was given without an array length specifier.

**Action** Provide the length for the array declaration.

**PCC-02385 You may not specify DBMS = V6\_CHAR when using NLS\_CHAR**

**Cause** The DBMS=V6\_CHAR option was specified on the command line while indicating which host variables are to be treated by the precompiler as NLS multi-byte character variables. A multi-byte character string must be null-terminated, but if the DBMS=V6\_CHAR option is specified, the precompiler pads the character arrays with blanks up to the length of the array without the null-terminator.

**Action** Remove the DBMS=V6\_CHAR option from the command line.

**PCC-02386 Use of the AT clause is not permitted here**

**Cause** An explicit AT clause was used with an ALLOCATE statement or a FETCH/CLOSE statement also using a SQL\_CURSOR declaration.

**Action** Remove the AT clause.

**PCC-02387 Expecting an expression of type sql\_cursor**

**Cause** A host bind variable was used in an ALLOCATE, FETCH or CLOSE statement that was not declared as a result set **sql\_cursor**.

**Action** Declare the variable to be of type **sql\_cursor**.

**PCC-02388 Arrays not allowed in FROM/WHERE clause of SELECT statement**

**Cause** A host array was used in the WHERE clause of a SELECT-INTO statement.

**Action** Rewrite the SELECT statement without using arrays or use a cursor.

**PCC-02389 Arrays not allowed as input bind variables in SELECT list**

**Cause** A host array was used in the SELECT list of a SELECT-INTO statement.

**Action** Rewrite the SELECT statement without using arrays in SELECT list.

**PCC–02390    No EXEC SQL CONTEXT USE statement encountered**

**Cause**    No EXEC SQL CONTEXT USE statement was encountered and the option THREADS=YES was requested.

**Action**    Ensure that the necessary context variable (of type **sql\_context**) has been declared and that has been ALLOCATED and USED prior to any executable SQL statements.

**Note:** This error is only detected by Pro\*C/C++ (beginning with release 2.2) and only if PARSE=FULL.

**PCC–02391    Runtime context variable not of correct type**

**Cause**    The runtime context variable referenced in an EXEC SQL CONTEXT USE statement is not of type SQL\_CONTEXT.

**Action**    Declare your runtime context to be of type SQL\_CONTEXT.

**PCC–02392    You are already in an EXEC SQL DECLARE SECTION**

**Cause**    A SQL DECLARE SECTION appears nested inside another one.

**Action**    Do not nest DECLARE SECTIONS. Remove any nested inner ones.

**PCC–02393    SQL statement found inside an EXEC SQL DECLARE SECTION**

**Cause**    An executable SQL statement appears inside a DECLARE SECTION.

**Action**    Move the SQL statement into the body of a function.

**PCC–02394    Input file name and output filename are identical**

**Cause**    The values of INAME and ONAME are the same, or the default output filename is the same as that specified by ONAME.

**Action**    Use ONAME to specify a different filename for the output file.

**PCC–02395    A VARCHAR cannot be declared in file *filename*, which is included using #include**

**Cause**    A declaration for a VARCHAR host variable was found in a file that was included using the **#include** preprocessor directive.

**Action**    Use an EXEC SQL INCLUDE statement if you need to include a file that declares a VARCHAR host variable.

---

**02100–02139: Oracle Runtime Library SQL Messages**

The following error messages might be issued at run time by SQLLIB, the Oracle runtime library.

**SQL-02100 Out of memory (i.e., could not allocate)**

**Cause** SQLLIB was unable to allocate enough memory to execute the program.

**Action** Allocate more memory to the user session, then rerun the program. If the error persists, call customer support for assistance.

**SQL-02101 Inconsistent cursor cache. Unit cursor/global cursor mismatch**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02102 Inconsistent cursor cache. No global cursor entry**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02103 Inconsistent cursor cache. Out of range cursor cache reference**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02104 Inconsistent host cache. No cursor cache available**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02105 Inconsistent cursor cache. Global cursor not found**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.



**SQL-02106     Inconsistent cursor cache. Invalid Oracle cursor number**

**Cause**     This internal error typically indicates a memory-related error.

**Action**     Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02107     Program too old for runtime library; please re-compile it**

**Cause**     The program was precompiled by an older version of the Oracle Precompilers, which is incompatible with this release of SQLLIB.

**Action**     Precompile the program with a newer version of the Oracle Precompilers.

**SQL-02108     Invalid descriptor passed to run-time library**

**Cause**     This internal error typically indicates a memory-related error.

**Action**     Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02109     Inconsistent host cache. Host reference is out of range**

**Cause**     This internal error typically indicates a memory-related error.

**Action**     Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02110     Inconsistent host cache. Invalid host cache entry type**

**Cause**     This internal error typically indicates a memory-related error.

**Action**     Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02111     Heap consistency error**

**Cause**     This internal error typically indicates a memory-related error.

**Action**     Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL-02112     SELECT ... INTO returns too many rows**

**Cause** A SELECT ... INTO statement returned more rows than can be stored in the host variable provided.

**Action** There are three possible solutions:

- Use the precompiler option SELECT\_ERROR=NO.
- Declare a host variable with a larger array dimension.
- Declare a cursor or cursor variable for the select statement.

**SQL-02113     Unable to open message file**

**Cause** SQLLIB was unable to find or open the file, *ora\_sqllib:sqlli\*.msb*.

**Action** Check that *ora\_sqllib* is properly defined, and that a *sqlli\*.msb* file exists and is readable.

**SQL-02114     Invalid SQL Cursor usage: trying to CLOSE a CLOSED cursor**

**Cause** An attempt was made to CLOSE a cursor that was already CLOSED with MODE={ANSI|ANSI14}. A CLOSED cursor can be re-CLOSEd only when MODE={ORACLE|ANSI13}.

**Action** When MODE={ANSI|ANSI14}, verify that a cursor is not already CLOSED before trying to CLOSE it. Specify MODE={ORACLE|ANSI13} if a CLOSED cursor is to be re-CLOSEd.

**SQL-02115     Code interpretation problem -- check COMMON\_NAME usage**

**Cause** With Pro\*FORTRAN, this error occurs if the precompiler option COMMON\_NAME is specified incorrectly. With other Oracle Precompilers, this error occurs when the precompiler cannot generate a segment of code.

**Action** With Pro\*FORTRAN, when using COMMON\_NAME to precompile two or more source modules, make sure to specify a different common name for each module. With other Oracle Precompilers, if the error persists, call customer support for assistance.

**SQL-02116     FATAL ERROR: Reentrant code generator gave invalid context**

**Cause** This internal error typically indicates a memory-related error.

**Action** Check the program for memory-related errors, such as invalid pointers or array-bounds violations.

**SQL–02117 Invalid SQL Cursor usage: trying to OPEN an OPENed cursor**

**Cause** An attempt was made to OPEN an cursor that was already OPENed with MODE={ANSI|ANSI14|ANSI13}. An open cursor can be re–OPENed only when MODE=ORACLE.

**Action** When MODE={ANSI|ANSI14|ANSI13}, verify that a cursor is not already OPEN before trying to OPEN it. Specify MODE=ORACLE if an OPENed cursor is to be re–OPENed to avoid reparsing.

**SQL–02118 Invalid row for a WHERE CURRENT OF operation**

**Cause** An attempt was made to reference a nonexistent row using the CURRENT OF clause in an UPDATE or DELETE statement. This happens when no FETCH has been executed or when FETCH returns a “no data found” error that the program fails to trap.

**Action** Check that the last cursor operation succeeded and that the current row of the cursor is valid. The outcome of a cursor operation can be checked in two ways: implicit checking with the WHENEVER statement or explicit checking of SQLCODE in the SQLCA.

**SQL–02119 Invalid HSTDEF argument**

**Cause** A non–null pointer was given for an HSTDEF as the second argument to a SQLRCN call when the first argument was also used. Either the first or the second argument to SQLRCN must be null.

**Action** Pass a null pointer in either the first or second argument to SQLRCN.

**SQL–02120 First and second arguments to SQLRCN both null**

**Cause** Both the first and second arguments to SQLRCN were null. An HSTDEF must be passed into SQLRCN in the form of either an OCI LDA (first argument) or as an HSTDEF pointer itself (second argument).

**Action** Pass either an OCI LDA or a HSTDEF, but not both.

**SQL–02121 Invalid host name**

**Cause** The host name passed into a SQLFCN call was not used in a previous call to SQLRCN.

**Action** Use the same identifier used in the corresponding SQLRCN call.

**SQL-02122 Invalid OPEN or PREPARE for this database connection**

**Cause** An attempt was made to execute an OPEN or PREPARE statement using a cursor that is currently open for another database connection and, therefore, cannot be used for this connection.

**Action** Close the cursor to make it available for this connection or use a different cursor for this connection.

**SQL-02123 Context referenced in EXEC TOOLS GET CONTEXT statement not found**

**Cause** The context name given in the EXEC TOOLS GET CONTEXT statement was never stored with an EXEC TOOLS SET CONTEXT statement.

**Action** Use the EXEC TOOLS SET CONTEXT statement to save any contexts to be retrieved later.

**SQL-02124 NULL value returned by EXEC TOOLS statement**

**Cause** An EXEC TOOLS statement returned a null to a host variable that lacks an indicator variable. This error occurs only when MODE=ANSI. When MODE=ORACLE, although the value of the host variable is indeterminate, no error is generated.

**Action** Associate an indicator variable with each host variable to which nulls might be returned.

**SQL-02125 Connect error, can't get error text**

**Cause** No connection (not even to the default host) was available, so SQLLIB could not get the message text for the Oracle error that occurred. However, SQLLIB returns the Oracle error number, which can be used to look up the message.

**Action** Lookup up the appropriate message in *Oracle7 Server Messages* and follow the Cause and Action information provided.

**SQL-02126 Number of array elements cannot be negative (i.e. < 0)**

**Cause** The precompiler found a negative number of array elements in the N or F variable of the SQLDA (SQL Descriptor Area, which is used with dynamic SQL Method 4). Before executing the DESCRIBE statement, N must be set to the dimension of the descriptor arrays. After executing the DESCRIBE statement, N must be reset to the actual number of variables DESCRIBED, which is stored in the F variable.

**Action** Check that the N and F variables are set to non-negative values.

**SQL-02127    Precompiler/SQLLIB version mismatch**

**Cause**    The program was linked to an older version of SQLLIB, which is incompatible with this release of the Oracle Precompilers.

**Action**    Relink the program with the appropriate version of SQLLIB.

**SQL-02128    Sessions still exist, not logged off**

**Cause**    A host was not removed (“logged off”) from SQLLIB because XA still has sessions associated with that host.

**Action**    Before calling SQLXDH to drop a host, XA must either drop all sessions for that host or set the *doit\_anyway* flag.

**SQL-02129    FETCHed number of bytes is odd**

**Cause**    The program tried to FETCH an invalid column value into a multi-byte NLS host variable. Specifically, the column did not contain valid double-byte data.

**Action**    Make sure the column contains only double-byte data. To verify this, use SQL\*Plus or Server Manager.

**SQL-02130    EXEC TOOLS interface is not available**

**Cause**    An attempt was made to link with a version of an Oracle tool that does not support the EXEC TOOLS interface.

**Action**    Either upgrade the Oracle tool, or use the EXEC IAF interface.

**SQL-02131    Runtime context in use**

**Cause**    Your application attempted to execute a SQL statement using a runtime context that is already in use.

**Action**    Rewrite the application either to wait for one thread to complete before executing another SQL statement with the same runtime context, or to allocate and use a separate runtime context for each thread.

**SQL-02132    Unable to allocate runtime context**

**Cause**    An attempt to allocate a runtime context failed.

**Action**    This error typically occurs when the process memory is low. Allocate more memory and run the application again.

**SQL-02133    Unable to initialize process for use with threads**

**Cause**    This is an internal error.

**Action**    Call customer support.

**SQL-02134    Invalid runtime context**

**Cause**    The runtime context associated with an executable SQL statement was not properly allocated.

**Action**    Rewrite your application to execute the EXEC SQL CONTEXT ALLOCATE statement before executing any SQL statements.

**00250–00300: PCF FIPS Messages**

This section contains messages that are generated when you specify the precompiler command–line option FIPS=YES and use an Oracle extension to the ANSI/ISO embedded SQL standard. If you wish your code to comply with the standard, do not use the Oracle extension described in the message.

|                  |                                                |
|------------------|------------------------------------------------|
| <b>PCF–00251</b> | <b>SQLCODE is a deprecated feature</b>         |
| <b>PCF–00252</b> | <b>use of the C preprocessor within SQL</b>    |
| <b>PCF–00253</b> | <b>use of the AT clause</b>                    |
| <b>PCF–00254</b> | <b>use of the FOR clause</b>                   |
| <b>PCF–00255</b> | <b>use of the CONNECT statement</b>            |
| <b>PCF–00256</b> | <b>SQLCODE returns non–standard values</b>     |
| <b>PCF–00257</b> | <b>keyword WORK required after COMMIT</b>      |
| <b>PCF–00258</b> | <b>keyword WORK required after ROLLBACK</b>    |
| <b>PCF–00259</b> | <b>use of RELEASE clause</b>                   |
| <b>PCF–00260</b> | <b>use of dynamic SQL</b>                      |
| <b>PCF–00261</b> | <b>use of PL/SQL</b>                           |
| <b>PCF–00262</b> | <b>use of SQLWARN within WHENEVER clause</b>   |
| <b>PCF–00263</b> | <b>use of NOTFOUND within WHENEVER clause</b>  |
| <b>PCF–00264</b> | <b>use of NOT FOUND within WHENEVER clause</b> |
| <b>PCF–00265</b> | <b>use of STOP within WHENEVER clause</b>      |
| <b>PCF–00266</b> | <b>use of RAISE within WHENEVER clause</b>     |

|                  |                                          |
|------------------|------------------------------------------|
| <b>PCF-00267</b> | <b>use of DO within WHENEVER clause</b>  |
| <b>PCF-00268</b> | <b>use of DECLARE TABLE statement</b>    |
| <b>PCF-00269</b> | <b>use of DECLARE DATABASE statement</b> |
| <b>PCF-00270</b> | <b>use of EXEC SQL INCLUDE</b>           |
| <b>PCF-00271</b> | <b>use of EXEC SQL TYPE</b>              |
| <b>PCF-00272</b> | <b>use of SQL FORMS statement</b>        |
| <b>PCF-00273</b> | <b>use of EXEC ORACLE statement</b>      |
| <b>PCF-00274</b> | <b>invalid datatype</b>                  |
| <b>PCF-00275</b> | <b>use of DROP TABLE statement</b>       |
| <b>PCF-00276</b> | <b>use of non-ANSI function</b>          |
| <b>PCF-00277</b> | <b>use of non-ANSI function</b>          |
| <b>PCF-00278</b> | <b>use of the ALLOCATE statement</b>     |





# SQL\*DBA Messages

**T**his chapter lists messages generated by SQL\*DBA. The likely cause(s) of the event(s) generating the message and recommended corrective action are also presented.

The messages listed in this chapter are displayed with the prefix DBA, signifying SQL\*DBA, or LCC, signifying the command line. Refer to *Oracle7 Server Utilities* for more information on, and syntax for, SQL\*DBA.

**00001–00199: SQL\*DBA Messages**

**DBA–00072     warning: *name* created with compilation errors**

**Cause**     The package, package body, procedure, or function could not be created because there were code errors.

**Action**    Enter the SHOW ERRORS command and correct the listed compilation errors.

**DBA–00073     warning: *name* created with compilation errors**

**Cause**     The package, package body, procedure, or function could not be created because there were code errors.

**Action**    Enter the SHOW ERRORS command and correct the listed compilation errors.

**DBA–00100     invalid SPOOL filename**

**Cause**     When using the SPOOL command, the name of a file that already exists was specified.

**Action**    Specify a valid name for a file that does not currently exist.

**DBA–00101     extraneous text at end of command**

**Cause**     There were unrecognized commands or other text on the command line.

**Action**    Check the syntax of the command and issue the command again.

**DBA–00102     missing LOG keyword**

**Cause**     The LOG keyword was missing from the ARCHIVE LOG command.

**Action**    Check the syntax of the command and issue the command again.

**DBA–00103     illegal ARCHIVE LOG option**

**Cause**     An option specified was not LIST, STOP, START, NEXT, ALL, a number, or a filename in the ARCHIVE LOG command.

**Action**    Check the syntax of the command and issue the command again.

**DBA–00104     illegal RECOVER option**

**Cause**     An option specified was not DATABASE, MANUAL, UNTIL, TABLESPACE, or DATAFILE in the RECOVER command.

**Action**    Check the syntax of the command and issue the command again.

**DBA-00105    invalid INSTANCE name**

**Cause**    An invalid SQL\*Net CONNECT string was specified for the instance name.

**Action**    Refer to the SQL\*Net documentation for a complete description of SQL\*Net CONNECT strings.

**DBA-00106    invalid ECHO switch**

**Cause**    An invalid option for the SET ECHO command was specified.

**Action**    Use either ON or OFF as an option for the SET ECHO command.

**DBA-00107    invalid TERMOUT switch**

**Cause**    An invalid option for the SET TERMOUT command was specified.

**Action**    Use either ON or OFF as an option for the SET TERMOUT command.

**DBA-00108    invalid TIMING switch**

**Cause**    An invalid option for the SET TIMING command was specified.

**Action**    Use either ON or OFF as an option for the SET TIMING command.

**DBA-00109    invalid CYCLE value**

**Cause**    An invalid value for the SET CYCLE command was specified.

**Action**    The SET CYCLE command must use an integer between 1 and 3600.

**DBA-00110    illegal SET option**

**Cause**    An invalid option for the SET command was specified.

**Action**    Check the syntax of the SET command in *Oracle7 Server Utilities* and issue the command again.

**DBA-00111    illegal SHOW option**

**Cause**    An invalid option for the SHOW command was specified.

**Action**    Check the syntax of the SHOW command in *Oracle7 Server Utilities* and issue the command again.

**DBA-00113    invalid PFILE name**

**Cause**    The specified PFILE name is not recognized.

**Action**    Specify a legal PFILE name.

**DBA–00114    invalid database name**

**Cause**    The specified database name is not recognized.

**Action**    Specify a legal database name.

**DBA–00115    unexpected end of command**

**Cause**    An option was specified without any arguments. For example:

`SQLDBA> STARTUP OPEN PFILE`

**Action**    Check the syntax of the command and enter the command again with the appropriate arguments for options that require values.

**DBA–00116    illegal SHUTDOWN option**

**Cause**    An option was specified that was not NORMAL, IMMEDIATE, or ABORT for the SHUTDOWN command.

**Action**    Check the syntax of the command and issue the command again.

**DBA–00117    invalid tablespace name**

**Cause**    The specified tablespace name was not recognized.

**Action**    Specify a legal tablespace name.

**DBA–00118    invalid process identifier or invalid statistics class**

**Cause**    Something other than a number for a process identifier, or an invalid class was specified after the MONITOR STATISTICS command.

**Action**    Specify only numbers as process identifiers or specify a valid class for the MONITOR STATISTICS command.

**DBA–00119    illegal STARTUP option**

**Cause**    An option was specified that was not DBA, PFILE, EXCLUSIVE, SHARED, MOUNT, OPEN, RECOVER, or NOMOUNT for the STARTUP command.

**Action**    Check the syntax of the command and issue the command again.

**DBA–00120    invalid STOPONERROR switch**

**Cause**    An invalid option was specified for the SET STOPONERROR command.

**Action**    Use either ON or OFF as an option for the SET STOPONERROR command.

**DBA-00121    illegal MONITOR option**

**Cause** An illegal option was specified for the MONITOR command.

**Action** Check the syntax of the MONITOR command in *Oracle7 Server Utilities* and issue the command again.

**DBA-00122    invalid SET numeric parameter**

**Cause** A character or an invalid value was specified when a number was expected as a value for a SET command option.

**Action** Check the syntax of the command, use an appropriate number for the option, and enter the command again.

**DBA-00123    invalid tablespace name list**

**Cause** An invalid string was specified as one of the values in the list of tablespaces in the ARCHIVE LOG command. For example, ''' is an invalid string.

**Action** Check the syntax of the command, use valid tablespace names for all names in the list, and enter the command again.

**DBA-00124    invalid ARCHIVE destination**

**Cause** The specified ARCHIVE destination was not recognized.

**Action** Specify a legal ARCHIVE destination.

**DBA-00125    integer value overflow**

**Cause** A numeric value was specified that was too large.

**Action** Use a smaller number.

**DBA-00126    invalid VERIFY switch**

**Cause** The VERIFY switch was not recognized.

**Action** Specify a legal VERIFY switch.

**DBA-00127    invalid combination of STARTUP options**

**Cause** The specified options of the STARTUP command cannot be used simultaneously. For example, the following command is not valid:

```
SQLDBA> STARTUP MOUNT OPEN testdb
```

**Action** Check the syntax of the STARTUP command in *Oracle7 Server Utilities* for options that can be used together.

**DBA–00128     invalid DEBUG switch**

**Cause**     The DEBUG switch was not recognized.

**Action**     Specify a legal DEBUG switch.

**DBA–00129     value out of range (1 – *num*)**

**Cause**     The specified value was out of range. The valid range is given by the error message.

**Action**     Use a number within the range specified by this error.

**DBA–00131     invalid ARCHIVE TO device**

**Cause**     The specified ARCHIVE TO device was not recognized.

**Action**     Specify a legal ARCHIVE TO device.

**DBA–00132     null *hostname/password* specified**

**Cause**     *hostname/password* was not specified.

**Action**     Specify the correct *hostname/password*.

**DBA–00133     invalid datafile list**

**Cause**     An invalid string was entered as one of the values in the list of datafiles in the ARCHIVE LOG command. For example, ''' is an invalid string.

**Action**     Check the syntax of the command, use valid datafile names for all names in the list, and enter the command again.

**DBA–00134     invalid AUTORECOVERY switch**

**Cause**     An invalid option was specified for the SET AUTORECOVERY command.

**Action**     Use either ON or OFF as options for the SET AUTORECOVERY command.

**DBA–00136     bad variable specification**

**Cause**     A variable was incorrectly specified using the VARIABLE command.

**Action**     Check the syntax of the command and issue the command again.

**DBA–00137     syntax error in PL/SQL Block**

**Cause**     The PL/SQL block contains a syntax error.

**Action**     Correct the syntax error.

- DBA-00139    invalid ALTER DATABASE option**
- Cause**    The specified ALTER DATABASE option was not recognized.
- Action**    Specify a legal option.
- 
- DBA-00140    invalid COMPATIBILITY switch**
- Cause**    The specified COMPATIBILITY switch was not recognized.
- Action**    Specify a legal COMPATIBILITY switch.
- 
- DBA-00141    invalid RETRIES value**
- Cause**    The specified RETRIES value was not recognized.
- Action**    Specify a legal RETRIES value.
- 
- DBA-00142    cannot recognize object type, owner or name**
- Cause**    The specified object type, owner, or name was not recognized.
- Action**    Specify a legal object type, owner or name.
- 
- DBA-00143    variable has not been defined**
- Cause**    The specified variable was not recognized.
- Action**    Specify an existing variable.
- 
- DBA-00144    invalid object type for DESCRIBE**
- Cause**    The specified object type was not TABLE, VIEW, or PROCEDURE.
- Action**    Check that the object is a table, view, or procedure. If so, check that you specified the correct name and try again. If not, you cannot DESCRIBE the object.
- 
- DBA-00145    invalid object name for DESCRIBE**
- Cause**    The specified table, view, stored procedure or function was not recognized.
- Action**    Check spelling and specify an existing table, view, stored procedure, or function.
- 
- DBA-00146    invalid HISTORY value**
- Cause**    The specified HISTORY value was not recognized.
- Action**    Specify a legal HISTORY value.



## 00300–00359: DBA Execution

### **DBA–00147    invalid LINES value**

**Cause**    The specified LINES value was not recognized.

**Action**    Specify a legal LINES value.

### **DBA–00148    invalid TERM switch (use either PAGE or NOPAGE)**

**Cause**    The specified value was not recognized.

**Action**    Specify a legal value.

### **DBA–00149    invalid SERVEROUTPUT switch**

**Cause**    The specified value was not recognized.

**Action**    Specify a legal value.

### **DBA–00150    invalid FLAGGER switch**

**Cause**    The specified value was not recognized.

**Action**    Specify a legal value.

---

## 00300–00359: DBA Execution

### **DBA–00300    internal error code, arguments: [num], [str]**

**Cause**    An internal error was encountered.

**Action**    Contact customer support with the circumstances leading to the error and the complete set of error messages.

### **DBA–00301    cannot SET INSTANCE while connected to a database**

**Cause**    SET INSTANCE was used while currently connected to a database.

**Action**    To change the current instance, DISCONNECT from the database before using SET INSTANCE.

### **DBA–00302    not connected to a database**

**Cause**    The requested operation required being connected to the database.

**Action**    CONNECT to the database using a valid username and password before retrying the operation.

- DBA-00304     input file I/O error *num* – input aborted**
- Cause**     A command file used as input to SQL\*DBA is corrupt or invalid.
- Action**     Check the file before retrying the operation.
- 
- DBA-00305     command size exceeds internal buffer size *num***
- Cause**     The size of the SQL statement exceeds SQL\*DBA's buffer size.
- Action**     Shorten the SQL statement by removing extra blanks or by using intermediate statements or views, if necessary.
- 
- DBA-00306     monitor cycle interval time out of range (1 – *num*)**
- Cause**     An invalid number was specified for the cycle interval.
- Action**     Enter a number between 1 and 3600 for the cycle interval. The number indicates seconds.
- 
- DBA-00307     cannot open spool file *name***
- Cause**     SQL\*DBA tried to open a spool file after the SPOOL filename was specified, but could not open the file. Possible causes are not enough disk space or inadequate privileges to create a file.
- Action**     Determine why SQL\*DBA could not create a new file and retry.
- 
- DBA-00308     no spool file opened**
- Cause**     SPOOL OFF was entered when not currently spooling.
- Action**     To capture session output, use the SPOOL command to open a file, enter the required commands, and close the file with SPOOL OFF.
- 
- DBA-00309     cannot close spool file *name***
- Cause**     SPOOL OFF could not close the currently open spool file.
- Action**     Check for an operating system reason that the spool file could not be closed.
- 
- DBA-00310     cannot open parameter file *name***
- Cause**     SQL\*DBA cannot locate or open the file specified by the PFILE option, because either the file does not exist or SQL\*DBA has insufficient privileges to open the file.
- Action**     Check that the file exists in a location expected by SQL\*DBA and can be opened.

**DBA–00311     data size exceeds internal buffer size**

**Cause**     The results returned by a SQL query exceed the internal SQL\*DBA buffer.

**Action**     Use the SET command to increase MAXDATA or decrease ARRAYSIZE.

**DBA–00314     unable to attach to default host**

**Cause**     The default host has not been set up correctly.

**Action**     Use the SET INSTANCE command with a valid host specification to set up a default host.

**DBA–00315     cannot open command file *name***

**Cause**     SQL\*DBA cannot locate the specified command file.

**Action**     Check the file's name and SQL\*DBA's access to it before retrying.

**DBA–00316     cannot start up while connected to a database**

**Cause**     An attempt was made to start up an instance while connected to a database.

**Action**     To start up an instance, first DISCONNECT from the current database.

**DBA–00318     SQL\*DBA command line error *num***

**Cause**     A syntax or typing error was made while entering a SQL\*DBA command line.

**Action**     Check the syntax and try again.

**DBA–00319     cannot locate sqldba configuration file *name***

**Cause**     SQL\*DBA cannot open the file specified by the ORA\_SQLDBAINIT variable, because either the file does not exist or SQL\*DBA has insufficient privilege to open the file.

**Action**     Check that the specified file exists and can be opened.

**DBA–00320     cannot open sqldba configuration file *name***

**Cause**     File mentioned cannot be opened.

**Action**     Check that the specified file exists and can be opened.

**DBA-00321    instance name too long**

**Cause**    An instance name was specified that may be valid, but is too long (exceeds 64 characters).

**Action**    Check the name of the desired instance and try again.

**DBA-00322    total size of command line parameters exceeds buffer size**

**Cause**    Too many command-line arguments were specified to fit in the SQL\*DBA buffer.

**Action**    Specify the arguments over several command lines.

**DBA-00325    pfile too large**

**Cause**    The file specified using PFILE is too large (exceeds 8K).

**Action**    Reduce the size of the parameter file before specifying it again using PFILE.

**DBA-00327    command not available in this mode**

**Cause**    A command was specified that is not available in this mode.

**Action**    Switch to a mode where the command is allowed.

**DBA-00328    insufficient privilege for this display**

**Cause**    An attempt was made to display a MONITOR display without sufficient privileges for the underlying VS tables.

**Action**    Contact the database administrator to obtain the required privileges.

**DBA-00329    insufficient privilege for SHOW SGA**

**Cause**    An attempt was made to use SHOW SGA without sufficient privileges.

**Action**    Contact the database administrator to obtain the required privileges.

**DBA-00330    logsource name too long**

**Cause**    The specified name may be valid, but is too long (exceeds 127 characters).

**Action**    Use a shorter name. For example, relocate the file so that its path name is shorter.

**DBA–00331     cannot allocate enough memory for SQL buffer**

**Cause**     There is not enough memory for the current SQL buffer.

**Action**     Use the SET command to reduce MAXDATA. Re–invoke MONITOR FILEIO.

**DBA–00336     insufficient privilege for SHOW PARAMETERS**

**Cause**     An attempt was made to use SHOW PARAMETERS without sufficient privileges.

**Action**     Contact the database administrator to obtain the required privileges.

**DBA–00337     missing instance name**

**Cause**     The instance name was not specified in the CONNECT statement.

**Action**     Issue the CONNECT statement again, using the proper instance name.

**DBA–00341     *name* is an undefined bind variable**

**Cause**     The SQL statement refers to an undefined bind variable.

**Action**     Use the VARIABLE statement to define the bind variable and re–execute the query.

**DBA–00342     unable to complete internal login**

**Cause**     Some database error occurred that prevented a successful CONNECT INTERNAL. For example, a SHUTDOWN ABORT command was issued. This message is usually followed by another message that indicates the problem.

**Action**     Ensure that the instance is started correctly before trying to CONNECT INTERNAL. You may need to use the STARTUP FORCE command.

**DBA–00343     no such parameter**

**Cause**     SHOW PARAMETER was given a parameter name that does not exist.

**Action**     Use a different argument to SHOW PARAMETER.

**DBA–00344     no items for the requested operation currently exist**

**Cause**     A mandatory list element in a dialog contained zero (0) elements.

**Action**     No action required.

**DBA-00345    no user sessions exist**

**Cause**    An attempt was made to see if users were connected, but no users were connected.

**Action**    No action required.

**DBA-00346    no unresolved in-doubt transactions exist**

**Cause**    There were no in-doubt transactions to resolve.

**Action**    No action required.

**DBA-00347    no offline tablespaces exist**

**Cause**    There were no offline tablespaces to bring online.

**Action**    No action required.

**DBA-00348    no online tablespaces exist**

**Cause**    There were no tablespaces to take offline. You cannot take the SYSTEM tablespace offline.

**Action**    No action required.

**DBA-00349    no available rollback segments exist**

**Cause**    There were no offline rollback segments to drop.

**Action**    No action required.

**DBA-00350    no offline rollback segments exist**

**Cause**    There were no offline or partly available rollback segments to bring online.

**Action**    No action required.

**DBA-00351    no online rollback segments exist**

**Cause**    There were no online rollback segments to take offline.

**Action**    No action required.

**DBA-00352    no online tablespaces exist for backup**

**Cause**    There were no online tablespaces to backup.

**Action**    No action required.

**DBA–00353    no online tablespaces being backed up exist**

**Cause**    An attempt was made to end an online tablespace backup, but no tables are being backed up.

**Action**    No action required.

**DBA–00354    no offline tablespaces exist**

**Cause**    There were no offline tablespaces to recover.

**Action**    No action required.

**DBA–00355    no offline datafiles exist**

**Cause**    There were no offline datafiles to recover.

**Action**    No action required.

**DBA–00356    no users exist**

**Cause**    There were no named users to alter or drop.

**Action**    No action required.

**DBA–00357    no roles exist**

**Cause**    There were no roles to alter or drop.

**Action**    No action required.

**DBA–00358    no users or roles exist**

**Cause**    There were no users or roles to grant privileges and roles to or to revoke privileges and roles from.

**Action**    Create some users before granting roles or privileges.

**DBA–00359    monitor already active**

**Cause**    An instantiation of this monitor was already active.

**Action**    Cycle through the monitor windows until the monitor becomes visible.

---

**00360–00369: DBA Describe Execution****DBA–00360     object to be described does not exist**

**Cause**     The object in a DESCRIBE FUNCTION / PROCEDURE / PACKAGE statement did not exist.

**Action**     Check that the object name and owner are correct and that the object exists.

**DBA–00361     error during describe**

**Cause**     An unexpected error occurred during describe.

**Action**     Check the following error and correct the problem.

**DBA–00362     object *name* is a package; use DESCRIBE *name*.<*procedure*>**

**Cause**     The named object was a package. DESCRIBE does not currently describe an entire package specification.

**Action**     Specify an entire package.

**DBA–00363     procedure or function *name* not found in the package**

**Cause**     The named package did not contain the procedure of the function specified.

**Action**     Specify a procedure or function within the package.

**DBA–00364     object *name* is a remote object, cannot further describe**

**Cause**     The specified object name contained a database link or was a synonym that resolved to a name with a database link. Such objects cannot currently be described.

**Action**     Specify a local object.

**DBA–00365     object *name* is invalid, it may not be described**

**Cause**     The object must have been successfully compiled.

**Action**     Fix any errors in the object and recompile.

**DBA–00366     name *name* is malformed, it must be of form [[a.]b.]c@dblink**

**Cause**     The name may have at most three parts and a dblink.

**Action**     Use a well formed object name.



**00370–00380: DBA Generic Execution**

**DBA–00370     mandatory field/list needs to be filled in**

**Cause**     An attempt was made to execute the dialog before filling in all required items.

**Action**     Fill in all required items and retry.

**DBA–00371     cannot open/locate input help file, *name***

**Cause**     The Help Key was pressed or an item was chosen from the Help Menu, and the help file was not in the expected location.

**Action**     Put the help file in the location specified.

**DBA–00372     cannot open/locate input index file, *name***

**Cause**     The Help Key was pressed or an item was chosen from the Help Menu, and the help file was not in the expected location.

**Action**     Put the index help file in the location specified.

**DBA–00373     cannot allocate memory of size *num* from toolkit**

**Cause**     The Help Key was pressed or an item was chosen from the Help Menu, and SQL\*DBA ran out of memory.

**Action**     Exit SQL\*DBA, restart, and try again.

**DBA–00374     could not set file position in *name* directly**

**Cause**     The Help Key was pressed or an item was chosen from the Help Menu.

**Action**     Alternate chosen — no action required.

**DBA–00375     unexpected end of file, *name***

**Cause**     The Help Key was pressed or an item was chosen from the Help Menu, but the help file specified was not installed.

**Action**     Exit SQL\*DBA and install the correct help file.

**DBA–00376     mandatory field has to be filled in before navigation is possible**

**Cause**     An attempt was made to navigate to the next/previous item without filling a required field.

**Action**     Fill in current field before proceeding to another field.

- DBA-00377**     **mandatory list item has to be selected before navigation is possible**
- Cause**     An attempt was made to navigate to the next/previous item without filling a required field.
- Action**     Select a list item before proceeding to another field.
- 
- DBA-00378**     **an item has to be selected before help can be sought for it**
- Cause**     An attempt was made to obtain help before selecting an item.
- Action**     Select an item first and re-execute.
- 
- DBA-00379**     **variable(s) not defined**
- Cause**     The SHOW VAR[IABLES] [var-name] command could not find any variables. Either no variables are defined or you specified a non-existent variable.
- Action**     Check the spelling of the variables that were entered or, if no variables were entered, define the necessary variables.
- 
- DBA-00380**     **procedural option required for this statement**
- Cause**     The attempted statement requires the procedural option.
- Action**     Refrain from using this statement or contact an Oracle sales representative to purchase the procedural option.
- 
- DBA-00381**     **error in the SERVER OUTPUT option**
- Cause**     Most likely the package DBMS\_OUTPUT was not installed.
- Action**     Install the package DBMS\_OUTPUT and check the accompanying messages for more information.
- 
- DBA-00382**     **value *name* is not a recognizable filename for *name***
- Cause**     The value for the SQL\*DBA initialization variable, which points to the initialization file, is not a recognizable filename.
- Action**     Specify a valid filename or do not define the variable so that no initialization file is run.

**DBA–00383     filename *name* pointed to by *name* could not be opened**

**Cause**     The filename pointed to by the SQL\*DBA initialization variable could not be opened.

**Action**     Specify an available file or do not define the variable so that no initialization file is run.

**DBA–00384     could not open SQL\*DBA resource file, *name***

**Cause**     The file mentioned could not be opened.

**Action**     Make the file mentioned available for use by SQL\*DBA.

**DBA–00385     could not locate SQL\*DBA resource file, *name***

**Cause**     The file mentioned could not be located.

**Action**     Check that the file exists before rerunning SQL\*DBA.

**DBA–00386     could not open toolkit resource file, *name***

**Cause**     The file mentioned could not be opened.

**Action**     Make the file mentioned available for use by SQL\*DBA.

**DBA–00387     could not locate toolkit resource file, *name***

**Cause**     The file mentioned could not be located.

**Action**     Check that the file exists before rerunning SQL\*DBA.

**DBA–00388     cannot start SQL\*DBA in screen mode; check if values are legal**

**Cause**     A variable was not properly set.

**Action**     Check the values listed by SQL\*DBA to see if they are correct.

**DBA–00389     toolkit resource file *name* is defined to *name***

**Cause**     File mentioned could not be located.

**Action**     Check that the file specified exists and can be accessed.

**DBA–00390     terminal type *name* is defined by *name***

**Cause**     Terminal type specified by may not be valid.

**Action**     Check that the terminal specification is correct.

**DBA–00391**     **value *name* is defined to *name*; legal values: *name* or *name***

**Cause**     SQL\*DBA mode has been incorrectly defined.

**Action**     Define the value of the variable to one of the legal values.

**DBA–00392**     **this field requires a numeric value**

**Cause**     An attempt was made to navigate to the next/previous item with a non-numeric value in a field requiring a numeric value.

**Action**     Enter a numeric value in the field and repeat the operation.

---

## 00100–00299: LCC Messages

The following messages result from errors occurring in the parameter file. These messages occur when attempting to start an instance.

**LCC–00100**     **internal error, argument *num***

**Cause**     An internal error was encountered.

**Action**     Call customer support with the circumstances leading to the error and the complete set of messages.

**LCC–00111**     **value not in legal range *range***

**Cause**     The value of the parameter was outside the valid range.

**Action**     Check the valid range and retry using a new value.

**LCC–00112**     **illegal integer radix specification *character***

**Cause**     An invalid character was specified.

**Action**     Valid characters are 'd', 'h', 'D', and 'H'.

**LCC–00113**     **integer conversion error or negative integer *num***

**Cause**     A non-integer or negative integer was assigned to an integer parameter.

**Action**     Retry using a valid integer value.

**LCC–00114    illegal boolean response *character***

**Cause**    A value other than TRUE or FALSE was specified.

**Action**    Enter a boolean value, either TRUE or FALSE.

**LCC–00122    unrecognized keyword *name***

**Cause**    An invalid or misspelled keyword was specified.

**Action**    Re-enter the line.

**LCC–00128    invalid positional parameter value *num***

**Cause**    An invalid positional parameter value was specified.

**Action**    Correct the value.

**LCC–00161    Oracle error (possible syntax error) parameter *name***

**Cause**    A parameter was specified incorrectly, possibly with a syntax error.

**Action**    Correct the error as described in the accompanying message.

**LCC–00201    could not open specified filename *name***

**Cause**    The specified file did not exist.

**Action**    Check the name of the file or create a file by that name before retrying.

**LCC–00203    missing keyword *name***

**Cause**    A keyword is expected but none was found.

**Action**    Add a parameter keyword followed by an equal sign and a parameter value.

**LCC–00204    left parenthesis and no parameter specified *name***

**Cause**    A parameter list was started but no parameter was specified.

**Action**    Add an appropriate list of values and close the parameter list.

**LCC–00205    unbalanced parentheses *character***

**Cause**    An odd number of parentheses was found, indicating that one is missing or one is extra.

**Action**    Retry the statement using the correct number of parentheses.

**LCC-00206      positional parameter entered after keyword *name***

**Cause**      An equal sign was missing.

**Action**      Retry the parameter specification using an equal sign between the parameter name and the value.

**LCC-00207      nested parentheses encountered *character***

**Cause**      More than one set of parentheses was used. Only one set of parentheses is permitted.

**Action**      Remove the nested parentheses and retry.

**LCC-00208      unexpected keyword in value list *name***

**Cause**      A keyword was found instead of a value.

**Action**      Insert an appropriate value for the keyword.

**LCC-00209      missing value for keyword at end of string *str***

**Cause**      A keyword was specified with no value.

**Action**      Specify a valid value for the keyword.

**LCC-00210      illegal assignment operator *symbol***

**Cause**      An attempt was made to use a symbol other than an equal sign to assign a value to a parameter.

**Action**      Retry using an equal sign following the parameter name.

**LCC-00211      unexpected delimiter *symbol***

**Cause**      An invalid delimiter was found between values.

**Action**      A comma or a space is a valid delimiter.

**LCC-00212      runaway quoted string *str***

**Cause**      The parameter value was quoted on the left side but not on the right.

**Action**      Balance the quotation marks.

## 00100–00299: LCC Messages

### **LCC–00215    parameter files nested too deep *num***

**Cause**    Too many parameter files were nested. The maximum number of files that may be nested is three.

**Action**    Reduce the number of nested parameter files.

### **LCC–00217    failure while processing file parameter**

**Cause**    An error occurred while processing a file parameter.

**Action**    Other messages will follow with additional information.

### **LCC–00218    error in file *name***

**Cause**    An error occurred in the particular file.

**Action**    Other messages will follow with additional information.

# Export/Import Messages

**T**his chapter lists messages generated by the Export/Import utility. For more information on this utility, refer to *Oracle7 Server Utilities*.

The messages listed in this chapter are displayed with either the prefix EXP, signifying Export, or IMP, signifying Import.



**00000–00100: Export Messages****EXP-00000    export terminated unsuccessfully**

**Cause**    Export encountered an Oracle error.

**Action**    Look up the accompanying Oracle message in the ORA message chapters of this manual, and take appropriate action.

**EXP-00001    data field truncation – column length=*num*, buffer size=*num* fetched=*num***

**Cause**    Export could not fit a column in the data buffer.

**Action**    Record the given size parameters and the accompanying messages and report this as an Export internal error to customer support. (Part of the table has been exported. Export will continue with the next table.)

**EXP-00002    error in writing to export file**

**Cause**    Export could not write to the export file, probably because of a device error. This message is usually followed by a device message from the operating system.

**Action**    Take appropriate action to restore the device.

**EXP-00003    no storage definition found for segment (*name*, *num*)**

**Cause**    Export could not find the storage definitions for a cluster, index, or table.

**Action**    Record the accompanying messages and report this as an Export internal error to customer support.

**EXP-00004    invalid username or password**

**Cause**    An invalid username or password was specified.

**Action**    Retry with a valid username and password.

**EXP-00005    all allowable logon attempts failed**

**Cause**    Attempts were repeatedly made to log on with an invalid username or password.

**Action**    Shut down the utility, then restart and retry with a valid username and password.

**EXP-00006    internal inconsistency error**

**Cause**    Export's data structure was corrupted.

**Action**    Record the accompanying messages and report this as an Export internal error to customer support.

**EXP-00007    dictionary shows no columns for *name.name***

**Cause**    Export failed to gather column information from the data dictionary. The table may have been dropped.

**Action**    Retry the export and, if this error recurs, report it as an Export internal error to customer support.

**EXP-00008    Oracle error *num* encountered**

**Cause**    Export encountered the referenced Oracle error.

**Action**    Look up the Oracle message in the ORA message chapters of this manual and take appropriate action.

**EXP-00009    no privilege to export *name's* table *name***

**Cause**    An attempt was made to export another user's table. Only a database administrator can export another user's tables.

**Action**    Ask your database administrator to do the export.

**EXP-00010    *name* is not a valid username**

**Cause**    An invalid username was specified.

**Action**    Shut down the utility, then restart and retry with a valid username.

**EXP-00011    *name.name* does not exist**

**Cause**    Export could not find the specified table.

**Action**    Retry with the correct table name.

**EXP-00012    *num* is not a valid export mode**

**Cause**    An invalid export mode was specified.

**Action**    Retry with a valid export mode.

## 00000–00100: Export Messages

### **EXP–00013      respond with either “Y”, “N”, RETURN or “.” to quit**

**Cause**      An invalid response was entered.

**Action**      Enter any of the responses shown in the message.

### **EXP–00014      error on row *num* of table *name***

**Cause**      Export encountered an Oracle error while fetching rows.

**Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action.

### **EXP–00015      error on row *num* of table *name*, column *name*, datatype *num***

**Cause**      Export encountered an error while fetching or writing the column. An accompanying message gives more information.

**Action**      Correct the error and try again.

### **EXP–00016      Oracle error encountered while reading default auditing options**

**Cause**      Export encountered an Oracle error while reading the default auditing options (those for updates, deletes, and so on).

**Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action.

### **EXP–00018      datatype (*num*) for column *name*, table *name.name* is not supported**

**Cause**      Export does not support the referenced datatype.

**Action**      Retry with an acceptable datatype (CHAR, NUMBER, DATE, LONG, or RAW).

### **EXP–00019      failed to process parameters, type “EXP HELP=Y” for help**

**Cause**      Invalid command–line parameters were specified.

**Action**      Check the online help screen for the set of valid parameters, then retry.

### **EXP–00020      failed to allocate memory of size *num***

**Cause**      Export failed to allocate the necessary memory.

**Action**      Decrease the export buffer size so that less memory is required, or increase the runtime memory size for Export.

