

DATABASE ADMINISTRATION

Lab 1 - Database administrator tools

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Oracle Database Administrator Tools - SQL * Plus

1.

The SQL Developer and Data Modeler scripts are in the directory:
/home/oracle/Desktop/SQLDev_Tutorials/sqldev

To Reset the labs:

SQL Developer: /home/oracle/reset_sqldev
Application Express: /home/oracle/reset_apex
In-Memory Database Cache: /home/oracle/reset_imdbcache
XML Database: /home/oracle/reset_xmlldb

Oracle Enterprise Manager

Start: emctl start dbconsole

Stop : emctl stop dbconsole

URL : https://127.0.0.1:1158/em

*** Please note that this appliance is for testing purposes only,
as such it is unsupported and should not be used as a production environment.

```
inet addr:10.0.2.15 Bcast:10.0.2.255 Mask:255.255.255.0
```

```
inet addr:127.0.0.1 Mask:255.0.0.0
```

```
[oracle@localhost ~]$ sqlplus
```

SQL*Plus: Release 11.2.0.2.0 Production on Sun Oct 10 13:26:04 2021

Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: hr

Enter password:

Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

2.

SQL> desc user_objects

Name	Null?	Type
OBJECT_NAME		VARCHAR2(128)
SUBOBJECT_NAME		VARCHAR2(30)
OBJECT_ID		NUMBER
DATA_OBJECT_ID		NUMBER
OBJECT_TYPE		VARCHAR2(19)
CREATED		DATE
LAST_DDL_TIME		DATE
TIMESTAMP		VARCHAR2(19)
STATUS		VARCHAR2(7)
TEMPORARY		VARCHAR2(1)
GENERATED		VARCHAR2(1)
SECONDARY		VARCHAR2(1)
NAMESPACE		NUMBER
EDITION_NAME		VARCHAR2(30)

3.

SQL> disconn

Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> conn

Enter user-name: hr as sysdba

Enter password:

4.

SQL> select username from dba_users;

USERNAME

SPATIAL_WFS_ADMIN_USR

DIP

IX

MDDATA

ORACLE_OCM

SPATIAL_CSW_ADMIN_USR

PM

BI

XS\$NULL

OLAPSYS

OWBSYS

USERNAME

ORDPLUGINS

OWBSYS_AUDIT

APPQOSSYS

EXFSYS

ORDSYS

.

.