- EXP-00021     can only perform incremental export in Full Database mode**
- Cause**     USER or TABLE mode was specified when doing an incremental export.
- Action**     Specify FULL database mode (FULL=Y) and retry.
- 
- EXP-00022     must be SYS or SYSTEM to do incremental export**
- Cause**     The privileges needed to do an incremental export do not exist. Only users SYS and SYSTEM can do incremental exports.
- Action**     Ask the database administrator to do the incremental export.
- 
- EXP-00023     must be a DBA to do Full Database export**
- Cause**     The privileges needed to do a FULL database export do not exist. Only a database administrator can do a FULL database export.
- Action**     Ask the database administrator to do the FULL database export.
- 
- EXP-00024     export views not installed, please notify your DBA**
- Cause**     The necessary Export views were not installed.
- Action**     Ask the database administrator to install the required Export views.
- 
- EXP-00025     dictionary shows no column for constraint *name.num***
- Cause**     Export failed to gather column information about the referenced constraint from the data dictionary. The constraint may have been altered.
- Action**     Retry the export and, if this error recurs, report it as an Export internal error to customer support.
- 
- EXP-00026     only one parameter (TABLES, OWNER, or FULL) can be specified**
- Cause**     Conflicting export modes were specified.
- Action**     Specify only one parameter and retry.
- 
- EXP-00027     failed to calculate Oracle block size**
- Cause**     Export failed to calculate the Oracle block size.
- Action**     Report this as an Export internal error to customer support.

## 00000–00100: Export Messages

### EXP–00028    **failed to open *name* for write**

**Cause**    Export failed to open the export file for writing. This message is usually followed by device messages from the operating system.

**Action**    Take appropriate action to restore the device.

### EXP–00029    **incremental export mode and consistent mode are not compatible**

**Cause**    Both consistent and incremental exports were specified.

**Action**    None. Consistent mode is turned off.

### EXP–00030    **unexpected End-Of-File encountered while reading input**

**Cause**    Encountered an End-Of-File while reading the user input.

**Action**    If input to export is being redirected, check the file for errors.

### EXP–00031    **arraysize not in valid range. Using arraysize=*num***

**Cause**    The arraysize value specified is not in the valid range.

**Action**    None.

### EXP–00032    **non-DBAs may not export other users**

**Cause**    Only database administrators can export to other users. A non-database administrator attempted to specify owner=user where exporter is not the user.

**Action**    Request that this operation be performed by the database administrator.

### EXP–00033    **could not find environment character set**

**Cause**    The environment character set is missing or incorrectly specified.

**Action**    Ensure that the environment character set is correctly specified and is present.

### EXP–00034    **error on rowid: file# *num* block# *num* slot# *num***

**Cause**    Identifies the rowid on which an error occurred.

**Action**    This is an information message. No action is required.

### EXP–00035    **cannot specify Rows=N and Compress=Y**

**Cause**    Compress applies only to rows of data, so to request compress you must also request rows.

**Action**    Remove the compress parameter or specify Rows=Y.

**EXP-00037    Export views not compatible with database version**

**Cause**    The Export utility is at a higher version than the database version and is thereby incompatible.

**Action**    Use the same version of Export utility as the database.

---

**00000–00100: Import Messages**
**IMP-00000    import terminated unsuccessfully**

**Cause**    Import encountered an Oracle error.

**Action**    Look up the accompanying Oracle message in the ORA message chapters of this manual, and take appropriate action.

**IMP-00001    respond with either “Y”, “N”, “RETURN” or “.” to quit**

**Cause**    An invalid response was entered.

**Action**    Enter any of the responses shown in the message.

**IMP-00002    failed to open *name* for read**

**Cause**    Import failed to open the export file for reading. This message is usually followed by a device message from the operating system.

**Action**    Take appropriate action to restore the device.

**IMP-00003    Oracle message code *num* encountered**

**Cause**    Import encountered the referenced Oracle error.

**Action**    Look up the Oracle message in the ORA message chapters of this manual, and take appropriate action.

**IMP-00004    invalid username or password**

**Cause**    An invalid username or password was specified.

**Action**    Retry with a valid username and password.

## 00000–00100: Import Messages

### **IMP-00005    all allowable logon attempts failed**

**Cause**    An attempt was repeatedly made to log on with an invalid username or password.

**Action**    Retry with valid username and password.

### **IMP-00006    failed to allocate memory of size *num***

**Cause**    Import failed to allocate the necessary memory.

**Action**    Decrease the import buffer size so that less memory is required, or increase the runtime memory size for Import.

### **IMP-00007    must be a DBA to import objects to another user's account**

**Cause**    The privileges needed to import into another user's account do not exist. Only a database administrator can import into another user's account.

**Action**    Ask the database administrator to do the import.

### **IMP-00008    unrecognized statement in the export file: *str***

**Cause**    Import did not recognize a statement in the export file. Either the export file was corrupted, or an Import internal error has occurred.

**Action**    If the export file was corrupted, retry with a new export file. Otherwise, report this as an Import internal error to customer support.

### **IMP-00009    abnormal end of export file**

**Cause**    The export file is probably from an aborted Export session.

**Action**    If so, retry the export and import. Otherwise, report this as an Import bug and submit the export file that caused this error to customer support.

### **IMP-00010    not a valid export file, header failed verification**

**Cause**    Either the file was not generated by Export or it was corrupted.

**Action**    If the file was indeed generated by Export, report this an Import bug and submit the export file to customer support.

### **IMP-00011    formatted table data not currently supported**

**Cause**    You tried to import an export file that contains formatted table data. Import only supports export files containing binary table data.

**Action**    Retry using an export file that contains only binary table data.

- IMP-00012    invalid export mode *num* in header**
- Cause**    The Export mode specified in the export file header is invalid.
- Action**    Check the export file to see if it was corrupted. If it was not, report this as an Import bug and submit the export file to customer support.
- 
- IMP-00013    only a DBA can import a file exported by another DBA**
- Cause**    The privileges needed to Import an export file generated by a database administrator do not exist. Only a database administrator can import such files.
- Action**    Ask the database administrator to do the import.
- 
- IMP-00014    insufficient Oracle privileges to do import**
- Cause**    The privileges needed to do an import do not exist. A minimum of CONNECT privilege is required to do an import.
- Action**    Ask the database administrator to grant the necessary privileges.
- 
- IMP-00015    following statement failed because the object already exists: *str***
- Cause**    Import failed to create an object because it already exists.
- Action**    Specify IGNORE=Y to ignore such errors and import rows even when tables are not created because they already exist.
- 
- IMP-00016    required character set conversion (type *num* to *num*) not supported**
- Cause**    Import could not convert the character format of the export file into the native character format.
- Action**    Change the user character set by setting the NLS\_LANG environment variable to match the character set of the export file.
- 
- IMP-00017    following statement failed with Oracle message *num*: *str***
- Cause**    Import failed to execute the statement from the export file because of an Oracle error.
- Action**    Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action.



**IMP-00018      partial import of previous table complete: *num* rows imported**

**Cause**      A table was only partially imported because of an Oracle error.

**Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action.

**IMP-00019      row rejected due to Oracle message code *num***

**Cause**      Import encountered the referenced Oracle error while trying to import a row.

**Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action.

**IMP-00020      long column too large for column buffer size *num***

**Cause**      The column buffer is too small. This usually occurs when importing LONG data.

**Action**      Increase the insert buffer size 10,000 bytes at a time (for example) up to 66,000 or greater. Use this step-by-step approach because a buffer size that is too large may cause a similar problem.

**IMP-00021      operating system error – error code (dec *num*, hex 0x*num*)**

**Cause**      An operating system error has occurred.

**Action**      Look up the referenced message in your operating system-specific Oracle documentation and take appropriate action.

**IMP-00022      failed to process parameters, type “IMP HELP=Y” for help**

**Cause**      Invalid command-line parameters were specified.

**Action**      Check the online help screen for the set of valid parameters, then retry.

**IMP-00023      import views not installed, please notify your DBA**

**Cause**      The necessary Import views were not installed.

**Action**      Ask your database administrator to install the required Import views.

**IMP-00024      full import mode, cannot specify FROMUSER or TABLES parameter**

**Cause**      Parameters were specified that conflict with the import specification FULL=Y.

**Action**      Retry, making sure not to specify FULL=Y.

- IMP-00025**    **for DBA export files, FROMUSER must be specified with TOUSER**
- Cause**      When importing a database administrator export file, you specified the TOUSER parameter but not the FROMUSER parameter.
- Action**      Specify the FROMUSER parameter so that Import knows which user's objects to import.
- 
- IMP-00027**    **failed to roll back partial import of previous table**
- Cause**      Import encountered an Oracle error while trying to roll back a partial import.
- Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action. Then, log on to Oracle and check that the partial import was not committed.
- 
- IMP-00028**    **partial import of previous table rolled back: *num* rows rolled back**
- Cause**      Import encountered an Oracle error while trying to import a table.
- Action**      Look up the accompanying Oracle message in the ORA message chapters of this manual and take appropriate action. Then, if necessary, re-import the table.
- 
- IMP-00029**    **cannot qualify table name by owner *name.name*, use FROMUSER parameter**
- Cause**      A table name was qualified with the name of its owner, as shown in the following example. This is not allowed.
- ```
IMP SYSTEM/MANAGER TABLES=(SCOTT.EMP,SCOTT.DEPT)
```
- Action**      Use the FROMUSER parameter to specify the table's owner, as shown in the following example:
- ```
IMP SYSTEM/MANAGER FROM USER=SCOTT TABLES=(EMP,DEPT)
```
- 
- IMP-00030**    **failed to create file *name* for write**
- Cause**      Import was unable to create the specified file with write enabled.
- Action**      Check the file name and file system for the source of the error.
- 
- IMP-00031**    **must specify FULL=Y or provide FROMUSER/TOUSER or TABLE arguments**
- Cause**      The database administrator did not specify full or partial import.
- Action**      The database administrator must specify FROMUSER/TOUSER or table arguments if not a full import.

## 00000–00100: Import Messages

### IMP–00032     **SQL statement exceeded buffer length**

**Cause**     The buffer was too small for the SQL statement being read.

**Action**     Rerun with a larger buffer. This can also be an indication of a corruption in the import datafile

### IMP–00033     **warning: Table *name* not found in export file**

**Cause**     A table name was specified that does not exist in export file.

**Action**     Correct the table specification.

### IMP–00034     **warning: FROMUSER *name* not found in export file**

**Cause**     The user specified a FROMUSER name that does not exist in export file.

**Action**     Correct the FROMUSER specification.

### IMP–00035     **warning: TOUSER *name* not found in export file**

**Cause**     The user specified a TOUSER name that does not exist in export file.

**Action**     Correct the TOUSER specification.

### IMP–00036     **could not find environment character set**

**Cause**     An environment character set was specified that was not recognized by the Import utility.

**Action**     Ensure that the spelling of the character set specified in the command line parameter CHARSET or the environment variable NLS\_LANG is correct.

### IMP–00037     **character set marker unknown**

**Cause**     The export file is corrupted.

**Action**     Try to obtain an uncorrupted version of the export file.

### IMP–00038     **could not find environment character set handle**

**Cause**     An environment character set handle was specified that was not recognized by the Import utility.

**Action**     Ensure that the spelling of the environment character set handle is correct.

**IMP-00039 no space for owner name in create string**

**Cause** The string is corrupted.

**Action** Try to obtain an uncorrupted version of the export file.

**IMP-00040 warning: Statement not executed due to invalid session label**

**Cause** An ALTER SESSION SET LABEL statement in the export file failed because it specified an invalid label. This caused all subsequent CREATE statements until the next valid ALTER SESSION SET LABEL statement to fail. These failed CREATE statements also generate this warning.

**Action** If the invalid label on the ALTER SESSION SET LABEL statement should be valid, define the label within the operating system and re-execute the import. It would be desirable to have an invalid label be valid if an export file is being imported from a Trusted Oracle7 database on a different operating system (one that supports different labels).

If the invalid label must remain invalid, replace it with a valid label in the export file and re-execute the import.

**IMP-00041 warning: object created with compilation warnings**

**Cause** The object in the SQL statement following this error was created with compilation errors. If this error occurred for a view, it is possible that the base table of the view was missing.

**Action** This is a warning. The object may have to be recompiled before being used.

**IMP-00042 CHARSET used, but the export file has specific character set**

**Cause** The user requested that a specific character set be used to process an export file that has a specific embedded character set ID. The ID in the export file is accurate and should be used.

**Action** Remove the CHARSET keyword from the command line.

**IMP-00043 export file character set inconsistent**

**Cause** The character set of the export file and the environment character set (or the character set specified with the CHARSET keyword) are inconsistent. One character set is ASCII-based while the other is EBCDIC based.

**Action** Specify the correct character set with the CHARSET keyword.

## 00000–00100: Import Messages

### **IMP–00044     unable to allocate enough memory for statement**

**Cause**     Import was unable to allocate sufficient memory to read in the specified statement and execute it.

**Action**     Increase the allocation for database buffers, restart the instance, and reexecute the Import command.

### **IMP–00045     unexpected character found on line *num* in mapfile**

**Cause**     There was a syntax error while processing the mapfile. This message is generated only for Trusted Oracle7.

**Action**     Examine the specified line and correct the error.

### **IMP–00046     must specify MLS\_MAPFILE with MLS\_LISTLABELS**

**Cause**     A map file for output of the list labels option was not specified. This message is generated only for Trusted Oracle7.

**Action**     Specify a map file using the MLS\_MAPFILE option.

### **IMP–00047     label string larger than 255 characters found at line *num* in mapfile**

**Cause**     A label string was specified in your mapfile that was too large. This message is generated only for Trusted Oracle7.

**Action**     Shorten label string to less than 255 characters.

### **IMP–00048     the MLS\_LISTLABELS option cannot be used with this export file**

**Cause**     An attempt was made to list the labels on an export file earlier than Release 7.1. This message is generated only for Trusted Oracle7.

**Action**     Only use the MLS\_LISTLABELS option for a Release 7.1 or later export file.

### **IMP–00049     unknown language specified in CHARSET**

**Cause**     An unknown language was listed in the CHARSET option. This message is generated only for Trusted Oracle7.

**Action**     Use a known character set.

# SQL\*Loader Messages

**T**his chapter lists messages you might see when using SQL\*Loader. SQL\*Loader messages take the form:

*SQL\*Loader-code number: message text*

Along with its own messages, SQL\*Loader sometimes displays related messages issued by the Oracle7 Server. These messages can be found in the ORA message chapters in this manual. For more information on SQL\*Loader, see *Oracle7 Server Utilities*.

**00100–00199: Command Line**

**SQL\*Loader-100    syntax error on command line**

**Cause**    Possible causes for this error include: placing a positional argument after keyword arguments, misspelling a keyword, not balancing parentheses or quotes, or leaving space between the operator, '=', and an argument.

**Action**    Check the command syntax and the spelling, then retry.

**SQL\*Loader-101    invalid argument for *username/password***

**Cause**    The username/password argument specified on the command line was not recognized. Another argument (not identified by a keyword) could be in the position where username/password is expected.

This error could also result from a spelling mistake. The password, if present, must be separated by a slash (/). No spaces can appear between the slash and username or password. Otherwise, SQL\*Loader sees them as multiple arguments.

**Action**    Check the format of the username/password argument, which is the first argument on the command line, if arguments are given without keywords.

**SQL\*Loader-102    invalid control file name on command line**

**Cause**    The control filename specified on the command line was not recognized. It could be misspelled, or another argument (not identified by a keyword) could be in its place. One possible cause is the existence of a space between username and password. See error 101, above.

**Action**    Check the spelling and position of the arguments on the command line.

**SQL\*Loader-103    invalid log file name on command line**

**Cause**    The log file name specified on the command line was not recognized. It could be misspelled, or another argument (not identified by a keyword) could be in its place.

**Action**    Check the spelling and position of the arguments on the command line.

**SQL\*Loader-104    invalid bad file name on command line**

**Cause**    The bad file name specified on the command line was not recognized. It could be misspelled, or another argument (not identified by a keyword) could be in its place.

**Action**    Check the spelling and position of the arguments on the command line.

|                       |                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader-105</b> | <b>invalid datafile name on command line</b>                                                                                                                             |
| <b>Cause</b>          | The datafile name specified on the command line was not recognized. It could be misspelled, or another argument (not identified by a keyword) could be in its place.     |
| <b>Action</b>         | Check the spelling and position of the arguments on the command line.                                                                                                    |
| <b>SQL*Loader-106</b> | <b>invalid discard file name on command line</b>                                                                                                                         |
| <b>Cause</b>          | The discard file name specified on the command line was not recognized. It could be misspelled, or another argument (not identified by a keyword) could be in its place. |
| <b>Action</b>         | Check the spelling and position of the arguments on the command line.                                                                                                    |
| <b>SQL*Loader-107</b> | <b>invalid maximum number of discards</b>                                                                                                                                |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                        |
| <b>SQL*Loader-108</b> | <b>invalid number of logical records to load</b>                                                                                                                         |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                        |
| <b>SQL*Loader-109</b> | <b>invalid number of logical records to skip</b>                                                                                                                         |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                        |
| <b>SQL*Loader-110</b> | <b>invalid maximum number of errors</b>                                                                                                                                  |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                        |



|                       |                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader-111</b> | <b>invalid number of rows for bind array or data saves</b>                                                                                                                                                  |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                                                   |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                                                           |
| <b>SQL*Loader-112</b> | <b>invalid maximum bind array size</b>                                                                                                                                                                      |
| <b>Cause</b>          | The argument's value is inappropriate, or another argument (not identified by a keyword) is in its place.                                                                                                   |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                                                           |
| <b>SQL*Loader-113</b> | <b>invalid silent mode option</b>                                                                                                                                                                           |
| <b>Cause</b>          | The only valid options for the SILENT command-line argument are ALL, ERROR, FEEDBACK, or HEADER. The argument could be misspelled, or another argument (not identified by a keyword) could be in its place. |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                                                           |
| <b>SQL*Loader-114</b> | <b>error in OPTIONS statement</b>                                                                                                                                                                           |
| <b>Cause</b>          | Command line options specified in the control file with the OPTIONS clause were found to be incorrect.                                                                                                      |
| <b>Action</b>         | Check the format of the OPTIONS clause in the control file.                                                                                                                                                 |
| <b>SQL*Loader-115</b> | <b>invalid direct path option</b>                                                                                                                                                                           |
| <b>Cause</b>          | The only valid options for the DIRECT command-line argument are TRUE or FALSE. The argument could be misspelled, or another argument (not identified by a keyword) could be in its place.                   |
| <b>Action</b>         | Check the command line and retry.                                                                                                                                                                           |
| <b>SQL*Loader-116</b> | <b>error prompting for password</b>                                                                                                                                                                         |
| <b>Cause</b>          | An internal error has occurred.                                                                                                                                                                             |
| <b>Action</b>         | Contact customer support.                                                                                                                                                                                   |

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**00200–00299: DDL Syntax**

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–200</b> | <b>FORMAT clause should not be present – flat data files only</b>                                                    |
| <b>Cause</b>          | SQL/DS FORMAT clause is not supported.                                                                               |
| <b>Action</b>         | Remove the FORMAT command from the control file or comment it out.                                                   |
| <b>SQL*Loader–250</b> | <b>work data sets are not used by SQL*Loader</b>                                                                     |
| <b>Cause</b>          | The control file contains a WRKDDN statement. SQL*Loader ignores this clause.                                        |
| <b>Action</b>         | No action required. This is an informational message.                                                                |
| <b>SQL*Loader–251</b> | <b>sort devices are not used by SQL*Loader</b>                                                                       |
| <b>Cause</b>          | The control file contains a SORTDEVT statement. SQL*Loader ignores this clause.                                      |
| <b>Action</b>         | No action required. This is an informational message.                                                                |
| <b>SQL*Loader–252</b> | <b>sort data sets are not used by SQL*Loader</b>                                                                     |
| <b>Cause</b>          | The control file contains a SORTNUM statement. SQL*Loader ignores this clause.                                       |
| <b>Action</b>         | No action required. This is an informational message.                                                                |
| <b>SQL*Loader–253</b> | <b>DB2 partition number has no significance -- ignored</b>                                                           |
| <b>Cause</b>          | The control file contains a PART statement. SQL*Loader ignores this clause.                                          |
| <b>Action</b>         | No action required. This is an informational message.                                                                |
| <b>SQL*Loader–254</b> | <b>cannot have DISCARDFILE specs here when multiple datafiles</b>                                                    |
| <b>Cause</b>          | The control file contained multiple INFILE statements and a DISCARDFILE statement was found below the RESUME clause. |
| <b>Action</b>         | Move the DISCARDFILE statement above the RESUME clause, so it is adjacent to one of the INFILE statements.           |
| <b>SQL*Loader–255</b> | <b>log file for error recovery not used by SQL*Loader</b>                                                            |
| <b>Cause</b>          | The control file contains a LOG statement. SQL*Loader ignores this clause.                                           |
| <b>Action</b>         | No action required. This is an informational message.                                                                |

**SQL\*Loader-256     SORTED INDEXES option allowed only for direct path**

**Cause**     The control file contains a SORTED INDEXES statement, but it was not used in a direct path load.

**Action**     Specify a direct path load with DIRECT=TRUE on the command line, remove the statement from the control file, or comment it out.

**SQL\*Loader-257     index *name* specified in SORTED INDEXES does not exist on table *name***

**Cause**     A non-existent index was specified in the SORTED INDEXES clause. Either the index does not exist or its name was misspelled.

**Action**     Create the index, change the spelling, remove the specification, or comment it out.

**SQL\*Loader-258     maximum number of sorted indexes *num* exceeded on table *name*.**

**Cause**     There are too many indexes in the SORTED INDEX clause. The message displays the maximum number that are permitted.

**Action**     Reduce the number of indexes specified in the SORTED INDEX clause or use the conventional path load instead of the direct path load.

**SQL\*Loader-259     could not escalate DDL share lock to exclusive on table *name***

**Cause**     This error occurs when another user has a parse lock on the table, for example, when another user is doing a select on the table. The parse lock should clear momentarily.

**Action**     Give the parse lock a chance to clear and then retry or else use the conventional path load.

**SQL\*Loader-260     index *num* is in an invalid state**

**Cause**     The specified index is in an invalid state.

**Action**     Drop and re-create the index.

**SQL\*Loader-262     PIECED keyword (on column *num*) allowed only when path is direct**

**Cause**     The PIECED keyword cannot be used in a conventional path load.

**Action**     Remove the PIECED keyword or use the direct path load.

|                       |                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader-263</b> | <b>PIECED column <i>num</i> must be last specified column in table <i>name</i></b>                                                                                                                                               |
| <b>Cause</b>          | A column that is not the last column was specified as PIECED.                                                                                                                                                                    |
| <b>Action</b>         | Remove the PIECED keyword or place the column last.                                                                                                                                                                              |
| <b>SQL*Loader-264</b> | <b>file mode token <i>name</i> parsed but ignored</b>                                                                                                                                                                            |
| <b>Cause</b>          | An obsolete file mode token was used in the control file. As of Release 1.1 of SQL*Loader, the file-processing options string is used to control file processing, rather than keywords like STREAM, RECORD, FIXED, and VARIABLE. |
| <b>Action</b>         | No action required. This message is informational. Removing the obsolete keywords will eliminate the message without changing the way in which the datafile is processed.                                                        |
| <b>SQL*Loader-265</b> | <b>unable to get default character set name</b>                                                                                                                                                                                  |
| <b>Cause</b>          | SQL*Loader was unable to locate the default character set name for the environment.                                                                                                                                              |
| <b>Action</b>         | Supply a character set name with the CHARACTERSET keyword.                                                                                                                                                                       |
| <b>SQL*Loader-266</b> | <b>unable to locate character set handle for <i>name</i></b>                                                                                                                                                                     |
| <b>Cause</b>          | SQL*Loader could not find the character set handle for the named character set.                                                                                                                                                  |
| <b>Action</b>         | Correct the character set name.                                                                                                                                                                                                  |
| <b>SQL*Loader-267</b> | <b>control file must be first datafile</b>                                                                                                                                                                                       |
| <b>Cause</b>          | The control file is specified as containing data using the INFILE “*” clause, but other datafiles were named first.                                                                                                              |
| <b>Action</b>         | Move the INFILE “*” clause so that it is the first datafile declared in the control file.                                                                                                                                        |
| <b>SQL*Loader-268</b> | <b>UNRECOVERABLE keyword may be used only in direct path</b>                                                                                                                                                                     |
| <b>Cause</b>          | The UNRECOVERABLE keyword can only be specified in the direct path load.                                                                                                                                                         |
| <b>Action</b>         | Use the direct path load or remove the keyword. (Conventional path loads are always recoverable).                                                                                                                                |

## 00300–00399: DDL Parsing

### SQL\*Loader-269 Null string not allowed as clause comparison text

**Cause** A clause is being compared to a null string.

**Action** Modify the clause to compare to at least one character.

### SQL\*Loader-270 table *name* has index defined upon it

**Cause** Parallel load was specified into a table that has an index defined for it.

**Action** Drop the index or indexes defined for the table or do not use parallel load.

### SQL\*Loader-271 not a parallel load. Table level OPTIONS statement ignored

**Cause** A table-level OPTIONS statement was specified for a non-parallel load.

**Action** Remove the OPTIONS statement from the control file.

### SQL\*Loader-272 table level OPTIONS statement ignored

**Cause** In the parallel load option, the file specified on the command line overrides the file specified in the control file.

**Action** Remove the OPTIONS statement from the control file.

---

## 00300–00399: DDL Parsing

### SQL\*Loader-303 non-hex character encountered where hex char expected

**Cause** A non-hexadecimal character was found in a hexadecimal string.

**Action** Change it to the intended hexadecimal character.

### SQL\*Loader-304 illegal combination of non-alphanumeric characters

**Cause** The control file contains a combination of non-alphanumeric characters that SQL\*Loader does not recognize. For example, the combination != is recognized as “not equal”, but the combination =! is not valid.

**Action** Remove the unrecognized characters from the control file.

### SQL\*Loader-305 more than one end of file character encountered

**Cause** The file contains multiple end-of-file marks.

**Action** Remove the excess end-of-file characters.

**SQL\*Loader–306    token longer than max allowable length of *num* characters**

**Cause**    The control file contains a single word or combination of characters (a token) that is longer than the maximum permissible value. The maximum possible value is shown. This error could result from missing spaces, so that multiple tokens are joined.

**Action**    Check that the proper control file is being executed. Separate tokens, if joined, or shorten the token.

**SQL\*Loader–307    Warning: conflicting lengths *num1* and *num2* specified for column *name***

**Cause**    The control file specifies two different lengths for the named column. There are three ways to specify the length of a field:

- with the POSITION keyword: POSITION(1:3)
- with the length specifier: CHAR(6)
- with the implied length of a datatype; for example, INTEGER

A conflict could occur between any two of these specifications (or among all three, but only two are shown).

A common cause of this error is the specification of some numeric datatype, such as INTEGER, when the numeric external form is intended (INTEGER EXTERNAL). The external form consists of character data, so it is considerably longer than the numeric form, which consists of binary data.

**Action**    No action is necessarily required, because SQL\*Loader uses only one of the lengths. Check the log file under the heading “Len” in the table–description section to see which length was used. Adjusting the control file to produce uniform length specifications will remove the warning.

**SQL\*Loader–308    optional SQL string of column name must be in double quotes**

**Cause**    A SQL string was found that was not quoted or in single quotes.

**Action**    Use double quotes for the SQL string, rather than single quotes.

## 00400–00499: Columns

### SQL\*Loader-350    syntax error at line *num*

**Cause**    *num* identifies the line in the control file at which the error occurred. This message is followed by another of the form

Expecting *str1*, found *str2*

where *str1* is a description of what SQL\*Loader expected in the control file, and *str2* is what was found. Then SQL\*Loader displays the offending line from the control file, indicating the location of the error in the line by a carat (^) or an asterisk (\*). An example follows:

```
SQL*Loader-350: Syntax error at line 28
Expecting column name, found keyword CHAR
col3 ENCLOSED BY ' ' , CHAR ENCLOSED " " ,
```

**Action**    Compare the DDL syntax against the syntax diagrams in *Oracle7 Server Utilities* and make any necessary corrections.

---

## 00400–00499: Columns

### SQL\*Loader-401    end field position *num* must be greater than or equal to start *num*

**Cause**    The named field contains a (*start:end*) clause in which *end* is less than *start*.

**Action**    Modify the clause so that *end* is greater than or equal to *start*.

### SQL\*Loader-402    unable to determine length of column *name.name* from specification

**Cause**    The specified datatype does not have an implied length (for example, a numeric external or RAW datatype), it is not specified with delimiters, no length was specified, and a length cannot be determined from a POSITION clause.

**Action**    If a POSITION clause is specified, adding an end location to it produces a length specification. This clause then has the form

POSITION(*start:end*)

A length can also be specified after the datatype, as in

INTEGER EXTERNAL (6)

Finally, the field could be specified with delimiters, or the datatype changed to one that has an implied length.

|                       |                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–403</b> | <b>referenced column <i>name</i> not present in table <i>name</i></b>                                                                                                                 |
| <b>Cause</b>          | The named column is not present in the given table.                                                                                                                                   |
| <b>Action</b>         | Correct the column name or table name.                                                                                                                                                |
| <b>SQL*Loader–404</b> | <b>column <i>name</i> present more than once in table <i>name</i></b>                                                                                                                 |
| <b>Cause</b>          | The named column is specified more than once in a single INTO TABLE statement.                                                                                                        |
| <b>Action</b>         | Remove the extraneous column specification.                                                                                                                                           |
| <b>SQL*Loader–405</b> | <b>need termination delim with optional enclosure delim: column <i>name.name</i></b>                                                                                                  |
| <b>Cause</b>          | The named column was specified with an optional enclosure delimiter, but no termination delimiter. Enclosure delimiters can only be optional when termination delimiters are present. |
| <b>Action</b>         | Specify a termination delimiter or make the enclosure delimiters non–optional.                                                                                                        |
| <b>SQL*Loader–406</b> | <b>if data is all generated, number to load cannot be ALL</b>                                                                                                                         |
| <b>Cause</b>          | When only generated data is loaded, a number to load must be given so SQL*Loader knows when to stop.                                                                                  |
| <b>Action</b>         | Specify a number to load.                                                                                                                                                             |
| <b>SQL*Loader–407</b> | <b>if data is all generated, number to skip is meaningless</b>                                                                                                                        |
| <b>Cause</b>          | When all data is generated, no file is read, and there are no records to skip.                                                                                                        |
| <b>Action</b>         | Remove the number to skip.                                                                                                                                                            |
| <b>SQL*Loader–408</b> | <b>physical record stack overflow</b>                                                                                                                                                 |
| <b>Cause</b>          | An internal error has occurred.                                                                                                                                                       |
| <b>Action</b>         | Contact customer support.                                                                                                                                                             |



**SQL\*Loader-409    number to skip must be table-level, not load-level on continued loads**

**Cause**    The SKIP parameter was specified on the command line or in the OPTIONS statement, but the load was specified as continued with CONTINUE\_LOAD.

When a multiple-table direct load is interrupted, it is possible that a different number of records were loaded into each table. As a result, the number of records to skip must be specified for each table when continuing the load. In this case, the load is specified as continued with the CONTINUE\_LOAD statement, and the number of records to skip is given in each INTO TABLE statement.

See also messages 410 and 411 for more information.

**Action**    Check the log file to determine the appropriate number of records to skip for each table and specify this number in the INTO TABLE statement for each table in a continued load or with the command-line SKIP parameter in a standard load.

**SQL\*Loader-410    number to skip must be load-level, not table-level**

**Cause**    A SKIP clause was found in the INTO TABLE statement of a standard (non-continued) load.

In a standard load, specified with LOAD DATA, it is not possible to skip a different number of records for each table. The number of records to skip must be specified for the entire load by using the SKIP parameter on the command line or in the OPTIONS clause.

If table-level skip is required, because a different number of records were loaded into each table (only possible for a multiple-table direct load), then specify a continued load with the CONTINUE\_LOAD statement.

See also messages 409 and 411 for more information.

**Action**    If the load was not a multiple-table, direct path load, then move the SKIP clause from the INTO TABLE statements to the command line or to the OPTIONS clause. Otherwise, specify the load as continued with CONTINUE\_LOAD.

- SQL\*Loader–411**    **only a direct path load may be continued**
- Cause**    The load is specified with CONTINUE\_LOAD, but DIRECT=FALSE. CONTINUE\_LOAD is only possible for a direct path load and is only necessary for a multiple-table, direct path load when a different number of records have been loaded into each table.
- See also messages 409 and 410 for more information.
- Action**    If CONTINUE\_LOAD is necessary, specify a direct load and put the number of records to skip in each INTO TABLE statement. Otherwise, use the command line or OPTIONS clause to specify the number of records to skip and use LOAD DATA instead of CONTINUE\_LOAD.
- 
- SQL\*Loader–412**    **more columns specified for table *name* than the maximum *num***
- Cause**    More columns were specified for the table than the maximum number allowed by the database.
- Action**    Remove the extraneous columns.
- 
- SQL\*Loader–413**    **maximum number of constraints *num* exceeded on table *name***
- Cause**    An internal error has occurred.
- Action**    Contact customer support.
- 
- SQL\*Loader–414**    **maximum number of triggers *num* exceeded on table *name***
- Cause**    An internal error has occurred.
- Action**    Contact customer support.
- 
- SQL\*Loader–415**    **unimplemented database column type *num* on column *name***
- Cause**    An internal error has occurred.
- Action**    Contact customer support.
- 
- SQL\*Loader–417**    **SQL string (on column *name*) not allowed in direct path**
- Cause**    Because the direct path bypasses SQL processing, the SQL string cannot be used.
- Action**    Remove the SQL string or use the conventional path.

## 00500–00599: File I/O and Operating System

**SQL\*Loader-457**    **comparison text *str* of CONTINUEIF LAST must have length 1 not *num***

**Cause**    The comparison text is too long. It can only be one character.

**Action**    Reduce the comparison text to one character.

**SQL\*Loader-458**    **comparison text of CONTINUEIF LAST must be non-whitespace**

**Cause**    The comparison text is a whitespace character (blank or tab).

**Action**    Change the comparison text to a non-whitespace character.

---

## 00500–00599: File I/O and Operating System

**SQL\*Loader-500**    **unable to open file *name***

**Cause**    SQL\*Loader could not open the named file.

**Action**    Check the operating system messages below this one in the log file.

**SQL\*Loader-501**    **unable to read file *name***

**Cause**    SQL\*Loader could not read the named file.

**Action**    Check the operating system messages below this one in the log file.

**SQL\*Loader-502**    **unable to open log file for write *name***

**Cause**    SQL\*Loader could not open the named file.

**Action**    Check that the file location is specified correctly and that write privileges for the file have been granted.

**SQL\*Loader-503**    **error appending extension to file *name***

**Cause**    SQL\*Loader could not append the default extension to create the filename. The given name could be too long or contain illegal characters.

**Action**    Check the specified filename.

**SQL\*Loader-504**    **error skipping records in file *name***

**Cause**    SQL\*Loader could not open the file or could not read from it.

**Action**    Check that the file is where it is expected and that read access has been granted.

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| <b>SQL*Loader–506</b> | <b>unable to open bad file <i>name</i></b>                                           |
| <b>Cause</b>          | SQL*Loader could not open the named file.                                            |
| <b>Action</b>         | Check the errors below it in the log file for more information.                      |
| <b>SQL*Loader–507</b> | <b>unable to open discard file <i>name</i></b>                                       |
| <b>Cause</b>          | SQL*Loader could not open the named file.                                            |
| <b>Action</b>         | Check the errors below this message in the log file for more information.            |
| <b>SQL*Loader–510</b> | <b>physical record in datafile <i>name</i> is longer than the maximum <i>num</i></b> |
| <b>Cause</b>          | The datafile has a physical record that is too long.                                 |
| <b>Action</b>         | Use CONCATENATE or CONTINUEIF. Break up the physical records.                        |
| <b>SQL*Loader–511</b> | <b>unable to initialize read functions</b>                                           |
| <b>Cause</b>          | SQL*Loader could not initialize the read functions.                                  |
| <b>Action</b>         | Check the errors below this message in the log file for more information.            |
| <b>SQL*Loader–512</b> | <b>unable to free read buffer</b>                                                    |
| <b>Cause</b>          | An internal error has occurred.                                                      |
| <b>Action</b>         | Contact customer support.                                                            |
| <b>SQL*Loader–513</b> | <b>unable to close file <i>name</i></b>                                              |
| <b>Cause</b>          | SQL*Loader could not close the named file.                                           |
| <b>Action</b>         | Check the errors below this message in the log file for more information.            |
| <b>SQL*Loader–514</b> | <b>error getting elapsed time</b>                                                    |
| <b>Cause</b>          | SQL*Loader could not get the elapsed time from the system.                           |
| <b>Action</b>         | No action required.                                                                  |
| <b>SQL*Loader–515</b> | <b>error getting CPU time</b>                                                        |
| <b>Cause</b>          | SQL*Loader could not get the CPU time from the system.                               |
| <b>Action</b>         | No action required.                                                                  |

## 00600–00619: Errors Occurring During the Load

### SQL\*Loader-516    control file *name* has no contents

**Cause**    The named file was found to be empty.

**Action**    Check that the intended file was referenced and that it is not empty.

### SQL\*Loader-517    error decomposing filename *name*

**Cause**    SQL\*Loader could not break down the filename into its component parts.

**Action**    Check the filename for illegal characters.

### SQL\*Loader-518    error reassembling filename *name*

**Cause**    SQL\*Loader could not put the filename back together again from its components.

**Action**    Check the filename for illegal characters.

### SQL\*Loader-519    error *num* writing to filename *name*

**Cause**    SQL\*Loader could not write to the named file. The error number displayed in the message is the one returned by the C language FWRITE function. More information can be obtained by accessing a C language reference manual for the system.

**Action**    Check that the file's location is where it is expected to be and that write privileges on it have been granted. Be sure that adequate disk space is available and that the disk quota is not exceeded.

---

## 00600–00619: Errors Occurring During the Load

### SQL\*Loader-600    specified max. bind size *num* bytes must be *num* bytes to hold 1 row

**Cause**    The space needed to contain a single row is longer than the specified bind size.

**Action**    One solution is to increase the amount of space allowed for the bind array, using the BINDSIZE keyword on the command line or in the OPTIONS statement in the control file.

If the row contains VARCHAR or VARGRAPHIC data, specifying a maximum length for these fields can also reduce the amount of memory needed to buffer a row.

|                       |                                                                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–601</b> | <b>for INSERT option, table must be empty. error on <i>name</i></b>                                                                                                                                                                |
| <b>Cause</b>          | A non-empty table is being loaded with the INSERT option.                                                                                                                                                                          |
| <b>Action</b>         | Use the REPLACE keyword to empty the old table and store the new data in its place. Use the APPEND keyword to leave the table's contents intact and add the new data to it.                                                        |
| <b>SQL*Loader–602</b> | <b>maximum converted length <i>num</i> of column <i>name.name</i> is too big for bind array</b>                                                                                                                                    |
| <b>Cause</b>          | The named column cannot undergo the specified character set conversion and still be placed in a contiguous piece of memory on the system.                                                                                          |
| <b>Action</b>         | Specify a shorter data column or eliminate the conversion.                                                                                                                                                                         |
| <b>SQL*Loader–603</b> | <b>maximum length <i>num</i> of column <i>name.name</i> is too big for bind array</b>                                                                                                                                              |
| <b>Cause</b>          | The named column cannot be put in a contiguous piece of memory on the system.                                                                                                                                                      |
| <b>Action</b>         | Specify a shorter data column.                                                                                                                                                                                                     |
| <b>SQL*Loader–604</b> | <b>error occurred on an attempt to commit</b>                                                                                                                                                                                      |
| <b>Cause</b>          | An error occurred while trying to commit changes to the database.                                                                                                                                                                  |
| <b>Action</b>         | Look at the message listed below this one in the log file for more information.                                                                                                                                                    |
| <b>SQL*Loader–605</b> | <b>non-data dependent Oracle error occurred load discontinued</b>                                                                                                                                                                  |
| <b>Cause</b>          | An error occurred that is independent of the data. For example, an out-of-space condition. Because all further rows will be rejected, the load is discontinued. (If the error were data dependent, then other rows might succeed.) |
| <b>Action</b>         | See the errors below this one in the log file for more information.                                                                                                                                                                |
| <b>SQL*Loader–606</b> | <b>synonym <i>name</i> refers to an object on a remote database</b>                                                                                                                                                                |
| <b>Cause</b>          | The synonym specified in the INTO TABLE clause in the SQL*Loader control file specifies a remote object via a database link. Only a synonym for an existing local table can be specified in the INTO TABLE clause.                 |
| <b>Action</b>         | Ensure that a local table name or a synonym for a local table is fully specified in the INTO TABLE clause. The table must already exist.                                                                                           |

**00620–00649: Formatting**

These are errors in data described by free-format (TERMINATED, ENCLOSED) statements in the control file. Format errors occur when the data does not meet format specifications and might cause the loading of incorrect data into the database. A format error causes the record to be written to the bad file because an attempt to insert data failed.

**SQL\*Loader-620    initial enclosing character not found**

**Cause**    A mandatory initial enclosure delimiter was not present. Either it is missing on the current field or the previous field is missing an identical closing delimiter.

**Action**    Supply the missing delimiters.

**SQL\*Loader-621    field in datafile exceeded maximum specified length**

**Cause**    Delimited data was specified with a maximum length, and the data value exceeded that length.

**Action**    Check for missing delimiters and/or shorten the field.

**SQL\*Loader-622    column not found before end of logical record (use TRAILING NULLCOLS)**

**Cause**    The logical record ended before all specified fields were found.

**Action**    If the missing fields should be loaded as null, use the TRAILING NULLCOLS clause. Otherwise, correct the data.

**SQL\*Loader-623    logical record ended — second enclosure character not present**

**Cause**    The logical end of record occurred before a second enclosure delimiter was found.

**Action**    Supply the missing delimiter.

**SQL\*Loader-624    no terminator found after TERMINATED and ENCLOSED field**

**Cause**    No termination delimiter was found after the enclosed field ended.

**Action**    Supply the missing termination delimiter.

**SQL\*Loader-625    multi-byte character error in control file**

**Cause**    Incomplete multi-byte character strings were found in the control file.

**Action**    Edit the control file to check that all multi-byte character data is valid.

**SQL\*Loader–640    variable length field was truncated**

**Cause**    The end of the logical record was encountered before the end of a variable length field. The length of each variable–length field is embedded in the field, so SQL\*Loader knows that more data should have been present.

**Action**    Check the data for inadvertent truncation and verify the control file specifications against the log file — the field may be starting in the wrong place.

**SQL\*Loader–641    invalid zoned decimal nibble**

**Cause**    Each byte (character) in a zoned decimal field contains two 4–bit nibbles. Each nibble must have a valid value.

**Action**    Check the control file’s specifications against the log file to ensure that the field location was specified correctly. Check the contents of the field.

**SQL\*Loader–642    relative start position > absolute field end position**

**Cause**    A field specified as POSITION(\*+n:y) had its relative start occur after the absolute position y.

**Action**    Check that a delimiter is not missing and that the values of *n* and *y* are correct.

---

**00700–00799: Fatal errors**
**SQL\*Loader–700    out of memory while performing essential allocations *num***

**Cause**    SQL\*Loader could not allocate the memory it needs.

**Action**    Check the operating system and process memory. Increase memory available to SQL\*Loader if possible. Otherwise, wait until more memory becomes available.

**SQL\*Loader–701    out of memory while allocating bind array**

**Cause**    SQL\*Loader could not allocate memory for the bind array.

**Action**    Check the operating system and process memory. Increase memory available to SQL\*Loader if possible. Otherwise, wait until more memory becomes available.

**SQL\*Loader–702    internal error – *str***

**Cause**    An internal error has occurred.

**Action**    Make a note of the message and contact customer support.



## 00900–00949: Direct Path Load Preparation

### SQL\*Loader-703    **internal error: argument *num***

**Cause**    An internal error has occurred.

**Action**    Make a note of the message and the number, then contact customer support.

### SQL\*Loader-704    **internal error: *str num***

**Cause**    An internal error has occurred.

**Action**    Make a note of the message and the number, then contact customer support.

### SQL\*Loader-705    **internal error**

**Cause**    An internal error has occurred.

**Action**    Contact customer support.

### SQL\*Loader-706    **bad argument to ulerr *num***

**Cause**    An internal error has occurred.

**Action**    Contact customer support.

---

## 00900–00949: Direct Path Load Preparation

### SQL\*Loader-901    **error logging on to Oracle**

**Cause**    An attempt was made to log on to Oracle in direct path load mode.

**Action**    Ensure that the instance is up and running. Check the Oracle messages below this one in the log file for more information.

### SQL\*Loader-902    **error opening cursor: *num***

**Cause**    An internal error has occurred.

**Action**    Check the Oracle messages below this one in the log file and contact customer support.

### SQL\*Loader-903    **database must be at least version *num* for direct path**

**Cause**    The direct path load mode is being used with an incompatible database.

**Action**    Upgrade the database to the specified version or else use the conventional path load.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–904</b> | <b>you cannot use the direct path when linked with v5 of the database</b>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cause</b>          | The direct path mode is being used after SQL*Loader has been linked with a Version 5 database.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Action</b>         | Use the conventional path.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SQL*Loader–905</b> | <b>error parsing SQL statement for upi: <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cause</b>          | Header message.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Action</b>         | Check the message below this one in the log file for more information.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SQL*Loader–906</b> | <b>error executing SQL statement for upi: <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cause</b>          | An internal error has occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Action</b>         | Check the message below this one in the log file for more information.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SQL*Loader–907</b> | <b>error parsing insert statement on table <i>name</i></b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cause</b>          | Loader cannot insert into the specified table.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Action</b>         | Check that the table exists and that insert privileges on it have been granted.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SQL*Loader–908</b> | <b>unable to lock table <i>name</i> in exclusive mode due to Oracle error <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cause</b>          | SQL*Loader could not get a DML exclusive lock on the table it needed.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Action</b>         | Check the message below this one in the log file for more information.<br>Find the object number of the table in the catalog view USER_OBJECTS.<br>Use the SQL*DBA MONITOR LOCK command to list all processes with outstanding locks. Identify the process that has the lock on the table.<br>Then use the MONITOR PROCESS command to find out who is connected as the Oracle process holding the lock and get them to relinquish it, or simply wait and retry. |
| <b>SQL*Loader–909</b> | <b>loader views must be loaded (as SYS) for direct path to be used</b>                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cause</b>          | Database views required for the direct path mode are not present.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Action</b>         | The <i>Oracle7 Server Administrator's Guide</i> details how to run the required scripts as user SYS for loading the required views.                                                                                                                                                                                                                                                                                                                             |
| <b>SQL*Loader–910</b> | <b>error binding input variables of upi: <i>num</i></b>                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cause</b>          | Header message.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Action</b>         | Check the message below this one in the log file for more information.                                                                                                                                                                                                                                                                                                                                                                                          |

## 00900–00949: Direct Path Load Preparation

### SQL\*Loader-911    **error defining output variables for upi: *num***

**Cause**    Header message.

**Action**    Check the message below this one in the log file for more information.

### SQL\*Loader-912    **tables loaded through the direct path may not be clustered**

**Cause**    A direct path load mode is being used to put data into a clustered table.

**Action**    Use the conventional path.

### SQL\*Loader-913    **error fetching results of select statement (upi): *num***

**Cause**    Header message.

**Action**    Check the message below this one in the log file for more information.

### SQL\*Loader-914    **error locking table *name* in exclusive mode**

**Cause**    The direct path load mode could not lock the named table.

**Action**    Check the message below this one in the log file for more information. Check that the necessary privileges have been granted.

### SQL\*Loader-915    **error closing cursor: *num***

**Cause**    Header message.

**Action**    Check the message below this one in the log file for more information.

### SQL\*Loader-916    **error checking path homogeneity**

**Cause**    To do a direct path load load when the front end and back end of the database are on separate hardware systems, the systems must be identical, using the same machine, operating system, and character set. This error occurs when SQL\*Loader detects a difference between the systems that will prevent a direct load from operating properly.

**Action**    Use a conventional path load for this configuration.

|                       |                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–917</b> | <b>error parsing insert statement on table <i>name</i></b>                                                                                                                                                                                  |
| <b>Cause</b>          | For security purposes, SQL*Loader generates a SQL INSERT statement and uses it to verify that the load specifications make sense and that the proper access privileges exist. This message occurs when the INSERT statement cannot be used. |
| <b>Action</b>         | Check the Oracle messages below this one in the log file for more information. Check that all the columns to be loaded exist and that insert privileges on the table exist. Finally, check any SQL strings defined for the named table.     |
| <b>SQL*Loader–918</b> | <b>the catalog must be loaded (as SYS) for SQL*Loader to be used</b>                                                                                                                                                                        |
| <b>Cause</b>          | The catalog is not loaded.                                                                                                                                                                                                                  |
| <b>Action</b>         | Logon as user SYS and load the Oracle7 catalog and the views in the script ULVIEW.SQL.                                                                                                                                                      |
| <b>SQL*Loader–919</b> | <b>error during upi fetch: <i>num</i></b>                                                                                                                                                                                                   |
| <b>Cause</b>          | An internal error has occurred.                                                                                                                                                                                                             |
| <b>Action</b>         | Check the message below this one in the log file for more information.                                                                                                                                                                      |
| <b>SQL*Loader–920</b> | <b>error deleting data from table <i>name</i> (due to REPLACE keyword)</b>                                                                                                                                                                  |
| <b>Cause</b>          | The REPLACE option is specified in the control file but SQL*Loader could not delete the data from the table.                                                                                                                                |
| <b>Action</b>         | Check the message below this one in the log file for more information.                                                                                                                                                                      |
| <b>SQL*Loader–921</b> | <b>NOT NULL column <i>name.name</i> has a NULLIF clause</b>                                                                                                                                                                                 |
| <b>Cause</b>          | A column that is NOT NULL in the database has a NULLIF clause in the control file.                                                                                                                                                          |
| <b>Action</b>         | Remove the NULLIF clause.                                                                                                                                                                                                                   |
| <b>SQL*Loader–922</b> | <b>NOT NULL column <i>name.name</i> has a default if clause which may evaluate to null</b>                                                                                                                                                  |
| <b>Cause</b>          | A column that is NOT NULL in the database has a NULLIF clause that may evaluate to null.                                                                                                                                                    |
| <b>Action</b>         | Remove the NULLIF clause.                                                                                                                                                                                                                   |

**SQL\*Loader-923    column *name* in table *name* is NOT NULL but is not being loaded**

**Cause**    A column that is NOT NULL in the database is not being loaded, so every row will be rejected.

**Action**    Load the column.

**SQL\*Loader-925    Error while *str***

**Cause**    An internal error has occurred.

**Action**    Check the message below this one in the log file for more information. The table or column referenced may not be accessible.

**SQL\*Loader-926    OCI error while executing *name* for table *name***

**Cause**    An OCI error has occurred.

**Action**    Check the message below this one in the log file for more information. The table or column referenced may not be accessible.

**SQL\*Loader-927    table *name* does not exist**

**Cause**    SQL\*Loader could not find the named table. The specified table may not exist. On some systems, this message will also appear if the necessary privileges have not been granted.

**Action**    Check that that the table exists, its name is spelled properly, and that the necessary privileges on it have been granted.

**SQL\*Loader-928    column *name.name* does not exist**

**Cause**    SQL\*Loader could not find the named table.

**Action**    Check that the column exists, its name is spelled properly, and the necessary privileges on it have been granted.

**SQL\*Loader-929    error parsing insert statement for table *name***

**Cause**    The table's insert statement caused a parse error.

**Action**    Check all SQL strings that were used.

**SQL\*Loader-930    error parsing insert statement for column *name***

**Cause**    The named column's INSERT statement caused a parse error.

**Action**    Check the message below this one in the log file for more information. Check the SQL string used for this column.

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| <b>SQL*Loader–931</b> | <b>OCI error while binding variable for column <i>name</i></b>                                               |
| <b>Cause</b>          | An OCI error has occurred.                                                                                   |
| <b>Action</b>         | Check the errors below it for more information. The SQL string for this column may be in error.              |
| <b>SQL*Loader–932</b> | <b>could not truncate table <i>name</i></b>                                                                  |
| <b>Cause</b>          | Truncation of the table was attempted and failed.                                                            |
| <b>Action</b>         | Check the following errors for more information. Truncation due to referential constraints should not occur. |
| <b>SQL*Loader–933</b> | <b>specified file <i>name</i> not part of database</b>                                                       |
| <b>Cause</b>          | The specified filename to load the table is not a database file.                                             |
| <b>Action</b>         | Specify a valid datafile.                                                                                    |
| <b>SQL*Loader–934</b> | <b>incorrect datafile <i>name</i> specified for table <i>tabnam</i></b>                                      |
| <b>Cause</b>          | A datafile name was given to load the table that is not part of the tablespace in which the table resides.   |
| <b>Action</b>         | Specify a valid datafile.                                                                                    |
| <b>SQL*Loader–935</b> | <b>error verifying required option for parallel load</b>                                                     |
| <b>Cause</b>          | An error was encountered because a required option was not found or was invalid.                             |
| <b>Action</b>         | Correct the problem as described in the accompanying Oracle message.                                         |

---

## 00950–00999: Direct Path Load Error–Header Messages

These messages are informational. They describe the kind of error that has occurred. Check the messages below them in the log file for more detailed information.

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <b>SQL*Loader–950</b> | <b>error shipping data structures across 2–task</b> |
| <b>SQL*Loader–951</b> | <b>error calling once/load initialization</b>       |

## **00950–00999: Direct Path Load Error–Header Messages**

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <b>SQL*Loader-952</b> | <b>error calling once/datafile initialization</b>                             |
| <b>SQL*Loader-953</b> | <b>error shipping read buffer across 2-task</b>                               |
| <b>SQL*Loader-954</b> | <b>error shipping index to read buffer across 2-task</b>                      |
| <b>SQL*Loader-955</b> | <b>error calling col array build, block formatter</b>                         |
| <b>SQL*Loader-956</b> | <b>error calling once/datafile finishing</b>                                  |
| <b>SQL*Loader-957</b> | <b>error shipping text string across 2-task</b>                               |
| <b>SQL*Loader-958</b> | <b>error popping data relocation address stack</b>                            |
| <b>SQL*Loader-959</b> | <b>error shipping buffer across 2-task</b>                                    |
| <b>SQL*Loader-960</b> | <b>error escalating DDL share lock to exclusive</b>                           |
| <b>SQL*Loader-961</b> | <b>error calling once/load finishing</b>                                      |
| <b>SQL*Loader-962</b> | <b>error setting user-side Ctrl-C handler</b>                                 |
| <b>SQL*Loader-963</b> | <b>error clearing user-side Ctrl-C handler</b>                                |
| <b>SQL*Loader-964</b> | <b>error logging off Oracle</b>                                               |
| <b>SQL*Loader-965</b> | <b>error <i>num</i> disabling constraint <i>name</i> of table <i>name</i></b> |
| <b>SQL*Loader-966</b> | <b>error <i>num</i> disabling all triggers on table <i>name</i></b>           |
| <b>SQL*Loader-967</b> | <b>Oracle error: <i>str</i></b>                                               |
| <b>SQL*Loader-968</b> | <b>error disconnecting from Oracle</b>                                        |
| <b>SQL*Loader-969</b> | <b>error performing filename translation on kernel side</b>                   |

# SQL\*Module Messages

**T**his chapter lists messages you might see when using SQL\*Module. For more information on SQL\*Module, see the *SQL\*Module User's Guide and Reference*. SQL\*Module issues error messages like the following:

MOD-F-0037: End of SQL statement or PL/SQL block not found

The error code consists of a prefix, severity code, and sequence number. The prefix MOD shows that the error was issued by SQL\*Module. There are four severity codes; the following list gives their meanings:

| <i>Code</i> | <i>Meaning</i>                                                                                                                                                       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| W           | Warning — despite an error, a compilable output file was created.                                                                                                    |
| S           | Severe error — despite an error, an output file was created. However, it might not be compilable. (Note: the file is created only if <code>RPC_GENERATE=NO</code> .) |
| F           | Fatal error — no output file was created because of an internal problem or because a resource (such as memory) was unavailable or ran out.                           |
| U           | Unrecoverable error — no output file was created because an input requirement was not met.                                                                           |

In addition to the errors generated by SQL\*Module, you might encounter errors at runtime. These errors have the prefixes SQL- and ORA-. SQL errors are generated by the routines in the SLLIB library; ORA errors are generated by the server.



**00000–00100: SQL\*Module Messages**

**MOD–00009     unable to open input file *name***

- Cause** SQL\*Module is not able to open the input file that was specified with the INAME option. This error can result from any of the following:
- The file does not exist.
  - The file exists, but in a directory not on the path specified.
  - You do not have the permissions or access rights required to read the file.
- Action** Check that the appropriate permission to read the file has been granted. Check that the name and directory hierarchy have been specified correctly. Rerun the compiler.

**MOD–00010     unable to open listing file *name***

- Cause** SQL\*Module is not able to create the listing output file. This usually happens when write permissions do not exist on the current directory or on the directory specified for the LNAME option. It can also happen if the name or directory path is not legal or a directory on the path does not exist.
- Action** Check the permissions on the specified path and file, or on the current directory if the LNAME option is not used.

**MOD–00011     unable to open output file *name***

- Cause** SQL\*Module is not able to create an output file, such as the specification file or the output code file. This usually happens when write permissions on the current directory or on the directory specified for the ONAME or SNAME options do not exist. It can also happen if the name or directory path is not legal or a directory on the path does not exist.
- Action** Check the permissions on the specified path and file, or on the current directory if the ONAME or SNAME options are not used.

**MOD-00012 encountered the symbol *name* when expecting one of the following...**

**Cause** This is caused by a syntax error in the Module Language file. For example, if the SQL statement

```
SELECT ename INTO :name FORM emp WHERE ...
```

is in a module procedure, the following message appears:

```
MOD-S-00012, Encountered the symbol FORM where expecting one of the
following:
, : INDICATOR FROM
```

This message is *not* triggered by semantic errors. See MOD-0075 on page 8 – 8 of this chapter.

**Action** Correct the syntax error, then recompile.

**MOD-00015 Oracle Error: *ora-nnnnn***

**Cause** This message results from an internal error: an invalid value for the mode of a bind variable.

**Action** Contact customer support.

**MOD-00016 out of space – unable to allocate *num* bytes**

**Cause** SQL\*Module could not allocate enough memory to run or to perform some required action.

**Action** Try killing some non-essential processes, then rerunning SQL\*Module. On some operating systems, there may be a quota for the amount of memory the processes can allocate. See the system administrator. If necessary, increase memory for the machine.

**MOD-00017 unable to connect to Oracle with *conn\_str:username/password*. Oracle error number *ora-nnnnn***

**Cause** The database connection or the username or the password that was specified was not correct. This message can result from an incorrect command-line specification or an incorrect specification of the username and/or password in the module AUTHORIZATION clause.

**Action** Look up the error number in the ORA message chapters of this manual for more specific information on the failure. Correct the identifiers, then rerun SQL\*Module.

## 00000–00100: SQL\*Module Messages

### MOD–00027    **no input file name specified**

**Cause**    The STORE\_PACKAGE=YES option was entered, but an input file using the INAME option was not specified.

**Action**    Use INAME on the command line.

### MOD–00036    **internal programming exception**

**Cause**    An internal error occurred.

**Action**    Contact customer support.

### MOD–00038    **module name required when output language is Ada**

**Cause**    A MODULE clause was not specified in the module source file, or a name for the module was not provided.

**Action**    Specify the module name in the module file.

### MOD–00039    **unable to open specifications file *name***

**Cause**    SQL\*Module is not able to create the specifications (header) output file. This usually happens when write permissions on the current directory or on the directory specified for the SNAME option do not exist. It can also happen if the name or directory path is not legal, a directory on the path does not exist, or the disk or file system is full.

**Action**    Check the permissions on the specified path and file or on the current directory if the SNAME options are not used. Check that the disk or file system is not full.

### MOD–00041    **ANSI violation at line *num*, column *colnam*: *text***

**Cause**    FIPS=YES was specified, and part of the module code was not compliant with the ANSI SQL92 Entry Level standard.

**Action**    Specify FIPS=NO (the default) or correct the code.

### MOD–00042    **cursor *name* is multiply declared**

**Cause**    The cursor named in the message was declared more than once in the module file.

**Action**    Check that each cursor names (not just in the module file, but in the entire application) is unique.

- MOD-00043      procedure *name* is multiply declared**
- Cause** A procedure named X was declared more than once in the module file.
- Action** Check that each procedure name (not just in the module file, but in the entire application) is unique.
- 
- MOD-00044      parameter *param* in procedure *name* is multiply declared**
- Cause** In the procedure named in the message, a parameter was declared with a name that duplicates another parameter's name.
- Action** Check that each parameter name in a procedure is unique.
- 
- MOD-00046      cursor *name* has not been declared**
- Cause** In the module file, an OPEN, FETCH, or CLOSE was attempted on a cursor that had not yet been declared.
- Action** Insert an appropriate cursor declaration in the module file. Remember that cursors must be declared in the file *before* they are acted upon.
- 
- MOD-00047      an open statement already exists for cursor *name***
- Cause** More than one procedure in this module contains an OPEN command on the named cursor.
- Action** Remove one of the OPEN commands, as there is no need for redundancy.
- 
- MOD-00048      cursor *name* was never opened**
- Cause** No OPEN command exists in the module for the cursor named in this message.
- Action** Add an OPEN command or remove the cursor if it is not needed.
- 
- MOD-00049      unable to initialize PL/SQL**
- Cause** This message usually results when SQL\*Module cannot connect to the database, using the username and password mentioned either in the module's AUTHORIZATION clause or on the command line with the USERID option.
- Action** If connection is made using SQL\*Net, check that a listener process is running and that the service name specified in the AUTHORIZATION clause or on the command line is in the *tnsnames.ora* file. If the connect parameters are correct and this problem persists, contact customer support.

**MOD–00050    formal parameter *param* is not used in procedure**

**Cause**    A formal parameter was declared in a procedure, but never used.

**Action**    Remove the parameter declaration or use it in the procedure.

**MOD–00054    *name* is not a valid cursor reference**

**Cause**    An attempt was made to OPEN a cursor that had not been declared.

**Action**    Declare the cursor or remove the erroneous reference to it.

**MOD–00059    INTO variable *var* was not listed as a formal parameter**

**Cause**    The target of an INTO clause in a SELECT statement is not a parameter of the procedure

**Action**    Declare the parameter using the correct datatype in the procedure's parameter list.

**MOD–00060    PL/SQL error in compiling package specification**

**Cause**    A semantic error occurred in the PL/SQL parse phase when running SQL\*Module.

**Action**    Check that all database objects are valid. To get more information, rerun SQL\*Module with OUTPUT=PACKAGE, and check the output PL/SQL code specification file (it has a .pks extension). See the *PL/SQL User's Guide and Reference* for more information.

**MOD–00061    PL/SQL error in compiling package body**

**Cause**    A semantic error occurred in the PL/SQL parse phase when running SQL\*Module.

**Action**    Check that all database objects are valid. To get more information, rerun SQL\*Module with OUTPUT=PACKAGE, and check the output PL/SQL code file (it has a .pkb extension). See the *PL/SQL User's Guide and Reference* for more information.

**MOD–00062    host variable for indicator is not recognized**

**Cause**    A host variable that was used as an indicator variable was not declared.

**Action**    Declare the host variable or, if possible, remove the indicator variable from the SQL statement.

|                  |                                                                                                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MOD-00063</b> | <b>procedure <i>name</i>, parameter <i>param</i>: illegal interface type type</b>                                                                                                                                                                                            |
| <b>Cause</b>     | When attempting to generate an interface procedures (stubs) file, the WITH INTERFACE PROCEDURE clause in the referenced stored package or stored procedure contained a parameter having an illegal datatype.                                                                 |
| <b>Action</b>    | Correct the datatype. Datatypes in a WITH INTERFACE clause must be SQL datatypes, not PL/SQL datatypes.                                                                                                                                                                      |
| <b>MOD-00064</b> | <b>procedure <i>name</i>: extra parameter <i>param</i> in interface</b>                                                                                                                                                                                                      |
| <b>Cause</b>     | An unused parameter was declared in the WITH INTERFACE clause of a stored package or a stored procedure.                                                                                                                                                                     |
| <b>Action</b>    | Correct the WITH INTERFACE clause in the package.                                                                                                                                                                                                                            |
| <b>MOD-00065</b> | <b>interface definition missing for procedure <i>name</i></b>                                                                                                                                                                                                                |
| <b>Cause</b>     | An attempt was made to generate stubs for a package that does not contain a WITH INTERFACE clause for one or more procedures.                                                                                                                                                |
| <b>Action</b>    | Add the WITH INTERFACE clause to the package spec.                                                                                                                                                                                                                           |
| <b>MOD-00066</b> | <b>unable to load package <i>name</i> from database</b>                                                                                                                                                                                                                      |
| <b>Cause</b>     | The package name that was specified using the PNAME option is not correct, or SQL*Module could not access the database schema required.                                                                                                                                      |
| <b>Action</b>    | Check that the specified package exists and has a valid status. Check the STATUS column of the USER_OBJECTS table for that schema to check that the package is valid.                                                                                                        |
| <b>MOD-00067</b> | <b>package name is required but not specified</b>                                                                                                                                                                                                                            |
| <b>Cause</b>     | The options and values RPC_GENERATE=YES and STORE_PACKAGE=YES were specified, but a package name using the PNAME option was not specified.                                                                                                                                   |
| <b>Action</b>    | Add the PNAME option.                                                                                                                                                                                                                                                        |
| <b>MOD-00068</b> | <b>could not find or open system configuration file</b>                                                                                                                                                                                                                      |
| <b>Cause</b>     | This is a warning message. SQL*Module is not able to find the system configuration file or is not able to open the file. The location of the system configuration file is system specific. See your operating system-specific documentation for the location on your system. |
| <b>Action</b>    | Check that the file exists and that read permission or the appropriate access rights are set for it. The file must exist to avoid this warning message; however, it can be empty.                                                                                            |

**MOD–00069    Oracle error N while attempting to store package**

**Cause**    SQL\*Module’s attempt to store the package in the database failed.

**Action**    Look up the error number in this manual and correct the problem.

**MOD–00070    procedure *name* interface is missing declaration for *indvar***

**Cause**    An indicator variable was specified in the WITH INTERFACE clause, but the associated main variable was not declared there.

**Action**    Modify the WITH INTERFACE clause. Either remove the indicator variable or declare a host variable for it.

**MOD–00072    PNAME option is specified but not meaningful**

**Cause**    The PNAME option was used when there was no need for it. The PNAME option is only required when you specify RPC\_GENERATE, STORE\_PACKAGE, or both.

**Action**    Correct the command line.

**MOD–00073    INAME option is specified but not meaningful**

**Cause**    The INAME option was used when it was not required. For example, INAME is not required when RPC\_GENERATE=YES and the PNAME option are specified.

**Action**    Do not use the INAME option.

**MOD–00074    ONAME option is specified but not meaningful**

**Cause**    The ONAME option was used when it was not required. For example, the ONAME option is not required when RPC\_GENERATE=NO, and STORE\_PACKAGE=YES, or the OUTPUT values list does not contain the CODE value.

**Action**    Do not use the ONAME option.

**MOD–00075    error at line N. PLS–N: *text***

**Cause**    A semantic error occurred in the PL/SQL parse phase when running SQL\*Module.

**Action**    Check that all database objects are valid. To get more information, rerun SQL\*Module with OUTPUT=PACKAGE, and check the output PL/SQL code file (it has a *.pkb* extension). See the *PL/SQL User’s Guide and Reference* for more information

- MOD-00076     ANSI violation at line N. PLS-N: *text***
- Cause** FIPS=YES was specified and part of the module code is not compliant with the ANSI SQL92 Entry Level standard.
- Action** Specify FIPS=NO (the default) or correct the code.
- MOD-00077     mandatory parameter SQLCODE or SQLSTATE is missing**
- Cause** Include a status parameter — SQLCODE, SQLSTATE, or both — in every parameter definition.
- Action** Include SQLCODE or SQLSTATE.
- MOD-00078     must specify a user if generating stubs from stored package**
- Cause** Because no USERID was specified, SQL\*Module cannot connect to the server to create stubs (an interface procedures file) from the stored package.
- Action** Specify the service name (if not connecting to the default database), and the username and password. Do this either on the command line or in a configuration file.
- MOD-00079     SQLCHECK must be SEMANTICS when RPC\_GENERATE=yes**
- Cause** SQLCHECK=SYNTAX (or SQLCHECK=NONE) cannot be specified when creating a stubs file.
- Action** Remove the SQLCHECK=SYNTAX or SQLCHECK=NONE specification from the command line or the configuration file.
- MOD-00080     error extracting stored package source.**
- Cause** OUTPUT=PACKAGE was requested on the command line or in a configuration file, and a package of the name specified does not exist in the schema or is marked as INVALID.
- Action** Check that the named package exists and is valid.
- MOD-00081     failed assertion**
- Cause** Some part of the input to SQL\*Module caused an error or warning condition. This message always follows a specific error or warning message.
- Action** No action required for this message. Correct the previous errors.



## 00000–00100: SQL\*Module Messages

### **MOD–00086     error: couldn't install username. Aborted...**

**Cause**     The server rejected a username.

**Action**     If the username is valid, contact customer support.

### **MOD–00088     feature not implemented yet**

**Cause**     SQL\*Module encountered a SQL statement that it can compile, but that uses a feature not yet implemented.

**Action**     Contact Oracle Languages Product Management.

### **MOD–00093     SNAME option is specified but not meaningful**

**Cause**     The SNAME option was used when it was not required. For example, no SNAME option is required if the values list of the OUTPUT option does not include the value SPECIFICATION.

**Action**     Do not use the SNAME option.

### **MOD–00094     extension in PNAME option is specified but not meaningful**

**Cause**     A filename extension was included in the value of a PNAME option. Packages are database objects, not files.

**Action**     Remove the extension.

### **MOD–00095     Datatype “X” is not valid for the host language**

**Cause**     A datatype was used that is not supported for the host language. For example, NUMERIC is not a supported datatype for Ada and C.

**Action**     Refer to the *Programmer's Guide to the Oracle Precompilers* for a list of the datatypes supported in each host language.

### **MOD–00096     LNAME option is specified but not meaningful**

**Cause**     The OUTPUT option list does not contain the value LIST.

**Action**     Add LIST to the list of values of the OUTPUT option.

**MOD-00097    WITH INTERFACE must be specified for this host language**

**Cause**    A PL/SQL package or function specification did not have a WITH INTERFACE clause. Currently, MODADA requires the WITH INTERFACE clause to be present in order to create calls to a PL/SQL function or package.

**Action**    Rewrite PL/SQL package or function specification to include a WITH INTERFACE clause. Alternatively, write a PL/SQL package or function specification which has a WITH INTERFACE clause and have it call the original PL/SQL package.

**MOD-00098    WITH INTERFACE may only be defaulted when bind=late**

**Cause**    A Command line option, “bind=early” was specified while creating calls to a PL/SQL package or function without a WITH INTERFACE clause.

**Action**    Change the command line option to “bind=late”, or include a WITH INTERFACE clause in the PL/SQL specification (see error 97 action).

**MOD-00099    type *name* is invalid when storing a module (store=yes)**

**Cause**    The module contained a type for which there is currently no equivalent PL/SQL type; it may not be stored in the database.

**Action**    Set the command line option to STORE=NO or move the procedures containing the offending type to another module and compile that module with STORE=NO.



## A

# Messages Alphabetically

**T**his appendix contains an alphabetical list of the messages that appear earlier in this book. You can use this list to find a message number if you know the first few words of a message. For example, if you know the message begins with the words “conversion data..”, you would find the message in this appendix that begins with these words, see that ORA-00404 is the message number you need, and then refer to the appropriate chapter for more information contained in the Cause and Action statements that accompany each message. See the section in Chapter 1, “Locating Messages” on page 1-2 for more general information about interpreting messages, such as message stacks.

If you cannot find the message you are looking for, it may begin with *variable text*. Message that begin with variable text are listed on page A – 2 under “Messages Beginning with Variable Text”.

In this manual, variable text in a message is denoted by italics; for example: *var*, *name*, *num*, *str*, *string*, and so on. For example:

**PLS-00365, FOOBAR is an OUT parameter and cannot be read**

appears in this appendix as:

**PLS-00365, *var* is an out expression and cannot be read**

---

## Messages Beginning with Variable Text

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
| DBA-00341 | <i>name</i> is an undefined bind variable                                                |
| DBA-00366 | <i>name</i> <i>name</i> is malformed, it must be of form [[a.]b.]c@dblink                |
| EXP-00010 | <i>name</i> is not a valid username                                                      |
| MOD-00054 | <i>name</i> is not a valid cursor reference                                              |
| ORA-00266 | <i>name</i> of archived log file needed                                                  |
| ORA-00267 | <i>name</i> of archived log file not needed                                              |
| ORA-00955 | <i>name</i> is already used by an existing object                                        |
| ORA-01111 | <i>name</i> for datafile <i>name</i> is unknown - rename to correct file                 |
| ORA-02264 | <i>name</i> already used by an existing constraint                                       |
| ORA-04062 | <i>name</i> of <i>name</i> has been changed                                              |
| ORA-04063 | <i>name</i> has errors                                                                   |
| ORA-04090 | <i>name</i> specifies same table, event and trigger time as <i>name</i>                  |
| ORA-23368 | <i>name</i> <i>name</i> cannot be null or the empty string                               |
| PLS-00124 | <i>name</i> of exception expected for first argument in EXCEPTION_INIT pragma            |
| PLS-00221 | <i>name</i> is not a procedure or is undefined                                           |
| PLS-00313 | <i>name</i> not declared in this scope                                                   |
| PLS-00353 | <i>name</i> must name a user in the database                                             |
| PLS-00356 | <i>name</i> must name a table to which the user has access                               |
| PLS-00365 | <i>name</i> is an OUT parameter and cannot be read                                       |
| PLS-00704 | <i>name</i> must be declared as an exception                                             |
| PLS-01456 | <i>name</i> length cannot exceed 3.                                                      |
| ORA-08002 | <i>name</i> .CURRVAL is not yet defined in this session                                  |
| EXP-00011 | <i>name.name</i> does not exist                                                          |
| ORA-08004 | <i>name</i> .NEXTVAL <i>str</i> [MIN][MAX]VALUE and cannot be instantiated               |
| EXP-00012 | <i>num</i> is not a valid export mode                                                    |
| ORA-00403 | <i>str</i> ( <i>str</i> ) is not the same as other instances <i>str</i>                  |
| ORA-20000 | <i>application_specific_message</i>                                                      |
| ORA-23300 | <i>application_specific_message</i>                                                      |
| PCC-00045 | <i>clause_name</i> clause inappropriate at line <i>num</i> in file <i>name</i> . Ignored |

---

## Messages in Alphabetic Order

|           |                                                                                 |
|-----------|---------------------------------------------------------------------------------|
| PCC-00075 | "'" expected before indicator variable                                          |
| PLS-00407 | '*' not allowed here; a list of columns is required                             |
| ORA-02056 | 2PC: str: bad two-phase command number num from name                            |
| ORA-02057 | 2PC: str: bad two-phase recovery state number num from name                     |
| ORA-01417 | a table may be outer joined to at most one other table                          |
| ORA-01429 | a date in binary format has an out of range value                               |
| ORA-01468 | a predicate may reference only one outer-joined table                           |
| ORA-01530 | a database already mounted by the instance                                      |
| ORA-01531 | a database already open by the instance                                         |
| ORA-01701 | a cluster is not appropriate here                                               |
| ORA-01702 | a view is not appropriate here                                                  |
| ORA-01726 | a table is not appropriate here                                                 |
| ORA-01754 | a table may contain only one column of type LONG                                |
| ORA-01799 | a column may not be outer-joined to a subquery                                  |
| ORA-01800 | a literal in the date format was too large to process                           |
| ORA-01858 | a non-numeric character found where a digit was expected                        |
| ORA-01859 | a non-alphabetic character was found where a letter was expected                |
| ORA-02033 | a cluster index for this cluster already exists                                 |
| ORA-02082 | a loop-back database link must have a connection qualifier                      |
| ORA-02185 | a token other than WORK follows COMMIT                                          |
| ORA-03112 | a server linked as single-task cannot use SQL*Net                               |
| ORA-12000 | a snapshot log already exists on table name                                     |
| ORA-12006 | a snapshot with the same user.name already exists                               |
| ORA-13014 | a topology identifier outside the range of 1 to 8 was specified                 |
| ORA-23317 | a communication failure has occurred                                            |
| ORA-23318 | a DDL failure has occurred                                                      |
| ORA-25112 | a bitmap index may index only one column                                        |
| PCC-02354 | A file included with #INCLUDE cannot contain SQL statements                     |
| PCC-02395 | A VARCHAR cannot be declared in file filename, which is included using #include |
| PLS-00218 | a variable declared NOT NULL must have an initialization assignment             |
| PLS-00312 | a positional parameter association may not follow a named association           |
| PLS-00328 | a subprogram body must be defined for the forward declaration of name           |
| PLS-00335 | a package name conflicts with an existing object                                |
| PLS-00361 | a cursor variable must be IN OUT to be OPENed                                   |
| PLS-00367 | a RAISE statement with no exception name must be inside an exception handler    |
| PLS-00450 | a variable of this private type cannot be declared here                         |
| PLS-00507 | a PL/SQL table may not contain a table or record with composite fields          |
| PLS-00511 | a record may not contain a PL/SQL table of records                              |
| PLS-00902 | a read-only bind variable used in OUT or IN OUT context                         |
| PLS-01711 | a SELECT statement may not contain ORDER_BY, HAVING, or GROUP_BY clause         |
| IMP-00009 | abnormal end of export file                                                     |
| ORA-01708 | ACCESS or SESSION expected                                                      |
| ORA-09122 | access to object "name" denied                                                  |
| ORA-13106 | acknowledgment on pipe name interrupted                                         |
| ORA-01548 | active rollback segment "name" found, terminate dropping tablespace             |
| ORA-01200 | actual file size of num is smaller than correct size of num blocks              |

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| ORA-01117 | adding file name with illegal block size num, limit is num                                         |
| ORA-00081 | address range [num1, num2) is not readable                                                         |
| PLS-00205 | aggregate not allowed here                                                                         |
| PLS-00402 | alias required in SELECT list of cursor to avoid duplicate column names                            |
| PLS-01422 | aliases                                                                                            |
| EXP-00005 | all allowable logon attempts failed                                                                |
| IMP-00005 | all allowable logon attempts failed                                                                |
| ORA-00352 | all logs for thread num need to be archived - cannot enable                                        |
| ORA-00391 | all threads must switch to new log format at the same time                                         |
| ORA-02025 | all tables in the SQL statement must be at the remote database                                     |
| PCC-00064 | All uses of a given host variable must use identical indicator variables                           |
| ORA-03286 | ALLOCATE EXTENT not valid for HASH CLUSTERS                                                        |
| PCC-00011 | Already in a Declare Section at line num in file name                                              |
| ORA-00948 | ALTER CLUSTER statement no longer supported                                                        |
| ORA-01093 | ALTER DATABASE CLOSE only permitted with no sessions connected                                     |
| ORA-01094 | ALTER DATABASE CLOSE in progress. Connections not permitted                                        |
| ORA-01404 | ALTER COLUMN will make a concatenated index too large                                              |
| ORA-01447 | ALTER TABLE does not operate on clustered columns                                                  |
| ORA-02204 | ALTER, INDEX, REFERENCE, and EXECUTE not allowed for views                                         |
| PLS-01505 | ALTER is non-ANSI                                                                                  |
| ORA-01855 | AM/A.M. or PM/P.M. required                                                                        |
| ORA-00960 | ambiguous column naming in select list                                                             |
| PCC-00029 | Ambiguous option optnam                                                                            |
| ORA-01814 | AM/PM conflicts with use of A.M./P.M.                                                              |
| DBA-00378 | an item has to be selected before help can be sought for it                                        |
| MOD-00047 | an open statement already exists for cursor name                                                   |
| ORA-01153 | an incompatible media recovery is active                                                           |
| ORA-01241 | an external cache has died                                                                         |
| ORA-01705 | an outer join cannot be specified on a correlation column                                          |
| ORA-03131 | an invalid buffer was provided for the next piece                                                  |
| ORA-13007 | an invalid HEX character was detected                                                              |
| ORA-13010 | an invalid number of arguments has been specified                                                  |
| ORA-13012 | an invalid window type was specified                                                               |
| PCC-02368 | An EXEC TOOLS host variable context name is not type char                                          |
| PCC-02369 | An EXEC TOOLS host pointer variable is not a pointer                                               |
| PCC-02370 | An EXEC TOOLS message host variable is not type char                                               |
| PLS-00210 | an OTHERS clause is required in this CASE statement                                                |
| PLS-00428 | an INTO clause is expected in this SELECT statement                                                |
| PLS-01406 | an identifier has been found that is considered a keyword in ANSI's grammar<br>but not in PL/SQL's |
| ORA-00061 | another instance has a different DML_LOCKS setting                                                 |
| ORA-02051 | another session in same transaction failed                                                         |
| ORA-08008 | another instance is mounted with USE_ROW_ENQUEUEES = num                                           |
| MOD-00041 | ANSI violation at line num, column colnam: text                                                    |
| MOD-00076 | ANSI violation at line N. PLS-N: text                                                              |
| PCC-00079 | ANSI requires colon on label in WHENEVER statement                                                 |
| PLS-01404 | ANSI Identifiers can only consist of letters, digits, and the underscore<br>character              |
| PLS-01469 | ANSI standard does not permit records                                                              |

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| PLS-01712 | ANSI does not allow bind variables as INDICATORS                              |
| PLS-01714 | ANSI expects a column name not a literal value here                           |
| PLS-01715 | ANSI does not accept SAVEPOINTS                                               |
| ORA-23302 | application raised communication failure during deferred RPC                  |
| ORA-23303 | application raised generic exception during deferred RPC                      |
| ORA-20000 | application_specific_message                                                  |
| ORA-23300 | application_specific_message                                                  |
| ORA-00473 | ARCH process terminated with error                                            |
| ORA-13133 | archive request failed                                                        |
| ORA-00310 | archived log contains sequence num; sequence num required                     |
| ORA-00325 | archived log for thread num, wrong thread # num in header                     |
| ORA-00328 | archived log ends at change num, need later change num                        |
| ORA-00329 | archived log begins at change num, need change num                            |
| ORA-00330 | archived log ends at change num, need change num                              |
| ORA-00332 | archived log is too small - may be incompletely archived                      |
| ORA-00334 | archived log: name                                                            |
| ORA-00339 | archived log does not contain any redo                                        |
| ORA-00342 | archived log was created before last RESETLOGS                                |
| ORA-02166 | ARCHIVELOG and NOARCHIVELOG specified                                         |
| ORA-00250 | archiver not started                                                          |
| ORA-00257 | archiver is stuck. CONNECT INTERNAL only, until freed                         |
| ORA-01428 | argument num is out of range                                                  |
| ORA-23430 | argument name cannot be NULL or empty string                                  |
| PCC-02320 | Arithmetic expression does not have correct operand types                     |
| ORA-01060 | array binds or executes not allowed                                           |
| ORA-01478 | array bind may not include any LONG columns                                   |
| PCC-00044 | Array size mismatch in INTO/USING. Minimum is: min (num:num)                  |
| PCC-00055 | Array name not allowed as bind variable at line num in file name              |
| PCC-00094 | Array length for char[n] datatype must be => 2                                |
| PCC-00096 | Array FETCH not allowed for MODE=ANSI14                                       |
| PCC-00115 | Array required here                                                           |
| PLS-00418 | array bind type must match PL/SQL table row type                              |
| ORA-01484 | arrays can only be bound to PL/SQL statements                                 |
| PCC-00121 | Arrays of VARCHAR pointers are not supported                                  |
| PCC-02312 | Arrays of VARCHAR greater than two dimensions not allowed                     |
| PCC-02377 | Arrays of implicit VARCHARs are not permitted                                 |
| PCC-02383 | Arrays of National Language variables are not permitted                       |
| PCC-02388 | Arrays not allowed in FROM/WHERE clause of SELECT statement                   |
| PCC-02389 | Arrays not allowed as input bind variables in SELECT list                     |
| EXP-00031 | arraysize not in valid range. Using arraysize=num                             |
| ORA-04015 | ascending sequences that CYCLE must specify MAX VALUE                         |
| PLS-00359 | assignment target in str must have components                                 |
| ORA-01600 | at most one str in clause str of GC_FILES_TO_LOCKS                            |
| ORA-06512 | at str line num                                                               |
| PCC-00103 | AT clause is an Oracle extension                                              |
| PLS-00105 | at most one forward declaration of type name is permitted                     |
| PLS-00371 | at most one declaration for name is permitted in the declaration section      |
| ORA-01581 | attempt to use rollback segment name new extent name which is being allocated |



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| ORA-01594    | attempt to wrap into rollback segment name extent num which is being freed |
| ORA-02048    | attempt to begin distributed transaction without logging on                |
| ORA-02195    | attempt to create name object in a name tablespace                         |
| ORA-03122    | attempt to close Oracle-side window on user side                           |
| PCC-02332    | Attempted to redefine SQL identifier                                       |
| ORA-01675    | attempting a secondary mount of a standby database                         |
| PLS-00229    | attribute expression within SQL expression                                 |
| ORA-12443    | audit option already exists at a different label                           |
| ORA-00443    | background process name did not start                                      |
| ORA-00444    | background process name failed while starting                              |
| ORA-00445    | background process name did not start after num seconds                    |
| ORA-00446    | background process started when not expected                               |
| ORA-00449    | background process name unexpectedly terminated with error num             |
| ORA-01077    | background process initialization failure                                  |
| ORA-01906    | BACKUP keyword expected                                                    |
| DBA-00136    | bad variable specification                                                 |
| ORA-01899    | bad precision specifier                                                    |
| ORA-13016    | bad partition definition                                                   |
| ORA-13018    | bad distance type                                                          |
| ORA-23377    | bad name name for missing_rows_oname1 argument                             |
| ORA-24300    | bad value for mode                                                         |
| ORA-24305    | bad bind or define context                                                 |
| ORA-24306    | bad buffer for piece                                                       |
| SQL*Load-706 | bad argument to ulerr num                                                  |
| ORA-13100    | badly formed request frame                                                 |
| ORA-01815    | BC/AD conflicts with use of B.C./A.D.                                      |
| ORA-01856    | BC/B.C. or AD/A.D. required                                                |
| ORA-01642    | begin backup not needed for read-only tablespace name                      |
| PLS-00214    | BEGIN...END block nesting is too deep                                      |
| ORA-12451    | binary OS label could not be translated into string label                  |
| ORA-01006    | bind variable does not exist                                               |
| ORA-01027    | bind variables not allowed for data definition operations                  |
| ORA-01049    | bind by name is not supported in streamed RPC                              |
| ORA-02039    | bind by value is not allowed for array type                                |
| PCC-00083    | Bind and define variables not allowed in CREATE statement                  |
| PLS-00110    | bind variable name not allowed in this context                             |
| ORA-09117    | bind-value cannot be translated into SQL text                              |
| ORA-25111    | BITMAP may not be used with a cluster index                                |
| ORA-00209    | block size num exceeds limit of num bytes                                  |
| ORA-00212    | block size num below minimum required size of num bytes                    |
| ORA-01162    | block size num in file header does not match DB_BLOCK_SIZE num             |
| ORA-01188    | block size num in header does not match physical block size                |
| ORA-01498    | block Check Failure - see trace file                                       |
| PCC-02335    | Body of cursor must name statement identifier                              |
| PCC-02343    | Body of cursor must be a query expression                                  |
| ORA-00702    | bootstrap version version inconsistent with version version                |
| ORA-00704    | bootstrap process failure                                                  |
| ORA-03274    | both ALLOCATE EXTENT and DEALLOCATE UNUSED options are specified           |
| ORA-03288    | both FREELIST GROUP and INSTANCE parameters may not be specified           |

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| PCC-00060 | Both CURSOR and STATEMENT have AT clauses at line num of file name   |
| ORA-03111 | break received on communication channel                              |
| ORA-06558 | buffer in DBMS_PIPE package is full. No more items allowed           |
| ORA-13105 | buffer overflow encountered on pipe name                             |
| ORA-01718 | BY ACCESS   SESSION clause not allowed for NOAUDIT                   |
| PCC-02210 | C++ punctuation sequences are not permitted                          |
| ORA-24303 | call not supported in non-deferred linkage                           |
| EXP-00021 | can only perform incremental export in Full Database mode            |
| ORA-01461 | can bind a LONG value only for insert into a LONG column             |
| ORA-02030 | can only select from fixed tables/views                              |
| DBA-00142 | cannot recognize object type, owner or name                          |
| DBA-00301 | cannot SET INSTANCE while connected to a database                    |
| DBA-00307 | cannot open spool file name                                          |
| DBA-00309 | cannot close spool file name                                         |
| DBA-00310 | cannot open parameter file name                                      |
| DBA-00315 | cannot open command file name                                        |
| DBA-00316 | cannot start up while connected to a database                        |
| DBA-00319 | cannot locate sqldba configuration file name                         |
| DBA-00320 | cannot open sqldba configuration file name                           |
| DBA-00331 | cannot allocate enough memory for SQL buffer                         |
| DBA-00371 | cannot open/locate input help file, name                             |
| DBA-00372 | cannot open/locate input index file, name                            |
| DBA-00373 | cannot allocate memory of size num from toolkit                      |
| DBA-00388 | cannot start SQL*DBA in screen mode; check if values are legal       |
| EXP-00035 | cannot specify Rows=N and Compress=Y                                 |
| IMP-00029 | cannot qualify table name by owner name.name, use FROMUSER parameter |
| ORA-00027 | cannot kill current session                                          |
| ORA-00034 | cannot COMMIT or ROLLBACK in current PL/SQL session                  |
| ORA-00069 | cannot acquire lock -- table locks disabled for name                 |
| ORA-00078 | cannot dump variables by name                                        |
| ORA-00106 | cannot startup/shutdown database when connected to a dispatcher      |
| ORA-00122 | cannot initialize network configuration                              |
| ORA-00200 | cannot create control file name                                      |
| ORA-00210 | cannot open control file name                                        |
| ORA-00213 | cannot reuse control file name; old file size num, num required      |
| ORA-00260 | cannot find online log sequence num for thread num                   |
| ORA-00308 | cannot open archived log name                                        |
| ORA-00311 | cannot read header from archived log                                 |
| ORA-00320 | cannot read file header from log name of thread num                  |
| ORA-00361 | cannot remove last log member name group num                         |
| ORA-00364 | cannot write header to new log member                                |
| ORA-00981 | cannot mix table and system auditing options                         |
| ORA-01011 | cannot use V7 compatibility mode when talking to V6 server           |
| ORA-01038 | cannot write datafile version num with Oracle Version num            |
| ORA-01046 | cannot acquire space to extend context area                          |
| ORA-01050 | cannot acquire space to open context area                            |
| ORA-01071 | cannot perform operation without starting up Oracle                  |
| ORA-01072 | cannot stop Oracle; Oracle not running                               |
| ORA-01074 | cannot shut down Oracle; inside a logon session - log off first      |

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| ORA-01081 | cannot start already-running Oracle - shut it down first                 |
| ORA-01087 | cannot start up Oracle - currently logged on                             |
| ORA-01088 | cannot shut down Oracle while active processes exist                     |
| ORA-01097 | cannot shutdown while in a transaction - commit or rollback              |
| ORA-01099 | cannot mount database in SHARED mode if started in single process mode   |
| ORA-01102 | cannot mount database in exclusive mode                                  |
| ORA-01118 | cannot add any more datafiles: limit of num exceeded                     |
| ORA-01120 | cannot remove online datafile name; database is open or mounted parallel |
| ORA-01121 | cannot rename datafile name - file is in use or recovery                 |
| ORA-01123 | cannot start online backup; media recovery not enabled                   |
| ORA-01124 | cannot recover online file name - file is in use or recovery             |
| ORA-01125 | cannot disable media recovery - file name has online backup set          |
| ORA-01128 | cannot start online backup - file name is offline                        |
| ORA-01140 | cannot end online backup - all files are offline                         |
| ORA-01142 | cannot end online backup - none of the files are in backup               |
| ORA-01143 | cannot disable media recovery - file name needs media recovery           |
| ORA-01146 | cannot start online backup - file name is already in backup              |
| ORA-01149 | cannot shutdown - file name has online backup set                        |
| ORA-01150 | cannot prevent writes - file name has online backup set                  |
| ORA-01157 | cannot identify datafile name - file not found                           |
| ORA-01180 | cannot create datafile 1                                                 |
| ORA-01182 | cannot create datafile name - file is in use or recovery                 |
| ORA-01183 | cannot mount database in SHARED mode                                     |
| ORA-01187 | cannot read from file name because it failed verification tests          |
| ORA-01230 | cannot make read only - file name is offline                             |
| ORA-01231 | cannot make read write - file name is offline                            |
| ORA-01232 | cannot start online backup - file name is read only                      |
| ORA-01407 | cannot update mandatory NOT NULL column to NULL                          |
| ORA-01411 | cannot store the length of column in the indicator                       |
| ORA-01437 | cannot have join with CONNECT BY                                         |
| ORA-01445 | cannot select ROWID from a join view without a key-preserved table       |
| ORA-01446 | cannot select ROWID from view with DISTINCT, GROUP BY, etc.              |
| ORA-01452 | cannot CREATE UNIQUE INDEX; duplicate keys found                         |
| ORA-01454 | cannot convert column into numeric datatype                              |
| ORA-01462 | cannot insert string literals longer than 2000 characters                |
| ORA-01463 | cannot modify column datatype with current constraints                   |
| ORA-01471 | cannot create a synonym with the same name as object                     |
| ORA-01472 | cannot use CONNECT BY on view with DISTINCT, GROUP BY, etc.              |
| ORA-01473 | cannot have subqueries in CONNECT BY clause                              |
| ORA-01474 | cannot have START WITH or PRIOR without CONNECT BY                       |
| ORA-01508 | cannot create database; error in file name at line num                   |
| ORA-01523 | cannot rename datafile to name - file already part of database           |
| ORA-01524 | cannot create datafile as name - file already part of database           |
| ORA-01532 | cannot create database; instance being started elsewhere                 |
| ORA-01533 | cannot rename file name; file does not belong to tablespace              |
| ORA-01537 | cannot add datafile name - file already part of database                 |
| ORA-01544 | cannot drop system rollback segment                                      |
| ORA-01550 | cannot drop system tablespace                                            |
| ORA-01552 | cannot use system rollback segment for non-system tablespace "name"      |