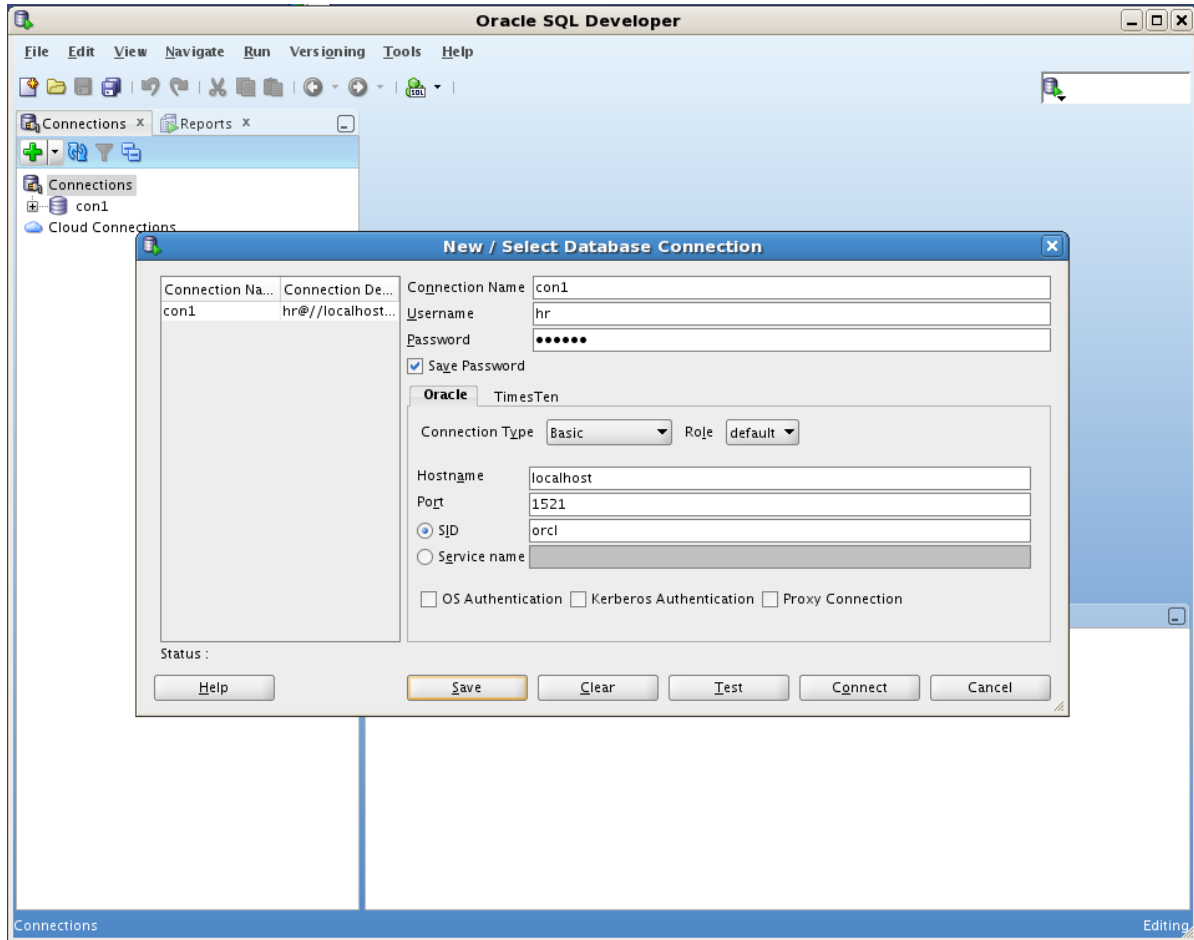
.

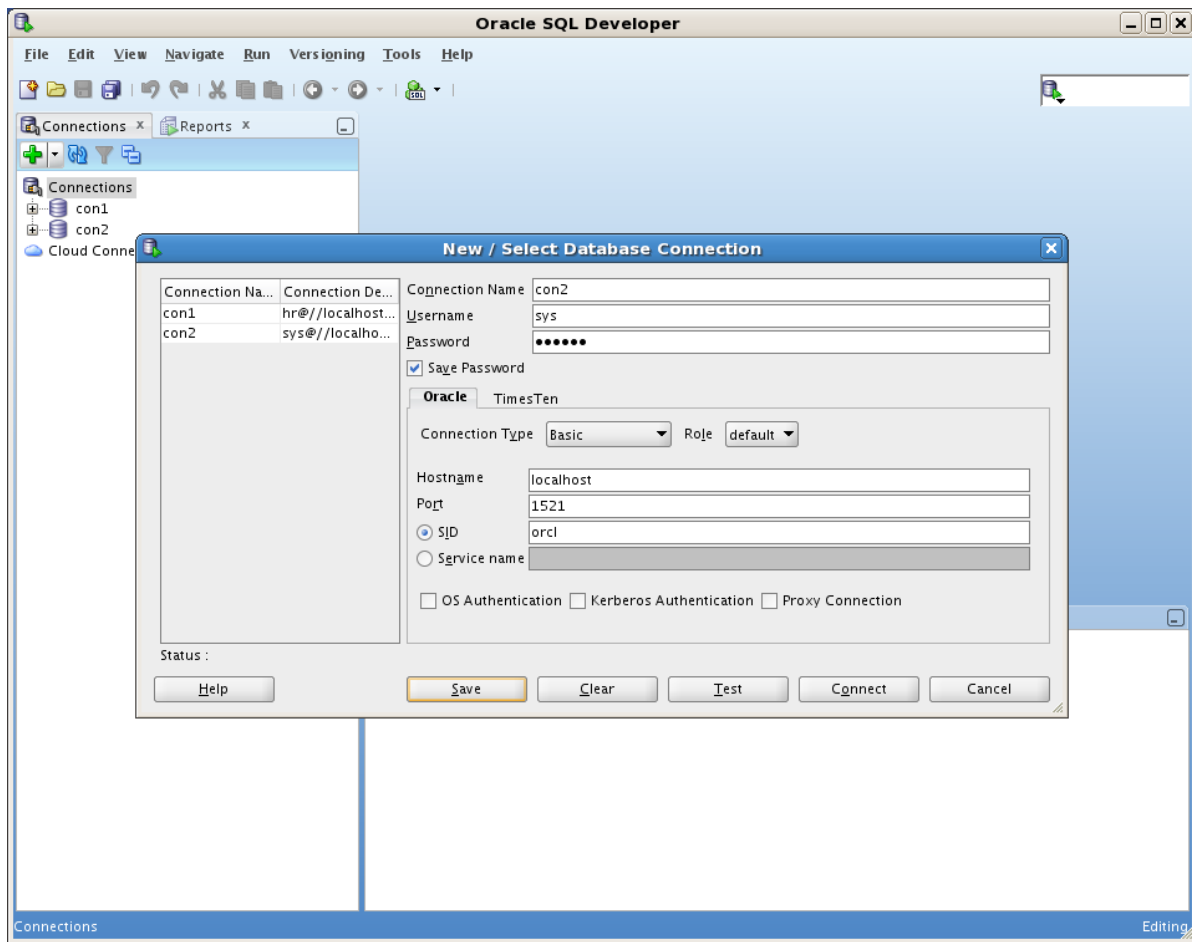
5

```
SQL> disconn
Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> exit
[oracle@localhost ~]$
```