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| ORA-01568 | cannot set space quota on PUBLIC                                  |
| ORA-01577 | cannot add log file name - file already part of database          |
| ORA-01596 | cannot specify system in name parameter                           |
| ORA-01597 | cannot alter system rollback segment online or offline            |
| ORA-01608 | cannot bring rollback segment "name" online, its status is status |
| ORA-01617 | cannot mount: num is not a valid thread number                    |
| ORA-01621 | cannot rename member of current log if database is open           |
| ORA-01640 | cannot make tablespace read-only with active transactions         |
| ORA-01712 | cannot grant a privilege grantor does not have                    |
| ORA-01752 | cannot delete from view without exactly one key-preserved table   |
| ORA-01776 | cannot modify more than one base table through a join view        |
| ORA-01779 | cannot modify a column which maps to a non-key-preserved table    |
| ORA-01926 | cannot grant WITH GRANT OPTION to a role                          |
| ORA-01931 | cannot grant UNLIMITED TABLESPACE, REFERENCES, or INDEX to a role |
| ORA-01933 | cannot create a stored object using privileges from a role        |
| ORA-01936 | cannot specify owner when creating users or roles                 |
| ORA-01940 | cannot DROP a user that is currently logged in                    |
| ORA-01985 | cannot create user as LICENSE_MAX_USERS parameter exceeded        |
| ORA-02014 | cannot select FOR UPDATE from view with DISTINCT, GROUP BY, etc.  |
| ORA-02015 | cannot select FOR UPDATE from remote table                        |
| ORA-02016 | cannot use a subquery in a START WITH on a remote database        |
| ORA-02047 | cannot join the distributed transaction in progress               |
| ORA-02074 | cannot COMMIT or ROLLBACK in a distributed transaction            |
| ORA-02265 | cannot derive the datatype of the referencing column              |
| ORA-02283 | cannot alter starting sequence number                             |
| ORA-02293 | cannot enable name - check constraint violated                    |
| ORA-02294 | cannot add referential constraint - parent keys not found         |
| ORA-02296 | cannot enable name - null values found                            |
| ORA-02297 | cannot disable constraint name.name - dependencies exist          |
| ORA-02298 | cannot enable name - parent keys not found                        |
| ORA-02299 | cannot enable name - duplicate keys found                         |
| ORA-02381 | cannot drop PUBLIC_DEFAULT profile                                |
| ORA-02401 | cannot EXPLAIN view owned by another user                         |
| ORA-02429 | cannot drop index used for enforcement of unique/primary key      |
| ORA-02430 | cannot enable constraint name - no such constraint                |
| ORA-02431 | cannot disable constraint name - no such constraint               |
| ORA-02432 | cannot enable primary key - primary key not defined for table     |
| ORA-02433 | cannot disable primary key - primary key not defined for table    |
| ORA-02434 | cannot enable unique(str) - unique key not defined for table      |
| ORA-02435 | cannot disable unique str - unique key not defined for table      |
| ORA-02437 | cannot enable name - primary key violated                         |
| ORA-02441 | cannot drop non-existent primary key                              |
| ORA-02442 | cannot drop non-existent unique key                               |
| ORA-02443 | cannot drop constraint - non-existent constraint                  |
| ORA-02444 | cannot resolve referenced object in referential constraints       |
| ORA-02476 | cannot create index due to parallel direct load on table          |
| ORA-02477 | cannot perform parallel direct load on object "name"              |
| ORA-02495 | cannot resize file name, tablespace name is read only             |
| ORA-03296 | cannot resize datafile - file name not found                      |

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| ORA-03298    | cannot shrink datafile - file name is under hot backup                       |
| ORA-03299    | cannot create dictionary table name                                          |
| ORA-04028    | cannot generate diana for object name                                        |
| ORA-04084    | cannot change trigger NEW values in after row triggers                       |
| ORA-04085    | cannot change the value of an OLD reference variable                         |
| ORA-04087    | cannot change the value of ROWID reference variable                          |
| ORA-04089    | cannot create triggers on objects owned by SYS                               |
| ORA-04092    | cannot COMMIT or ROLLBACK in a trigger                                       |
| ORA-06565    | cannot execute name from within stored procedure                             |
| ORA-08176    | cannot continue consistent read for the table/index - no undo records        |
| ORA-08177    | cannot serialize access for this transaction                                 |
| ORA-12001    | cannot create log: table name already has a trigger                          |
| ORA-12010    | cannot create snapshot log on table owned by SYS                             |
| ORA-12324    | cannot use the ROM: link type on a private database link                     |
| ORA-12351    | cannot create view using a remote object which has a remote object reference |
| ORA-12407    | cannot insert or update the ROWLABEL column of a view                        |
| ORA-12412    | cannot raise DBLOW above num                                                 |
| ORA-12413    | cannot lower DBHIGH below num                                                |
| ORA-12437    | cannot write down to a database at a lower label                             |
| ORA-12439    | cannot modify ROWLABEL column                                                |
| ORA-12475    | cannot log in below DBLOW name                                               |
| ORA-12476    | cannot log in above DBHIGH name                                              |
| ORA-12478    | cannot insert label above DBHIGH name                                        |
| ORA-12485    | cannot find file label for name                                              |
| ORA-12490    | cannot connect at session label below user definition name                   |
| ORA-12491    | cannot change MAC mode when mounted in READ_COMPATIBLE mode                  |
| ORA-12494    | cannot mount secondary database labeled above DBLOW                          |
| ORA-12808    | cannot set [CACHE   SCAN]_INSTANCES greater than number of instances num     |
| ORA-12809    | cannot set [CACHE   SCAN]_INSTANCES when mounted in exclusive mode           |
| ORA-23348    | cannot replicate procedure name; only IN parameters supported                |
| ORA-23349    | cannot generate replication support for functions                            |
| PCC-01015    | Cannot equivalence PIC N variable name                                       |
| PCC-02301    | Cannot open input file for reading                                           |
| PCC-02302    | Cannot open code generation output file                                      |
| PCC-02303    | Cannot open include file                                                     |
| PCC-02311    | Cannot have VARCHAR bit fields                                               |
| PCC-02314    | Cannot evaluate constant SIZEOF expression                                   |
| PCC-02315    | Cannot evaluate expression as a constant.                                    |
| PCC-02337    | Cannot declare multi-dimensioned array for this type                         |
| PCC-02350    | Cannot equivalence this SQL type                                             |
| PCC-02379    | Cannot equivalence National Language character variables                     |
| PCC-02381    | Cannot use National Language character variables inside PL/SQL               |
| PLS-00304    | cannot compile body of name without its specification                        |
| PLS-00420    | cannot call built-in routines remotely                                       |
| PLS-01460    | cannot access object on a remote host                                        |
| SQL*Load-254 | cannot have DISCARDFILE specs here when multiple datafiles                   |
| ORA-02007    | can't use ALLOCATE or DEALLOCATE options with REBUILD                        |
| PLS-00900    | can't find body of unit name                                                 |
| ORA-01491    | CASCADE option not valid                                                     |

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|-----------|-----------------------------------------------------------------------------------|
| ORA-01922 | CASCADE must be specified to drop name                                            |
| ORA-01923 | CASCADE aborted, objects locked by another user                                   |
| ORA-01981 | CASCADE CONSTRAINTS must be specified to perform this revoke                      |
| PLS-00211 | CASE labels or ranges must not be duplicated in different WHEN clauses            |
| PLS-00379 | CASE statements are not included in this release of PL/SQL                        |
| ORA-00276 | CHANGE keyword specified but no change given                                      |
| ORA-00279 | change num generated at name needed for thread num                                |
| ORA-00280 | change num for thread num is in sequence #num                                     |
| ORA-00355 | change numbers out of order                                                       |
| IMP-00037 | character set marker unknown                                                      |
| IMP-00042 | CHARSET used, but the export file has specific character set                      |
| ORA-02252 | check constraint condition not properly ended                                     |
| ORA-02290 | check constraint str.name violated                                                |
| ORA-13122 | child partition name not found                                                    |
| ORA-01464 | circular grant (granting to grant ancestor) of table or view                      |
| ORA-01731 | circular view definition encountered                                              |
| ORA-01934 | circular role grant detected                                                      |
| PCC-00045 | clause_name clause inappropriate at line num in file name. Ignored                |
| ORA-00601 | cleanup lock conflict                                                             |
| ORA-01987 | client O/S user name is too long                                                  |
| ORA-02041 | client database did not begin a transaction                                       |
| ORA-03125 | client-server protocol violation                                                  |
| ORA-08441 | closed parenthesis missing in picture mask                                        |
| ORA-00943 | cluster does not exist                                                            |
| ORA-00951 | cluster not empty                                                                 |
| ORA-01770 | CLUSTER option not allowed in CREATE CLUSTER command                              |
| ORA-02464 | cluster definition cannot be both HASH and INDEX                                  |
| ORA-03293 | cluster to be truncated is a HASH CLUSTER                                         |
| ORA-02032 | clustered tables cannot be used before the cluster index is built                 |
| PCC-02035 | CMD-LINE: CONFIG= option is invalid in a config file                              |
| PCC-02040 | CMD-LINE: Option selected, but no value provided                                  |
| PCC-02041 | CMD-LINE: Option does not exist:                                                  |
| PCC-02043 | CMD-LINE: Option syntax is incorrect                                              |
| PCC-02044 | CMD-LINE: Illegal or out of range value for option: option string                 |
| PCC-02045 | CMD-LINE: Option is not unique: option name                                       |
| PCC-02046 | CMD-LINE: Unable to open config file: filename                                    |
| PCC-02047 | CMD-LINE: Option is not allowed inline: option string                             |
| PCC-02066 | CMD-LINE: Could not find or could not open system config file                     |
| PCC-02129 | CMD-LINE: Client supplied static options table is invalid                         |
| PCC-02132 | CMD-LINE: Could not allocate memory                                               |
| PCC-02133 | CMD-LINE: Error processing string function                                        |
| PCC-02134 | CMD-LINE: Null option supplied                                                    |
| PCC-02135 | CMD-LINE: User asked for help                                                     |
| PCC-02138 | CMD-LINE: Internal consistency error                                              |
| PCC-02144 | CMD-LINE: Blank characters are not allowed on either side of an equal sign<br>(=) |
| SQL-02115 | Code interpretation problem -- check COMMON_NAME usage                            |
| PCC-00077 | Colon usage with numeric label in WHENEVER statement is not ANSI                  |
| ORA-00918 | column ambiguously defined                                                        |

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|--------------|-----------------------------------------------------------------------|
| ORA-00965    | column aliases not allowed for "*"                                    |
| ORA-00984    | column not allowed here                                               |
| ORA-01018    | column does not have a LONG datatype                                  |
| ORA-01430    | column being added already exists in table                            |
| ORA-01439    | column to be modified must be empty to change datatype                |
| ORA-01440    | column to be modified must be empty to decrease precision or scale    |
| ORA-01441    | column to be modified must be empty to decrease column length         |
| ORA-01442    | column to be modified to NOT NULL is already NOT NULL                 |
| ORA-01449    | column contains NULL values; cannot alter to NOT NULL                 |
| ORA-01451    | column to be modified to NULL cannot be modified to NULL              |
| ORA-01753    | column definition incompatible with clustered column definition       |
| ORA-02267    | column type incompatible with referenced column type                  |
| ORA-02360    | column not found before end of logical record (use TRAILING NULLCOLS) |
| ORA-02438    | column check constraint cannot reference other columns                |
| ORA-02467    | column referenced in hash expression not present in cluster           |
| ORA-04073    | column list not valid for this trigger type                           |
| ORA-13123    | column name is already defined                                        |
| ORA-23330    | column group name already exists                                      |
| ORA-23331    | column group name does not exist                                      |
| ORA-23333    | column name is already part of a column group                         |
| ORA-23334    | column name does not exist in table or column group                   |
| ORA-23371    | column name unknown in table name                                     |
| PLS-00358    | column name exists in more than one table; use qualifier              |
| SQL*Load-404 | column name present more than once in table name                      |
| SQL*Load-622 | column not found before end of logical record (use TRAILING NULLCOLS) |
| SQL*Load-923 | column name in table name is NOT NULL but is not being loaded         |
| SQL*Load-928 | column name.name does not exist                                       |
| DBA-00305    | command size exceeds internal buffer size num                         |
| DBA-00327    | command not available in this mode                                    |
| ORA-00070    | command name is not valid                                             |
| ORA-00073    | command name takes between num1 and num2 argument(s)                  |
| ORA-01953    | command no longer valid, see ALTER USER                               |
| PCC-00128    | Command line processor severe error                                   |
| PCC-00133    | Command line option MODE=ANSI required with option NLS_LOCAL=YES      |
| PCC-02366    | Command line argument MODE=ANSI may not be used with DBMS=V6          |
| ORA-01742    | comment not terminated properly                                       |
| PLS-01403    | Comment delimiters /* */                                              |
| ORA-02089    | COMMIT is not allowed in a subordinate session                        |
| PCC-00124    | COMMON_NAME option must be before PROGRAM or subroutine beginning     |
| ORA-03100    | communication area cannot be allocated; insufficient memory           |
| SQL*Load-457 | comparison text str of CONTINUEIF LAST must have length 1 not num     |
| SQL*Load-458 | comparison text of CONTINUEIF LAST must be non-whitespace             |
| ORA-00405    | compatibility type name                                               |
| ORA-00406    | COMPATIBLE parameter needs to be num or greater                       |
| PLS-00906    | compilation is not possible                                           |
| ORA-01485    | compile bind length different from execute bind length                |
| PLS-00302    | component name must be declared                                       |
| ORA-03203    | concurrent update activity makes space analysis impossible            |
| ORA-02147    | conflicting SHARED/EXCLUSIVE options                                  |

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| ORA-01436    | CONNECT BY loop in user data                                          |
| ORA-01788    | CONNECT BY clause required in this query block                        |
| SQL-02125    | Connect error, can't get error text                                   |
| PLS-01425    | connect-by clause                                                     |
| ORA-00115    | connection refused; dispatcher connection table is full               |
| ORA-02019    | connection description for remote database not found                  |
| ORA-03128    | connection is in blocking mode                                        |
| ORA-23378    | connection qualifier name is not valid for object group name          |
| ORA-23379    | connection qualifier name is too long                                 |
| ORA-02468    | constant or system variable wrongly specified in expression           |
| ORA-02272    | constrained column cannot be of LONG datatype                         |
| ORA-02253    | constraint specification not allowed here                             |
| ORA-23344    | constraint name.name does not exist                                   |
| PLS-01502    | constraint name and constraint status are non-ANSI.                   |
| ORA-01911    | CONTENTS keyword expected                                             |
| SQL-02123    | Context referenced in EXEC TOOLS GET CONTEXT statement not found      |
| ORA-00201    | control file version num incompatible with Oracle version num         |
| ORA-00202    | control file: name                                                    |
| ORA-00207    | control files are not for the same database                           |
| ORA-00211    | control file name does not match previous control files               |
| ORA-00214    | control file name version num inconsistent with file name version num |
| ORA-00217    | control file name physical block size num inconsistent with num       |
| ORA-00218    | control file name was created with block size num now is num          |
| ORA-00220    | control file name not mounted by first instance                       |
| ORA-00222    | control file may not be queried using dispatcher                      |
| ORA-00293    | control file out of sync with redo log                                |
| ORA-01190    | control file or datafile name is from before the last RESETLOGS       |
| SQL*Load-267 | control file must be first datafile                                   |
| SQL*Load-516 | control file name has no contents                                     |
| ORA-01665    | controlfile is not a standby controlfile                              |
| ORA-01666    | controlfile is for a standby database                                 |
| ORA-01671    | controlfile is a backup, cannot make a standby controlfile            |
| ORA-01672    | controlfile may be missing files or have extra ones                   |
| ORA-00223    | conversion datafile is invalid or incorrect version                   |
| ORA-00404    | conversion data file not found: name                                  |
| ORA-02354    | conversion initialization error occurred on field name                |
| ORA-02355    | conversion error occurred on CONSTANT field str                       |
| ORA-01455    | converting column overflows integer datatype                          |
| ORA-01457    | converting column overflows decimal datatype                          |
| ORA-02178    | correct syntax is: SET TRANSACTION READ { ONLY   WRITE }              |
| ORA-02191    | correct syntax is: SET TRANSACTION USE ROLLBACK SEGMENT name          |
| ORA-00354    | corrupt redo log block header                                         |
| DBA-00374    | could not set file position in name directly                          |
| DBA-00384    | could not open SQL*DBA resource file, name                            |
| DBA-00385    | could not locate SQL*DBA resource file, name                          |
| DBA-00386    | could not open toolkit resource file, name                            |
| DBA-00387    | could not locate toolkit resource file, name                          |
| EXP-00033    | could not find environment character set                              |
| IMP-00036    | could not find environment character set                              |



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| IMP-00038    | could not find environment character set handle                         |
| LCC-00201    | could not open specified filename name                                  |
| MOD-00068    | could not find or open system configuration file                        |
| ORA-02428    | could not add foreign key reference                                     |
| ORA-12806    | could not get background process to hold enqueue                        |
| ORA-13138    | could not determine name of object name                                 |
| ORA-13139    | could not obtain column definition for name                             |
| ORA-13146    | could not find table substitution variable name                         |
| ORA-23409    | could not find an unused refresh group number                           |
| PCC-00126    | Could not find or open system configuration file                        |
| PLS-00212    | could not obtain enough memory to compile CASE statement                |
| SQL*Load-259 | could not escalate DDL share lock to exclusive on table name            |
| SQL*Load-932 | could not truncate table name                                           |
| ORA-01048    | couldn't find the specified procedure in the given context              |
| ORA-01501    | CREATE DATABASE failed                                                  |
| ORA-01503    | CREATE CONTROLFILE failed                                               |
| ORA-01518    | CREATE DATABASE must specify more than one log file                     |
| ORA-02425    | create table failed                                                     |
| ORA-02427    | create view failed                                                      |
| ORA-02440    | create as select with referential constraints not allowed               |
| ORA-02446    | CREATE TABLE ... AS SELECT failed - check constraint violated           |
| ORA-12701    | CREATE DATABASE character set is not known                              |
| PCC-00140    | CREATE FUNCTION/PROCEDURE/PACKAGE/TRIGGER are Oracle extensions         |
| PLS-01506    | CREATE INDEX is non-ANSI                                                |
| ORA-00033    | current session has empty migration password                            |
| ORA-00085    | current call does not exist                                             |
| ORA-00152    | current session does not match requested session                        |
| ORA-00262    | current log name of closed thread num cannot switch                     |
| ORA-00323    | current log of thread num not usable and all others need archiving      |
| ORA-00369    | current log of thread num not useable and other log being cleared       |
| ORA-01075    | currently logged on                                                     |
| MOD-00042    | cursor name is multiply declared                                        |
| MOD-00046    | cursor name has not been declared                                       |
| MOD-00048    | cursor name was never opened                                            |
| ORA-01023    | cursor context not found (invalid cursor number)                        |
| PCC-00073    | Cursor is declared but never OPENed at line num in file name            |
| PLS-00324    | cursor attribute may not be applied to non-cursor name                  |
| PLS-00360    | cursor declaration without body needs return type                       |
| PLS-00404    | cursor name must be declared with FOR UPDATE to use with CURRENT OF     |
| PLS-00426    | cursor variable OUT parameter 'name' cannot be FETCH'ed or CLOSE'd      |
| PLS-00993    | cursor variables cannot be passed as RPC arguments or results           |
| PLS-00994    | cursor variables cannot be declared as part of a package                |
| PLS-01703    | cursor name in CLOSE statement must be of length 1                      |
| DBA-00311    | data size exceeds internal buffer size                                  |
| EXP-00001    | data field truncation - column length=num, buffer size=num fetched=num  |
| ORA-01173    | data dictionary indicates missing datafile from system tablespace       |
| ORA-01175    | data dictionary has more than the num files allowed by the instance     |
| ORA-01176    | data dictionary has more than the num files allowed by the control file |
| ORA-01242    | data file suffered media failure: database in NOARCHIVELOG              |

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| ORA-01732    | data manipulation operation not legal on this view                  |
| ORA-09111    | data manipulation operation not legal on this object                |
| PCC-01012    | DATA DIVISION not found                                             |
| ORA-00402    | database changes by release num cannot be used by release num       |
| ORA-01022    | database operation not supported in this configuration              |
| ORA-01100    | database already mounted                                            |
| ORA-01101    | database being created currently mounted by some other instance     |
| ORA-01103    | database name name in control file is not name                      |
| ORA-01106    | database must be closed before dismounting                          |
| ORA-01107    | database must be mounted for media recovery                         |
| ORA-01109    | database not open                                                   |
| ORA-01126    | database must be mounted exclusive and not open for this operation  |
| ORA-01127    | database name name exceeds size limit of num characters             |
| ORA-01134    | database mounted exclusive by another instance                      |
| ORA-01138    | database must either be open in this instance or not at all         |
| ORA-01148    | database must be mounted EXCLUSIVE for this operation               |
| ORA-01154    | database busy. Open, Close, mount, and dismount not allowed now     |
| ORA-01158    | database name already mounted                                       |
| ORA-01161    | database name name in file header does not match given name of name |
| ORA-01219    | database not open: queries allowed on fixed tables/views only       |
| ORA-01239    | database must be in ARCHIVELOG mode to use external cache           |
| ORA-01504    | database name name does not match parameter DB_NAME str             |
| ORA-01507    | database not mounted                                                |
| ORA-01639    | database cannot be mounted parallel with no lock processes          |
| ORA-01679    | database must be mounted EXCLUSIVE and not open to activate         |
| ORA-01729    | database link name expected                                         |
| ORA-02018    | database link of same name has an open connection                   |
| ORA-02024    | database link not found                                             |
| ORA-02070    | database "name" does not support capability name in this context    |
| ORA-02080    | database link is in use                                             |
| ORA-02081    | database link is not open                                           |
| ORA-02083    | database name has illegal character str                             |
| ORA-02084    | database name is missing a component                                |
| ORA-02085    | database link name connects to name                                 |
| ORA-02086    | database link name is too long                                      |
| ORA-04054    | database link name does not exist                                   |
| ORA-12315    | database link type is invalid for the ALTER DATABASE statement      |
| ORA-12318    | database (link name name) is already mounted                        |
| ORA-12319    | database (link name name) is already open                           |
| ORA-12321    | database (link name name) is not open and AUTO_MOUNTING=FALSE       |
| ORA-12326    | database name is closing immediately; no operations are permitted   |
| ORA-12329    | database name is closed; no operations are permitted                |
| ORA-12333    | database (link name name) is not mounted                            |
| ORA-12334    | database (link name name) is still open                             |
| ORA-12335    | database (link name name) is not open                               |
| ORA-12350    | database link being dropped is still mounted                        |
| ORA-12440    | database has not been mounted in read-compatible mode               |
| ORA-23314    | database is not a snapshot site for name                            |
| SQL*Load-903 | database must be at least version num for direct path               |

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| ORA-01110    | datafile name: str                                                     |
| ORA-01122    | datafile name - failed verification check                              |
| ORA-01130    | datafile version num incompatible with Oracle Version num              |
| ORA-01137    | datafile name is still in the middle of going offline                  |
| ORA-01169    | datafile number 1 not found. Must be present                           |
| ORA-01171    | datafile str is going offline due to error advancing checkpoint        |
| ORA-01177    | datafile does not match dictionary - probably old incarnation          |
| ORA-01208    | datafile is an old version - not accessing current version             |
| ORA-01209    | datafile is from before the last RESETLOGS                             |
| ORA-01210    | datafile header is media corrupt                                       |
| ORA-01221    | datafile name is not the same file to a background process             |
| ORA-01229    | datafile name is inconsistent with logs                                |
| ORA-01569    | datafile too small for system dictionary tables                        |
| ORA-01673    | datafile name has not been identified                                  |
| ORA-01674    | datafile name is an old incarnation rather than current file           |
| ORA-01904    | DATAFILE keyword expected                                              |
| ORA-02164    | DATAFILE clause specified more than once                               |
| EXP-00018    | datatype (num) for column name, table name.name is not supported       |
| MOD-00095    | Datatype "X" is not valid for the host language                        |
| ORA-23347    | datatype name for column name table name not supported                 |
| ORA-24304    | datatype not allowed for this call                                     |
| PCC-00112    | Datatype not supported by ANSI                                         |
| ORA-00975    | date + date not allowed                                                |
| ORA-01801    | date format is too long for internal buffer                            |
| ORA-01821    | date format not recognized                                             |
| ORA-01830    | date format picture ends before converting entire input string         |
| ORA-01839    | date not valid for month specified                                     |
| ORA-02436    | date or system variable wrongly specified in CHECK constraint          |
| ORA-01817    | day of week may only be specified once                                 |
| ORA-01832    | day of year conflicts with Julian date                                 |
| ORA-01834    | day of month conflicts with Julian date                                |
| ORA-01835    | day of week conflicts with Julian date                                 |
| ORA-01847    | day of month must be between 1 and last day of month                   |
| ORA-01848    | day of year must be between 1 and 365 (366 for leap year)              |
| SQL*Load-253 | DB2 partition number has no significance -- ignored                    |
| ORA-00058    | DB_BLOCK_SIZE must be num to mount this database not num               |
| ORA-01131    | DB_FILES files initialization parameter value num exceeds limit of num |
| ORA-01174    | DB_FILES is num but needs to be num to be compatible                   |
| ORA-12401    | DBHIGH is not a valid operating system label                           |
| ORA-12410    | DBHIGH cannot be null in DBMS MAC mode                                 |
| ORA-12411    | DBHIGH must dominate DBLOW                                             |
| ORA-12400    | DBLOW is not a valid operating system label                            |
| ORA-12409    | DBLOW cannot be null in DBMS MAC mode                                  |
| ORA-00471    | DBWR process terminated with error                                     |
| ORA-00056    | DDL lock on object "str.name" already held in an incompatible mode     |
| ORA-02021    | DDL operations are not allowed on a remote database                    |
| ORA-04097    | DDL conflict while trying to drop or alter a trigger                   |
| ORA-00060    | deadlock detected while waiting for resource                           |
| ORA-00104    | deadlock detected; all public servers blocked waiting for resource     |

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| ORA-04020 | deadlock detected while trying to lock object name                                       |
| PLS-00322 | declaration of a constant name must contain an initialization assignment                 |
| PLS-00341 | declaration of cursor name is incomplete or malformed                                    |
| PLS-00108 | declarative units must be a single variable declaration                                  |
| ORA-01004 | default username feature not supported; logon denied                                     |
| ORA-01945 | DEFAULT ROLE[S] already specified                                                        |
| ORA-01946 | DEFAULT TABLESPACE already specified                                                     |
| ORA-01954 | DEFAULT ROLE clause not valid for CREATE USER                                            |
| ORA-02254 | DEFAULT <expression> not allowed here                                                    |
| ORA-02276 | default value type incompatible with column type                                         |
| ORA-12823 | default degree of parallelism may not be specified here                                  |
| ORA-01051 | deferred RPC buffer format invalid                                                       |
| ORA-23353 | deferred RPC queue has entries for object group name                                     |
| ORA-23354 | deferred RPC execution disabled for name                                                 |
| ORA-02038 | define is not allowed for array type                                                     |
| ORA-09107 | definition of a target system object may have changed                                    |
| ORA-09116 | definition of target system data object is inconsistent                                  |
| ORA-04014 | descending sequences that CYCLE must specify MIN VALUE                                   |
| ORA-01042 | detaching a session with open cursors not allowed                                        |
| ORA-12404 | device low name must be dominated by DBLOW name                                          |
| ORA-12405 | device high name must dominate DBHIGH name                                               |
| EXP-00007 | dictionary shows no columns for name.name                                                |
| EXP-00025 | dictionary shows no column for constraint name.num                                       |
| ORA-01766 | dictionary table not allowed in this context                                             |
| PCC-02012 | Did not find a matching quote for CHAR constant                                          |
| PLS-00399 | different types of columns in UNION, INTERSECT, or MINUS expression                      |
| PLS-00400 | different number of columns between cursor SELECT statement and return value             |
| PLS-00401 | different column types between cursor SELECT statement and return value<br>found at name |
| ORA-13000 | dimension number is out of range                                                         |
| ORA-13001 | dimensions mismatch error                                                                |
| ORA-02352 | direct path connection must be homogeneous                                               |
| ORA-08175 | discrete transaction restriction violated name                                           |
| ORA-00105 | dispatching mechanism not configured to support network protocol                         |
| ORA-00120 | dispatching mechanism not enabled or installed                                           |
| PCC-00076 | DISPLAY type must be SIGN LEADING SEPARATE                                               |
| ORA-02046 | distributed transaction already begun                                                    |
| ORA-02055 | distributed update operation failed; rollback required                                   |
| ORA-02062 | distributed recovery received DBID num, expected num                                     |
| ORA-02088 | distributed database option not installed                                                |
| ORA-01476 | divisor is equal to zero                                                                 |
| ORA-00062 | DML full-table lock cannot be acquired; DML_LOCKS is 0                                   |
| ORA-01095 | DML statement processed zero rows                                                        |
| ORA-01761 | DML operation does not map to a unique table in the join                                 |
| ORA-25113 | DML operations for BITMAP indexes not implemented                                        |
| PLS-01507 | DROP is non-ANSI                                                                         |
| ORA-01567 | dropping log name would leave less than two log files in thread num                      |
| ORA-00076 | dump name not found                                                                      |
| ORA-00077 | dump name is not valid                                                                   |

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| ORA-01774 | dump undo option specified more than once                    |
| ORA-00150 | duplicate transaction ID                                     |
| ORA-00957 | duplicate column name                                        |
| ORA-00977 | duplicate auditing option                                    |
| ORA-01700 | duplicate username in list                                   |
| ORA-01711 | duplicate privilege listed                                   |
| ORA-01769 | duplicate CLUSTER option specifications                      |
| ORA-02011 | duplicate database link name                                 |
| ORA-02206 | duplicate INITTRANS option specification                     |
| ORA-02208 | duplicate MAXTRANS option specification                      |
| ORA-02212 | duplicate PCTFREE option specification                       |
| ORA-02213 | duplicate PCTUSED option specification                       |
| ORA-02214 | duplicate BACKUP option specification                        |
| ORA-02215 | duplicate tablespace name clause                             |
| ORA-02217 | duplicate storage option specification                       |
| ORA-02228 | duplicate SIZE specification                                 |
| ORA-02258 | duplicate or conflicting NULL and/or NOT NULL specifications |
| ORA-02259 | duplicate UNIQUE/PRIMARY KEY specifications                  |
| ORA-02274 | duplicate referential constraint specifications              |
| ORA-02278 | duplicate or conflicting MAXVALUE/NOMAXVALUE specifications  |
| ORA-02279 | duplicate or conflicting MINVALUE/NOMINVALUE specifications  |
| ORA-02280 | duplicate or conflicting CYCLE/NOCYCLE specifications        |
| ORA-02281 | duplicate or conflicting CACHE/NOCACHE specifications        |
| ORA-02282 | duplicate or conflicting ORDER/NOORDER specifications        |
| ORA-02284 | duplicate INCREMENT BY specifications                        |
| ORA-02285 | duplicate START WITH specifications                          |
| ORA-02378 | duplicate resource name name                                 |
| ORA-02451 | duplicate HASHKEYS specification                             |
| ORA-02453 | duplicate HASH IS specification                              |
| ORA-02462 | duplicate INDEX option specified                             |
| ORA-02463 | duplicate HASH IS option specified                           |
| ORA-03275 | duplicate DEALLOCATE option specification                    |
| ORA-03276 | duplicate ALLOCATE EXTENT option specification               |
| ORA-03278 | duplicate option specified for ALLOCATE EXTENT               |
| ORA-12822 | duplicate option in PARALLEL clause                          |
| ORA-13135 | duplicate offline path                                       |
| ORA-23339 | duplicate conflict resolution information                    |
| ORA-23352 | duplicate destination for deferred transaction               |
| ORA-25101 | duplicate REBUILD option specification                       |
| ORA-25107 | duplicate TABLESPACE option specification                    |
| PLS-00116 | duplicate WHERE clause in table expression                   |
| PLS-00117 | duplicate CONNECT BY clause in table expression              |
| PLS-00118 | duplicate GROUP BY clause in table expression                |
| PLS-00119 | duplicate HAVING clause in table expression                  |
| PLS-00408 | duplicate column name not permitted in INSERT or UPDATE      |
| PLS-00409 | duplicate variable name in INTO list is not permitted        |
| PLS-00410 | duplicate fields in record or table are not permitted        |
| ORA-00483 | during shutdown a process abnormally terminated              |
| PCC-00109 | Dynamic SQL and PL/SQL are Oracle extensions to ANSI SQL     |

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|--------------|--------------------------------------------------------------------|
| PLS-00104    | empty argument list in call of procedure name must be omitted      |
| ORA-01215    | enabled thread num is missing after CREATE CONTROLFILE             |
| MOD-00012    | encountered the symbol name when expecting one of the following... |
| PLS-00113    | END identifier name1 must match name2 at line num, column num      |
| SQL*Load-401 | end field position num must be greater than or equal to start num  |
| ORA-03113    | end-of-file on communication channel                               |
| PLS-00111    | end-of-file in comment                                             |
| PLS-00112    | end-of-line in quoted identifier                                   |
| PCC-00123    | Entire VARCHAR declaration must be on same line                    |
| ORA-01528    | EOF while processing SQL statement                                 |
| DBA-00361    | error during describe                                              |
| DBA-00381    | error in the SERVER OUTPUT option                                  |
| EXP-00002    | error in writing to export file                                    |
| EXP-00014    | error on row num of table name                                     |
| EXP-00015    | error on row num of table name, column name, datatype num          |
| EXP-00034    | error on rowid: file# num block# num slot# num                     |
| LCC-00218    | error in file name                                                 |
| MOD-00075    | error at line N. PLS-N: text (null)                                |
| MOD-00080    | error extracting stored package source.                            |
| MOD-00086    | error: couldn't install username. Aborted...                       |
| ORA-00204    | error in reading control file name block num, # blocks num         |
| ORA-00205    | error in identifying control file name                             |
| ORA-00206    | error in writing control file name block num, # blocks num         |
| ORA-00221    | error on write to control file                                     |
| ORA-00254    | error in archive control string archive_log_location               |
| ORA-00255    | error archiving log name of thread num, sequence # num             |
| ORA-00256    | error occurred in translating archive text string str              |
| ORA-00270    | error creating archive log                                         |
| ORA-00272    | error writing archive log                                          |
| ORA-00301    | error in adding log file name - file cannot be created             |
| ORA-00604    | error occurred at recursive SQL level num                          |
| ORA-00816    | error message translation failed                                   |
| ORA-01080    | error in shutting down Oracle                                      |
| ORA-01116    | error in opening datafile name                                     |
| ORA-01119    | error in creating datafile name                                    |
| ORA-01141    | error renaming datafile name - new file name not found             |
| ORA-01423    | error encountered while checking for extra rows in exact fetch     |
| ORA-01505    | error in adding log files                                          |
| ORA-01510    | error in deleting log files                                        |
| ORA-01511    | error in renaming log/datafiles                                    |
| ORA-01512    | error renaming log file name - new file name not found             |
| ORA-01514    | error in log specification; no such log                            |
| ORA-01515    | error dropping log group num: no such log                          |
| ORA-01519    | error while processing file name near line num                     |
| ORA-01521    | error in adding datafiles                                          |
| ORA-01525    | error in renaming datafiles                                        |
| ORA-01526    | error in opening file name                                         |
| ORA-01527    | error while reading file                                           |
| ORA-01529    | error closing file name                                            |

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|--------------|------------------------------------------------------------------------------------------------------------------------|
| ORA-01565    | error in identifying file name                                                                                         |
| ORA-01580    | error creating control backup file name                                                                                |
| ORA-01585    | error identifying backup file name                                                                                     |
| ORA-01587    | error during control file backup file copy                                                                             |
| ORA-01592    | error converting Version 6 rollback segment "num" to Oracle7 format                                                    |
| ORA-01595    | error freeing extent num of rollback segment name                                                                      |
| ORA-01714    | error in execution of user function                                                                                    |
| ORA-01980    | error during OS ROLE initialization                                                                                    |
| ORA-01990    | error opening password file name                                                                                       |
| ORA-01992    | error closing password file name                                                                                       |
| ORA-01993    | error writing password file name                                                                                       |
| ORA-01995    | error reading password file name                                                                                       |
| ORA-02002    | error while writing to audit trail                                                                                     |
| ORA-02071    | error initializing capabilities for remote database name                                                               |
| ORA-02098    | error parsing index-table reference (:I)                                                                               |
| ORA-02373    | Error parsing insert statement for table name                                                                          |
| ORA-02473    | error while evaluating the cluster's hash expressions                                                                  |
| ORA-02479    | error while translating file name for parallel load                                                                    |
| ORA-02486    | error in file name. Check trace_dest init.ora parm                                                                     |
| ORA-02487    | error in writing file name name. Check trace_dest init.ora parm                                                        |
| ORA-04029    | error ORA-num occurred when querying name                                                                              |
| ORA-04052    | error occurred when looking up remote object name                                                                      |
| ORA-04053    | error occurred when validating remote object name                                                                      |
| ORA-04088    | error during execution of trigger name.name                                                                            |
| ORA-08412    | error encountered in WMSGBSIZ, size for WMSGBLK is not big enough for warning message                                  |
| ORA-08414    | error encountered in name                                                                                              |
| ORA-08467    | error converting Oracle number to num                                                                                  |
| ORA-12008    | error in snapshot refresh path                                                                                         |
| ORA-12012    | error on auto execute of job num                                                                                       |
| ORA-12801    | error signaled in parallel query server name                                                                           |
| ORA-21000    | error number argument to RAISE_APPLICATION_ERROR of name is out of range, must be between -20000 and -20999, inclusive |
| ORA-23324    | error num, while creating DEFERROR entry at name with error num                                                        |
| PCC-00061    | Error at line num, column name. PLS-nnnnn                                                                              |
| PCC-00085    | Error writing to file name                                                                                             |
| SQL*Load-114 | error in OPTIONS statement                                                                                             |
| SQL*Load-116 | error prompting for password                                                                                           |
| SQL*Load-503 | error appending extension to file name                                                                                 |
| SQL*Load-504 | error skipping records in file name                                                                                    |
| SQL*Load-514 | error getting elapsed time                                                                                             |
| SQL*Load-515 | error getting CPU time                                                                                                 |
| SQL*Load-517 | error decomposing filename name                                                                                        |
| SQL*Load-518 | error reassembling filename name                                                                                       |
| SQL*Load-519 | error num writing to filename name                                                                                     |
| SQL*Load-604 | error occurred on an attempt to commit                                                                                 |
| SQL*Load-901 | error logging on to Oracle                                                                                             |
| SQL*Load-902 | error opening cursor: num                                                                                              |
| SQL*Load-905 | error parsing SQL statement for upi: num                                                                               |

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| SQL*Load-906 | error executing SQL statement for upi: num                     |
| SQL*Load-907 | error parsing insert statement on table name                   |
| SQL*Load-910 | error binding input variables of upi: num                      |
| SQL*Load-911 | error defining output variables for upi: num                   |
| SQL*Load-913 | error fetching results of select statement (upi): num          |
| SQL*Load-914 | error locking table name in exclusive mode                     |
| SQL*Load-915 | error closing cursor: num                                      |
| SQL*Load-916 | error checking path homogeneity                                |
| SQL*Load-917 | error parsing insert statement on table name                   |
| SQL*Load-919 | error during upi fetch: num                                    |
| SQL*Load-920 | error deleting data from table name (due to REPLACE keyword)   |
| SQL*Load-925 | Error while str                                                |
| SQL*Load-929 | error parsing insert statement for table name                  |
| SQL*Load-930 | error parsing insert statement for column name                 |
| SQL*Load-935 | error verifying required option for parallel load              |
| SQL*Load-950 | error shipping data structures across 2-task                   |
| SQL*Load-951 | error calling once/load initialization                         |
| SQL*Load-952 | error calling once/datafile initialization                     |
| SQL*Load-953 | error shipping read buffer across 2-task                       |
| SQL*Load-954 | error shipping index to read buffer across 2-task              |
| SQL*Load-955 | error calling col array build, block formatter                 |
| SQL*Load-956 | error calling once/datafile finishing                          |
| SQL*Load-957 | error shipping text string across 2-task                       |
| SQL*Load-958 | error popping data relocation address stack                    |
| SQL*Load-959 | error shipping buffer across 2-task                            |
| SQL*Load-960 | error escalating DDL share lock to exclusive                   |
| SQL*Load-961 | error calling once/load finishing                              |
| SQL*Load-962 | error setting user-side Ctrl-C handler                         |
| SQL*Load-963 | error clearing user-side Ctrl-C handler                        |
| SQL*Load-964 | error logging off Oracle                                       |
| SQL*Load-965 | error num disabling constraint name of table name              |
| SQL*Load-966 | error num disabling all triggers on table name                 |
| SQL*Load-968 | error disconnecting from Oracle                                |
| SQL*Load-969 | error performing filename translation on kernel side           |
| ORA-04045    | errors during recompilation/revalidation of name.name          |
| ORA-01425    | escape character must be character string of length 1          |
| ORA-02194    | event specification syntax error num minor error num near name |
| ORA-01903    | EVENTS keyword expected                                        |
| ORA-01422    | exact fetch returns more than requested number of rows         |
| ORA-02390    | exceeded COMPOSITE_LIMIT, logoff in progress                   |
| ORA-02391    | exceeded simultaneous SESSIONS_PER_USER limit                  |
| ORA-02392    | exceeded session limit on CPU usage, logging off               |
| ORA-02393    | exceeded call limit on CPU usage                               |
| ORA-02394    | exceeded session limit on I/O usage, logging off               |
| ORA-02395    | exceeded call limit on I/O usage                               |
| ORA-02396    | exceeded max Idle Time, please connect again                   |
| ORA-02397    | exceeded PRIVATE_SGA Limit, logging off                        |
| ORA-02398    | exceeded procedure space usage                                 |
| ORA-02399    | exceeded maximum connect time, logging off                     |



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| PLS-00483 | exception name may appear in at most one exception handler in this block         |
| PLS-00705 | exception name used in expression requiring return type                          |
| PLS-00706 | exception name cannot be used as prefix of a selected component                  |
| ORA-02445 | exceptions table not found                                                       |
| ORA-01913 | EXCLUSIVE keyword expected                                                       |
| ORA-02148 | EXCLUSIVE specified multiple times                                               |
| PCC-00087 | EXEC SQL TYPE statement not allowed for this host language                       |
| PCC-01006 | EXEC statement cannot begin in Area A at line num in file name                   |
| PCC-02204 | EXEC SQL INCLUDE not permitted from within an included file                      |
| SQL-02130 | EXEC TOOLS interface is not available                                            |
| ORA-02224 | EXECUTE privilege not allowed for tables                                         |
| ORA-23433 | executing against wrong master site name                                         |
| ORA-12011 | execution of num jobs failed                                                     |
| ORA-04061 | existing state of name has been invalidated                                      |
| ORA-04068 | existing state of packages has been discarded                                    |
| ORA-01908 | EXISTS keyword expected                                                          |
| PLS-00373 | EXIT label name must label a LOOP statement                                      |
| ORA-00225 | expected size num of controlfile name differs from actual size num               |
| PCC-00018 | Expected token, but found token at line num in file name                         |
| PCC-00054 | Expected end-of-statement at column name in line num of file name                |
| PCC-02330 | Expecting an expression of integer type                                          |
| PCC-02387 | Expecting an expression of type sql_cursor                                       |
| ORA-12825 | explicit degree of parallelism must be specified here                            |
| EXP-00000 | export terminated unsuccessfully                                                 |
| EXP-00024 | export views not installed, please notify your DBA                               |
| EXP-00037 | Export views not compatible with database version                                |
| IMP-00043 | export file character set inconsistent                                           |
| ORA-01790 | expression must have same datatype as corresponding expression                   |
| PCC-02319 | Expression type does not match usage                                             |
| PLS-00321 | expression str is inappropriate as the left hand side of an assignment statement |
| PLS-00363 | expression str cannot be used as an assignment target                            |
| PLS-00363 | expression str cannot be used as an assignment target                            |
| PLS-00382 | expression is of wrong type                                                      |
| PLS-00403 | expression str cannot be used as an INTO target of a SELECT/FETCH statement      |
| ORA-01551 | extended rollback segment, pinned blocks released                                |
| MOD-00094 | extension in PNAME option is specified but not meaningful                        |
| DBA-00101 | extraneous text at end of command                                                |
| EXP-00019 | failed to process parameters, type "EXP HELP=Y" for help                         |
| EXP-00020 | failed to allocate memory of size num                                            |
| EXP-00027 | failed to calculate Oracle block size                                            |
| EXP-00028 | failed to open name for write                                                    |
| IMP-00002 | failed to open name for read                                                     |
| IMP-00006 | failed to allocate memory of size num                                            |
| IMP-00022 | failed to process parameters, type "IMP HELP=Y" for help                         |
| IMP-00027 | failed to roll back partial import of previous table                             |
| IMP-00030 | failed to create file name for write                                             |
| MOD-00081 | failed assertion                                                                 |
| ORA-00025 | failed to allocate num                                                           |