Oracle Database Administrator Tools - SQL Developer

1.





Oracle Database Administrator Tools - Enterprise Manager

1.

```
[oracle@localhost ~]$ emctl status dbconsole
Oracle Enterprise Manager 11g Database Control Release 11.2.0.2.0
Copyright (c) 1996, 2010 Oracle Corporation. All rights reserved.
https://localhost.localdomain:1158/em/console/aboutApplication
Oracle Enterprise Manager 11g is not running.
-----
Logs are generated in directory /home/oracle/app/oracle/product/11.2.0/
```

2.

```
[oracle@localhost ~]$ emctl start dbconsole
Oracle Enterprise Manager 11g Database Control Release 11.2.0.2.0
Copyright (c) 1996, 2010 Oracle Corporation. All rights reserved.
https://localhost.localdomain:1158/em/console/aboutApplication
- An instance of Oracle Enterprise Manager 11g Database Control is already running.
```

3.

Oracle Enterprise Manager (SYS)...

ORACLE Enterprise Manager 11g Database Control

Setup Preferences Help Logout

Database

Logged in As SYS

Database Instance: orcl

Home Performance Availability Server Schema Data Movement Software and Support

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General

Shutdown Black Out

Up

Status Up

Up Since Feb 23, 2011 12:58:04 PM PST

Instance Name orcl

Version 11.2.0.2.0

Host localhost.localdomain

Listener LISTENER_localhost.localdomain

View All Properties

Host CPU

1.0

0.5

0.0

Loading...

Load 0.00 Paging 0.00

Active Sessions

1.0

0.5

0.0

Loading...

Core Count 1

SQL Response Time

1.0

0.5

0.0

Loading...