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| ORA-00107    | failed to connect to network listener process                                                 |
| ORA-00108    | failed to set up dispatcher to accept connection asynchronously                               |
| ORA-01538    | failed to acquire any rollback segment                                                        |
| ORA-01561    | failed to remove all objects in the tablespace specified                                      |
| ORA-01562    | failed to extend rollback segment ID = num                                                    |
| ORA-01599    | failed to acquire rollback segment "name", cache space is full (currently<br>has num entries) |
| ORA-09105    | failed to acquire storage space in target system                                              |
| ORA-13103    | failed to acknowledge on pipe name due to timeout                                             |
| ORA-13104    | failed to send reply on pipe name due to timeout                                              |
| ORA-13121    | failed to create child partition                                                              |
| ORA-13127    | failed to generate target partition                                                           |
| ORA-13128    | failed to identify dimensions for column name                                                 |
| ORA-13145    | failed to generate range list                                                                 |
| ORA-13147    | failed to generate MBR                                                                        |
| ORA-13148    | failed to generate SQL filter                                                                 |
| ORA-13149    | failed to generate next sequence number for spatial table name                                |
| ORA-13150    | failed to insert exception record                                                             |
| LCC-00217    | failure while processing file parameter                                                       |
| ORA-00349    | failure obtaining block size for name                                                         |
| ORA-01078    | failure in processing initialization parameters                                               |
| ORA-01091    | failure during startup force                                                                  |
| ORA-01500    | failure in getting date/time                                                                  |
| ORA-01803    | failure in getting date/time                                                                  |
| ORA-00447    | fatal error in background process                                                             |
| ORA-01073    | fatal connection error: unrecognized call type                                                |
| ORA-03106    | fatal two-task communication protocol error                                                   |
| PCC-02102    | Fatal error while doing C preprocessing                                                       |
| SQL-02116    | FATAL ERROR: Reentrant code generator gave invalid context                                    |
| MOD-00088    | feature not implemented yet                                                                   |
| ORA-23375    | feature is incompatible with database version at num                                          |
| ORA-01002    | fetch out of sequence                                                                         |
| ORA-09121    | fetch exceeds maximum number of records defined for table                                     |
| ORA-01405    | fetch column value is NULL                                                                    |
| ORA-01406    | fetch column value was truncated                                                              |
| SQL-02129    | FETCHed number of bytes is odd                                                                |
| ORA-02028    | fetching an exact number of rows is not supported by the server                               |
| ORA-02359    | field in datafile exceeded maximum specified length                                           |
| SQL*Load-621 | field in datafile exceeded maximum specified length                                           |
| ORA-00317    | file type str in header is not log file                                                       |
| ORA-00372    | file name cannot be modified at this time                                                     |
| ORA-00376    | file name cannot be read at this time                                                         |
| ORA-01113    | file name needs media recovery                                                                |
| ORA-01135    | file name accessed for DML query is offline                                                   |
| ORA-01144    | file size num blocks exceeds maximum of num blocks                                            |
| ORA-01152    | file name was not restored from a sufficiently old backup                                     |
| ORA-01159    | file name is not from same database as previous files - wrong database id                     |
| ORA-01160    | file name is not a str - it is of type str                                                    |
| ORA-01166    | file number num is larger than num num                                                        |

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| ORA-01170    | file not found name                                                     |
| ORA-01178    | file name created before last CREATE CONTROLFILE, cannot be recreated   |
| ORA-01179    | file name does not exist                                                |
| ORA-01181    | file name created before last RESETLOGS, cannot be recreated            |
| ORA-01189    | file is from a different RESETLOGS than previous files                  |
| ORA-01191    | file name is already offline - cannot do a normal offline               |
| ORA-01193    | file name is not the same file seen at start of recovery                |
| ORA-01194    | file name needs more recovery to be consistent                          |
| ORA-01196    | file name is inconsistent due to a failed media recovery session        |
| ORA-01201    | file size num in header does not match size num in control file         |
| ORA-01206    | file is not part of this database - wrong database id                   |
| ORA-01207    | file is more recent than control file - old control file                |
| ORA-01220    | file based sort illegal before database is open                         |
| ORA-01226    | file header of redo log member is inconsistent with other member        |
| ORA-01233    | file name is read only - cannot recover using backup control file       |
| ORA-01522    | file name to be renamed does not exist                                  |
| ORA-01566    | file specified more than once in DROP LOGFILE                           |
| ORA-02197    | file list already specified                                             |
| ORA-03297    | file contains num blocks of data beyond requested RESIZE value          |
| ORA-12402    | file: str                                                               |
| ORA-12403    | file label name must be equal to DBHIGH name                            |
| ORA-12444    | file label is lower than instance label                                 |
| ORA-12446    | file label is higher than instance label                                |
| PCC-00120    | File I/O error during code generation                                   |
| SQL*Load-264 | file mode token name parsed but ignored                                 |
| DBA-00383    | filename name pointed to by name could not be opened                    |
| ORA-02238    | filename lists have different numbers of files                          |
| PCC-00074    | FIPS warning: Multiply defined host variable in line num of file name   |
| PCC-00078    | FIPS warning: Invalid ANSI SQL identifier                               |
| PCC-01513    | FIPS warning: Unsupported datatype in line num of file name             |
| PCC-01515    | FIPS warning: Undeclared host variable hostvar at line num in file name |
| SQL-02120    | First and second arguments to SQLRCN both null                          |
| ORA-02474    | fixed hash area extents used num exceeds maximum allowed num            |
| PLS-00510    | FLOAT cannot have scale                                                 |
| ORA-01724    | floating point precision is out of range 1 to 126                       |
| IMP-00015    | following statement failed because the object already exists: str       |
| IMP-00017    | following statement failed with Oracle message num: str                 |
| ORA-02068    | following severe error from name                                        |
| IMP-00025    | for DBA export files, FROMUSER must be specified with TOUSER            |
| ORA-01786    | FOR UPDATE of this query expression is not allowed                      |
| PCC-00053    | FOR variable var is invalid type at line num in file name               |
| PCC-00056    | FOR clause not allowed in SELECT statement at line num in file name     |
| PCC-00102    | FOR UPDATE is an Oracle extension                                       |
| PCC-00104    | FOR clause is an Oracle extension                                       |
| PCC-01009    | For HOST=COB74, a SQL statement must be followed by ELSE or "."         |
| PCC-02372    | FOR clause not allowed in a SELECT statement                            |
| PLS-01421    | FOR UPDATE clause                                                       |
| SQL*Load-601 | for INSERT option, table must be empty. error on name                   |
| MOD-00050    | formal parameter param is not used in procedure                         |

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| PCC-02310    | Formal parameter VARCHARs must be declared as pointers                                    |
| ORA-01810    | format code appears twice                                                                 |
| ORA-01820    | format code cannot appear in date input format                                            |
| SQL*Load-200 | FORMAT clause should not be present - flat data files only                                |
| IMP-00011    | formatted table data not currently supported                                              |
| ORA-02295    | found more than one enable/disable clause for constraint                                  |
| PCC-02010    | Found end-of-file while scanning string literal                                           |
| PCC-02011    | Found identifier greater than 128 characters (truncated)                                  |
| PCC-02018    | Found end-of-file while scanning comment                                                  |
| PCC-02021    | Found newline while scanning string literal                                               |
| PCC-02022    | Found end of file while scanning a SQL statement                                          |
| PCC-02023    | Found end of file while scanning a PL/SQL statement                                       |
| PCC-02200    | Found unrecognized punctuation sequence                                                   |
| PCC-02201    | Found syntax error                                                                        |
| PCC-02203    | Found end of file when not expected                                                       |
| PCC-02322    | Found undefined identifier                                                                |
| PLS-00103    | found str but expected one of the following: str                                          |
| ORA-02170    | FREELIST GROUPS storage option not allowed                                                |
| ORA-02169    | FREELISTS storage option not allowed                                                      |
| ORA-00923    | FROM keyword not found where expected                                                     |
| IMP-00024    | full import mode, cannot specify FROMUSER or TABLES parameter                             |
| ORA-01841    | (full) year must be between -4713 and +9999                                               |
| ORA-06571    | function name does not guarantee not to update database                                   |
| ORA-06572    | function name has out arguments                                                           |
| ORA-06573    | function name modifies package state, cannot be used here                                 |
| ORA-06574    | function name references package state, cannot execute remotely                           |
| ORA-06575    | function name is in an invalid state                                                      |
| ORA-24275    | function name parameter name missing or invalid                                           |
| ORA-24276    | function name output name maximum value exceeded                                          |
| PCC-02357    | Function calls may not be used as host variable expressions                               |
| PLS-00203    | function DECODE must be called with at least 3 non-Boolean arguments                      |
| PLS-00204    | function or pseudo-column name may be used inside a SQL statement only                    |
| PLS-00231    | function name may not be used in SQL                                                      |
| PLS-00233    | function name used as an exception name in WHEN clause                                    |
| ORA-09102    | gateway internal communication error                                                      |
| ORA-09103    | gateway internal protocol error                                                           |
| ORA-09104    | gateway internal cross-communication error                                                |
| ORA-09120    | gateway has timed out access to target system                                             |
| ORA-01680    | gc_db_locks cannot be zero if gc_files_to_locks is used                                   |
| ORA-01606    | GC_FILES_TO_LOCKS not identical to that of another mounted instance                       |
| ORA-01607    | GC_LCK_PROCS num is not the same as other instances num                                   |
| ORA-23381    | generated object for base object name.name@name does not exist                            |
| ORA-00084    | global area must be PGA, SGA, or UGA                                                      |
| ORA-01560    | global hash table size mismatch for GC_name (num != num)                                  |
| ORA-01572    | global hash table size num for rollback segments is too small for rollback segment ID num |
| ORA-02069    | global_names parameter must be set to TRUE for this operation                             |
| ORA-01713    | GRANT OPTION does not exist for that privilege                                            |
| ORA-01720    | grant option does not exist for str                                                       |

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| ORA-01928 | GRANT option not granted for all privileges                                      |
| ORA-01994 | GRANT failed: cannot add users to public password file                           |
| ORA-01996 | GRANT failed: password file name is full                                         |
| ORA-01997 | GRANT failed: user name is identified externally                                 |
| ORA-12441 | grant already exists at a different label                                        |
| ORA-00934 | group function is not allowed here                                               |
| ORA-00935 | group function is nested too deeply                                              |
| ORA-01224 | group number in header name does not match GROUP name                            |
| ORA-23332 | group name is in use; cannot drop                                                |
| ORA-02469 | hash expression does not return an Oracle Number                                 |
| ORA-06580 | Hash Join ran out of memory while keeping large rows in memory                   |
| ORA-02459 | hashkey value must be a positive integer                                         |
| ORA-02458 | HASHKEYS must be specified for a HASH CLUSTER                                    |
| SQL-02111 | Heap consistency error                                                           |
| ORA-01818 | HH24 precludes use of meridian indicator                                         |
| ORA-13129 | HHCODE column name not found                                                     |
| MOD-00062 | host variable for indicator is not recognized                                    |
| ORA-24302 | host connection in use by another thread                                         |
| PCC-00068 | Host and indicator variables may not have the same name                          |
| PCC-00069 | Host variable var has unsupported datatype at line num in file name              |
| PCC-02206 | Host variables are not permitted within a DDL statement                          |
| PCC-02336 | Host variable expression has invalid type                                        |
| PCC-02339 | Host variables cannot be of union types                                          |
| PCC-02341 | Host variable has illegal type                                                   |
| PCC-02344 | Host variable arrays must all be of equal size                                   |
| PCC-02362 | Host variable not declared within SQL Declare Section                            |
| PCC-02364 | Host structure and its indicator must have the same number of fields             |
| PCC-02365 | Host and its indicator variable must have the same array dimensions              |
| ORA-01813 | hour may only be specified once                                                  |
| ORA-01836 | hour conflicts with seconds in day                                               |
| ORA-01849 | hour must be between 1 and 12                                                    |
| ORA-01850 | hour must be between 0 and 23                                                    |
| ORA-12826 | hung parallel query server was killed                                            |
| ORA-01938 | IDENTIFIED BY must be specified for CREATE USER                                  |
| ORA-01942 | IDENTIFIED BY and EXTERNALLY cannot both be specified                            |
| ORA-01943 | IDENTIFIED BY already specified                                                  |
| ORA-01944 | IDENTIFIED EXTERNALLY already specified                                          |
| ORA-00972 | identifier is too long                                                           |
| PCC-01202 | Identifier ident truncated to 31 characters                                      |
| PCC-01511 | Identifier on line num in file name was too long for code generated in file name |
| PCC-02308 | Identifier required in this function definition                                  |
| PCC-02358 | Identifier following ARRAYLEN must be the name of an array                       |
| PCC-02359 | Identifier specifying ARRAYLEN dimension must be an integer                      |
| PLS-00114 | identifier name too long                                                         |
| PLS-00201 | identifier name must be declared                                                 |
| PLS-00207 | identifier name, applied to implicit cursor SQL, is not a legal cursor attribute |
| PLS-00208 | identifier name is not a legal cursor attribute                                  |

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|--------------|---------------------------------------------------------------------|
| PLS-00413    | identifier in CURRENT OF clause is not a cursor name                |
| PLS-01401    | identifier over 18 characters long                                  |
| ORA-00123    | idle public server terminating                                      |
| SQL*Load-406 | if data is all generated, number to load cannot be ALL              |
| SQL*Load-407 | if data is all generated, number to skip is meaningless             |
| DBA-00103    | illegal ARCHIVE LOG option                                          |
| DBA-00104    | illegal RECOVER option                                              |
| DBA-00110    | illegal SET option                                                  |
| DBA-00111    | illegal SHOW option                                                 |
| DBA-00116    | illegal SHUTDOWN option                                             |
| DBA-00119    | illegal STARTUP option                                              |
| DBA-00121    | illegal MONITOR option                                              |
| LCC-00112    | illegal integer radix specification character                       |
| LCC-00114    | illegal boolean response character                                  |
| LCC-00210    | illegal assignment operator symbol                                  |
| ORA-00274    | illegal recovery option str                                         |
| ORA-00277    | illegal option to the UNTIL recovery flag str                       |
| ORA-00300    | illegal redo log block size num specified - exceeds limit of num    |
| ORA-00949    | illegal reference to remote database                                |
| ORA-00997    | illegal use of LONG datatype                                        |
| ORA-01036    | illegal variable name/num                                           |
| ORA-01413    | illegal value in packed decimal number buffer                       |
| ORA-01497    | illegal option for ANALYZE CLUSTER                                  |
| ORA-01601    | illegal bucket size in clause str of GC_FILES_TO_LOCKS              |
| ORA-01603    | illegal grouping in clause str of GC_FILES_TO_LOCKS                 |
| ORA-01604    | illegal file number range in clause str of GC_FILES_TO_LOCKS        |
| ORA-01734    | illegal parameters - EXTENT MIN higher than EXTENT MAX              |
| ORA-01741    | illegal zero-length identifier                                      |
| ORA-01760    | illegal argument for function                                       |
| ORA-01771    | illegal option for a clustered table                                |
| ORA-01974    | illegal archive option                                              |
| ORA-01975    | illegal character in change number num                              |
| ORA-02035    | illegal bundled operation combination                               |
| ORA-02065    | illegal option for ALTER SYSTEM                                     |
| ORA-02383    | illegal cost factor                                                 |
| ORA-02483    | illegal ID value specified for events                               |
| PCC-00070    | Illegal syntax. Exponential value in SQL statement: text            |
| PCC-02305    | Illegal mixing of new and old style C function declarations         |
| PCC-02306    | Illegal name of C function                                          |
| PCC-02309    | Illegal formal parameter declaration                                |
| PCC-02316    | Illegal operator in constant expression                             |
| PCC-02317    | Illegal cast type expression                                        |
| PCC-02326    | Illegal structure reference operation                               |
| PCC-02351    | Illegal datatype equivalencing operation                            |
| PCC-02371    | Illegal FOR clause                                                  |
| PLS-00128    | illegal number of arguments for pragma name                         |
| PLS-00374    | illegal EXIT statement; it must appear inside the loop labeled name |
| PLS-00375    | illegal GOTO statement; this GOTO cannot branch to label name       |
| PLS-00376    | illegal EXIT statement; it must appear inside a loop                |

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| PLS-00490    | illegal statement                                                                                            |
| PLS-00701    | illegal Oracle error number num for PRAGMA EXCEPTION_INIT                                                    |
| PLS-01701    | illegal syntax in ROLLBACK WORK statement                                                                    |
| PLS-01702    | illegal syntax in COMMIT WORK statement                                                                      |
| SQL*Load-304 | illegal combination of non-alphanumeric characters                                                           |
| ORA-01089    | immediate shutdown in progress - no operations are permitted                                                 |
| PLS-00509    | implementation restriction: pass a returned record to a temporary identifier before selecting a field        |
| PLS-00512    | implementation restriction: 'name' cannot directly access remote package variable or cursor                  |
| ORA-02005    | implicit (-1) length not valid for this bind or define datatype                                              |
| IMP-00000    | import terminated unsuccessfully                                                                             |
| IMP-00023    | import views not installed, please notify your DBA                                                           |
| ORA-23327    | imported deferred remote procedure call data does not match id of importing db                               |
| ORA-09124    | in name argument name: Index out of range                                                                    |
| PCC-01004    | In an EXEC statement at end-of-file                                                                          |
| PLS-00326    | IN clause must contain same number of expressions as subquery                                                |
| PLS-00368    | in RAISE statement, name must be an exception name                                                           |
| PLS-00372    | in a procedure, RETURN statement cannot contain an expression                                                |
| PLS-00425    | in SQL, function argument and return type must be SQL type                                                   |
| PLS-00485    | in exception handler, name must be an exception name                                                         |
| PLS-00950    | in this version, PL/SQL tables cannot be used in this SQL statement                                          |
| PLS-01472    | in a set_function_specification, if DISTINCT is present, the expression must be a column_specification       |
| PLS-01707    | in positioned DELETE or UPDATE statement, table must be identified in specification of cursor                |
| PLS-01708    | in searched DELETE, UPDATE or INSERT, table must not appear in FROM clause of subqueries in search condition |
| PLS-01710    | in a positioned DELETE or UPDATE statement, the cursor name must be of length 1                              |
| MOD-00073    | INAME option is specified but not meaningful                                                                 |
| ORA-01744    | inappropriate INTO                                                                                           |
| ORA-02460    | inappropriate index operation on a hash cluster                                                              |
| ORA-02461    | inappropriate use of the INDEX option                                                                        |
| ORA-02465    | inappropriate use of the HASH IS option                                                                      |
| PLS-00120    | inappropriate argument in OPEN statement                                                                     |
| PCC-02016    | Include file pathname is too long                                                                            |
| ORA-00356    | inconsistent lengths in change description                                                                   |
| ORA-00932    | inconsistent datatypes                                                                                       |
| SQL-02101    | Inconsistent cursor cache. Unit cursor/global cursor mismatch                                                |
| SQL-02102    | Inconsistent cursor cache. No global cursor entry                                                            |
| SQL-02103    | Inconsistent cursor cache. Out of range cursor cache reference                                               |
| SQL-02104    | Inconsistent host cache. No cursor cache available                                                           |
| SQL-02105    | Inconsistent cursor cache. Global cursor not found                                                           |
| SQL-02106    | Inconsistent cursor cache. Invalid Oracle cursor number                                                      |
| SQL-02109    | Inconsistent host cache. Host reference is out of range                                                      |
| SQL-02110    | Inconsistent host cache. Invalid host cache entry type                                                       |
| ORA-23340    | incorrect resolution method name                                                                             |

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| SQL*Load-934 | incorrect datafile name specified for table tabnam                         |
| ORA-04002    | INCREMENT must be a non-zero integer                                       |
| ORA-04005    | INCREMENT must be less than MAXVALUE minus MINVALUE                        |
| EXP-00029    | incremental export mode and consistent mode are not compatible             |
| ORA-01448    | index must be dropped before changing to desired type                      |
| ORA-01502    | index str.name is in direct load state                                     |
| ORA-02365    | index name was left in Direct Load State due to                            |
| ORA-02367    | index name was loaded                                                      |
| ORA-08100    | index is not valid - see trace file for diagnostics                        |
| ORA-08101    | index key does not exist root dba num, dba num num                         |
| ORA-08102    | index key not found, obj# num, dba num num                                 |
| SQL*Load-257 | index name specified in SORTED INDEXES does not exist on table name        |
| SQL*Load-260 | index num is in an invalid state                                           |
| ORA-12445    | index/row label mismatch - see trace file                                  |
| ORA-01746    | indicator variable not permitted here                                      |
| PCC-00024    | Indicator variable var has wrong type or length at line num in file name   |
| PCC-00132    | Indicator array size must not be less than its host variable               |
| PCC-02363    | Indicator variable must be a structure                                     |
| PCC-02367    | Indicator variables must be declared as type short                         |
| PCC-02348    | Indicators are not allowed in EXEC IAF statements                          |
| ORA-02203    | INITIAL storage options not allowed                                        |
| ORA-02361    | initial enclosing character not found                                      |
| SQL*Load-620 | initial enclosing character not found                                      |
| ORA-00065    | initialization of FIXED_DATE failed                                        |
| ORA-09119    | initialization file contains error                                         |
| DBA-00304    | input file I/O error num - input aborted                                   |
| ORA-01840    | input value not long enough for date format                                |
| ORA-08464    | input raw decimal data contains more than 42 digits                        |
| ORA-08465    | input mask contains more than 32 characters                                |
| PCC-00072    | Input file name length exceeds 14 characters                               |
| PCC-00122    | Input file name and output file name are identical                         |
| PCC-02394    | Input file name and output filename are identical                          |
| PLS-00396    | INSERT statement's subquery yields wrong number of columns                 |
| ORA-01401    | inserted value too large for column                                        |
| ORA-02159    | installed DLM does not support releasable locking mode                     |
| DBA-00321    | instance name too long                                                     |
| ORA-00265    | instance recovery required, cannot set ARCHIVELOG mode                     |
| ORA-01576    | instance locking protocol version num incompatible with Oracle Version num |
| ORA-12824    | INSTANCES DEFAULT may not be specified here                                |
| DBA-00328    | insufficient privilege for this display                                    |
| DBA-00329    | insufficient privilege for SHOW SGA                                        |
| DBA-00336    | insufficient privilege for SHOW PARAMETERS                                 |
| IMP-00014    | insufficient Oracle privileges to do import                                |
| ORA-00944    | insufficient number of clustered columns                                   |
| ORA-01031    | insufficient privileges                                                    |
| ORA-01039    | insufficient privileges on underlying objects of the view                  |
| ORA-04060    | insufficient privileges to execute name                                    |
| ORA-12428    | insufficient MAC privileges                                                |
| ORA-12438    | insufficient privileges to validate constraint on all rows                 |



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| ORA-12487    | insufficient privileges to set label to DBHIGH or DBLOW                 |
| ORA-12489    | insufficient MAC privilege to alter session                             |
| ORA-12827    | insufficient parallel query slaves available                            |
| ORA-23406    | insufficient privileges on user "name"                                  |
| PLS-00904    | insufficient privilege to access object name                            |
| DBA-00125    | integer value overflow                                                  |
| LCC-00113    | integer conversion error or negative integer num                        |
| ORA-02017    | integer value required                                                  |
| ORA-23366    | integer value num is less than 1                                        |
| ORA-02291    | integrity constraint str.name violated - parent key not found           |
| ORA-02292    | integrity constraint str.name violated - child record found             |
| MOD-00065    | interface definition missing for procedure name                         |
| DBA-00300    | internal error code, arguments: [num], [str]                            |
| EXP-00006    | internal inconsistency error                                            |
| LCC-00100    | internal error, argument num                                            |
| MOD-00036    | internal programming exception                                          |
| ORA-00600    | internal error code, arguments: [num], [?], [?], [?], [?], [?]          |
| ORA-00602    | internal programming exception                                          |
| ORA-00606    | internal error code                                                     |
| ORA-01041    | internal error. HOSTDEF extension does not exist                        |
| ORA-01058    | internal New Upi interface error                                        |
| ORA-01431    | internal inconsistency in GRANT command                                 |
| ORA-01443    | internal inconsistency; illegal datatype in resultant view column       |
| ORA-01444    | internal inconsistency; internal datatype maps to invalid external type |
| ORA-01743    | internal inconsistency; illegal user function index                     |
| ORA-23305    | internal deferred RPC error: str                                        |
| PLS-00801    | internal error [num]                                                    |
| SQL*Load-702 | internal error - str                                                    |
| SQL*Load-703 | internal error: argument num                                            |
| SQL*Load-704 | internal error: str num                                                 |
| SQL*Load-705 | internal error                                                          |
| PLS-01420    | INTERSECT and MINUS set operators are not ANSI                          |
| ORA-23420    | interval must evaluate to a time in the future                          |
| MOD-00059    | INTO variable var was not listed as a formal parameter                  |
| PLS-00387    | INTO variable cannot be a database object                               |
| DBA-00100    | invalid SPOOL filename                                                  |
| DBA-00105    | invalid INSTANCE name                                                   |
| DBA-00106    | invalid ECHO switch                                                     |
| DBA-00107    | invalid TERMOUT switch                                                  |
| DBA-00108    | invalid TIMING switch                                                   |
| DBA-00109    | invalid CYCLE value                                                     |
| DBA-00113    | invalid PFILE name                                                      |
| DBA-00114    | invalid database name                                                   |
| DBA-00117    | invalid tablespace name                                                 |
| DBA-00118    | invalid process identifier or invalid statistics class                  |
| DBA-00120    | invalid STOPONERROR switch                                              |
| DBA-00122    | invalid SET numeric parameter                                           |
| DBA-00123    | invalid tablespace name list                                            |
| DBA-00124    | invalid ARCHIVE destination                                             |

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| DBA-00126 | invalid VERIFY switch                                              |
| DBA-00127 | invalid combination of STARTUP options                             |
| DBA-00128 | invalid DEBUG switch                                               |
| DBA-00131 | invalid ARCHIVE TO device                                          |
| DBA-00133 | invalid datafile list                                              |
| DBA-00134 | invalid AUTORECOVERY switch                                        |
| DBA-00139 | invalid ALTER DATABASE option                                      |
| DBA-00140 | invalid COMPATIBILITY switch                                       |
| DBA-00141 | invalid RETRIES value                                              |
| DBA-00144 | invalid object type for DESCRIBE                                   |
| DBA-00145 | invalid object name for DESCRIBE                                   |
| DBA-00146 | invalid HISTORY value                                              |
| DBA-00147 | invalid LINES value                                                |
| DBA-00148 | invalid TERM switch (use either PAGE or NOPAGE)                    |
| DBA-00149 | invalid SERVEROUTPUT switch                                        |
| DBA-00150 | invalid FLAGGER switch                                             |
| EXP-00004 | invalid username or password                                       |
| IMP-00004 | invalid username or password                                       |
| IMP-00012 | invalid export mode num in header                                  |
| LCC-00128 | invalid positional parameter value num                             |
| ORA-00022 | invalid session id; access denied                                  |
| ORA-00067 | invalid value num for parameter num, must be at least num          |
| ORA-00068 | invalid value num for parameter num, must be between num and num   |
| ORA-00080 | invalid global area specified by level num                         |
| ORA-00101 | invalid specification for initialization parameter MTS_DISPATCHERS |
| ORA-00103 | invalid network protocol; reserved for use by dispatchers          |
| ORA-00119 | invalid specification for system parameter MTS_LISTENER_ADDRESS    |
| ORA-00151 | invalid transaction ID                                             |
| ORA-00400 | invalid release value num for parameter name                       |
| ORA-00900 | invalid SQL statement                                              |
| ORA-00901 | invalid CREATE command                                             |
| ORA-00902 | invalid datatype                                                   |
| ORA-00903 | invalid table name                                                 |
| ORA-00904 | invalid column name                                                |
| ORA-00909 | invalid number of arguments                                        |
| ORA-00911 | invalid character                                                  |
| ORA-00919 | invalid function                                                   |
| ORA-00920 | invalid relational operator                                        |
| ORA-00940 | invalid ALTER command                                              |
| ORA-00950 | invalid DROP option                                                |
| ORA-00953 | invalid index name                                                 |
| ORA-00974 | invalid PCTFREE value percentage                                   |
| ORA-00985 | invalid program name                                               |
| ORA-00992 | invalid format for REVOKE command                                  |
| ORA-00999 | invalid view name                                                  |
| ORA-01001 | invalid cursor                                                     |
| ORA-01010 | invalid OCI operation                                              |
| ORA-01017 | invalid username/password; logon denied                            |
| ORA-01024 | invalid datatype in OCI call                                       |

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| ORA-01040 | invalid character in password; logon denied                       |
| ORA-01057 | invalid or ambiguous block.field reference in user exit           |
| ORA-01084 | invalid argument in OCI call                                      |
| ORA-01410 | invalid ROWID                                                     |
| ORA-01414 | invalid array length when trying to bind array                    |
| ORA-01458 | invalid length inside variable character string                   |
| ORA-01459 | invalid length for variable character string                      |
| ORA-01465 | invalid hex number                                                |
| ORA-01481 | invalid number format model                                       |
| ORA-01483 | invalid length for DATE or NUMBER bind variable                   |
| ORA-01488 | invalid nibble or byte in the input data                          |
| ORA-01490 | invalid ANALYZE command                                           |
| ORA-01493 | invalid SAMPLE size specified                                     |
| ORA-01494 | invalid SIZE specified                                            |
| ORA-01513 | invalid current time returned by operating system                 |
| ORA-01722 | invalid number                                                    |
| ORA-01730 | invalid number of column names specified                          |
| ORA-01735 | invalid ALTER TABLE option                                        |
| ORA-01745 | invalid host/bind variable name                                   |
| ORA-01747 | invalid user.table.column, table.column, or columns specification |
| ORA-01751 | invalid dump undo option                                          |
| ORA-01914 | invalid auditing option for sequence numbers                      |
| ORA-01915 | invalid auditing option for views                                 |
| ORA-01948 | invalid DEFAULT ROLE specification                                |
| ORA-01956 | invalid command when OS_ROLES are being used                      |
| ORA-01967 | invalid option for CREATE CONTROLFILE                             |
| ORA-01982 | invalid auditing option for tables                                |
| ORA-01983 | invalid auditing option for DEFAULT                               |
| ORA-01984 | invalid auditing option for procedures/packages/functions         |
| ORA-01986 | invalid option for OPTIMIZER_GOAL                                 |
| ORA-01991 | invalid password file name                                        |
| ORA-02003 | invalid USERENV parameter                                         |
| ORA-02006 | invalid packed decimal format string                              |
| ORA-02078 | invalid setting for ALTER SYSTEM FIXED_DATE                       |
| ORA-02134 | Invalid runtime context                                           |
| ORA-02140 | invalid tablespace name                                           |
| ORA-02141 | invalid OFFLINE option                                            |
| ORA-02143 | invalid STORAGE option                                            |
| ORA-02155 | invalid DEFAULT tablespace identifier                             |
| ORA-02156 | invalid TEMPORARY tablespace identifier                           |
| ORA-02158 | invalid CREATE INDEX option                                       |
| ORA-02161 | invalid value for MAXLOGFILES                                     |
| ORA-02162 | invalid value for MAXDATAFILES                                    |
| ORA-02163 | invalid value for FREELIST GROUPS                                 |
| ORA-02165 | invalid option for CREATE DATABASE                                |
| ORA-02168 | invalid value for FREELISTS                                       |
| ORA-02171 | invalid value for MAXLOGHISTORY                                   |
| ORA-02173 | invalid option for DROP TABLESPACE                                |
| ORA-02175 | invalid rollback segment name                                     |

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| ORA-02176 | invalid option for CREATE ROLLBACK SEGMENT                  |
| ORA-02180 | invalid option for CREATE TABLESPACE                        |
| ORA-02181 | invalid option to ROLLBACK WORK                             |
| ORA-02187 | invalid quota specification                                 |
| ORA-02207 | invalid INITTRANS option value                              |
| ORA-02209 | invalid MAXTRANS option value                               |
| ORA-02211 | invalid value for PCTFREE or PCTUSED                        |
| ORA-02218 | invalid INITIAL storage option value                        |
| ORA-02219 | invalid NEXT storage option value                           |
| ORA-02220 | invalid MINEXTENTS storage option value                     |
| ORA-02221 | invalid MAXEXTENTS storage option value                     |
| ORA-02222 | invalid PCTINCREASE storage option value                    |
| ORA-02223 | invalid OPTIMAL storage option value                        |
| ORA-02226 | invalid MAXEXTENTS value max allowed: num                   |
| ORA-02227 | invalid cluster name                                        |
| ORA-02229 | invalid SIZE option value                                   |
| ORA-02230 | invalid ALTER CLUSTER option                                |
| ORA-02232 | invalid MOUNT mode                                          |
| ORA-02233 | invalid CLOSE mode                                          |
| ORA-02236 | invalid filename                                            |
| ORA-02237 | invalid file size                                           |
| ORA-02240 | invalid value for OBJNO or TABNO                            |
| ORA-02243 | invalid ALTER INDEX or ALTER SNAPSHOT option                |
| ORA-02244 | invalid ALTER ROLLBACK SEGMENT option                       |
| ORA-02245 | invalid ROLLBACK SEGMENT name                               |
| ORA-02248 | invalid option for ALTER SESSION                            |
| ORA-02277 | invalid sequence name                                       |
| ORA-02288 | invalid OPEN mode                                           |
| ORA-02376 | invalid or redundant resource                               |
| ORA-02377 | invalid resource limit                                      |
| ORA-02450 | invalid hash option - missing keyword IS                    |
| ORA-02452 | invalid HASHKEYS option value                               |
| ORA-02493 | invalid file increment size in NEXT clause                  |
| ORA-02494 | invalid or missing maximum file size in MAXSIZE clause      |
| ORA-03116 | invalid buffer length passed to a conversion routine        |
| ORA-03277 | invalid SIZE specified                                      |
| ORA-03279 | invalid INSTANCE specified                                  |
| ORA-03280 | invalid datafile filename specified                         |
| ORA-03281 | invalid ALLOCATE EXTENT option                              |
| ORA-03287 | invalid FREELIST GROUP specified                            |
| ORA-03290 | invalid truncate command - missing CLUSTER or TABLE keyword |
| ORA-03291 | invalid truncate option - missing STORAGE keyword           |
| ORA-04050 | invalid or missing procedure, function, or package name     |
| ORA-04070 | invalid trigger name                                        |
| ORA-04072 | invalid trigger type                                        |
| ORA-04074 | invalid REFERENCING name                                    |
| ORA-04075 | invalid trigger action                                      |
| ORA-04076 | invalid NEW or OLD specification                            |
| ORA-04079 | invalid trigger specification                               |

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| ORA-04083 | invalid trigger variable name                                      |
| ORA-06566 | invalid number of rows specified                                   |
| ORA-06567 | invalid number of values specified                                 |
| ORA-08401 | invalid compiler name: name                                        |
| ORA-08413 | invalid compiler type in FORMAT parameter at name                  |
| ORA-08433 | invalid picture type in convert raw to number                      |
| ORA-08437 | invalid picture type in picture mask                               |
| ORA-08449 | invalid numeric symbol found in picture mask                       |
| ORA-08450 | invalid specification of CR in picture mask                        |
| ORA-08451 | invalid specification of DB in picture mask                        |
| ORA-08458 | invalid format parameter                                           |
| ORA-08459 | invalid format parameter length                                    |
| ORA-08460 | invalid environment clause in environment parameter                |
| ORA-09108 | invalid record in target system                                    |
| ORA-12457 | invalid length for MLSLABEL bind variable                          |
| ORA-12461 | invalid binary label                                               |
| ORA-12700 | invalid NLS parameter value name                                   |
| ORA-12702 | invalid NLS parameter string used in SQL function                  |
| ORA-12705 | invalid or unknown NLS parameter value specified                   |
| ORA-12818 | invalid option in PARALLEL clause                                  |
| ORA-12820 | invalid value for DEGREE                                           |
| ORA-12821 | invalid value for INSTANCES                                        |
| ORA-13112 | invalid count mode name                                            |
| ORA-13140 | invalid target type                                                |
| ORA-13141 | invalid RANGE window definition                                    |
| ORA-13142 | invalid PROXIMITY window definition                                |
| ORA-13143 | invalid POLYGON window definition                                  |
| ORA-13152 | invalid HHCODE type                                                |
| ORA-23342 | invalid parameter column name                                      |
| ORA-23400 | invalid snapshot name "name"                                       |
| ORA-24307 | invalid length for piece                                           |
| ORA-25000 | invalid use of bind variable in trigger WHEN clause                |
| PCC-00002 | Invalid syntax at column name in line num of file name             |
| PCC-00003 | Invalid SQL Identifier at column name in line num of file name     |
| PCC-00007 | Invalid WHENEVER condition at column name in line num of file name |
| PCC-00008 | Invalid WHENEVER action at column name in line num of file name    |
| PCC-00009 | Invalid host variable at column name in line num of file name      |
| PCC-00026 | Invalid host variable vat at line num in file name                 |
| PCC-00031 | Invalid value given for option optnam                              |
| PCC-00032 | Invalid option optnam                                              |
| PCC-00089 | Invalid Oracle TYPE specification                                  |
| PCC-00093 | Invalid or obsolete option, ignored                                |
| PCC-00117 | Invalid ARRAYLEN length variable type                              |
| PCC-00130 | Invalid value val for option optnam                                |
| PCC-00136 | Invalid SQL_CURSOR declaration                                     |
| PCC-00137 | Invalid use of SQL_CURSOR host variable                            |
| PCC-01002 | Invalid character char in indicator area at line num in file name  |
| PCC-01003 | Invalid continuation at line num in file name                      |
| PCC-01010 | Invalid use of NULL character in character literal                 |

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| PCC-01013    | Invalid use of PIC N array variable "variable_name" at line line_number in file name |
| PCC-01102    | Invalid label at line num in file name                                               |
| PCC-01512    | Invalid EXEC SQL INCLUDE of file name found at line num in file name                 |
| PCC-02207    | Invalid macro name                                                                   |
| PCC-02304    | Invalid declaration of C function                                                    |
| PCC-02355    | Invalid or obsolete option, ignored                                                  |
| PCC-02373    | Invalid declaration in EXEC SQL DECLARE section                                      |
| PCC-02378    | Invalid type for National Language character variable                                |
| PCF-00274    | invalid datatype                                                                     |
| PLS-00330    | invalid use of type name or subtype name                                             |
| PLS-00362    | invalid cursor return type; 'name' must be a record type                             |
| PLS-00378    | invalid compilation unit for this release of PL/SQL                                  |
| PLS-00487    | invalid reference to variable name                                                   |
| PLS-00488    | invalid variable declaration: object name must be a type or subtype                  |
| PLS-00489    | invalid table reference: name must be a column in this expression                    |
| SQL*Load-101 | invalid argument for username/password                                               |
| SQL*Load-102 | invalid control file name on command line                                            |
| SQL*Load-103 | invalid log file name on command line                                                |
| SQL*Load-104 | invalid bad file name on command line                                                |
| SQL*Load-105 | invalid datafile name on command line                                                |
| SQL*Load-106 | invalid discard file name on command line                                            |
| SQL*Load-107 | invalid maximum number of discards                                                   |
| SQL*Load-108 | invalid number of logical records to load                                            |
| SQL*Load-109 | invalid number of logical records to skip                                            |
| SQL*Load-110 | invalid maximum number of errors                                                     |
| SQL*Load-111 | invalid number of rows for bind array or data saves                                  |
| SQL*Load-112 | invalid maximum bind array size                                                      |
| SQL*Load-113 | invalid silent mode option                                                           |
| SQL*Load-115 | invalid direct path option                                                           |
| SQL*Load-641 | invalid zoned decimal nibble                                                         |
| SQL-02108    | Invalid descriptor passed to run-time library                                        |
| SQL-02114    | Invalid SQL Cursor usage: trying to CLOSE a CLOSED cursor                            |
| SQL-02117    | Invalid SQL Cursor usage: trying to OPEN an OPENed cursor                            |
| SQL-02118    | Invalid row for a WHERE CURRENT OF operation                                         |
| SQL-02119    | Invalid HSTDEF argument                                                              |
| SQL-02121    | Invalid host name                                                                    |
| SQL-02122    | Invalid OPEN or PREPARE for this database connection                                 |
| ORA-00340    | I/O error processing online log name of thread num                                   |
| ORA-01114    | IO error writing block to file name block # num                                      |
| ORA-01115    | IO error reading block from file name block # num                                    |
| PCC-00067    | IRECLEN exceeded. Line num in file name truncated                                    |
| ORA-02064    | iterated or long remote update with subquery not supported                           |
| ORA-23421    | job number num is not a job in the job queue                                         |
| ORA-23423    | job number num is not positive                                                       |
| ORA-01802    | Julian date is out of range                                                          |
| ORA-01811    | Julian date precludes use of day of year                                             |
| ORA-01854    | Julian date must be between 1 and 5373484                                            |
| ORA-02269    | key column cannot be of LONG datatype                                                |

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| ORA-02190 | keyword TABLES expected                                                   |
| PCC-00105 | Keyword WORK required here by ANSI                                        |
| PCF-00257 | keyword WORK required after COMMIT                                        |
| PCF-00258 | keyword WORK required after ROLLBACK                                      |
| IMP-00047 | label string larger than 255 characters found at line num in mapfile      |
| ORA-12416 | label of audit must dominate user                                         |
| ORA-12418 | label of index must equal table                                           |
| ORA-12419 | label of column must equal table                                          |
| ORA-12420 | label of stored object must dominate referenced object name               |
| ORA-12421 | label of grant must dominate object                                       |
| ORA-12422 | label of grant must dominate grantee name                                 |
| ORA-12423 | label of constraint must equal table                                      |
| ORA-12424 | label of object must dominate tablespace                                  |
| ORA-12425 | label of table must dominate cluster                                      |
| ORA-12426 | label of user must dominate default or temporary tablespace               |
| ORA-12427 | label of object must dominate schema                                      |
| ORA-12429 | label of comment must equal table or view                                 |
| ORA-12430 | label of trigger must equal table                                         |
| ORA-12431 | label of user must dominate default profile                               |
| ORA-12432 | label of grant must equal label of procedure                              |
| ORA-12433 | label of default role name must dominate user                             |
| ORA-12434 | label of child record must dominate parent                                |
| ORA-12435 | label of package body must equal package                                  |
| ORA-12450 | label string could not be translated into binary label                    |
| ORA-12452 | label format string could not be parsed; check format codes               |
| PLS-00219 | label name reference is out of scope                                      |
| ORA-01479 | last character in the buffer is not Null                                  |
| ORA-00480 | LCK* process terminated with error                                        |
| ORA-12449 | least upper bound resulted in an invalid operating system label           |
| LCC-00204 | left parenthesis and no parameter specified name                          |
| ORA-01132 | length of datafile name name exceeds limit of num characters              |
| ORA-01133 | length of log file name name exceeds limit of num characters              |
| PCC-00082 | Length and scale specifications must be an integer                        |
| PCC-00092 | Length and/or scale incompatible with specified Oracle datatype           |
| PCC-00099 | Length cannot be given for types ROWID, DATE, or MLSLABEL                 |
| PCC-00114 | Length spec required in EXEC SQL VAR statements for VARxxx types          |
| PLS-00406 | length of SELECT list in subquery must match number of assignment targets |
| ORA-00976 | LEVEL, PRIOR, or ROWNUM not allowed here                                  |
| ORA-00470 | LGWR process terminated with error                                        |
| ORA-00035 | LICENSE_MAX_USERS cannot be less than current number of users             |
| ORA-00253 | limit of num exceeded by length num of archive string name                |
| ORA-00302 | limit of num logs exceeded                                                |
| ORA-00306 | limit of num log writer instances in this database                        |
| ORA-06550 | line num, column num: str                                                 |
| ORA-01492 | LIST option not valid                                                     |
| PLS-00412 | list of values not allowed as argument to this function or procedure      |
| ORA-01861 | literal does not match format string                                      |
| ORA-12456 | literal string supplied does not match specified input format             |
| MOD-00096 | LNAME option is specified but not meaningful                              |

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| ORA-02371    | loader must be at least version num for direct path                              |
| SQL*Load-909 | loader views must be loaded (as SYS) for direct path to be used                  |
| ORA-01591    | lock held by in-doubt distributed transaction num                                |
| ORA-02061    | lock table specified list of non-collocated tables                               |
| ORA-00252    | log name of thread num is empty, cannot archive                                  |
| ORA-00259    | log name of open thread num is the current log, cannot archive                   |
| ORA-00261    | log name of thread num is being archived or modified, cannot archive             |
| ORA-00278    | log file name no longer needed for this recovery                                 |
| ORA-00305    | log name of thread num inconsistent; belongs to another database                 |
| ORA-00309    | log belongs to wrong database                                                    |
| ORA-00314    | log name of thread num, expected sequence # num does not match num               |
| ORA-00315    | log name of thread num, wrong thread # num in header                             |
| ORA-00316    | log name of thread num, type str in header is not redo log file                  |
| ORA-00318    | log name of thread num, expected file size num does not match num                |
| ORA-00319    | log name of thread num has incorrect log reset status                            |
| ORA-00321    | log name of thread num, cannot update log file header                            |
| ORA-00322    | log name of thread num is not current copy                                       |
| ORA-00324    | log file name translated name name too long, num characters exceeds num<br>limit |
| ORA-00326    | log begins at change num, need earlier change num                                |
| ORA-00327    | log name of thread num, physical size num less than needed num                   |
| ORA-00331    | log version num incompatible with Oracle version num                             |
| ORA-00336    | log file size num blocks is less than minimum num blocks                         |
| ORA-00337    | log file name does not exist and no size specified                               |
| ORA-00338    | log name of thread num is more recent than control file                          |
| ORA-00341    | log name of thread num, wrong log # num in header                                |
| ORA-00346    | log member marked as STALE                                                       |
| ORA-00347    | log name of thread num expected block size num does not match num                |
| ORA-00350    | log name of thread num needs to be archived                                      |
| ORA-00353    | log corruption near block num change str time str                                |
| ORA-00359    | log file group num does not exist                                                |
| ORA-00363    | log is not the archived version                                                  |
| ORA-00390    | log name of thread num is being cleared, cannot become current log               |
| ORA-00392    | log name of thread num is being cleared, operation not allowed                   |
| ORA-00393    | log name of thread num is needed for recovery of offline datafiles               |
| ORA-01184    | log file group num already exists                                                |
| ORA-01185    | log file group number num is invalid                                             |
| ORA-01217    | log file member belongs to a different redo log file group                       |
| ORA-01218    | log file member is not from the same point-in-time                               |
| ORA-01227    | log name is inconsistent with other log                                          |
| ORA-01517    | log member: str                                                                  |
| ORA-01609    | log name is the current log for thread num - cannot drop members                 |
| ORA-01623    | log num is current log for thread num - cannot drop                              |
| ORA-01624    | log name needed for crash recovery of thread num - cannot drop                   |
| ORA-01648    | log name is the current log of disabled thread name                              |
| SQL*Load-255 | log file for error recovery not used by SQL*Loader                               |
| ORA-01900    | LOGFILE keyword expected                                                         |
| ORA-02167    | LOGFILE clause specified more than once                                          |
| ORA-00063    | LOG_FILES initialization parameter exceeded                                      |



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| ORA-00066    | LOG_FILES is num but needs to be num to be compatible                  |
| ORA-02362    | logical record ended - second enclosing character not present          |
| SQL*Load-623 | logical record ended # second enclosure character not present          |
| ORA-00024    | logins from more than one process not allowed in single-process mode   |
| ORA-01015    | logon called recursively                                               |
| ORA-12317    | logon to database (link name name) denied                              |
| DBA-00330    | logsource name too long                                                |
| IMP-00020    | long column too large for column buffer size num                       |
| PLS-00364    | loop index variable name use is invalid                                |
| ORA-01775    | looping chain of synonyms                                              |
| ORA-02485    | low ID value is greater than high ID value                             |
| PCC-00101    | Lower case 'e' in floating point number is not ANSI                    |
| PCC-02209    | Macro invocation has incorrect number of arguments                     |
| ORA-23304    | malformed deferred RPC at arg name of name in call name, in tid name   |
| PCC-02313    | Malformed VARCHAR declaration - missing length                         |
| DBA-00370    | mandatory field/list needs to be filled in                             |
| DBA-00376    | mandatory field has to be filled in before navigation is possible      |
| DBA-00377    | mandatory list item has to be selected before navigation is possible   |
| MOD-00077    | mandatory parameter SQLCODE or SQLSTATE is missing                     |
| ORA-00258    | manual archiving in NOARCHIVELOG mode must identify log                |
| ORA-08468    | mask option name is not supported                                      |
| ORA-23432    | master site name already exists                                        |
| ORA-23434    | master site name not known for object group                            |
| ORA-01628    | max # of extents num reached for rollback segment num                  |
| ORA-01629    | max # of extents num reached saving undo for tablespace name           |
| ORA-01630    | max # of extents num reached in temp segment in tablespace name        |
| ORA-01631    | max # of extents num reached in table name                             |
| ORA-01632    | max # of extents num reached in index name                             |
| ORA-01656    | max num extents num reached in cluster name.name                       |
| ORA-01165    | MAXDATAFILES may not exceed num                                        |
| ORA-01553    | MAXEXTENTS must be no smaller than the num extents currently allocated |
| ORA-01559    | MAXEXTENTS for rollback segment must be greater than 1                 |
| ORA-00018    | maximum number of sessions exceeded                                    |
| ORA-00019    | maximum number of session licenses exceeded                            |
| ORA-00020    | maximum number of processes num exceeded                               |
| ORA-00052    | maximum number of enqueue resources num exceeded                       |
| ORA-00053    | maximum number of enqueues exceeded                                    |
| ORA-00055    | maximum number of DML locks exceeded                                   |
| ORA-00057    | maximum number of temporary table locks exceeded                       |
| ORA-00059    | maximum number of DB_FILES exceeded                                    |
| ORA-00568    | maximum number of interrupt handlers exceeded                          |
| ORA-00703    | maximum number of dictionary cache instance locks exceeded             |
| ORA-01000    | maximum open cursors exceeded                                          |
| ORA-01037    | maximum cursor memory exceeded                                         |
| ORA-01450    | maximum key length exceeded                                            |
| ORA-01574    | maximum number of concurrent transactions exceeded                     |
| ORA-01778    | maximum subquery nesting level exceeded                                |
| ORA-01792    | maximum number of columns in a table or view is 254                    |
| ORA-01793    | maximum number of index columns is 16                                  |

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| ORA-01794    | maximum number of cluster columns is 16                                       |
| ORA-01795    | maximum number of expressions in a list is 254                                |
| ORA-01925    | maximum of num enabled roles exceeded                                         |
| ORA-02257    | maximum number of columns exceeded                                            |
| ORA-08000    | maximum number of session sequence lists exceeded                             |
| ORA-08001    | maximum number of sequences per session exceeded                              |
| ORA-09118    | maximum number of savepoints exceeded                                         |
| ORA-12341    | maximum number of open mounts exceeded                                        |
| ORA-12459    | maximum number of columns in a Trusted Oracle table is 253                    |
| ORA-23350    | maximum number of recursive calls exceeded                                    |
| SQL*Load-258 | maximum number of sorted indexes num exceeded on table name.                  |
| SQL*Load-413 | maximum number of constraints num exceeded on table name                      |
| SQL*Load-414 | maximum number of triggers num exceeded on table name                         |
| SQL*Load-602 | maximum converted length num of column name.name is too big for bind array    |
| SQL*Load-603 | maximum length num of column name.name is too big for bind array              |
| ORA-01213    | MAXINSTANCES may not exceed num                                               |
| ORA-01222    | MAXINSTANCES of num requires MAXLOGFILES be at least num, not num             |
| ORA-01164    | MAXLOGFILES may not exceed num                                                |
| ORA-01214    | MAXLOGHISTORY may not exceed num                                              |
| ORA-01212    | MAXLOGMEMBERS may not exceed num                                              |
| ORA-04009    | MAXVALUE cannot be made to be less than the current value                     |
| ORA-01456    | may not perform insert/delete/update operation inside a READ ONLY transaction |
| ORA-01749    | may not GRANT/REVOKE privileges to/from self                                  |
| ORA-01773    | may not specify column datatypes in this CREATE TABLE                         |
| ORA-12005    | may not schedule automatic refresh for times in the past                      |
| ORA-00273    | media recovery of direct load data that was not logged                        |
| ORA-00275    | media recovery has already been started                                       |
| ORA-00281    | media recovery may not be performed using dispatcher                          |
| ORA-01108    | media recovery active on file name                                            |
| ORA-01112    | media recovery not started                                                    |
| ORA-00362    | member is required to form a valid log file in group name                     |
| ORA-00082    | memory size of num is not in valid set of [1], [2], [4]num1num2num3num4num5   |
| ORA-02478    | merge into base segment would overflow MAXEXTENTS limit                       |
| ORA-01556    | MINEXTENTS for rollback segment must be greater than 1                        |
| ORA-01570    | MINEXTENTS must be no larger than the num extents currently allocated         |
| ORA-01837    | minutes of hour conflicts with seconds in day                                 |
| ORA-01851    | minutes must be between 0 and 59                                              |
| ORA-04004    | MINVALUE must be less than MAXVALUE                                           |
| ORA-04007    | MINVALUE cannot be made to exceed the current value                           |
| ORA-23363    | mismatch of snap base table name at master and snap site                      |
| PCC-00004    | Mismatched IF/ELSE/ENDIF block at line num in file name                       |
| DBA-00102    | missing LOG keyword                                                           |
| DBA-00337    | missing instance name                                                         |
| LCC-00203    | missing keyword name                                                          |
| LCC-00209    | missing value for keyword at end of string str                                |
| ORA-00026    | missing or invalid session id                                                 |
| ORA-00114    | missing value for initialization parameter MTS_SERVICE                        |
| ORA-00905    | missing keyword                                                               |

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| ORA-00906 | missing left parenthesis                                    |
| ORA-00907 | missing right parenthesis                                   |
| ORA-00908 | missing NULL keyword                                        |
| ORA-00914 | missing ADD keyword                                         |
| ORA-00917 | missing comma                                               |
| ORA-00922 | missing or invalid option                                   |
| ORA-00924 | missing BY keyword                                          |
| ORA-00925 | missing INTO keyword                                        |
| ORA-00926 | missing VALUES keyword                                      |
| ORA-00927 | missing equal sign                                          |
| ORA-00928 | missing SELECT keyword                                      |
| ORA-00929 | missing period                                              |
| ORA-00930 | missing asterisk                                            |
| ORA-00931 | missing identifier                                          |
| ORA-00936 | missing expression                                          |
| ORA-00941 | missing cluster name                                        |
| ORA-00946 | missing TO keyword                                          |
| ORA-00952 | missing GROUP keyword                                       |
| ORA-00954 | missing IDENTIFIED keyword                                  |
| ORA-00956 | missing or invalid auditing option                          |
| ORA-00958 | missing CHECK keyword                                       |
| ORA-00966 | missing TABLE keyword                                       |
| ORA-00967 | missing WHERE keyword                                       |
| ORA-00968 | missing INDEX keyword                                       |
| ORA-00969 | missing ON keyword                                          |
| ORA-00970 | missing WITH keyword                                        |
| ORA-00971 | missing SET keyword                                         |
| ORA-00982 | missing plus sign                                           |
| ORA-00986 | missing or invalid group names(s)                           |
| ORA-00987 | missing or invalid username(s)                              |
| ORA-00988 | missing or invalid password(s)                              |
| ORA-00990 | missing or invalid privilege                                |
| ORA-00993 | missing GRANT keyword                                       |
| ORA-00994 | missing OPTION keyword                                      |
| ORA-00995 | missing or invalid synonym identifier                       |
| ORA-01009 | missing mandatory parameter                                 |
| ORA-01424 | missing or illegal character following the escape character |
| ORA-01506 | missing or illegal database name                            |
| ORA-01605 | missing file numbers in clause str of GC_FILES_TO_LOCKS     |
| ORA-01703 | missing SYNONYM keyword                                     |
| ORA-01707 | missing LIST keyword                                        |
| ORA-01710 | missing OF keyword                                          |
| ORA-01738 | missing IN keyword                                          |
| ORA-01739 | missing MODE keyword                                        |
| ORA-01740 | missing double quote in identifier                          |
| ORA-01798 | missing EXCEPTION keyword                                   |
| ORA-01935 | missing user or role name                                   |
| ORA-01937 | missing or invalid role name                                |
| ORA-01973 | missing change number                                       |

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| ORA-01976    | missing change number                                          |
| ORA-01977    | missing thread number                                          |
| ORA-01978    | missing sequence number                                        |
| ORA-01979    | missing or invalid password for role name                      |
| ORA-02000    | missing keyword name                                           |
| ORA-02010    | missing host connect string                                    |
| ORA-02012    | missing USING keyword                                          |
| ORA-02013    | missing CONNECT keyword                                        |
| ORA-02026    | missing LINK keyword                                           |
| ORA-02029    | missing FILE keyword                                           |
| ORA-02066    | missing or invalid MTS_DISPATCHERS text                        |
| ORA-02142    | missing or invalid ALTER TABLESPACE option                     |
| ORA-02145    | missing STORAGE option                                         |
| ORA-02174    | missing required thread number                                 |
| ORA-02177    | missing required group number                                  |
| ORA-02199    | missing DATAFILE clause                                        |
| ORA-02231    | missing or invalid option to ALTER DATABASE                    |
| ORA-02246    | missing EVENTS text                                            |
| ORA-02249    | missing or invalid value for MAXLOGMEMBERS                     |
| ORA-02250    | missing or invalid constraint name                             |
| ORA-02420    | missing schema authorization clause                            |
| ORA-02421    | missing or invalid schema authorization identifier             |
| ORA-02422    | missing or invalid schema element                              |
| ORA-02490    | missing required file size in RESIZE clause                    |
| ORA-02491    | missing required keyword ON or OFF in AUTOEXTEND clause        |
| ORA-02492    | missing required file block increment size in NEXT clause      |
| ORA-03282    | missing ALLOCATE EXTENT option                                 |
| ORA-04071    | missing BEFORE or AFTER keyword                                |
| ORA-12453    | missing quote in literal string                                |
| ORA-12819    | missing options in PARALLEL clause                             |
| PCC-00033    | Missing operand for option optnam                              |
| PCC-00095    | Missing PROGRAM, SUBROUTINE, FUNCTION, or BLOCK DATA statement |
| PCC-02318    | Missing type expression                                        |
| PCC-02384    | Missing array length specifier                                 |
| ORA-23301    | mixed use of deferred RPC destination modes                    |
| MOD-00038    | module name required when output language is Ada               |
| DBA-00306    | monitor cycle interval time out of range (1 - num)             |
| DBA-00359    | monitor already active                                         |
| ORA-01816    | month may only be specified once                               |
| ORA-01833    | month conflicts with Julian date                               |
| ORA-01602    | more locks in GC_FILES_TO_LOCKS than reserved in GC_DB_LOCKS   |
| ORA-08453    | more than one V symbol specified in picture mask               |
| ORA-08454    | more than one S symbol specified in picture mask               |
| SQL*Load-305 | more than one end of file character encountered                |
| SQL*Load-412 | more columns specified for table name than the maximum num     |
| ORA-01105    | mount is incompatible with mounts by other instances           |
| ORA-00124    | MTS_DISPATCHERS specified without MTS_MAX_SERVERS              |
| ORA-00121    | MTS_SERVERS specified without MTS_DISPATCHERS                  |
| ORA-00116    | MTS_SERVICE name is too long                                   |

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| ORA-02353    | multi-byte character error                                             |
| SQL*Load-625 | multi-byte character error in control file                             |
| ORA-01026    | multiple buffers of size > 2000 in the bind list                       |
| ORA-01076    | multiple logons per process not yet supported                          |
| PCC-01008    | Multiple element records not allowed in Declare Section                |
| PLS-00703    | multiple instances of named argument in list                           |
| ORA-02027    | multi-row UPDATE of LONG column is not supported                       |
| ORA-12495    | multi-threaded server cannot be used with Trusted Oracle               |
| EXP-00022    | must be SYS or SYSTEM to do incremental export                         |
| EXP-00023    | must be a DBA to do Full Database export                               |
| IMP-00007    | must be a DBA to import objects to another user's account              |
| IMP-00031    | must specify FULL=Y or provide FROMUSER/TOUSER or TABLE arguments      |
| IMP-00046    | must specify MLS_MAPFILE with MLS_LISTLABELS                           |
| MOD-00078    | must specify a user if generating stubs from stored package            |
| ORA-00215    | must be at least one control file                                      |
| ORA-00998    | must name this expression with a column alias                          |
| ORA-01192    | must have at least one enabled thread                                  |
| ORA-01198    | must specify size for log file name if RESETLOGS                       |
| ORA-01475    | must reparse cursor to change bind variable datatype                   |
| ORA-01588    | must use RESETLOGS option for database open                            |
| ORA-01589    | must use RESETLOGS or NORESETLOGS option for database open             |
| ORA-01755    | must specify an extent number or block number                          |
| ORA-01757    | must specify an object number                                          |
| ORA-01772    | must specify a value for LEVEL                                         |
| ORA-02043    | must end current transaction before executing command                  |
| ORA-02241    | must be of form EXTENTS FILE num BLOCK num SIZE num, ...               |
| ORA-12406    | must be at DBHIGH name in O/S to add files to a tablespace             |
| ORA-12414    | must be DBHIGH name to startup database                                |
| ORA-12442    | must be at same label as user to modify default roles                  |
| PCC-00042    | Must include SQLCA file when MODE=ANSI and WHENEVER SQLWARNING used    |
| PCC-00062    | Must use option SQLCHECK=SEMANTICS when there is embedded PL/SQL       |
| PCC-01016    | "N" character literals not supported in embedded PL/SQL                |
| DBA-00341    | name is an undefined bind variable                                     |
| DBA-00366    | name name is malformed, it must be of form [[a.]b.]c@dblink            |
| EXP-00010    | name is not a valid username                                           |
| MOD-00054    | name is not a valid cursor reference                                   |
| ORA-00266    | name of archived log file needed                                       |
| ORA-00267    | name of archived log file not needed                                   |
| ORA-00955    | name is already used by an existing object                             |
| ORA-01111    | name for datafile name is unknown - rename to correct file             |
| ORA-02264    | name already used by an existing constraint                            |
| ORA-04062    | name of name has been changed                                          |
| ORA-04063    | name has errors                                                        |
| ORA-04090    | name specifies same table, event and trigger time as name              |
| ORA-23368    | name name cannot be null or the empty string                           |
| PLS-00124    | name of exception expected for first argument in EXCEPTION_INIT pragma |
| PLS-00221    | name is not a procedure or is undefined                                |
| PLS-00313    | name not declared in this scope                                        |
| PLS-00327    | 'name' is not in SQL scope here                                        |

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|--------------|------------------------------------------------------------------------|
| PLS-00353    | name must name a user in the database                                  |
| PLS-00356    | name must name a table to which the user has access                    |
| PLS-00365    | name is an OUT parameter and cannot be read                            |
| PLS-00704    | name must be declared as an exception                                  |
| PLS-01456    | name length cannot exceed 3.                                           |
| ORA-08002    | name.CURRVAL is not yet defined in this session                        |
| EXP-00011    | name.name does not exist                                               |
| ORA-08004    | name.NEXTVAL str [MIN][MAX]VALUE and cannot be instantiated            |
| PCC-02024    | NCHAR literals are not permitted inside PL/SQL blocks                  |
| ORA-02263    | need to specify the datatype for this column                           |
| SQL*Load-405 | need termination delim with optional enclosure delim: column name.name |
| LCC-00207    | nested parentheses encountered character                               |
| ORA-00978    | nested group function without GROUP BY                                 |
| PLS-00232    | nested packages not permitted                                          |
| ORA-00102    | network protocol str cannot be used by the dispatchers                 |
| ORA-00915    | network access of dictionary table not currently allowed               |
| ORA-03126    | network drive does not support non-blocking operations                 |
| ORA-01670    | new datafile name needed for standby database recovery                 |
| ORA-01764    | new update value of join is not guaranteed to be unique                |
| ORA-04082    | NEW or OLD references not allowed in table level triggers              |
| PCC-02025    | NLS_LOCAL should be TRUE when using NCHAR literals                     |
| PCC-02380    | NLS_LOCAL should be TRUE when using NLS_CHAR                           |
| DBA-00308    | no spool file opened                                                   |
| DBA-00343    | no such parameter                                                      |
| DBA-00344    | no items for the requested operation currently exist                   |
| DBA-00345    | no user sessions exist                                                 |
| DBA-00346    | no unresolved in-doubt transactions exist                              |
| DBA-00347    | no offline tablespaces exist                                           |
| DBA-00348    | no online tablespaces exist                                            |
| DBA-00349    | no available rollback segments exist                                   |
| DBA-00350    | no offline rollback segments exist                                     |
| DBA-00351    | no online rollback segments exist                                      |
| DBA-00352    | no online tablespaces exist for backup                                 |
| DBA-00353    | no online tablespaces being backed up exist                            |
| DBA-00354    | no offline tablespaces exist                                           |
| DBA-00355    | no offline datafiles exist                                             |
| DBA-00356    | no users exist                                                         |
| DBA-00357    | no roles exist                                                         |
| DBA-00358    | no users or roles exist                                                |
| EXP-00003    | no storage definition found for segment (name, num)                    |
| EXP-00009    | no privilege to export name's table name                               |
| IMP-00039    | no space for owner name in create string                               |
| MOD-00027    | no input file name specified                                           |
| ORA-00074    | no process has been specified                                          |
| ORA-00100    | no data found                                                          |
| ORA-00100    | no data found                                                          |
| ORA-00264    | no recovery required                                                   |
| ORA-00286    | no members available, or no member contains valid data                 |
| ORA-00371    | no free buffer handles available                                       |

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|--------------|----------------------------------------------------------------------|
| ORA-01003    | no statement parsed                                                  |
| ORA-01032    | no such userid                                                       |
| ORA-01403    | no data found(null)                                                  |
| ORA-01620    | no public threads are available for mounting                         |
| ORA-01929    | no privileges to GRANT                                               |
| ORA-01930    | no privileges to REVOKE                                              |
| ORA-01950    | no privileges on tablespace "name"                                   |
| ORA-02031    | no ROWID for fixed tables                                            |
| ORA-02058    | no prepared transaction found with ID num                            |
| ORA-02079    | no new sessions may join a committing distributed transaction        |
| ORA-02144    | no option specified for ALTER CLUSTER                                |
| ORA-02157    | no options specified for ALTER USER                                  |
| ORA-02202    | no more tables permitted in this cluster                             |
| ORA-02210    | no options specified for ALTER TABLE                                 |
| ORA-02242    | no options specified for ALTER INDEX                                 |
| ORA-02247    | no option specified for ALTER SESSION                                |
| ORA-02270    | no matching unique or primary key for this column-list               |
| ORA-02286    | no options specified for ALTER SEQUENCE                              |
| ORA-02363    | no terminator found after TERMINATED and ENCLOSED field              |
| ORA-02374    | No more slots for read buffer queue                                  |
| ORA-03121    | no interface driver connected - function not performed               |
| ORA-03127    | no new operations allowed until the active operation ends            |
| ORA-08456    | no sign in picture mask but SIGN clause in mask options              |
| ORA-23343    | no match for specified conflict resolution information               |
| PCC-00036    | No input file name specified                                         |
| PCC-00142    | No EXEC SQL CONTEXT USE statement encountered                        |
| PCC-01510    | No package, procedure, or function statement seen in name            |
| PCC-02202    | No TYPEDEF name was given                                            |
| PCC-02208    | No filename specified in #include statement                          |
| PCC-02390    | No EXEC SQL CONTEXT USE statement encountered                        |
| PLS-00222    | no function with name name exists in this scope                      |
| PLS-00369    | no choices may appear with choice OTHERS in an exception handler     |
| PLS-00414    | no column name in table                                              |
| PLS-00422    | no PL/SQL translation for the bind type given for this bind variable |
| PLS-01454    | no operator may be used with values of datatype CHAR                 |
| SQL*Load-624 | no terminator found after TERMINATED and ENCLOSED field              |
| ORA-23376    | node name is not compatible with replication version \"name\"        |
| PCC-00100    | Non integer label is not ANSI                                        |
| PLS-01424    | non-ANSI order of clauses                                            |
| SQL*Load-605 | non-data dependent Oracle error occurred load discontinued           |
| EXP-00032    | non-DBAs may not export other users                                  |
| ORA-04066    | non-executable object, name                                          |
| ORA-01516    | nonexistent log/datafile name                                        |
| SQL*Load-303 | non-hex character encountered where hex char expected                |
| PLS-00325    | non-integral numeric literal num is inappropriate in this context    |
| ORA-12447    | non-secure protocol used; connection denied                          |
| ORA-02439    | non-unique index exists on unique/primary key constraint             |
| ORA-02008    | non-zero scale specified for non-numeric column                      |
| ORA-25103    | NOPARALLEL option can only be used with ALTER INDEX REBUILD          |

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|--------------|------------------------------------------------------------------------------|
| ORA-00000    | normal, successful completion                                                |
| ORA-00448    | normal completion of background process                                      |
| ORA-01409    | NOSORT option may not be used; rows are not in ascending order               |
| ORA-01716    | NOSORT may not be used with a cluster index                                  |
| ORA-25110    | NOSORT may not be used with a bitmap index                                   |
| DBA-00302    | not connected to a database                                                  |
| IMP-00010    | not a valid export file, header failed verification                          |
| ORA-00360    | not a log file member: name                                                  |
| ORA-00937    | not a single-group group function                                            |
| ORA-00938    | not enough arguments for function                                            |
| ORA-00947    | not enough values                                                            |
| ORA-00979    | not a GROUP BY expression                                                    |
| ORA-01008    | not all variables bound                                                      |
| ORA-01012    | not logged on                                                                |
| ORA-01205    | not a datafile - type number in header is num                                |
| ORA-01736    | [NOT] SUCCESSFUL expected                                                    |
| ORA-01791    | not a SELECTED expression                                                    |
| ORA-01843    | not a valid month                                                            |
| ORA-01846    | not a valid day of the week                                                  |
| ORA-01857    | not a valid time zone                                                        |
| ORA-02255    | NOT NULL not allowed after DEFAULT NULL                                      |
| ORA-03114    | not connected to Oracle                                                      |
| ORA-04064    | not executed, invalidated name                                               |
| ORA-04065    | not executed, altered, or dropped name                                       |
| ORA-04067    | not executed, name does not exist                                            |
| ORA-23312    | not the masterdef according to name                                          |
| PCC-00012    | Not in a Declare Section at line num in file name                            |
| PLS-00351    | not logged on to database name                                               |
| SQL*Load-271 | not a parallel load. Table level OPTIONS statement ignored                   |
| SQL*Load-921 | NOT NULL column name.name has a NULLIF clause                                |
| SQL*Load-922 | NOT NULL column name.name has a default if clause which may evaluate to null |
| DBA-00132    | null hostname/password specified                                             |
| ORA-01005    | null password given; logon denied                                            |
| ORA-06557    | null values are not allowed for any parameters to pipe ICD's                 |
| ORA-13136    | null common code generated                                                   |
| ORA-24301    | null host specified in thread-safe logon                                     |
| PLS-01466    | null strings are not allowed                                                 |
| SQL*Load-269 | Null string not allowed as clause comparison text                            |
| SQL-02124    | NULL value returned by EXEC TOOLS statement                                  |
| EXP-00012    | num is not a valid export mode                                               |
| ORA-00208    | number of control file names exceeds limit of num                            |
| ORA-01104    | number of control files num does not equal num                               |
| ORA-01520    | number of datafiles to add num exceeds limit of num                          |
| ORA-01590    | number of segment free list num exceeds maximum of num                       |
| ORA-01768    | number string too long                                                       |
| ORA-02256    | number, type, and size of referencing columns must match referenced columns  |
| ORA-02454    | number of hash keys per block num exceeds maximum of num                     |
| ORA-04013    | number to CACHE must be less than one cycle                                  |
| PLS-00216    | NUMBER precision constraint must be in range (1 .. 38)                       |



|              |                                                                                         |
|--------------|-----------------------------------------------------------------------------------------|
| PLS-00217    | NUMBER scale constraint must be in range (-84 .. 127)                                   |
| PLS-00411    | number of values in aggregate and in subquery don't match                               |
| SQL*Load-409 | number to skip must be table-level, not load-level on continued loads                   |
| SQL*Load-410 | number to skip must be load-level, not table-level                                      |
| SQL-02126    | Number of array elements cannot be negative (i.e. < 0)                                  |
| ORA-00291    | numeric value required for PARALLEL option                                              |
| ORA-01426    | numeric overflow                                                                        |
| ORA-01727    | numeric precision specifier is out of range 1 to 38                                     |
| ORA-01728    | numeric scale specifier is out of range -84 to 127                                      |
| PLS-00491    | numeric literal required                                                                |
| DBA-00360    | object to be described does not exist                                                   |
| DBA-00362    | object name is a package; use DESCRIBE name.<procedure>                                 |
| DBA-00364    | object name is a remote object, cannot further describe                                 |
| DBA-00365    | object name is invalid, it may not be described                                         |
| ORA-00064    | object is too large to allocate on this O/S num, num                                    |
| ORA-00701    | object necessary for warm starting database cannot be altered                           |
| ORA-02087    | object locked by another process in same transaction                                    |
| ORA-04012    | object is not a sequence                                                                |
| ORA-04043    | object name does not exist                                                              |
| ORA-06564    | object name does not exist                                                              |
| ORA-08103    | object no longer exists                                                                 |
| ORA-12352    | object name is invalid                                                                  |
| ORA-23308    | object "name.name" does not exist or is invalid                                         |
| ORA-23309    | object "name.name" of type name exists                                                  |
| ORA-23310    | object group "name" is not quiesced                                                     |
| ORA-23311    | object group "name" is quiesced                                                         |
| ORA-23313    | object group "name" is not mastered at name                                             |
| ORA-23355    | object name.name does not exist or is invalid at master site.                           |
| ORA-23373    | object group name does not exist                                                        |
| ORA-23374    | object group name already exists                                                        |
| ORA-23407    | object name "name" must be shaped like "SCHEMA.OBJECT" or "OBJECT"                      |
| PLS-00224    | object name must be of type function or array to be used this way                       |
| PLS-00905    | object name is invalid                                                                  |
| ORA-03007    | obsolete feature                                                                        |
| ORA-06568    | obsolete ICD procedure called                                                           |
| SQL*Load-926 | OCI error while executing name for table name                                           |
| SQL*Load-931 | OCI error while binding variable for column name                                        |
| ORA-01145    | offline immediate disallowed unless media recovery enabled                              |
| ORA-01245    | offline file name will be lost if RESETLOGS is done                                     |
| ORA-04078    | OLD and NEW values cannot be identical                                                  |
| MOD-00074    | ONAME option is specified but not meaningful                                            |
| PLS-01407    | one of the identifiers CHAR, CHARACTER, or INTEGER has been redefined by the programmer |
| ORA-00312    | online log name thread num: str                                                         |
| ORA-00335    | online log name: No log with this number, log does not exist                            |
| ORA-00373    | online log version num incompatible with Oracle version num                             |
| ORA-01195    | online backup of file name needs more recovery to be consistent                         |
| ORA-01916    | ONLINE keyword or OFFLINE keyword expected                                              |
| ORA-02198    | ONLINE/OFFLINE option already specified                                                 |

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| EXP-00026    | only one parameter (TABLES, OWNER, or FULL) can be specified              |
| IMP-00013    | only a DBA can import a file exported by another DBA                      |
| ORA-00112    | only created up to num maximum specified dispatchers                      |
| ORA-00991    | only MAC privileges may be granted to procedures                          |
| ORA-01748    | only simple column names allowed here                                     |
| ORA-01783    | only one RECOVERABLE or UNRECOVERABLE clause may be specified             |
| ORA-01787    | only one clause allowed per query block                                   |
| ORA-01939    | only the ADMIN OPTION can be specified                                    |
| ORA-01968    | only specify RESETLOGS or NORESETLOGS once                                |
| ORA-02205    | only SELECT and ALTER privileges are valid for sequences                  |
| ORA-02225    | only EXECUTE privilege is valid for procedures                            |
| ORA-12812    | only one PARALLEL or NOPARALLEL clause may be specified                   |
| ORA-12814    | only one CACHE or NOCACHE clause may be specified                         |
| ORA-13197    | only MDSYS can execute name                                               |
| ORA-23360    | only one snapshot for master table name can be created                    |
| ORA-25106    | only one of PARALLEL or NOPARALLEL clause may be specified                |
| PCC-02321    | Only subtraction between two pointers is permitted                        |
| PLS-00121    | only the set function COUNT may take * as an argument                     |
| SQL*Load-411 | only a direct path load may be continued                                  |
| ORA-00313    | open failed for members of log group name of thread name                  |
| ORA-12342    | open mounts exceeds limit set on the OPEN_MOUNTS parameter                |
| IMP-00021    | operating system error - error code (dec num, hex 0xnum)                  |
| ORA-00290    | operating system archiving error occurred. See error below                |
| ORA-01649    | operation not allowed with a backup control file                          |
| ORA-03123    | operation would block                                                     |
| ORA-03002    | operator not implemented                                                  |
| PCC-00028    | Option optnam not legal as EXEC ORACLE OPTION                             |
| PCC-00129    | option optnam must be given                                               |
| SQL*Load-308 | optional SQL string of column name must be in double quotes               |
| PLS-01501    | options in CREATE TABLE statement is non-ANSI.                            |
| ORA-02059    | ORA-CRASH-TEST-n in commit comment                                        |
| ORA-02262    | ORA-num occurs while type-checking column default value expression        |
| EXP-00008    | Oracle error num encountered                                              |
| EXP-00016    | Oracle error encountered while reading default auditing options           |
| IMP-00003    | Oracle message code num encountered                                       |
| LCC-00161    | Oracle error (possible syntax error) parameter name                       |
| MOD-00015    | Oracle Error: ora-nnnnn                                                   |
| MOD-00069    | Oracle error N while attempting to store package                          |
| ORA-00436    | Oracle is not licensed. Contact Oracle Corporation for assistance         |
| ORA-00437    | Oracle feature is not licensed. Contact Oracle Corporation for assistance |
| ORA-00603    | Oracle Server session terminated by fatal error                           |
| ORA-01014    | Oracle shutdown in progress                                               |
| ORA-01033    | Oracle startup or shutdown in progress                                    |
| ORA-01034    | Oracle not available                                                      |
| ORA-01035    | Oracle only available to users with RESTRICTED SESSION privilege          |
| ORA-01079    | Oracle database was not properly created, operation aborted               |
| ORA-01092    | Oracle instance terminated. Disconnection forced                          |
| ORA-01578    | Oracle data block corrupted (file # num, block # num)                     |
| ORA-13113    | Oracle table name does not exists                                         |

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| ORA-13198    | Oracle error ORAname encountered                                             |
| ORA-23422    | Oracle Server could not generate an unused job number                        |
| PCC-00021    | Oracle Error: ORA-nnnnn                                                      |
| PCC-00110    | Oracle extension to the WHENEVER statement                                   |
| SQL*Load-967 | Oracle error: str                                                            |
| ORA-03107    | oranet buffer underflow                                                      |
| ORA-03108    | oranet: Oracle does not support this interface version                       |
| ORA-03109    | oranet buffer overflow                                                       |
| ORA-03110    | oranet: Oracle does not support this SQL version                             |
| ORA-01785    | ORDER BY item must be the number of a SELECT-list expression                 |
| PLS-00423    | ORDER BY item must be the number of a SELECT-list expression                 |
| ORA-01927    | original grantor must REVOKE privileges                                      |
| ORA-00050    | O/S error occurred while obtaining an enqueue. See O/S error                 |
| ORA-12455    | OS format not allowed in this context                                        |
| PLS-00370    | OTHERS handler must be last among the exception handlers of a block          |
| MOD-00016    | out of space - unable to allocate num bytes                                  |
| ORA-01554    | out of transaction slots in transaction tables                               |
| ORA-01558    | out of transaction ID's in rollback segment num                              |
| ORA-02092    | out of transaction table slots for distributed transaction                   |
| ORA-04030    | out of process memory when trying to allocate num bytes str,str              |
| PCC-00022    | Out of space - unable to allocate num bytes                                  |
| PCC-02352    | Out of bounds bind position from PL/SQL                                      |
| PLS-00230    | OUT and IN OUT formal parameters may not have default expressions            |
| PLS-00996    | out of memory                                                                |
| SQL*Load-700 | out of memory while performing essential allocations num                     |
| SQL*Load-701 | out of memory while allocating bind array                                    |
| SQL-02100    | Out of memory (i.e., could not allocate)                                     |
| ORA-01719    | outer join operator (+) not allowed in operand of OR or IN                   |
| ORA-08463    | overflow converting decimal number to Oracle number                          |
| MOD-00067    | package name is required but not specified                                   |
| ORA-04041    | package specification must be created first before creating package body     |
| ORA-04055    | package STANDARD@name is incompatible to local package STANDARD              |
| ORA-06554    | package DBMS_STANDARD must be created before using PL/SQL                    |
| ORA-12436    | package body must exist to grant MAC privileges                              |
| PLS-00213    | package STANDARD not accessible                                              |
| PLS-00226    | package name used as variable reference                                      |
| ORA-01487    | packed decimal number too large for supplied buffer                          |
| ORA-02357    | packed decimal conversion error                                              |
| ORA-00292    | parallel recovery feature not installed                                      |
| ORA-01633    | Parallel Server option needed for this operation                             |
| ORA-12802    | parallel query server lost contact with coordinator                          |
| ORA-12803    | parallel query server lost contact with another server                       |
| ORA-12804    | parallel query server appears to have died                                   |
| ORA-12805    | parallel query server died unexpectedly                                      |
| ORA-12817    | parallel query option must be enabled                                        |
| ORA-25102    | PARALLEL option can only be used with ALTER INDEX REBUILD                    |
| ORA-12810    | PARALLEL_MAX_SERVERS must be less than or equal to num                       |
| ORA-12811    | PARALLEL_MIN_SERVERS must be less than or equal to PARALLEL_MAX_SERVERS, num |
| LCC-00215    | parameter files nested too deep num                                          |

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| MOD-00044    | parameter param in procedure name is multiply declared                            |
| ORA-00374    | parameter DB_BLOCK_SIZE = num invalid, valid range num..num                       |
| ORA-01638    | parameter name does not allow Oracle Version num to mount parallel                |
| ORA-01678    | parameter name must be two strings, a pattern and a replacement                   |
| ORA-03008    | parameter COMPATIBLE >= val needed for feature_name                               |
| ORA-23319    | parameter value name is not appropriate                                           |
| ORA-23323    | parameter length exceeds deferred remote procedure call limits                    |
| ORA-23325    | parameter type is not type                                                        |
| ORA-23351    | parameter datatype name for procedure name not supported                          |
| PLS-00223    | parameterless procedure name used as function                                     |
| ORA-01059    | parse expected before a bind or execute                                           |
| PCC-02205    | Parser error at line num, column colnam, file name                                |
| PLS-00102    | parser stack overflow because nesting is too deep                                 |
| IMP-00018    | partial import of previous table complete: num rows imported                      |
| IMP-00028    | partial import of previous table rolled back: num rows rolled back                |
| ORA-13101    | partition name datatype should be varchar2                                        |
| ORA-13117    | partition name not found                                                          |
| ORA-13118    | partition name is offline                                                         |
| ORA-13125    | partition key is already set                                                      |
| ORA-01999    | password file mode has changed from mode to mode                                  |
| ORA-02192    | PCTINCREASE not allowed for rollback segment storage clauses                      |
| ORA-02196    | PERMANENT/TEMPORARY option already specified                                      |
| DBA-00325    | pfile too large                                                                   |
| ORA-01168    | physical block size num does not match size num of other members                  |
| SQL*Load-408 | physical record stack overflow                                                    |
| SQL*Load-510 | physical record in datafile name is longer than the maximum num                   |
| ORA-08435    | PICTURE MASK missing the leading sign when SIGN IS LEADING specified              |
| SQL*Load-262 | PIECED keyword (on column num) allowed only when path is direct                   |
| SQL*Load-263 | PIECED column num must be last specified column in table name                     |
| ORA-13132    | pipe read on name was interrupted                                                 |
| ORA-02403    | plan table does not have correct format                                           |
| ORA-02402    | PLAN_TABLE not found                                                              |
| PCC-02103    | Please enter your password:                                                       |
| MOD-00060    | PL/SQL error in compiling package specification                                   |
| MOD-00061    | PL/SQL error in compiling package body                                            |
| ORA-02472    | PL/SQL functions not allowed in hash expressions                                  |
| ORA-06500    | PL/SQL: storage error                                                             |
| ORA-06501    | PL/SQL: internal error num, arguments [num], [num], [num], [num], [num],<br>[num] |
| ORA-06502    | PL/SQL: numeric or value error                                                    |
| ORA-06503    | PL/SQL: Function returned without value                                           |
| ORA-06504    | PL/SQL: Return types of Result Set variables or query do not match                |
| ORA-06508    | PL/SQL: could not find program unit being called                                  |
| ORA-06509    | PL/SQL: ICD vector missing for this package                                       |
| ORA-06510    | PL/SQL: unhandled user-defined exception str                                      |
| ORA-06511    | PL/SQL: cursor already open                                                       |
| ORA-06513    | PL/SQL: index for PL/SQL table out of range for host language array               |
| ORA-06514    | PL/SQL: The remote call cannot be handled by the server                           |
| ORA-06540    | PL/SQL compilation error                                                          |

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| ORA-06541 | PL/SQL: compilation error - compilation aborted                                      |
| ORA-06544 | PL/SQL: internal error, arguments:arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8     |
| PCC-02346 | PL/SQL found semantic errors                                                         |
| PCC-02347 | PL/SQL found syntax errors                                                           |
| PLS-00315 | PL/SQL TABLE declarations must currently use BINARY_INTEGER indexes                  |
| PLS-00316 | PL/SQL tables must currently use a single BINARY_INTEGER index                       |
| PLS-00990 | PL/SQL tables of cursor variables are not allowed                                    |
| ORA-00472 | PMON process terminated with error                                                   |
| MOD-00072 | PNAME option is specified but not meaningful                                         |
| ORA-06560 | pos, num, is negative or larger than the buffer size, num                            |
| LCC-00206 | positional parameter entered after keyword name                                      |
| ORA-02424 | potential circular view references or unknown referenced tables                      |
| PLS-00127 | pragma name is not a supported pragma                                                |
| PLS-00129 | pragma INTERFACE only supports C as its first argument                               |
| PLS-00130 | pragma name expects 1st argument to be a procedure/function/package/ cursor          |
| PLS-00131 | pragma name expects 2nd argument to be a procedure                                   |
| PLS-00132 | pragma RESTRICT_REFERENCES does not support str                                      |
| PLS-00133 | pragma name expects 1st argument to be an identifier or string literal               |
| PLS-00134 | pragma name expects 2nd argument to be an identifier                                 |
| PLS-00135 | pragma name expects 3rd argument to be an identifier or string literal               |
| PLS-00136 | pragma name expects 3rd argument to be an empty string                               |
| PLS-00137 | pragma name expects 4th argument to be a numeric-literal                             |
| PLS-00700 | PRAGMA EXCEPTION_INIT of name must follow declaration of its exception in same block |
| PLS-00708 | pragma name must be declared in a package specification                              |
| ORA-01085 | preceding errors in deferred RPC to name.name.name                                   |
| ORA-02063 | preceding str from name                                                              |
| PCC-02349 | Precision must be specified for this type                                            |
| PCC-00090 | Precision/scale specification must be given for DECIMAL datatype                     |
| SQL-02127 | Precompiler/SQLLIB version mismatch                                                  |
| PCC-02019 | Preprocessor warning at line num, column colnam, file name                           |
| PCC-02020 | Preprocessor error at line num, column colnam, file name                             |
| ORA-01645 | previous attempt to make read-write is half complete                                 |
| PLS-00305 | previous use of name conflicts with this use                                         |
| ORA-01400 | primary key or mandatory (NOT NULL) column is missing or NULL during insert          |
| ORA-23346 | primary key is undefined for table name                                              |
| ORA-01469 | PRIOR can only be followed by a column name                                          |
| ORA-23335 | priority group name already exists                                                   |
| ORA-23336 | priority group name does not exist                                                   |
| ORA-23337 | priority or value not in priority group name                                         |
| ORA-23338 | priority or value already in priority group name                                     |
| ORA-01434 | private synonym to be dropped does not exist                                         |
| ORA-02426 | privilege grant failed                                                               |
| DBA-00380 | procedural option required for this statement                                        |
| DBA-00363 | procedure or function name not found in the package                                  |
| MOD-00043 | procedure name is multiply declared                                                  |
| MOD-00063 | procedure name, parameter param: illegal interface type type                         |
| MOD-00064 | procedure name: extra parameter param in interface                                   |

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| MOD-00070 | procedure name interface is missing declaration for indvar            |
| ORA-04042 | procedure, function, package, or package body does not exist          |
| ORA-04044 | procedure, function, or package is not allowed here                   |
| PCC-01005 | PROCEDURE DIVISION not found                                          |
| ORA-00071 | process number must be between 1 and num                              |
| ORA-00072 | process \                                                             |
| ORA-00075 | process \                                                             |
| ORA-12470 | process label could not be found                                      |
| ORA-12807 | process queue could not receive parallel query message                |
| ORA-02379 | profile name already exists                                           |
| ORA-02380 | profile name does not exist                                           |
| ORA-02382 | profile name has users assigned, cannot drop without CASCADE          |
| ORA-01096 | program version num incompatible with instance num                    |
| ORA-01098 | program interface error during LONG insert                            |
| ORA-01709 | program does not exist                                                |
| PLS-00123 | program too large                                                     |
| SQL-02107 | Program too old for runtime library; please re-compile it             |
| ORA-23380 | propagation mode name is not valid                                    |
| ORA-00113 | protocol name string is too long                                      |
| ORA-01432 | public synonym to be dropped does not exist                           |
| ORA-12454 | punctuation supplied does not match specified input format            |
| PLS-00303 | qualifier name must be declared                                       |
| ORA-01842 | quarter must be between 1 and 4                                       |
| ORA-01789 | query block has incorrect number of result columns                    |
| ORA-01756 | quoted string not properly terminated                                 |
| ORA-08429 | raw data has invalid digit in display type data                       |
| ORA-08430 | raw data missing leading sign                                         |
| ORA-08431 | raw data missing zero as defined in picture                           |
| ORA-08432 | raw data has invalid floating point data                              |
| ORA-08434 | raw data has invalid trailing sign                                    |
| ORA-08436 | raw data has invalid sign digit                                       |
| ORA-08440 | raw buffer is too short to hold converted data                        |
| ORA-08462 | raw buffer contains invalid decimal data                              |
| ORA-08466 | raw buffer length num is too short for name                           |
| PCC-00063 | Reached end of file name before end-of-statement at line num          |
| ORA-00476 | RECO process terminated with error                                    |
| ORA-02351 | record num: Rejected - Error on table name, column name               |
| ORA-02364 | record num: Discarded - failed all WHEN clauses                       |
| ORA-02368 | record num: Discarded - all columns null.                             |
| ORA-02370 | record num - Warning on table name, column num                        |
| ORA-13131 | record in pipe name is too big                                        |
| ORA-01784 | RECOVERABLE cannot be specified with database media recovery disabled |
| ORA-25105 | RECOVERABLE option can only be used with ALTER INDEX REBUILD          |
| ORA-00351 | recover-to time invalid                                               |
| ORA-00283 | recovery session canceled due to errors                               |
| ORA-00284 | recovery session still in progress                                    |
| ORA-01156 | recovery in progress may need access to files                         |
| ORA-01172 | recovery of thread num stuck at block num of file name                |
| ORA-01610 | recovery using the BACKUP CONTROLFILE option must be done             |

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| ORA-13005    | recursive HHCODE function error                                              |
| PCC-00027    | Redeclared SQL identifier ident at line num in file name                     |
| ORA-00333    | redo log read error block num count num                                      |
| ORA-00345    | redo log write error block num count num                                     |
| ORA-01571    | redo version num incompatible with Oracle Version num                        |
| ORA-01667    | redo log is incompatible with standby database                               |
| PLS-00484    | redundant exceptions name and name must appear in same exception handler     |
| PLS-00419    | reference to remote attribute not permitted                                  |
| ORA-02268    | referenced table does not have a primary key                                 |
| SQL*Load-403 | referenced column name not present in table name                             |
| ORA-04093    | references to columns of type LONG are not allowed in triggers               |
| ORA-12004    | REFRESH FAST cannot be used                                                  |
| ORA-23402    | refresh was aborted because of conflicts caused by deferred transactions     |
| ORA-23403    | refresh group "name.name" already exists. Refresh group not a stored object? |
| ORA-23404    | refresh group "name.name" does not exist                                     |
| ORA-23405    | refresh group number "name" does not exist                                   |
| ORA-02372    | relative start position > absolute field end position                        |
| SQL*Load-642 | relative start position > absolute field end position                        |
| PCC-00106    | RELEASE is an Oracle extension to the COMMIT and ROLLBACK statements         |
| ORA-01988    | remote O/S logon is not allowed                                              |
| ORA-02022    | remote statement has unoptimized view with remote object                     |
| ORA-02040    | remote database name does not support two-phase commit                       |
| ORA-02052    | remote transaction failure at name                                           |
| PLS-00451    | remote types not allowed                                                     |
| ORA-23315    | repcatlog version or request name is not supported by version name           |
| ORA-23307    | replicated schema "name" already exists                                      |
| ORA-02094    | replication option not installed                                             |
| ORA-23364    | replication option not installed                                             |
| ORA-13102    | reply pipe name datatype should be varchar2                                  |
| ORA-13107    | reply on pipe name interrupted                                               |
| ORA-00304    | requested INSTANCE_NUMBER is busy                                            |
| ORA-00307    | requested INSTANCE_NUMBER out of range, maximum is num                       |
| IMP-00016    | required character set conversion (type num to num) not supported            |
| ORA-00219    | required control file size num larger than maximum num                       |
| ORA-02189    | required clause: ON <tablespace>                                             |
| PLS-00101    | reserved for future use                                                      |
| ORA-01139    | RESET LOGS option only valid after an incomplete database recovery           |
| ORA-01223    | RESETLOGS must be specified to set a new database name                       |
| ORA-00054    | resource busy and acquire with NOWAIT specified                              |
| ORA-02184    | resource quotas are not allowed in REVOKE                                    |
| EXP-00013    | respond with either "Y", "N", RETURN or "." to quit                          |
| IMP-00001    | respond with either "Y", "N", "RETURN" or "." to quit                        |
| ORA-13134    | restore request failed                                                       |
| ORA-01489    | result of string concatenation is too long                                   |
| PCC-00135    | Result Set Cursor usage is not standard SQL                                  |
| PCC-00138    | Result Set Cursors are not implemented in this precompiler                   |
| ORA-04046    | results of compilation are too large to support                              |
| PLS-00503    | RETURN <value> statement required for this return from function              |
| ORA-01909    | REUSE keyword expected                                                       |

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| ORA-01998 | REVOKE failed: user SYS always SYSOPER and SYSDBA                                             |
| ORA-01919 | role name does not exist                                                                      |
| ORA-01921 | role name name conflicts with another user or role name                                       |
| ORA-01924 | role name not granted or does not exist                                                       |
| ORA-01949 | ROLE keyword expected                                                                         |
| ORA-01951 | role not granted for ROLE: name, user: name                                                   |
| ORA-01989 | role name not authorized by operating system                                                  |
| ORA-01534 | rollback segment name doesn't exist                                                           |
| ORA-01535 | rollback segment name already exists                                                          |
| ORA-01545 | rollback segment "name" specified not available                                               |
| ORA-01557 | rollback segment extents must be at least num blocks                                          |
| ORA-01563 | rollback segment is PUBLIC, need to use the keyword PUBLIC                                    |
| ORA-01564 | rollback segment is not PUBLIC                                                                |
| ORA-01593 | rollback segment optimal size num blocks is smaller than the computed initial size num blocks |
| ORA-01598 | rollback segment "name" is not online                                                         |
| ORA-01625 | rollback segment name does not belong to this instance                                        |
| ORA-01626 | rollback segment number num cannot handle more transactions                                   |
| ORA-01627 | rollback segment number num is not online                                                     |
| ORA-01634 | rollback segment number str is about to go offline                                            |
| ORA-01635 | rollback segment #num specified not available                                                 |
| ORA-01636 | rollback segment "name" is already online                                                     |
| ORA-01637 | rollback segment "name" is being used by another instance #name                               |
| ORA-01901 | ROLLBACK keyword expected                                                                     |
| ORA-00407 | rolling upgrade from release num.num to num.num is not allowed                                |
| IMP-00019 | row rejected due to Oracle message code num                                                   |
| ORA-01912 | ROW keyword expected                                                                          |
| ORA-09123 | ROWID not found in gateway rowid cache                                                        |
| PLS-00424 | RPC defaults cannot include package state                                                     |
| LCC-00212 | runaway quoted string str                                                                     |
| ORA-02131 | Runtime context in use                                                                        |
| PCC-00143 | Runtime context variable not of correct type                                                  |
| PCC-02391 | Runtime context variable not of correct type                                                  |
| ORA-01086 | savepoint name never established                                                              |
| ORA-02182 | savepoint name expected                                                                       |
| PCC-00081 | Scale specification not allowed for given datatype                                            |
| PCC-00098 | Scale specification cannot be used in this context                                            |
| ORA-02423 | schema name does not match schema authorization identifier                                    |
| ORA-23306 | schema "name" does not exist                                                                  |
| ORA-13120 | SD*POD is not listening on pipe name                                                          |
| ORA-01717 | seccta invalid access mode token passed                                                       |
| PLS-00702 | second argument to PRAGMA EXCEPTION_INIT must be a numeric literal                            |
| ORA-12353 | secondary stored object cannot reference remote object                                        |
| ORA-12354 | secondary object being dropped                                                                |
| ORA-12480 | secondary database changing between OS MAC and DBMS MAC modes                                 |
| ORA-01838 | seconds of minute conflicts with seconds in day                                               |
| ORA-01852 | seconds must be between 0 and 59                                                              |
| ORA-01853 | seconds in day must be between 0 and 86399                                                    |
| ORA-02004 | security violation                                                                            |



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| ORA-01902 | SEGMENT keyword expected                                                     |
| ORA-03230 | segment only contains num blocks of unused space above high water mark       |
| ORA-01030 | SELECT ... INTO variable does not exist                                      |
| ORA-02060 | SELECT FOR UPDATE specified a join of non-collocated tables                  |
| PLS-00486 | SELECT list cannot be enclosed in parentheses                                |
| SQL-02112 | SELECT ... INTO returns too many rows                                        |
| PLS-00126 | selector ALL is not allowed                                                  |
| ORA-02077 | selects of long columns must be from co-located tables                       |
| PCC-02353 | Semantic error at line num, column colnam, file name                         |
| ORA-01941 | SEQUENCE keyword expected                                                    |
| ORA-02073 | sequence numbers not supported in remote updates                             |
| ORA-02076 | sequence not co-located with updated or long column                          |
| ORA-02201 | sequence not allowed here                                                    |
| ORA-02287 | sequence number not allowed here                                             |
| ORA-02289 | sequence does not exist                                                      |
| ORA-04001 | sequence parameter str must be an integer                                    |
| ORA-04003 | sequence parameter num exceeds the maximum size allowed num digits           |
| ORA-04011 | sequence name must range between num and num                                 |
| ORA-04016 | sequence name no longer exists                                               |
| ORA-08003 | sequence name.NEXTVAL exceeds internal limits                                |
| ORA-00017 | session requested to set trace event                                         |
| ORA-00021 | session attached to some other process; cannot switch session                |
| ORA-00023 | session references process' private memory; cannot detach session            |
| ORA-00029 | session is not a user session                                                |
| ORA-00031 | session marked for kill                                                      |
| ORA-12415 | session label must dominate the creation label of role name                  |
| ORA-12488 | session label must be equal to name                                          |
| SQL-02128 | Sessions still exist, not logged off                                         |
| ORA-01228 | SET DATABASE option required to install seed database                        |
| ORA-01453 | SET TRANSACTION must be first statement of transaction                       |
| ORA-02146 | SHARED specified multiple times                                              |
| ORA-06570 | shared pool object does not exist, cannot be pinned                          |
| ORA-01090 | shutdown in progress - connection is not permitted                           |
| ORA-01573 | shutting down instance, no further change allowed                            |
| ORA-01819 | signed year precludes use of BC/AD                                           |
| PLS-00220 | simple name required in this context                                         |
| ORA-00348 | single-process redo failure. Must abort instance                             |
| ORA-01427 | single-row subquery returns more than one row                                |
| ORA-23365 | site name does not exist                                                     |
| ORA-01044 | size num of buffer bound to variable name exceeds maximum num                |
| ORA-01163 | SIZE clause indicates num blocks, but should match header num                |
| ORA-01486 | size of array element is too large                                           |
| PCC-00051 | Size of VARCHAR hostvar at num is larger than 65533 at line num in file name |
| ORA-19999 | SKIP_ROW procedure was called                                                |
| ORA-00474 | SMON process terminated with error                                           |
| MOD-00093 | SNAME option is specified but not meaningful                                 |
| ORA-01555 | snapshot too old (rollback segment too small)                                |
| ORA-12003 | snapshot name does not exist                                                 |
| ORA-12007 | snapshot reuse parameters are inconsistent                                   |

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| ORA-23328    | snapshot base table name.name must be same as replicated master table          |
| ORA-23361    | snapshot name does not exist at master site                                    |
| ORA-23401    | snapshot "name.name" does not exist                                            |
| ORA-23410    | snapshot "name.name" is already in a refresh group                             |
| ORA-23411    | snapshot "name.name" is not in refresh group "name.name"                       |
| ORA-12009    | snapshots may not contain long columns                                         |
| ORA-00477    | SNP* process terminated with an error                                          |
| ORA-01467    | sort key too long                                                              |
| SQL*Load-251 | sort devices are not used by SQL*Loader                                        |
| SQL*Load-252 | sort data sets are not used by SQL*Loader                                      |
| SQL*Load-256 | SORTED INDEXES option allowed only for direct path                             |
| ORA-13119    | source and target tablespaces are identical                                    |
| PCC-00086    | Source file name has zero length                                               |
| ORA-01536    | space quota exceeded for tablespace "name"                                     |
| ORA-13108    | spatial table name not found                                                   |
| ORA-13109    | spatial table name exists                                                      |
| ORA-13110    | spatial table name is not partitioned                                          |
| ORA-13111    | spatial table name has no partition key defined                                |
| ORA-08452    | specification of E in picture mask is unsupported                              |
| ORA-00268    | specified log file does not exist name                                         |
| ORA-00269    | specified log file is part of thread num not num                               |
| ORA-00287    | specified change number num not found in thread num                            |
| ORA-00910    | specified length too long for its datatype                                     |
| ORA-00945    | specified clustered column does not exist                                      |
| ORA-01136    | specified size of file num num blocks is less than original size of num blocks |
| ORA-01418    | specified index does not exist                                                 |
| ORA-01495    | specified chain row table not found                                            |
| ORA-01496    | specified chain row table form incorrect                                       |
| ORA-01509    | specified name name does not match actual name                                 |
| ORA-02095    | specified initialization parameter cannot be modified                          |
| ORA-02096    | specified initialization parameter is not modifiable with this option          |
| ORA-02404    | specified plan table not found                                                 |
| ORA-02482    | specified an event class but gave no events                                    |
| ORA-03283    | specified datafile name does not exist                                         |
| ORA-03284    | specified datafile name is not a member of tablespace name                     |
| ORA-08005    | specified row does not exist                                                   |
| ORA-08006    | specified row no longer exists                                                 |
| ORA-13002    | specified level is out of range                                                |
| SQL*Load-600 | specified max. bind size num bytes must be num bytes to hold 1 row             |
| SQL*Load-933 | specified file name not part of database                                       |
| ORA-01765    | specifying table's owner name is not allowed                                   |
| ORA-02034    | speed bind not permitted                                                       |
| IMP-00032    | SQL statement exceeded buffer length                                           |
| ORA-00933    | SQL command not properly ended                                                 |
| PCC-02333    | SQL identifier was not declared as a statement                                 |
| PCC-02334    | SQL identifier was not declared as a cursor                                    |
| PCC-02375    | SQL statement found outside the body of a function                             |
| PCC-02393    | SQL statement found inside an EXEC SQL DECLARE SECTION                         |

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| SQL*Load-417 | SQL string (on column name) not allowed in direct path                                         |
| MOD-00079    | SQLCHECK must be SEMANTICS when RPC_GENERATE=yes                                               |
| PCC-00111    | SQLCHECK value in EXEC ORACLE statement exceeds command line value                             |
| PCC-02374    | SQLCHECK value exceeds command line value                                                      |
| PCC-02109    | SQLCHECK=NONE is not yet supported, using SYNTAX                                               |
| PCC-02345    | SQLCHECK=SEMANTICS must be given when embedded PL/SQL blocks are used                          |
| PCF-00251    | SQLCODE is a deprecated feature                                                                |
| PCF-00256    | SQLCODE returns non-standard values                                                            |
| DBA-00318    | SQL*DBA command line error num                                                                 |
| ORA-01668    | standby database requires DROP option for offline of datafile                                  |
| ORA-01669    | standby database control file not consistent                                                   |
| ORA-01676    | standby file name convert of num exceeds maximum length of num                                 |
| ORA-01677    | standby file name convert parameters differ from other instance                                |
| ORA-25108    | standby lock name space exceeds size limit of num characters                                   |
| ORA-25109    | standby lock name space has illegal character char                                             |
| ORA-02023    | START WITH or CONNECT BY predicate cannot be evaluated by remote database                      |
| ORA-04006    | START WITH cannot be less than MINVALUE                                                        |
| ORA-04008    | START WITH cannot be more than MAXVALUE                                                        |
| PCC-00010    | Statement out of place at line num in file name                                                |
| PLS-01463    | STDDEV is not a standard set function                                                          |
| ORA-01905    | STORAGE keyword expected                                                                       |
| ORA-00403    | str str is not the same as other instances str                                                 |
| ORA-01704    | string literal too long                                                                        |
| ORA-01780    | string literal required                                                                        |
| PLS-00215    | string length constraints must be in range (1 .. 32767)                                        |
| PCC-02327    | Struct or struct pointer required                                                              |
| PCC-02338    | Structure contains a nested struct or union                                                    |
| PCC-02340    | Structure contains a bit field                                                                 |
| PLS-00225    | subprogram or cursor name reference is out of scope                                            |
| PLS-00227    | subprogram IN formal name is not yet denotable                                                 |
| PLS-00323    | subprogram name is declared in a package specification and must be defined in the package body |
| PLS-00452    | subprogram name violates its associated pragma                                                 |
| ORA-02251    | subquery not allowed here                                                                      |
| PLS-00319    | subquery in an IN or NOT IN clause must contain exactly one column                             |
| PLS-00405    | subquery not allowed in this context                                                           |
| PLS-01418    | subquery cannot include set operators in ANSI's grammar                                        |
| PLS-01419    | subquery must have either '*' or exactly one column in its select list                         |
| PLS-01423    | subquery on right-hand-side in set clause                                                      |
| PLS-00366    | subtype of a NOT NULL type must also be NOT NULL                                               |
| ORA-23329    | successful user-provided ddl but no snapshot name.name.                                        |
| ORA-01408    | such column list already indexed                                                               |
| ORA-02261    | such unique or primary key already exists in the table                                         |
| ORA-02275    | such a referential constraint already exists in the table                                      |
| ORA-00289    | suggestion: filename                                                                           |
| ORA-00980    | synonym translation is no longer valid                                                         |
| ORA-01433    | synonym to be created is already defined                                                       |
| PLS-00421    | synonym definitions nested too deeply; possible loop in synonyms                               |
| SQL*Load-606 | synonym name refers to an object on a remote database                                          |

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| DBA-00137    | syntax error in PL/SQL Block                                                              |
| ORA-08443    | syntax error in BLANK WHEN ZERO clause in mask options                                    |
| ORA-08444    | syntax error in JUSTIFIED clause in mask options                                          |
| ORA-08445    | syntax error in SIGN clause in mask options                                               |
| ORA-08446    | syntax error in SYNCHRONIZED clause in mask options                                       |
| ORA-08447    | syntax error in USAGE clause in mask options                                              |
| ORA-08448    | syntax error in DECIMAL-POINT environment clause                                          |
| ORA-08455    | syntax error in CURRENCY SIGN environment clause                                          |
| ORA-08457    | syntax error in SEPARATE CHARACTER option of SIGN clause                                  |
| ORA-12316    | syntax error in database link's connect string                                            |
| PCC-02014    | Syntax error at line num, column colnam, file name                                        |
| SQL*Load-100 | syntax error on command line                                                              |
| SQL*Load-350 | syntax error at line num                                                                  |
| ORA-02471    | SYSDATE, UID, USER, ROWNUM, OR LEVEL incorrectly used in hash expression                  |
| ORA-01147    | SYSTEM tablespace file name is offline                                                    |
| ORA-01243    | system tablespace file suffered media failure                                             |
| ORA-01541    | system tablespace cannot be brought offline; shut down if necessary                       |
| ORA-01643    | system tablespace cannot be made read-only                                                |
| ORA-01952    | system privileges not granted to name                                                     |
| ORA-12800    | system appears too busy for parallel query execution                                      |
| ORA-00942    | table or view does not exist                                                              |
| ORA-00964    | table name not in FROM list                                                               |
| ORA-01758    | table must be empty to add mandatory NOT NULL column                                      |
| ORA-02260    | table can have only one primary key                                                       |
| ORA-02271    | table does not have such a constraint                                                     |
| ORA-03292    | table to be truncated is a member of a cluster                                            |
| ORA-04091    | table name is mutating, trigger/function may not see it                                   |
| ORA-04094    | table name is constraining, trigger may not modify it                                     |
| ORA-23345    | table name.name not registered to collect statistics                                      |
| ORA-23367    | table name is missing the primary key                                                     |
| ORA-23370    | table name and table name are not shape equivalent name                                   |
| PLS-00209    | table name is not in FROM clause                                                          |
| PLS-00314    | TABLE declarations are not allowed as PL/SQL local variables                              |
| PLS-00357    | table, view or sequence reference name not allowed in this context                        |
| PLS-00417    | table or view or column does not exist                                                    |
| PLS-01705    | table specified by a cursor not updatable if cursor specification has a UNION or ORDER_BY |
| SQL*Load-270 | table name has index defined upon it                                                      |
| SQL*Load-272 | table level OPTIONS statement ignored                                                     |
| SQL*Load-927 | table name does not exist                                                                 |
| ORA-01499    | table/Index Cross Reference Failure - see trace file                                      |
| ORA-01910    | TABLES keyword expected                                                                   |
| SQL*Load-912 | tables loaded through the direct path may not be clustered                                |
| ORA-00959    | tablespace "name" does not exist                                                          |
| ORA-01539    | tablespace "name" is not online                                                           |
| ORA-01540    | tablespace "name" is not offline                                                          |
| ORA-01542    | tablespace "name" is offline, cannot allocate space in it                                 |
| ORA-01543    | tablespace "name" already exists                                                          |
| ORA-01546    | tablespace contains active rollback segment "name"                                        |

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| ORA-01549 | tablespace not empty, use INCLUDING CONTENTS option                   |
| ORA-01641 | tablespace name is not online - cannot add datafile                   |
| ORA-01644 | tablespace name is already read-only                                  |
| ORA-01646 | tablespace name is not read-only - cannot make read-write             |
| ORA-01647 | tablespace "name" is read-only, cannot allocate space in it           |
| ORA-01660 | tablespace name is already permanent                                  |
| ORA-01661 | tablespace name is already temporary                                  |
| ORA-01662 | tablespace name is non-empty and cannot be made temporary             |
| ORA-01907 | TABLESPACE keyword expected                                           |
| ORA-02186 | tablespace resource privilege may not appear with other privileges    |
| ORA-02216 | tablespace name expected                                              |
| ORA-12408 | tablespace previously existed at another label name                   |
| ORA-13114 | tablespace name not found                                             |
| ORA-13115 | tablespace name is already allocated                                  |
| ORA-13116 | tablespace name is not allocated to table name                        |
| ORA-25100 | TABLESPACE option can only be used with ALTER INDEX REBUILD           |
| ORA-09100 | target system returned following message:                             |
| ORA-09101 | target system communication error                                     |
| ORA-09106 | target system could not obtain IO resource                            |
| ORA-09112 | target system check constraint violated                               |
| ORA-09113 | target system integrity constraint violated                           |
| ORA-09114 | target system is out of memory                                        |
| ORA-09115 | target system has timed out                                           |
| ORA-13144 | target table name not found                                           |
| ORA-01947 | TEMPORARY TABLESPACE already specified                                |
| DBA-00390 | terminal type name is defined by name                                 |
| PCC-00127 | text                                                                  |
| IMP-00048 | the MLS_LISTLABELS option cannot be used with this export file        |
| ORA-00224 | the specified file is not a control file                              |
| ORA-00365 | the specified log is not the correct next log                         |
| ORA-00401 | the value for parameter name is not supported by this release         |
| ORA-00996 | the concatenate operator is   , not                                   |
| ORA-01047 | the above error occurred in schema=name, package=name, procedure=name |
| ORA-01155 | the database is being opened, closed, mounted, or dismounted          |
| ORA-01663 | the contents of tablespace name is constantly changing                |
| ORA-02009 | the file size specified for a file must not be zero                   |
| ORA-02172 | the PUBLIC keyword is not appropriate for a disable thread            |
| ORA-02356 | the database is out of space. The load cannot continue                |
| ORA-02366 | the following index or indexes on table name were processed           |
| ORA-02455 | the number of cluster key column must be 1                            |
| ORA-02456 | the HASH IS column specification must be NUMBER(*,0)                  |
| ORA-02457 | the HASH IS option must specify a valid column                        |
| ORA-02466 | the SIZE option is not allowed to be altered for HASH CLUSTERS        |
| ORA-03129 | the next piece to be inserted is required                             |
| ORA-03130 | the buffer for the next piece to be fetched is required               |
| ORA-03200 | the segment type specification is invalid                             |
| ORA-03201 | the group number specification is invalid                             |
| ORA-03202 | the scan limit specification is invalid                               |
| ORA-03231 | the INITIAL extent may not be deallocated                             |

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|--------------|-------------------------------------------------------------------------------------------------------|
| ORA-04000    | the sum of PCTUSED and PCTFREE cannot exceed 100                                                      |
| ORA-04010    | the number of values to CACHE must be greater than 1                                                  |
| ORA-06556    | the pipe is empty, cannot fulfill the UNPACK_MESSAGE request                                          |
| ORA-12458    | the input string could not be translated into a binary label                                          |
| ORA-12460    | the value str for the MLS_LABEL_FORMAT parameter is not valid                                         |
| ORA-13003    | the specified range for a dimension is invalid                                                        |
| ORA-13004    | the specified buffer size is invalid                                                                  |
| ORA-13006    | the specified cell number is invalid                                                                  |
| ORA-13008    | the specified date format has an invalid component                                                    |
| ORA-13009    | the specified date string is invalid                                                                  |
| ORA-13013    | the specified topology was not INTERIOR or BOUNDARY                                                   |
| ORA-13015    | the window definition is not valid                                                                    |
| ORA-23316    | the masterdef is name                                                                                 |
| ORA-23320    | the request failed because of values name and name                                                    |
| ORA-23326    | the system is being quiesced                                                                          |
| PCC-00107    | The CONNECT statement is Oracle implementation dependent                                              |
| PLS-00311    | the declaration of the type of name is incomplete or malformed                                        |
| PLS-00320    | the declaration of the type of this expression is incomplete or malformed                             |
| PLS-00508    | the expression in a RETURN statement cannot be a type                                                 |
| PLS-00901    | the datatype of column name of table name is not supported                                            |
| PLS-01451    | the datatypes of these <value expressions> must be comparable                                         |
| PLS-01455    | the predicates IS NULL and IS NOT NULL are defined only for column specifications                     |
| PLS-01458    | the set clause in an UPDATE statement requires a column name of length 1                              |
| PLS-01467    | the value list of the IN predicate, if not a subquery, must contain only value_specifications         |
| PLS-01468    | the first argument of the like-predicate must be a column of type character string                    |
| PLS-01470    | the escape character in the like-predicate must be a literal or a variable of type CHAR               |
| PLS-01471    | the keyword DISTINCT must be present in a COUNT(DISTINCT sim_expr)                                    |
| PLS-01503    | the expression in a SET clause must not include a set function                                        |
| PLS-01704    | the expressions in a sort clause must be column specs or unsigned integers, with optional ASC or DESC |
| PLS-01713    | the constraints on these types do not match                                                           |
| SQL*Load-918 | the catalog must be loaded (as SYS) for SQL*Loader to be used                                         |
| ORA-00263    | there are no logs that need archiving for thread num                                                  |
| ORA-00271    | there are no logs that need archiving                                                                 |
| ORA-02239    | there are objects that reference this sequence                                                        |
| ORA-12002    | there is no snapshot log on table name                                                                |
| DBA-00392    | this field requires a numeric value                                                                   |
| ORA-01016    | this function can be called only after a fetch                                                        |
| ORA-01796    | this operator cannot be used with lists                                                               |
| ORA-01797    | this operator must be followed by ANY or ALL                                                          |
| ORA-02273    | this unique/primary key is referenced by some foreign keys                                            |
| ORA-06555    | this name is currently reserved for use by user SYS                                                   |
| ORA-12703    | this character set conversion is not supported                                                        |
| ORA-12706    | this CREATE DATABASE character set is not allowed                                                     |
| PCC-00108    | This statement is not supported by ANSI                                                               |

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|--------------|-------------------------------------------------------------------|
| PCC-00116    | This array already given in an ARRAYLEN statement                 |
| PCC-00145    | This statement can only be used with THREADS=YES                  |
| PCC-02360    | This array type is invalid for use with ARRAYLEN statement        |
| PLS-00115    | this PRAGMA must follow the declaration of name                   |
| PLS-00308    | this construct is not allowed as the origin of an assignment      |
| PLS-01450    | this <value expression> contains a nonconforming datatype         |
| PLS-01452    | this function is not part of the ANSI standard                    |
| PLS-01453    | this procedure is not part of the ANSI standard                   |
| ORA-01197    | thread num only contains one log                                  |
| ORA-01216    | thread num is expected to be disabled after CREATE CONTROLFILE    |
| ORA-01225    | thread number num is greater than MAXINSTANCES num                |
| ORA-01611    | thread number num is invalid - must be between 1 and num          |
| ORA-01612    | thread num is already enabled                                     |
| ORA-01613    | thread num only has num logs - at least 2 logs required to enable |
| ORA-01614    | thread num is busy - cannot enable                                |
| ORA-01615    | thread num is mounted - cannot disable                            |
| ORA-01616    | thread num is open - cannot disable                               |
| ORA-01618    | thread num is not enabled - cannot mount                          |
| ORA-01619    | thread num is mounted by another instance                         |
| ORA-01622    | thread number must be specified - default not specific            |
| PCC-00141    | Thread Safety is not implemented in this precompiler              |
| ORA-00285    | TIME not given as a string constant                               |
| ORA-13130    | timed out waiting for reply on name                               |
| ORA-00051    | time-out occurred while waiting for resource                      |
| ORA-01575    | time-out waiting for space management resource                    |
| ORA-02049    | time-out: distributed transaction waiting for lock                |
| ORA-04021    | time-out occurred while waiting to lock object name               |
| ORA-00288    | to continue recovery type ALTER DATABASE RECOVER CONTINUE         |
| ORA-02470    | TO_DATE, USERENV, or SYSDATE incorrectly used in hash expression  |
| SQL*Load-306 | token longer than max allowable length of num characters          |
| ORA-00343    | too many errors, log member closed                                |
| ORA-00357    | too many members specified for log file, the maximum is num       |
| ORA-00358    | too many file members specified, the maximum is num               |
| ORA-00913    | too many values                                                   |
| ORA-00939    | too many arguments for function                                   |
| ORA-00962    | too many group-by or order-by expressions                         |
| ORA-00989    | too many passwords for usernames given                            |
| ORA-01240    | too many datafiles to add in one command                          |
| ORA-01898    | too many precision specifiers                                     |
| ORA-02020    | too many database links in use                                    |
| ORA-02036    | too many variables to describe with automatic cursor open         |
| ORA-02042    | too many distributed transactions                                 |
| ORA-02045    | too many local sessions participating in global transactions      |
| ORA-02480    | too many event classes specified for events                       |
| ORA-02481    | too many id ranges specified for events                           |
| PLS-00307    | too many declarations of name match this call                     |
| DBA-00389    | toolkit resource file name is defined to name                     |
| ORA-06563    | top level procedure or function specified, cannot have subparts   |
| DBA-00322    | total size of command line parameters exceeds buffer size         |

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| ORA-02489 | trace_block_size (num) must be divisible by num                                            |
| ORA-01480 | trailing null missing from STR bind value                                                  |
| ORA-01664 | transaction which has expanded the Sort Segment has aborted                                |
| ORA-02044 | transaction manager login denied: transaction in progress                                  |
| ORA-02050 | transaction num rolled back, some remote DBs may be in-doubt                               |
| ORA-02053 | transaction num committed, some remote DBs may be in-doubt                                 |
| ORA-02054 | transaction num in-doubt                                                                   |
| ORA-02067 | transaction or savepoint rollback required                                                 |
| ORA-02091 | transaction rolled back                                                                    |
| ORA-02093 | TRANSACTIONS_PER_ROLLBACK_SEGMENT name more than maximum possible.                         |
| ORA-04080 | trigger name does not exist                                                                |
| ORA-04081 | trigger name already exists                                                                |
| ORA-04086 | trigger description too long, move comments into triggering code                           |
| ORA-04095 | trigger name already exists on another table, cannot replace                               |
| ORA-04096 | trigger name has a WHEN clause that is larger than 2K                                      |
| ORA-04098 | trigger name is invalid and failed re-validation                                           |
| ORA-04099 | trigger name is valid but not stored in compiled form                                      |
| ORA-00475 | TRWR process terminated with error.                                                        |
| ORA-01167 | two files are the same file/group number or the same file                                  |
| ORA-01416 | two tables cannot be outer-joined to each other                                            |
| ORA-03117 | two-task save area overflow                                                                |
| ORA-03118 | two-task coroutine has invalid state                                                       |
| ORA-03120 | two-task conversion routine: integer overflow                                              |
| ORA-03124 | two-task internal error                                                                    |
| MOD-00099 | type name is invalid when storing a module (store=yes)                                     |
| ORA-06562 | type of OUT argument must match type of column or bind variable                            |
| ORA-23372 | type name in table name is unsupported                                                     |
| PCC-00080 | TYPE identifier already TYPed                                                              |
| PCC-00091 | TYPE statement requires format specification for this Oracle datatype                      |
| PLS-00125 | type name expected                                                                         |
| PLS-00202 | type name must be declared                                                                 |
| PLS-00206 | %TYPE must be applied to a variable or column, not name                                    |
| PLS-00381 | type mismatch found at name between column and variable in subquery or INSERT              |
| PLS-00383 | type mismatch found at name inside an IN or NOT IN clause                                  |
| PLS-00384 | type mismatch found at name in UPDATE's SET clause                                         |
| PLS-00385 | type mismatch found at name in SELECT...INTO statement                                     |
| PLS-00386 | type mismatch found at name between FETCH cursor and INTO variables                        |
| PLS-00392 | type mismatch in arguments to BETWEEN                                                      |
| PLS-00397 | type mismatch in arguments to IN                                                           |
| PLS-00504 | type name_BASE may not be used outside of package STANDARD                                 |
| DBA-00314 | unable to attach to default host                                                           |
| DBA-00342 | unable to complete internal login                                                          |
| IMP-00044 | unable to allocate enough memory for statement                                             |
| MOD-00009 | unable to open input file name                                                             |
| MOD-00010 | unable to open listing file name                                                           |
| MOD-00011 | unable to open output file name                                                            |
| MOD-00017 | unable to connect to Oracle with conn_str:username/password. Oracle error number ora-nnnnn |



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| MOD-00039    | unable to open specifications file name                                    |
| MOD-00049    | unable to initialize PL/SQL                                                |
| MOD-00066    | unable to load package name from database                                  |
| ORA-00216    | unable to determine physical block size for control file name              |
| ORA-00344    | unable to recreate online log name                                         |
| ORA-00375    | unable to get default DB_BLOCK_SIZE                                        |
| ORA-01019    | unable to allocate memory in the user side                                 |
| ORA-01466    | unable to read data -- object definition has changed                       |
| ORA-01582    | unable to open control file for backup                                     |
| ORA-01583    | unable to get block size of control file to be backed up                   |
| ORA-01584    | unable to get file size of control file to be backed up                    |
| ORA-01586    | unable to open destination file name for backup                            |
| ORA-01650    | unable to extend rollback segment name by num in tablespace name           |
| ORA-01651    | unable to extend save undo segment by num in tablespace name               |
| ORA-01652    | unable to extend temp segment by num in tablespace name                    |
| ORA-01653    | unable to extend table name.name by num in tablespace name                 |
| ORA-01654    | unable to extend index name.name by num for tablespace name                |
| ORA-01655    | unable to extend cluster name.name by num for tablespace name              |
| ORA-01658    | unable to create INITIAL extent for segment in tablespace name             |
| ORA-01659    | unable to allocate MINEXTENTS beyond size in tablespace name               |
| ORA-02132    | Unable to allocate runtime context                                         |
| ORA-02133    | Unable to initialize process for use with threads                          |
| ORA-04031    | unable to allocate num bytes of shared memory num, num, num                |
| ORA-12322    | unable to mount database (link name name)                                  |
| ORA-12323    | unable to open database (link name name)                                   |
| ORA-13124    | unable to determine column id for column name                              |
| ORA-13126    | unable to determine class for spatial table name                           |
| PCC-00001    | Unable to open file name                                                   |
| PCC-00013    | Unable to open INCLUDE file name at line num in file name                  |
| PCC-00016    | Unable to open a cursor at line num in file name                           |
| PCC-00017    | Unable to parse statement at line num in file name                         |
| PCC-00019    | Unable to obtain bind variables at line num in file name                   |
| PCC-00020    | Unable to obtain define variables at line num in file name                 |
| PCC-00023    | Unable to log off Oracle                                                   |
| PCC-00037    | Unable to log on to Oracle with username. Oracle error number: ora-nnnnnn  |
| PCC-00038    | Unable to open a cursor                                                    |
| PCC-00039    | Unable to open input file name                                             |
| PCC-00040    | Unable to open listing file name                                           |
| PCC-00041    | Unable to open output file name                                            |
| PCC-00050    | Unable to generate descriptor in program unit ending line num in file name |
| PCC-02015    | Unable to open include file                                                |
| PCC-02017    | Unable to open output file                                                 |
| PCC-02100    | Unable to initialize PL/SQL                                                |
| PCC-02101    | Unable to open input file                                                  |
| PCC-02104    | Unable to connect to Oracle                                                |
| PCC-02105    | Unable to open list file                                                   |
| PLS-00352    | unable to access another database name                                     |
| SQL*Load-265 | unable to get default character set name                                   |
| SQL*Load-266 | unable to locate character set handle for name                             |

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| SQL*Load-402 | unable to determine length of column name.name from specification                           |
| SQL*Load-500 | unable to open file name                                                                    |
| SQL*Load-501 | unable to read file name                                                                    |
| SQL*Load-502 | unable to open log file for write name                                                      |
| SQL*Load-506 | unable to open bad file name                                                                |
| SQL*Load-507 | unable to open discard file name                                                            |
| SQL*Load-511 | unable to initialize read functions                                                         |
| SQL*Load-512 | unable to free read buffer                                                                  |
| SQL*Load-513 | unable to close file name                                                                   |
| SQL*Load-908 | unable to lock table name in exclusive mode due to Oracle error num                         |
| SQL-02113    | Unable to open message file                                                                 |
| LCC-00205    | unbalanced parentheses character                                                            |
| PCC-00014    | Undeclared SQL identifier ident at line num in file name                                    |
| PCC-00025    | Undeclared indicator variable var at line num in file name                                  |
| PCC-02328    | Undefined struct member                                                                     |
| PCC-02331    | Undefined SQL identifier                                                                    |
| PLS-00388    | undefined column name in subquery                                                           |
| PLS-00389    | undefined column name in left-hand-side expression                                          |
| PLS-00390    | undefined column name in INSERT statement                                                   |
| PLS-00391    | undefined column name in UPDATE statement                                                   |
| PLS-01405    | under ANSI's grammar, numeric data represented in exponent notation must use an uppercase E |
| DBA-00115    | unexpected end of command                                                                   |
| DBA-00375    | unexpected end of file, name                                                                |
| EXP-00030    | unexpected End-Of-File encountered while reading input                                      |
| IMP-00045    | unexpected character found on line num in mapfile                                           |
| LCC-00208    | unexpected keyword in value list name                                                       |
| LCC-00211    | unexpected delimiter symbol                                                                 |
| ORA-00921    | unexpected end of SQL command                                                               |
| PLS-00995    | unhandled exception # num                                                                   |
| ORA-01460    | unimplemented or unreasonable conversion requested                                          |
| ORA-03001    | unimplemented feature                                                                       |
| SQL*Load-415 | unimplemented database column type num on column name                                       |
| PLS-01500    | unions are not allowed in the definition of a view                                          |
| ORA-00001    | unique constraint table.column violated                                                     |
| ORA-01715    | UNIQUE may not be used with a cluster index                                                 |
| ORA-02266    | unique/primary keys in table referenced by enabled foreign keys                             |
| ORA-02037    | universalized speed bind storage                                                            |
| IMP-00049    | unknown language specified in CHARSET                                                       |
| ORA-01020    | unknown context state                                                                       |
| PCC-02013    | Unknown escape sequence                                                                     |
| PLS-00109    | unknown exception name name in PRAGMA EXCEPTION_INIT                                        |
| ORA-01244    | unnamed datafile(s) added to controlfile by media recovery                                  |
| IMP-00008    | unrecognized statement in the export file: str                                              |
| LCC-00122    | unrecognized keyword name                                                                   |
| ORA-13017    | unrecognized line partition shape                                                           |
| PCC-00015    | Unrecognized host language syntax ignored at line num in file name                          |
| ORA-01781    | UNRECOVERABLE cannot be specified without AS SELECT                                         |
| ORA-01782    | UNRECOVERABLE cannot be specified for a cluster or clustered table                          |

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| ORA-25104    | UNRECOVERABLE option can only be used with ALTER INDEX REBUILD            |
| SQL*Load-268 | UNRECOVERABLE keyword may be used only in direct path                     |
| PCC-00144    | UNSAFE_NULL=YES must be used with DBMS=V7 and MODE=ORACLE                 |
| PCC-02108    | UNSAFE_NULL=YES allowed if MODE=ORACLE and DBMS=V7 or V6_CHAR             |
| ORA-01482    | unsupported character set                                                 |
| ORA-03115    | unsupported network datatype or representation                            |
| PCC-00005    | Unsupported datatype in line num of file name                             |
| PLS-00707    | unsupported construct or internal error [num]                             |
| PCC-00047    | Unterminated comment/string constant beginning near line num in file name |
| ORA-12013    | updatable snapshots must be simple enough to do fast refresh              |
| ORA-01763    | update or delete involves outer joined table                              |
| ORA-01767    | UPDATE ... SET expression must be a subquery                              |
| ORA-01750    | UPDATE/REFERENCES may only be revoked from the whole table, not by column |
| ORA-00282    | UPI name call not supported, use ALTER DATABASE RECOVER                   |
| ORA-01025    | UPI parameter out of range                                                |
| PCC-01011    | USAGE IS BINARY clause must be terminated by "." on same line             |
| ORA-00097    | use of Oracle SQL feature not in SQL92 compliance level                   |
| ORA-01151    | use media recovery to recover block, restore backup if needed             |
| PCC-00097    | Use of DECIMAL and DISPLAY types allowed only for COBOL and PLI           |
| PCC-00118    | Use of host variable initialization not supported by ANSI SQL             |
| PCC-02361    | Use of ARRAYLEN with SQL host arrays is ignored                           |
| PCC-02386    | Use of the AT clause is not permitted here                                |
| PCF-00252    | use of the C preprocessor within SQL                                      |
| PCF-00253    | use of the AT clause                                                      |
| PCF-00254    | use of the FOR clause                                                     |
| PCF-00255    | use of the CONNECT statement                                              |
| PCF-00259    | use of RELEASE clause                                                     |
| PCF-00260    | use of dynamic SQL                                                        |
| PCF-00261    | use of PL/SQL                                                             |
| PCF-00262    | use of SQLWARN within WHENEVER clause                                     |
| PCF-00263    | use of NOTFOUND within WHENEVER clause                                    |
| PCF-00264    | use of NOT FOUND within WHENEVER clause                                   |
| PCF-00265    | use of STOP within WHENEVER clause                                        |
| PCF-00266    | use of RAISE within WHENEVER clause                                       |
| PCF-00267    | use of DO within WHENEVER clause                                          |
| PCF-00268    | use of DECLARE TABLE statement                                            |
| PCF-00269    | use of DECLARE DATABASE statement                                         |
| PCF-00270    | use of EXEC SQL INCLUDE                                                   |
| PCF-00271    | use of EXEC SQL TYPE                                                      |
| PCF-00272    | use of SQL FORMS statement                                                |
| PCF-00273    | use of EXEC ORACLE statement                                              |
| PCF-00275    | use of DROP TABLE statement                                               |
| PCF-00276    | use of non-ANSI function                                                  |
| PCF-00277    | use of non-ANSI function                                                  |
| PCF-00278    | use of the ALLOCATE statement                                             |
| PLS-00355    | use of PL/SQL table not allowed in this context                           |
| PLS-01400    | use of   ' token                                                          |
| PLS-01402    | use of quoted identifier                                                  |
| PLS-01408    | use of & token                                                            |

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| PLS-01409 | use of PRIOR_ token                                                   |
| PLS-01410 | use of MOD token                                                      |
| PLS-01411 | use of REM token                                                      |
| PLS-01412 | use of EXP token                                                      |
| PLS-01413 | use of NULL an expression                                             |
| PLS-01414 | use of qualified expression here                                      |
| PLS-01415 | use of aggregate value here                                           |
| PLS-01416 | use of <id> (<value>...) here                                         |
| PLS-01417 | use of %attribute                                                     |
| PLS-01473 | use <> instead of != or ~=                                            |
| PLS-01474 | use of ANY is non_ANSI                                                |
| PLS-01504 | use of AS phase in CREATE TABLE statement is non_ANSI                 |
| ORA-00030 | user session ID does not exist                                        |
| ORA-00086 | user call does not exist                                              |
| ORA-01013 | user requested cancel of current operation                            |
| ORA-01043 | user side memory corruption [num], [num], [num], [num]                |
| ORA-01045 | user name lacks CREATE SESSION privilege; logon denied                |
| ORA-01053 | user storage address cannot be read                                   |
| ORA-01054 | user storage address cannot be written                                |
| ORA-01435 | user does not exist                                                   |
| ORA-01477 | user data area descriptor is too large                                |
| ORA-01706 | user function result value was too large                              |
| ORA-01759 | user function is incorrectly defined                                  |
| ORA-01917 | user or role name does not exist                                      |
| ORA-01918 | user name does not exist                                              |
| ORA-01920 | user name name conflicts with another user or role name               |
| ORA-01955 | user not granted DEFAULT ROLE name                                    |
| ORA-02002 | user SYS is not permitted to create indexes with freelist groups      |
| ORA-04051 | user name cannot use database link name                               |
| ORA-12345 | user name lacks CREATE SESSION privilege in database (link name name) |
| ORA-23341 | user function required                                                |
| PCC-00088 | User-defined type identifier expected                                 |
| PLS-00505 | user-defined types may only be defined as PL/SQL tables or records    |
| PLS-00506 | user-defined constrained subtypes are disallowed                      |
| ORA-01721 | USERENV (COMMITSCN) invoked more than once in a transaction           |
| ORA-01725 | USERENV (COMMITSCN) not allowed here                                  |
| PCC-00065 | USERID required, but not specified                                    |
| PCC-00066 | USERID only used when SQLCHECK=SEMANTICS, USERID ignored              |
| PCC-02106 | Userid only used when SQLCHECK=FULL, userid ignored                   |
| PLS-00354 | username must be a simple identifier                                  |
| ORA-01129 | user's default tablespace does not exist                              |
| ORA-00203 | using the wrong control files                                         |
| ORA-01070 | using an old version of Oracle for the server                         |
| PCC-02342 | Using WHERE CURRENT OF on cursor defined without FOR UPDATE clause    |
| ORA-01737 | valid modes: [ROW] SHARE, [[SHARE] ROW] EXCLUSIVE, SHARE UPDATE       |
| ORA-02179 | valid options: ISOLATION LEVEL {SERIALIZABLE   READ COMMITTED}        |
| ORA-02183 | valid options: ISOLATION_LEVEL {SERIALIZABLE   READ COMMITTED}        |
| DBA-00129 | value out of range (1 - num)                                          |
| DBA-00382 | value name is not a recognizable filename for name                    |

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| DBA-00391    | value name is defined to name; legal values: name or name                                                      |
| LCC-00111    | value not in legal range range                                                                                 |
| ORA-00117    | value out of range for the MTS_SERVERS system parameter                                                        |
| ORA-00118    | value out of range for MTS_DISPATCHERS system parameter                                                        |
| ORA-01083    | value of parameter name is inconsistent with that of other servers                                             |
| ORA-01438    | value larger than specified precision allows for this column                                                   |
| ORA-12813    | value for PARALLEL or DEGREE must be greater than 0                                                            |
| ORA-12815    | value for INSTANCES must be greater than 0                                                                     |
| ORA-13011    | value is out of range                                                                                          |
| ORA-23369    | value of \"name\" argument cannot be null                                                                      |
| PCC-00113    | Value of DBMS option invalid with given value of MODE option                                                   |
| PCC-00119    | Value of const variable in INTO clause will be modified                                                        |
| PLS-01709    | value list of INSERT statement, if specified with value list rather than subquery, must be value specification |
| DBA-00143    | variable has not been defined                                                                                  |
| ORA-00079    | variable var not found                                                                                         |
| ORA-01007    | variable not in select list                                                                                    |
| SQL*Load-640 | variable length field was truncated                                                                            |
| DBA-00379    | variable(s) not defined                                                                                        |
| PLS-01464    | VARIANCE is not a standard set function                                                                        |
| PCC-01014    | "VARYING" not supported with PIC N PICTURE clause                                                              |
| ORA-01186    | verification tests failed on file name                                                                         |
| ORA-01211    | Version 6 datafile is not from conversion to Oracle7                                                           |
| ORA-01402    | view WITH CHECK OPTION where-clause violation                                                                  |
| ORA-09109    | view "view_name" cannot be used in a subquery                                                                  |
| ORA-09110    | view "view_name" defines operation not supported on the target system                                          |
| ORA-01733    | virtual column not allowed here                                                                                |
| PCC-02307    | Void can only be used when single parameter                                                                    |
| ORA-01762    | vopdrv: view query block not in FROM                                                                           |
| DBA-00072    | warning: name created with compilation errors                                                                  |
| DBA-00073    | warning: name created with compilation errors                                                                  |
| IMP-00033    | warning: Table name not found in export file                                                                   |
| IMP-00034    | warning: FROMUSER name not found in export file                                                                |
| IMP-00035    | warning: TOUSER name not found in export file                                                                  |
| IMP-00040    | warning: Statement not executed due to invalid session label                                                   |
| IMP-00041    | warning: object created with compilation warnings                                                              |
| ORA-00083    | warning: possibly corrupt SGA mapped                                                                           |
| ORA-00111    | Warning: maximum number of servers is only num; adding num servers                                             |
| ORA-02369    | warning: Variable-length field was truncated                                                                   |
| ORA-08498    | Warning: picture mask name overrides picture mask option USAGE IS name to USAGE IS DISPLAY                     |
| ORA-08499    | Warning: picture mask options name ignored by UTL_PG                                                           |
| PCC-02356    | Warning at line num, column colnam, file name                                                                  |
| SQL*Load-307 | Warning: conflicting lengths num1 and num2 specified for column name                                           |
| ORA-01844    | week of year must be between 1 and 52                                                                          |
| ORA-01845    | week of month must be between 1 and 5                                                                          |
| ORA-01860    | week of year must be between 1 and 53                                                                          |
| ORA-04077    | WHEN clause cannot be used with table level triggers                                                           |
| MOD-00097    | WITH INTERFACE must be specified for this host language                                                        |

|              |                                                                             |
|--------------|-----------------------------------------------------------------------------|
| MOD-00098    | WITH INTERFACE may only be defaulted when bind=late                         |
| ORA-01777    | WITH GRANT OPTION not allowed in this system                                |
| ORA-01932    | WITH ADMIN option not granted for role name                                 |
| ORA-02200    | WITH GRANT OPTION not allowed for PUBLIC                                    |
| PLS-00309    | with %LAST attribute, name must be a variable of an enumerated type         |
| PLS-00310    | with %ROWTYPE attribute, name must name a table, cursor, or cursor variable |
| SQL*Load-250 | work data sets are not used by SQL*Loader                                   |
| PCC-01007    | WORKING-STORAGE SECTION not found                                           |
| ORA-01579    | write error occurred during recovery                                        |
| ORA-01202    | wrong incarnation of this file - wrong creation time                        |
| ORA-01203    | wrong incarnation of this file - wrong creation SCN                         |
| ORA-01204    | wrong file - file number is num rather than num                             |
| ORA-01862    | wrong number of digits for this format item                                 |
| ORA-06559    | wrong datatype requested, type, actual datatype is type                     |
| ORA-23431    | wrong state: name                                                           |
| PLS-00306    | wrong number or types of arguments in call to name                          |
| PLS-00393    | wrong number of columns in SELECT...INTO statement                          |
| PLS-00394    | wrong number of values in the INTO list of a FETCH statement                |
| PLS-00395    | wrong number of values in VALUES clause of INSERT statement                 |
| PLS-00398    | wrong number of columns in UNION, INTERSECT, or MINUS expression            |
| ORA-01812    | year may only be specified once                                             |
| ORA-01831    | year conflicts with Julian date                                             |
| ORA-01969    | you must specify RESETLOGS or NORESETLOGS                                   |
| ORA-01970    | you must specify a database name for CREATE CONTROLFILE                     |
| PCC-01000    | You are not authorized to run Pro*COBOL                                     |
| PCC-01100    | You are not authorized to run Pro*FORTRAN                                   |
| PCC-01200    | You are not authorized to run Pro*C                                         |
| PCC-01300    | You are not authorized to run Pro*PL/I                                      |
| PCC-01400    | You are not authorized to run Pro*Pascal                                    |
| PCC-01500    | You are not authorized to run Pro*Ada                                       |
| PCC-02107    | You may not specify PARSE = FULL when CODE = CPP                            |
| PCC-02376    | You may not declare SQLCODE when DEF_SQLCODE = TRUE                         |
| PCC-02382    | You must specify MODE = ANSI when using NLS_CHAR                            |
| PCC-02385    | You may not specify DBMS = V6_CHAR when using NLS_CHAR                      |
| PCC-02392    | You are already in an EXEC SQL DECLARE SECTION                              |
| SQL*Load-904 | you cannot use the direct path when linked with v5 of the database          |
| ORA-00028    | your session has been killed                                                |
| PCC-01001    | Your Pro*COBOL authorization is about to expire                             |
| PCC-01101    | Your Pro*FORTRAN authorization is about to expire                           |
| PCC-01201    | Your Pro*C authorization is about to expire                                 |
| PCC-01301    | Your Pro*PL/I authorization is about to expire                              |
| PCC-01401    | Your Pro*Pascal authorization is about to expire                            |
| PCC-01501    | Your Pro*Ada authorization is about to expire                               |
| ORA-01412    | zero length not allowed for this datatype                                   |
| ORA-01723    | zero-length columns are not allowed                                         |
| ORA-02358    | zoned decimal conversion error                                              |



# *B*

## Operating System-Specific Information

**T**his manual occasionally refers to other Oracle manuals that contain detailed information for using Oracle on a specific operating system. These Oracle manuals are generically referred to as operating system-specific Oracle documentation, as the exact name varies on different operating systems.

This appendix lists all the references in this manual to operating system-specific Oracle documentation. It lists ranges of error messages that are operating system-specific and individual error messages within ranges that are not operating system-specific. If you are using Oracle on multiple operating systems, this appendix can help you ensure that your applications are portable across these operating systems.



---

## Ranges of Operating System–Specific Messages

The following list contains ranges of error messages that pertain to operating system–specific issues. See also “Related Publications” on page iii of the “Preface” for a listing of the Oracle manuals containing operating system–specific messages. The entries that appear in the following list also appear in Chapter 1 on page 1 – 7 under the topic heading, “Message Ranges”, in bold type.

00570–00599: SQL\*Connect Opening and Reading Files

00640–00699: SQL\*Connect

02500–02699: CTOS

02700–02757: UNIX Two Task

02875–02899: IBM RS/6000

03500–03699: Macintosh

03700–03999: AOS/VS

04500–04899: CMS

04900–09429: ICL DRS6000

05000–05899: OEM

06000–06429: SQL\*Net generic messages

06430–06499: NCR System 3000

06581–06591: European OEM Ports

06700–06899: SQL\*Net TLI

06900–06939: CMX

06950–06999: SQL\*Net AppleTalk

07000–07099: SQL\*Connect/DB2

07100–07199: SQL\*Connect/IMS

07200–07499: UNIX

07500–07999: VAX/VMS

08401–08410: European OEM Systems

08500–08799: SQL\*Connect

08800–08899: SQL\*Connect Tandem

09000–09099: SQL\*Connect TERADATA

09200–09499: DOS, OS/2 and Novell

09500–09699: MPE/XL  
09700–09999: UNIX  
10000–10999: Internal  
12100–12299: SQL\*Net  
12500–12699: SQL\*Net  
21100–21299: Internal

---

## Individual Operating System–Specific Messages

The following list contains operating system–specific error messages that occur within *generic* ranges of error messages. See also “Related Publications” on page iii of the “Preface” for a listing of the Oracle manuals containing operating system–specific messages.

ORA-00050  
ORA-00102  
ORA-00120  
ORA-00204  
ORA-00206  
ORA-00290  
ORA-00306  
ORA-00307  
ORA-00375  
ORA-00445  
ORA-01034  
ORA-01046  
ORA-01050  
ORA-01091  
ORA-01157  
ORA-01450  
ORA-01483  
ORA-01497

ORA-01498  
ORA-01499  
ORA-01519  
ORA-01526  
ORA-01527  
ORA-01528  
ORA-01529  
ORA-01956  
ORA-02019  
ORA-02082  
ORA-02249  
ORA-06554  
ORA-09112  
ORA-09113  
ORA-09115  
ORA-09120  
ORA-09121  
ORA-12449  
ORA-12458  
ORA-12461  
ORA-12470  
ORA-12485  
ORA-12701  
ORA-12706  
IMP-00021  
PCC-02066  
PCC-02101

## C

# Registry for Windows NT and Windows 95

**T**he Registry stores system settings, including Oracle-related settings. The end-user who uses the SQL\*Net Easy Configuration utility should not need to edit the Registry. The network administrator, on the other hand, might want to customize the Oracle environment by changing the parameters defined in the Registry. This appendix explains how to drill down the Registry hierarchy to edit Oracle-related settings.

Topics covered in this appendix are:

- Windows NT Registry
- Windows 95 Registry

**Caution:** When editing in the Registry, proceed carefully to avoid deleting or altering correct information that can affect how your system functions.



**Additional Information:** Refer to the documentation on your operating system for more information.

---

## Registry for Windows NT

Below are steps for editing the Windows NT Registry for Oracle-related settings.

1. Type REGEDT32 from a command line.  
Four windows appear, including HKEY\_LOCAL\_MACHINE.
2. Activate the HKEY\_LOCAL\_MACHINE on Local Machine window.
3. Double-click on Software.
4. Double-click on ORACLE.  
A list of values appears in the right-hand side on the window.
5. Double-click on the value you want to edit.  
The String Editor dialog box appears.
6. Make any edits in the String field.
7. Choose OK.
8. Reboot your system so that the changes take effect.

---

## Registry for Windows 95

Below are steps for editing the Windows 95 Registry for Oracle-related settings.

1. Type `REGEDIT` from a command line.  
The Registry Editor window appears.
2. Double-click on `HKEY_LOCAL_MACHINE` folder located under My Computer.
3. Double-click on `SOFTWARE`.
4. Double-click on `ORACLE`.  
A list of values appears in the right-hand side on the window.
5. Double-click on the value you want to edit.  
The Edit String dialog box appears.
6. Make any edits in the appropriate field(s).
7. Choose OK.
8. Reboot your system so that the changes take effect.



# D

## Sample Configuration Files

**S**ample configuration files can make it easier for you to understand how to configure Oracle Network Products. This appendix provides examples of the following files:

- SQLNET.ORA
- LISTENER.ORA
- TNSNAMES.ORA



**Attention:** Oracle supports configuration files only if you use Oracle Network Manager for Windows to create them. Some manual editing of certain files may be a necessary exception.

**Note:** The TNSNAMES.ORA file does not exist if Oracle Names is configured with Oracle Network Manager for Windows.



---

## SQLNET.ORA

```
#####
# Filename.....: sqlnet.ora
# Name.....: ASTERIX.world
# Date.....: 11-JUL-95 14:11:25
#####
AUTOMATIC_IPC = ON
TRACE_LEVEL_CLIENT = OFF
SQLNET.EXPIRE_TIME = 0
NAMES.DEFAULT_DOMAIN = world
NAME.DEFAULT_ZONE = world
SQLNET.CRYPTO_SEED = "-1055358555-1054669637"
SQLNET.AUTHENTICATION_SERVICES = (ALL)
```

---

## LISTENER.ORA

```
#####
# Filename.....: listener.ora
# Name.....: ASTERIX.world
# Date.....: 11-JUL-95 14:11:25
#####
LISTENER =
  (ADDRESS_LIST =
    (ADDRESS=
      (PROTOCOL=IPC)
      (KEY= ASTERIX.world)
    )
    (ADDRESS=
      (PROTOCOL=IPC)
      (KEY= ORCL)
    )
  )
  (ADDRESS =
    (COMMUNITY = TCP.world)
    (PROTOCOL = TCP)
    (Host = ASTERIX)
    (Port = 1521)
```

```

        )
    )
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
TRACE_LEVEL_LISTENER = OFF
SID_LIST_LISTENER =
    (SID_LIST =
        (SID_DESC =
            (SID_NAME = ORCL)
            (PROGRAM = oracle72)
            (PRESPAWN_MAX = 10)
        )
    )
)

```

---

## TNSNAMES.ORA

```

#####
# Filename.....: tnsnames.ora
# Name.....: ASTERIX.world
# Date.....: 11-JUL-95 14:11:25
#####
ASTERIX.world =
    (DESCRIPTION =
        (ADDRESS_LIST =
            (ADDRESS =
                (COMMUNITY = TCP.world)
                (PROTOCOL = TCP)
                (Host = ASTERIX)
                (Port = 1521)
            )
        )
    )
    (CONNECT_DATA =
        (SID = ORCL)
        (GLOBAL_NAME = ASTERIX.world)
    )
)
GETAFIX.world =

```

```
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS =  
      (COMMUNITY = TCP.world)  
      (PROTOCOL = TCP)  
      (Host = GETAFIX)  
      (Port = 1526)  
    )  
  )  
  (CONNECT_DATA =  
    (SID = ORCL)  
    (GLOBAL_NAME = GETAFIX.world)  
  )  
)
```

# *E*

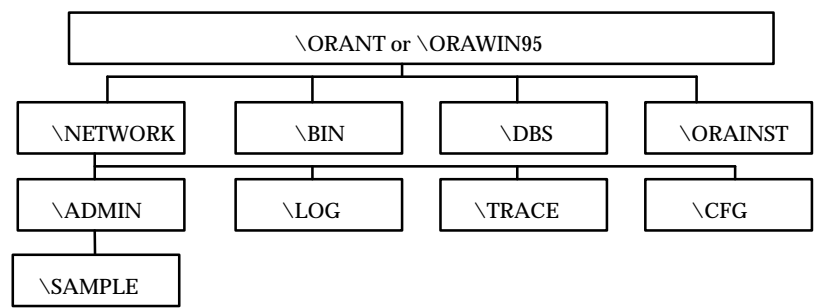
## Verifying Installation of Oracle Network Products

**T**his chapter explains how to verify successful installation of Oracle Network Products for Windows NT/Windows 95. If any files are missing, see Chapter 2 of this Guide for (re)installation instructions. Specifically, this chapter covers the following topics and tasks:

- directory structure of Oracle network products
- installation verification overview
- verifying installation of SQL\*Net files
- verifying installation of Oracle protocol adapter .DLL files
- verifying installation of other Oracle network product files
- verifying environment setup

# Directory Structure of Oracle Network Products

The diagram below shows the directory structure for Oracle Network Products for Windows NT and for Oracle Network Products for Windows 95.



- \ORANT the default name of the Oracle home directory, also referred to as ORACLE\_HOME.
- \BIN holds executable programs, .DLLs and batch files for Oracle tools used by SQL\*Net and the Oracle Protocol Adapter.
- \DBS holds the messages and scripts.
- \ORAINST holds files used by the Oracle Installer.
- \NETWORK created when you install SQL\*Net for Version 2.  
The \NETWORK directory contains the following subdirectories:
  - \ADMIN holds the \*.ORA files used by SQL\*Net Version 2.
  - \ADMIN\SAMPLE holds the sample configuration files.
  - \LOG holds log files placed here by default.
  - \TRACE holds trace files placed here by default.
  - \CFG is the working directory of the SQL\*Net Easy Configuration utility.

---

# Installation Verification Overview

After you install Oracle network products, verify files and system file parameters, including third-party software, before you begin configuring and using Oracle Network Products.

This chapter outlines the steps to verify successful installation of Oracle Network Products, including Oracle protocol adapters, SQL\*Net, Oracle Network Manager for Windows and Oracle Names.

Locate the appropriate sections in this chapter to accomplish each step as they apply to your configuration needs. After you verify installation, see the chapter on “Configuring Oracle Network Products” to specify SQL\*Net connect descriptors and Oracle protocol adapter addresses.

---

## Verify Installation of SQL\*Net Files

This section explains how to verify the proper installation of SQL\*Net .DLL files, message files, and server executables.

### Verifying SQL\*Net for DLLs

Before configuring the Oracle Protocol Adapter and SQL\*Net, 2.2, check that SQL\*Net is fully installed in your \BIN subdirectory by typing the following command at the command prompt:

```
C:\> DIR \ORANT\BIN\*.DLL
```

or

```
C:\> DIR \ORAWIN95\BIN\*.DLL
```

The following list of dynamic link libraries (DLLs) should appear:

**Note:** The files listed below are for **both** SQL\*Net client and server machines unless specifically stated otherwise.

| FILE NAME  | SERVER FILE | CLIENT FILE |
|------------|-------------|-------------|
| NLNT.DLL   | Yes         | Yes         |
| NSNT.DLL   | Yes         | Yes         |
| NTNT.DLL   | Yes         | Yes         |
| NTPNT.DLL  | Yes         | No          |
| NTUSNT.DLL | Yes         | No          |

|              |     |     |
|--------------|-----|-----|
| SQLTNSNT.DLL | Yes | Yes |
| SNSNT.DLL    | Yes | Yes |

## Verifying Message Files

Enter the following command to verify that the message files listed below are located under the \ORANT\DBS or \ORAWIN95\DBS subdirectory:

```
C:\> DIR \ORANT\DBS\*.MSB
```

or

```
C:\> DIR \ORAWIN95\DBS\*.MSB
```

The following list of message files appears:

|           |           |
|-----------|-----------|
| NLUS.MSB  | NPLUS.MSB |
| NMPUS.MSB | SNLUS.MSB |
| NNCUS.MSB | TNSUS.MSB |

If you are using a language other than American English, the letters corresponding to the language you selected, such as "NL" (Netherlands), replace the "US" in each filename.

## Verifying Server Executables

If you installed SQL\*Net Server, verify that the server executable files listed below are in your \ORACLE\_HOME\BIN directory by entering the following command:

```
C:> DIR \ORANT\BIN\*.EXE
```

or

```
C:> DIR \ORAWIN95\BIN\*.EXE
```

The following server executables should appear:

- TNSLSNR.EXE
- LSNRCTL.EXE

## Verifying Oracle Names Files

If you installed Oracle Names (optional), verify that the Oracle Names executables are in the ORACLE\_HOME\BIN directory by entering the following command:

```
C:> DIR \ORANT\BIN\*.EXE
```

or

```
C:> DIR \ORAWIN95\BIN\*.EXE
```

The following Oracle Names executables should appear:

- NAMES.EXE
- NAMESCTL.EXE

Verify that the message files are in the \ORACLE\_HOME\DBS directory by entering the following command:

```
C:> DIR \ORANT\DBS\*.MSB
```

or

```
C:> DIR \ORAWIN95\DBS\*.MSB
```

The following message files should appear:

- NNOUS.MSB
- >NNLUS.MSB
- NMRUS.MSB
- NNCUS.MSB



Oracle Names

Read the *Oracle Names Administrator's Guide* to plan your use of Oracle Names. Most of the necessary decisions are part of the process of installing and configuring SQL\*Net using Oracle Network Manager for Windows. However, Oracle Names requires additional decisions about domains, regions, Names Servers, and database links.

Verifying installation of the dynamic link library (.DLL) file corresponding to the the Oracle protocol adapter is a two-step process.



**Step 1**

Enter the following command:

```
C:> DIR\ORANT\BIN\NT*.DLL
```

**Step 2**

Use the table below to verify the presence of the file that corresponds to the Oracle Protocol Adapter you installed:

| <i><b>If you installed</b></i>                           | <i><b>the corresponding .DLL file is</b></i> |
|----------------------------------------------------------|----------------------------------------------|
| Oracle Named Pipes Protocol Adapter                      | NTNNT.DLL                                    |
| Oracle SPX/IPX Protocol Adapter                          | NTSNT.DLL                                    |
| Oracle TCP/IP Protocol Adapter                           | NTTNT.DLL                                    |
| <b>Table 4 – 1 Oracle Protocol Adapter DLL Filenames</b> |                                              |

---

**Verifying Installation of Other Oracle Network Product Files**

**Oracle Network  
Manager for Windows  
EXE Files**

Use Windows File Manager to verify that Oracle Network Manager for Windows executable (.EXE) files are in the \ORAWIN\BIN subdirectory.

The following .EXE filenames should appear:

```
NETCONV.EXE
NETFETCH.EXE
NETMAN.EXE
NETPRINT.EXE
```

To verify files at the DOS prompt, type:

```
C:\> DIR \ORAWIN\BIN\NET*.EXE
```

**Oracle Network  
Manager for Windows  
DLL Files**

Use Windows File Manager to verify that Oracle Network Manager dynamic link library (.DLL) filenames appear in \ORAWIN\BIN subdirectory.

The following .DLL filenames should appear:

```
NMCPI.DLL
NMC.DLL
NMO.DLL
```

To verify files at the DOS prompt, type:

```
C:\> DIR \ORAWIN\BIN\NM*.DLL
```

# Verifying Environment Setup

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                                                                                                                                                                                       |                 |                                                            |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------|
|                                                    | <p>Use the PATH command to verify that the necessary Oracle files are in your path. At the command prompt, type the following:</p> <pre>C :&gt; PATH</pre> <p>If SQL*Net and the TCP/IP Protocol Adapter are installed to the default home directory on drive C, the following is part of the PATH statement:</p> <pre>C:\ORANT\BIN</pre> <p>or</p> <pre>C:\ORAWIN95\BIN</pre> <p>If the correct path to the default Oracle home directory is not in your path, modify the PATH statement of your CONFIG.SYS file to include the proper ORACLE_HOME\BIN subdirectory.</p>                                                                                                                                       |                         |                                                                                                                                                                                       |                 |                                                            |
| <b>Identify the Destination Address for TCP/IP</b> | <p>To make a SQL*Net connection, you must specify the destination host's Internet address or a host name.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |                                                                                                                                                                                       |                 |                                                            |
| Domain Name Service                                | <p>Most TCP/IP transports attempt to use the Domain Name Service (DNS) to translate the host name into the host address. If a Domain Name Server is present on your network and the TCP/IP vendor supports Domain Name Service, the host name is successfully translated to the host address.</p>                                                                                                                                                                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                                       |                 |                                                            |
| Configure the HOSTS File for TCP/IP                | <p>Depending on your vendor, workstation configuration, and network configuration, your TCP/IP software may use a HOSTS file to map host names to Internet addresses.</p> <p>The mapping for each host listed in the HOSTS file is specified on a single line in the following format:</p> <pre>internet_address hostname [alias]</pre> <p>where</p> <table><tr><td><i>internet_address</i></td><td>the Internet address of the host computer (a four-byte value specified in decimal, octal, or hexadecimal). The system administrator knows the host machine's TCP/IP Internet address.</td></tr><tr><td><i>hostname</i></td><td>the name of the host associated with the Internet address.</td></tr></table> | <i>internet_address</i> | the Internet address of the host computer (a four-byte value specified in decimal, octal, or hexadecimal). The system administrator knows the host machine's TCP/IP Internet address. | <i>hostname</i> | the name of the host associated with the Internet address. |
| <i>internet_address</i>                            | the Internet address of the host computer (a four-byte value specified in decimal, octal, or hexadecimal). The system administrator knows the host machine's TCP/IP Internet address.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                       |                 |                                                            |
| <i>hostname</i>                                    | the name of the host associated with the Internet address.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                                                                                                                                                                                       |                 |                                                            |

*alias* an optional alternate name for the host. You can have more than one alias for any single host. Aliases can be set any time you edit the HOSTS file.

For example, a host named “BOSTONSALES” might be referenced in the HOSTS file as follows:

```
89.0.1.100 BOSTONSALES [BOSTON]
```

89.0.1.100 the Internet address of the remote host.

BOSTONSALES the name of the remote host.

BOSTON an optional alias for the BOSTONSALES host.



**Additional Information:** For more information, see the documentation for your third-party network software.

# F

## Configuring Oracle Network Products

**T**his chapter provides information on the following topics:

- configuration steps
- client configuration
- TNSNAMES.ORA overview
- address for each supported Oracle protocol adapter
- LISTENER.ORA overview
- Oracle Names configuration
- SQLNET.ORA overview
- starting the network listener



**Attention:** Oracle only supports configuration files created by using one of these two products: the SQL\*Net Easy Configuration utility (for simple database connections) or Oracle Network Manager for Windows (for advanced SQL\*Net features, such as Secure Network Services).

**Caution:** Oracle strongly recommends that every machine in the workgroup network be configured with one, and only one, of the configuration utilities: SQL\*Net Easy Configuration, or Oracle Network Manager for Windows.

**Caution:** SQL\*Net Easy Configuration and Oracle Network Manager for Windows are mutually exclusive on any one machine.

---

## Configuration Steps

Oracle recommends that you use Oracle Names to facilitate connections.

This section outlines the steps necessary to use Oracle Network Manager for Windows and to connect to your RDBMS to configure your SQL\*Net V2 configuration files.

- Step 1** Read *Oracle Network Manager Administrator's Guide*, and refer to the following:
- Chapter 4: “Quick Steps to Configure a Network”
  - the “Guidelines for Creating Network Components” section of Chapter 3.
- Step 2** Use Oracle Network Manager for Windows in the following manner:
1. Start a session.
  2. Make sure you are running in Enhanced mode.
  3. Start Oracle Network Manager for Windows.
  4. Follow the instructions in the following sections of *Oracle Network Manager Administrator's Guide*:
    - Chapter 4: “Quick Steps to Configure a Network”
    - the “Guidelines for Creating Network Components” section of Chapter 3.
  5. Save the network definition to a file or to a database.
    - If Oracle Names is part of the network, you must save the network definition to a database. Oracle recommends that you save your network definition to the `ORACLE_HOME\NETWORK\ADMIN` directory.
    - If you want to copy the client files to a Windows workstation, either comment out (REM)—or set to the value of OFF—the `AUTOMATIC_IPC=ON` statement in the `SQLNET.ORA` file.



**Additional Information:** Refer to Chapter 3 of *Oracle Network Manager Administrator's Guide* for more information.

6. Generate the network configuration files.



**Additional Information:** Refer to Chapter 3 of *Oracle Network Manager Administrator's Guide* for more information.

7. Distribute the network configuration files to the appropriate nodes.



**Additional Information:** Refer to Chapter 6 of *Oracle Network Manager Administrator's Guide* for more information.

8. Exit Oracle Network Manager for Windows.

**Step 3** Start the network listener if this is a **Windows NT Server** by entering the following command at the prompt:

```
C:\> LSNRCTL START listener_name
```

**Step 4** Start Oracle Names if you are using Oracle Names on this Server. To do so, change directories into the ORACLE\_HOME\BIN directory, then invoke the Oracle Names executable. Below is an example.

```
C:> CD C:\ORANT\BIN
C:\ORANT\BIN> NAMESCTL START
```



**Additional Information:** For information on how to use Oracle Names, refer to *Oracle Names Administrator's Guide*.

---

## Client Configuration

Oracle Network Manager ensures that the information in the client configuration files matches that of the server configuration files. There are three client configuration files:

- TNSNAMES.ORA
- TNSNAV.ORA
- SQLNET.ORA

**TNSNAMES.ORA** contains a list of service names of network destinations (databases and Oracle MultiProtocol Interchanges) mapped to connect descriptors. If an Oracle Names server is used on the network, TNSAMES.ORA is unnecessary and is not created.

**TNSNAV.ORA** contains a list of the communities of which the node is a member. If the client communicates over the Oracle MultiProtocol Interchange, this file is necessary.

SQLNET.ORA contains default domains and several optional parameters.

Once your network has been configured and a SQL\*Net network listener is started on an Oracle7 Server, clients can connect to the Oracle7 Server using a SQL\*Net service name. The service name is mapped to the connect descriptor. Connect descriptors define the following attributes of a TNS connection:

- protocol adapter information for the destination server's address
- the system ID for the destination server

---

## TNSNAMES.ORA Overview

The TNSNAMES.ORA file is used by clients and distributed database servers to identify potential destinations: servers or Oracle MultiProtocol Interchanges.

If Oracle Names is used in the network, the TNSNAMES.ORA files are not necessary; the Names servers get the needed information from the network definition stored on a database.

Each entry in the TNSNAMES.ORA file includes two elements:

- a service name
- a connect descriptor

These elements are described in the following sections.

## Service Names

All connect descriptors are assigned *service names* in the TNSNAMES.ORA file. The user specifies the service name—a single word rather than the lengthier connect descriptor—to identify the service to which the user wants to connect. (These are comparable to the aliases used for connect\_strings in SQL\*Net V1.) The contents of a TNSNAMES.ORA file consists of a series of service names mapped to TNS connect descriptors.

The service name for a database must be exactly the same as the global database name defined by the system administrator. SQL\*Net limits the total length of a global database name to 64 characters. Of these, up to eight are the DB\_NAME as defined by the database administrator, and the remainder show the service's place in the domain hierarchy (DB\_DOMAIN). The name part of the service name can be longer than eight characters only if the DBA changes the name of the database with a RENAME GLOBAL\_NAME parameter. The total global database name, or service name, must remain at or below 64 characters. See "Global Naming Issues" in Chapter 2 of *Oracle7 Server Distributed Systems, Volume I* for more information on creating a global database name.



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Alternate service names, or aliases, can be assigned to a database service through the TNSNAMES.ORA file. The alternate service names can be names you choose because you find them convenient and easy to remember. For example, if a database were used by two different divisions of a company, Human Resources and Finance, you might want to map two different service name aliases, "hr" and "finance," to the database. The TNSNAMES.ORA file would then have three separate entries: a service name that is the same as the global database name, and two aliases, mapped to the same connect descriptor.

**Note:** Although you can have multiple aliases for the same database service, you cannot have multiple listeners for the same database service.

The service name for an Oracle MultiProtocol Interchange is the name of the Oracle MultiProtocol Interchange or its Connection Manager component. Typically, the Oracle MultiProtocol Interchange and the Connection Manager are referred to by the same name.



## Connect Descriptors

Every service requires a connect descriptor. For a database, a connect descriptor describes the location of the network listener and the system identifier (SID) of the database to which to connect. Database connect descriptors commonly consist of two sections:

- the listener ADDRESS
- the database SID passed as application CONNECT\_DATA

### ADDRESS Section

The application address is the information required to reach the application within a given protocol environment. It includes the community in which the destination resides, the protocol it uses, and protocol-specific parameters. Oracle Network Manager for Windows automatically provides the correct protocol specific parameters for any protocol you use, but you must provide the appropriate values. For information about the values for the parameters for a given protocol, see the next section of this chapter, “Address for Each Supported Oracle Protocol Adapter.”

**Note:** If you specify a TCP/IP address prefixed with a “0”, it is assumed to be an octal number, not a decimal number. For example, 39.223.72.44 is a decimal number, but 039.223.72.44 is an octal number.

### CONNECT DATA Section

SQL\*Net uses the CONNECT\_DATA keyword to denote the system identifier (SID) of the remote database. When SQL\*Net on the server side receives the connection request, TNS passes the CONNECT\_DATA contents to the network listener, which identifies the desired database. For SQL\*Net use, sample CONNECT\_DATA contents might look like:

```
(CONNECT_DATA=
  (SID=ORCL)
)
```

CONNECT\_DATA is a protocol independent keyword indicating that application-specific data will be supplied at connect time, and SID specifies the Oracle System ID of the database server. You must specify the SID in the CONNECT DATA section of the connect descriptor.

### Oracle MultiProtocol Interchange Addresses

A connect descriptor for an Oracle MultiProtocol Interchange consists of only one section, an ADDRESS\_LIST section. The ADDRESS\_LIST section lists all the addresses of the Oracle MultiProtocol Interchange, including the required protocol specific keywords.

There is no CONNECT\_DATA section in the connect descriptor of an Oracle MultiProtocol Interchange.

# Address for Each Supported Oracle Protocol Adapter

This section provides the format and examples of the address for each of the following Oracle protocol adapters:

- Oracle TCP/IP Protocol Adapter
- Oracle SPX/IPX Protocol Adapter
- Oracle Named Pipes Protocol Adapter

## TCP/IP Addresses

When using Oracle TCP/IP Protocol Adapter, specify the address of a TNS-based application as follows:

```
( ADDRESS=
  [ ( COMMUNITY=community_name ) ]
  ( PROTOCOL=TCP )
  ( HOST=host_name )
  ( PORT=1521 )
)
```

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMMUNITY<br>( optional ) | in this ADDRESS syntax, the COMMUNITY keyword (which is optional) identifies a group of network clients and servers using TNS-based software. A community is a group of machines that use the same transport-level protocol, such as TCP/IP. Machines that share a common protocol are said to be members of the same community. If your network uses an Oracle MultiProtocol Interchange, refer to the Oracle MultiProtocol Interchange documentation to define and use TNS communities. |
| PROTOCOL                  | the PROTOCOL keyword indicates the type of network on which the TNS-based application resides. When using Oracle TCP/IP Protocol Adapter, always use the keyword-value pair PROTOCOL=TCP.                                                                                                                                                                                                                                                                                                 |
| HOST and PORT             | the TCP/IP <i>host_name</i> and <i>port_number</i> identify a TNS-based application on the network. For example, in the case of SQL*Net, the <i>host_name</i> is the node the database is on and <i>port_number</i> identifies the location of an Oracle Server listener. Consult the network administrator to learn the host names and port numbers of TNS-based applications on your network.                                                                                           |

## SQL\*Net Example on a TCP/IP Network

The following is an example of the ADDRESS keyword used with the TNS-based product, SQL\*Net. The example is taken from the SQL\*Net configuration file, TNSNAMES.ORA. TNSNAMES.ORA defines the location of Oracle Server machines to which a client can connect.

The entry below is taken from a client machine that connects to a single Oracle Server named GREENWOOD on a TCP/IP network.

```
GREEN=(DESCRIPTION=
  (ADDRESS =
    (COMMUNITY = tcp.world)
    (PROTOCOL = TCP)
    (Host = GREENWOOD)
    (Port = 1521)
  )
  (CONNECT_DATA=(SID=ORCL))
)
```

## SPX/IPX Addresses

When using the Oracle SPX/IPX Protocol Adapter, specify the address of a TNS-based application as follows:

```
(ADDRESS=
  [(COMMUNITY=community_name)]
  (PROTOCOL=SPX)
  (SERVICE=service_name)
)
```

**COMMUNITY**            in this ADDRESS syntax, the COMMUNITY keyword specifies the network community of the TNS-based application. The COMMUNITY keyword is optional, and is generally used only when the Oracle MultiProtocol Interchange product connects multiple networks. If your network uses an Oracle MultiProtocol Interchange, refer to the Oracle MultiProtocol Interchange documentation to define and use TNS communities.

**PROTOCOL**           the PROTOCOL keyword indicates the type of network on which the TNS-based application resides. When using the Oracle Adapter, always use the keyword-value pair PROTOCOL=SPX.

**SERVICE**            SERVICE defines the name of the TNS-based application on the network. For example, in the case of SQL\*Net, the *service\_name* always identifies the

name of an Oracle7 Server listener. Consult your network administrator to learn the service names of TNS-based applications on your network.

### SQL\*Net Example on a SPX/IPX Network

The following is an example of the ADDRESS keyword used with the TNS-based product, SQL\*Net. The example is taken from the SQL\*Net configuration file, TNSNAMES.ORA. TNSNAMES.ORA defines the location of Oracle7 Server machines to which a client can connect.

The entry below is taken from a client machine that connects to a single Oracle Server named GREENWOOD\_LSNR\_1 on an SPX/IPX network.

```
GREEN=(DESCRIPTION=
      (ADDRESS_LIST =
        (ADDRESS =
          (COMMUNITY = SPX.WORLD)
          (PROTOCOL = SPX)
          (SERVICE = GREENWOOD_LSNR_1)
        )
      (CONNECT_DATA=(SID=ORCL)
      )
    )
```

### Named Pipes Addresses

When using the Oracle Named Pipes Protocol Adapter, specify the address of a TNS-based application as follows:

```
(ADDRESS=
  [ (COMMUNITY=community_name) ]
  (PROTOCOL=NMP)
  (SERVER=server_name)
  (PIPE=pipe_name)
)
```

COMMUNITY      in this ADDRESS syntax, the COMMUNITY keyword specifies the network community of the TNS-based application.

|          |                                                                                                                                                                                                    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROTOCOL | the PROTOCOL keyword indicates the type of network on which the TNS-based application resides. When using the Oracle Named Pipes Protocol Adapter, always use the keyword-value pair PROTOCOL=NMP. |
| SERVER   | the SERVER keyword indicates the name of your Oracle7 Server computer.                                                                                                                             |
| PIPE     | the PIPE keyword indicates the pipe name you use to connect to your Oracle7 Server (the same PIPE keyword you specified on your Oracle7 Server).                                                   |

#### SQL\*Net Example on a Named Pipes Network

The following is an example of the ADDRESS keyword used with the TNS-based product, SQL\*Net. The example is taken from the SQL\*Net configuration file, TNSNAMES.ORA. TNSNAMES.ORA defines the location of Oracle7 Server machines to which a client can connect.

The file below is taken from a client machine that connects to a single Oracle Server named GREENWOOD on a Named Pipes network.

```
GREEN= ( DESCRIPTION=
        ( ADDRESS=
            ( COMMUNITY=NMP . WORLD )
            ( PROTOCOL=NMP )
            ( SERVER=GREENWOOD )
            ( PIPE=dbpipe0 )
        )
        ( CONNECT_DATA= ( SID=ORCL )
        )
    )
```

---

## LISTENER.ORA Overview

Before a database server can receive connections from SQL\*Net version 2 (and later) clients, a network listener must be active on the server platform. The configuration file for the network listener is LISTENER.ORA, which contains four parts:

- the listener name
- definition of the listener address
- description of the databases that use the listener
- parameters that influence the listener's behavior

**Note:** The LISTENER.ORA file should be generated and modified through the Oracle Network Manager for Windows. LISTENER.ORA should not be edited by hand.

### Listener Names

The listener name can be any easy-to-use name. The default listener name is LISTENER, which is the recommended name in a standard installation that requires only one listener on a machine. The listener name must be unique on the network. However, this uniqueness is assured by the fact that the Network Manager appends the name of the node and its domain to the listener name you supply. For example, if there is a listener on a node named RACER and a listener on a node named RABBIT, the Network Manager will append the node names and the domain to their names so that they will be identified as LISTENER\_RACER.WORLD and LISTENER\_RABBIT.WORLD.

The listener name must be unique to the machine. If you have more than one listener on a machine, each of them must have a unique name. The TURTLE node, for example, might have three listeners with the names LSNR1\_TURTLE.WORLD, LSNR2\_TURTLE.WORLD, and LSNR3\_TURTLE.WORLD.

### IPC Addresses for the Listener (Windows NT Only)

The listener listens for interprocess calls (IPC) as well as calls from other nodes. IPC addresses must be included in the LISTENER.ORA file. Oracle Network Manager for Windows generates the IPC entries automatically, without your input.

The IPC address format, which is the same across platforms, is as follows:

```
(ADDRESS=
  (PROTOCOL=IPC)
  (KEY=string)
```

Oracle Network Manager for Windows creates two IPC addresses for each database for which a listener listens. In one, the key value is equal

to the service name. This IPC address is used for connections from other applications on the same node. Service names are described later in this chapter, in the section "TNSNAMES.ORA." In the other IPC address, the key value is equal to the database system identifier (SID), which is described in the next section. This IPC address is used by the database dispatcher to identify the listener.

**Note:** If the service name is the same as the SID, only one IPC address is needed, and Oracle Network Manager for Windows generates only one IPC address.

If the network includes Oracle Names, and if you create an alias (a second service name) for the address using Oracle Network Manager for Windows, an IPC address using the alias as a key is included in the LISTENER.ORA file.

## Describing the Databases on the Listener

The next section of the LISTENER.ORA file describes the system identifiers (SIDs) of the databases for which the listener listens. It is made up of keyword-value pairs.

```
SID_LIST_listener_name=[ (SID_LIST=]
                        (SID_DESC=
                          (SID_NAME=SID)
                          (OS_Oracle_
                           environment=db_location)
                        )
                      [ (SID_DESC=
                        (SID_NAME=SID)
                        (OS_Oracle_environment=db_location)
                      ) ]
                    [ ) ]
```



OS Doc

The *SID* is the Oracle system ID of the database server. In the next keyword-value pair, the keyword is operating system specific: it is indicated here as the variable *OS Oracle environment*. Its value, indicated here as *db\_location*, is the specific location of the database executables.

The following example is for Windows NT:

```
( ORACLE_HOME=C:\ORANT )
```

Another OS\_Oracle\_environment might be:

```
( PROGRAM=ORACLE72 )
```

The following example shows a complete `SID_LIST_listener_name` section for Windows NT:

```
SID_LIST_LISTENER=( SID_LIST=
    ( SID_DESC=
        ( SID_NAME=db1 )
        ( ORACLE_HOME=C:\ORANT )
    )
    ( SID_DESC=
        ( SID_NAME=db3 )
        ( ORACLE_HOME=C:\ORANT )
    )
)
```

**Note:** You can obtain connections to multiple databases in two ways, using one or multiple network listeners: (1) you specifically configure one network listener to multiple databases; (2) you configure multiple network listeners, each for a specific database. All the listeners on a single machine share one LISTENER.ORA file.



**Attention:** For an example of a LISTENER.ORA entry for each of the supported Oracle Protocol Adapters, see Appendix D of this Guide, “Sample Configuration Files.”

To enable servers to function as client in a network that includes distributed databases, the servers require their own TNSNAMES.ORA and SQLNET.ORA files.



---

## Oracle Names Configuration (Windows NT Only)

If a network uses Oracle Names, the TNSNAMES.ORA file is not necessary and Oracle Network Manager for Windows does not generate it. Oracle Names requires the executable and library files mentioned in Chapter 2 and the NAMES.ORA configuration file generated by Oracle Network Manager for Windows.



**Additional Information:** For a description of the NAMES.ORA file, see the *Oracle Names Administrator's Guide*.

When a network includes Oracle Names, Oracle Network Manager for Windows automatically creates a global database link to every server from every other server in the network. These database links are not in the data dictionary, but rather in the network definition to which the Oracle Names servers refer. The database links thus created do not initially include a CONNECT TO clause, so that users reach the linked database using the same usernames and passwords they use to reach the first database. Here is a sample SQL statement illustrating this usage:

```
SQL> SELECT * FROM EMP@Green, DEPT@Red;
```

See *Understanding SQL\*Net* and *Oracle Names Administrator's Guide* for further explanation and examples.

---

## SQLNET.ORA Overview

The SQLNET.ORA file is created for all clients and nodes on the network. It contains five types of information:

- the amount of time between probes sent to determine whether a client-server connection is still alive (dead connection detection)
- optional tracing and logging parameters
- default domains
- client parameters for use with Oracle Names
- other optional parameters

These parameters are described in the following sections.

## Dead Connection Detection

The optional parameter, `SQLNET.EXPIRE_TIME`, determines how often SQL\*Net sends a probe to verify that a client-server connection is still active. If a client is abnormally terminated, a connection remains open indefinitely unless identified and closed by the system. If you specify this parameter, SQL\*Net sends a probe periodically to determine whether there is an invalid connection to terminate. If it finds a dead connection, or a connection no longer in use, it returns an error, causing the server process to exit.

Specify this parameter in the Connection Expire Time field of the Client Profile property sheet of Oracle Network Manager for Windows. Enter the time, in minutes, between probes for a dead connection. The range of possible values is from one to a very large number. However, a value of approximately 10 is recommended. If no value is entered in this field, the broken connections remain indefinitely.

**Note:** The time set in this parameter is not necessarily the amount of time a dead connection will remain. This parameter sets the time between probes for dead connections. Depending on the underlying protocol, shutting down a dead process can take longer.

Dead connection detection has some costs associated with it.

- Additional network traffic is generated to probe for dead connections. A probe packet is very small, but one is sent on each connection at the interval specified in the `SQLNET.EXPIRE_TIME` parameter in the `SQLNET.ORA` file.
- When dead connection detection is enabled, the Oracle Server needs to do additional processing to distinguish the connection probing event from other events. You can test the performance of your application with and without the dead connection detection feature enabled.
- For some protocols, the generic SQL\*Net dead connection detection feature is no better than the native mechanism available in the underlying transport protocol. In that case, it is not necessary to enable it.

In short, you should evaluate carefully whether you would benefit from enabling the dead connection detection feature. It should only be turned on if necessary.

## Optional Tracing Parameters

If you select any optional tracing parameters in the Client Profile property sheet of Oracle Network Manager for Windows, the following parameters appear in the SQLNET.ORA file:

- TRACE\_LEVEL\_CLIENT
- TRACE\_FILE\_CLIENT
- TRACE\_DIRECTORY\_CLIENT

**Note:** You must create or edit the following manually instead of using Oracle Network Manager for Windows: adding tracing parameters for servers to the SQLNET.ORA file; setting optional logging parameters (to specify non-default log file names or locations for client logs or for server logs).

You can also manually add the following optional tracing parameters for the TNSPING utility to SQLNET.ORA. (They produce messages similar to the SQL\*Net trace parameters mentioned above.)

- TNSPING.TRACE\_LEVEL
- TNSPING.TRACE\_DIRECTORY



Messages

For more information about the logging and tracing parameters in SQLNET.ORA, see Chapter 2 of the *Oracle Network Products Messages Manual*.

## Default Domains

Whether or not you are using Oracle Names, the SQLNET.ORA file includes a parameter that shows the default domain.

## Oracle Names Parameters

If you are using Oracle Names, another parameter, NAMES.PREFERRED\_SERVERS, is required. This parameter includes one or more addresses of the Names servers the client prefers to use. Several optional Oracle Names tracing parameters can also appear; they are described in Appendix B of the *Oracle Names Administrator's Guide*. Use Oracle Network Manager for Windows to create these parameters.

## Additional SQLNET.ORA Parameters

The SQLNET.ORA file is used primarily for specifying the Dead Connection Detection parameter, tracing parameters, and default domain information. However, there are additional optional parameters which provide other useful functions. The following parameters must be edited manually in the SQLNET.ORA file; they are not affected by Oracle Network Manager for Windows.

## Turning Off IPCs

If for some reason you do not want IPC addresses to be sought automatically on some nodes in your network, you should add the following parameter to the SQLNET.ORA files for those nodes:

```
AUTOMATIC_IPC=OFF
```

Without this parameter, the default is for a connection which looks for an IPC address.

---

## Starting the Network Listener

Make sure the configuration steps in the previous section have been completed.

### Server operations

For server machines, you, the network administrator, issue the following command to start the network listener:

```
LSNRCTL START listener_name
```

The network listener only stops when you, the network administrator, explicitly stop it. Issue a command of the following form:

```
LSNRCTL STOP listener_name
```

### Client operations

For client machines, using TCP/IP is an automatic result of using a service name whose connect descriptor specifies TCP/IP. For example, a user of SQL\*DBA can request a connection as follows:

```
SQL> CONNECT username/password@service_name
```

When *service\_name* represents a connect descriptor that specifies TCP/IP, the connection is requested and established using that protocol. No explicit start, load, or call is necessary on a client machine.