SQL Response Time (%)

Edit Reference

Diagnostic Summary

ADDM Findings 0

Alert Log No ORA- errors

Active Incidents 0

Key SQL Profiles 0

Database Instance Health

Space Summary

Database Size (GB) 2,579

Problem Tablespaces 0

Segment Advisor 0

Recommendations 0

Policy Violations 0

Dump Area Used (%) 62

High Availability

Console Details

Oracle Restart n/a

Instance Recovery Time (sec) 11

Last Backup n/a

Usable Fast Recovery Area (%) 100

Flashback Database Logging Disabled

Alerts

Category All Go Critical 0 Warning 10

Severity	Category	Name	Impact	Message	Alert Triggered
Warning	Invalid Objects by Schema	Owner's Invalid Object Count		9 object(s) are invalid in the OLAPSYS schema.	Feb 8, 2011 4:15:24 PM
Warning	Invalid Objects by Schema	Owner's Invalid Object Count		8 object(s) are invalid in the SYS schema.	Feb 8, 2011 4:15:24 PM

Oracle Enterprise Manager (SYS)...

ORACLE Enterprise Manager 11g Database Control

Setup Preferences Help Logout

Database

Database Instance: orcl > Logged in As SYS Cancel OK

Startup/Shutdown:Specify Host and Target Database Credentials

Specify the following credentials in order to change the status of the database.

Host Credentials

Specify the OS user name and password to login to target database machine.

* Username oracle

* Password *****

Database Credentials

Specify the credentials for the target database.

To use OS authentication, leave the user name and password fields blank.

* Username sys

* Password *****

Database orcl

* Connect As SYSDBA

☐ Save as Preferred Credential

Note that you need to login to the database as SYSDBA or SYSOPER in order to change the status of the database.

Cancel OK

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager

Database Control

Database

Database Instance: orcl >

Logged in As SYS

Startup/Shutdown: Confirmation

Current Status **open**

Operation **shutdown immediate**

Are you sure you want to perform this operation?

Show SQL
Advanced Options
No
Yes

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager

5.

Database Instance: orcl

Enterprise Manager is not able to connect to the database instance. The state of the components are listed below.

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Database Instance

Status **Down**
 Host **0.0.0.0**
 Port **1521**
 SID **orcl**
 Oracle Home **/home/oracle/app/oracle/product/11.2.0/dbhome_2**

Startup
Perform Recovery

Details **There has been a user-initiated shutdown.**

Listener

Status **Down**
 Host **0.0.0.0**
 Port **1521**
 Name **LISTENER**
 Oracle Home **/home/oracle/app/oracle/product/11.2.0/dbhome_2**
 Location **/home/oracle/app/oracle/product/11.2.0/dbhome_1/network/admin**

Start Listener

Details Although a Listener with name "LISTENER", is running on this host at port: "1521", it was not started using this target's "LISTENER.ORA" file. CORRECTIVE ACTION: To monitor this "EM Listener Target" with its present configuration, you must stop the currently running listener process, and start it again using the Listener Parameter file: /home/oracle/app/oracle/product/11.2.0/dbhome_1/network/admin/listener.ora . Alternatively, you can update this target's "LISTENER.ORA Location" parameter with the location of the currently running Listener, which was started using: /home/oracle/app/oracle/product/11.2.0/dbhome_2/network/admin/listener.ora

Agent Connection to Instance

Status **Failed**
 Details **ORA-12505: TNS:listener does not currently know of SID given in connect descriptor (DBD ERROR: OCIServerErrorAttach)**

Related Links

Done

6.

Database Instance: orcl

Alert History

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View Data

Last 24 hours

Metric	History
Owner's Invalid Object Count	

3:08 6 9 12 AM 3 6 9 12 PM 3

Oct 9, 2021 10

Key

- Critical
- Warning
- Clear
- No Data

Database | Setup | Preferences | Help | Logout

8. a

Memory Advisors

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When Automatic Memory Management is enabled, the database will automatically set the optimal distribution of memory. The distribution of memory will change from time to time to accommodate changes in the workload.

Automatic Memory Management **Enabled** [Disable](#)Total Memory Size MB [Advice](#)Maximum Memory Size MB

The database must be restarted before any changes to this value take effect.

Allocation History

This chart shows the history of the components of the Memory...

8. b

Current Allocation

Automatic Shared Memory Management **Enabled**Total SGA Size (MB) **284**

SGA Component	Current Allocation (MB)
Shared Pool	172
Buffer Cache	76
Large Pool	8
Java Pool	4
Other	24

