Teradata DBMS Quick Reference Guide

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SYNTAX CONVENTIONS

- Uppercase characters indicate keywords.
- Lower case characters indicate that a value or name is to be substituted in their place.
- Underscores indicate the default value.
- Special characters, including blanks, are required as shown unless specified otherwise.
- Braces {} indicate a choice of options; one of these choices must be entered.
- A vertical bar | indicates alternatives (same as braces, but on one line)
- Brackets [] indicate an optional entry.
- Horizontal ellipses indicate a phrase that can be repeated.
- Vertical ellipses indicate omitted portions of the statement or command.

TERADATA SQL STATEMENTS

SQL statements are listed alphabetically. Defaults are underscored.

```
ABORT ['msgtext'] [FROM tname] [WHERE cond]
ALTER TABLE [dbname.]tname [,option [...,option]]
                                                                                      } ]
                   {datadesc }
   [ { ADD { cname {constraint}}
                                                                                      } ]
          { NULL }
   [ {
                                                                                      } ]
         { [CONSTRAINT name] constraint }
                                                                                      } ]
   [ { ADD RANGE BETWEEN range [..., range] [,NOT IN RANGE [OR UNKNOWN]] [,UNKNOWN]
                                                                                      } ]
   [ { cname
                                                                                      } ]
   [ { DROP { [cname ] constraint }
                                                                                      } ]
   [ { [CONSTRAINT name]
                                                                                      } ]
          { INCONSISTANT REFERENCES
                                                                                      } ]
   [ { DROP RANGE { WHERE expr [..., expr]
                { BETWEEN range [..., range] }[,NOT IN RANGE [OR UNKNOWN]] [,UNKNOWN]
   [ { MODIFY {cname
                           } CHECK expr
                                                                                      } ]
   [ { CONSTRAINT name}
   [ { MODIFY [UNIQUE] PRIMARY INDEX [idxname | (cname [..., cname])]
                                                                                      } ]
             { NOT PARTITIONED
             { PARTITION BY partexpr [WITH {DELETE | INSERT [INTO] tname}] }
                       } TO name
   [ { RENAME { cname
                                                                                      } ]
             {CONSTRAINT name}
                                                                                      } ]
   [ { REVALIDATE PRIMARY INDEX [WITH {DELETE | INSERT [INTO] tname}]
                                                                                      } ]
Any of the following options may be listed in any order:
   [NO] FALLBACK [PROTECTION]
   [NO ] [NO ] [NO ] ] [ UDINAL [ DUAL ] AFTER JOURNAL ]
                          [ [[NOT] LOCAL]
   [DUAL]
   WITH JOURNAL TABLE = [dbname.] tname
   [ FREESPACE = n [PERCENT] ]
   [ DEFAULT FREESPACE
   [ DATABLOCKSIZE = n [ BYTES ] ] ]
          [ KILOBYTES ] ]
   [ { MINIMUM }
                                    | [ IMMEDIATE ]
   [ { MAXIMUM } DATABLOCKSIZE
   [ { DEFAULT }
The following options apply to Temporary tables only:
   [NO] LOG
   ON COMMIT { DELETE | PRESERVE } ROWS
ALTER TRIGGER [dbname.]name {DISABLED}
```

{ENABLED }

```
BEGIN INDEX ANALYSIS [ ON tname [..., tname] ] FROM workloadname INTO qcdname
   [ AS indextag ]
                { "Indexes Per Table"
                { "Tables Per Request"
                  "Search Space"
   [ SET MAXIMUM { "Change Rate"
                                        \} = n [ ... ] ;
                { "Columns Per Index"
                { "NUSI Selectivity " }
                { "VOSI Typical Percent" }
      only INSERT EXPLAIN NEW INDEX statements may be used here
  END INDEX ANALYSIS;
BEGIN INSERT WORKLOAD INTO qcdname AS workloadname ;
      only INSERT EXPLAIN statements may be used here
  END WORKLOAD:
                                        [FIRST
                                                     ] {ALL
                                                ] {GRANT
{BEGIN} LOGGING [DENIALS] [WITH TEXT] ON [LAST
                                        [FIRST AND LAST] {priv [...,priv]}
{END }
                                        [EACH ]
                                   { DATABASE dbname
                                   { USER userid }
   [ BY userid [..., userid] ] [ ON { TABLE [dbname.]name } ]
                                   { VIEW [dbname.]name }
                                   { MACRO [dbname.]name }
{BEGIN} QUERY LOGGING on ***TODO***
{ END }
{ BEGIN TRANSACTION }
                                                   { END TRANSACTION }
{ BT
                   } ; statement; [... statement;] { ET
                                                                     };
CALL [dbname.]tname ( [parm [(attributes)] [... ,parm [(attributes)] ] ] )
CHECKPOINT tname [ , NAMED chkptname ]
COLLECT { STAT[ISTICS] | STATS } [ FOR SAMPLE percent [ PERCENT ] INTO qcdname ]
                              [ COLUMN cname
        [ON] [TEMPORARY] tname [ INDEX name
                             [ INDEX (cname [...,cname] ) ]
            [ DATABASE ]
            [ USER
                      ]
                           [ [ AS ]
            [ TABLE
                      ]
COMMENT [ON] [ VIEW ] objname [ [ ] 'string' ]
                      ] [[IS]
            [ MACRO
            [ COLUMN
            [ TRIGGER ]
```

```
{ CREATE DATABASE }
                 } dbname [FROM ownerdb]
  AS PERM[ANENT] = n [BYTES]
   [ [, ] option [... [, ] option] ]
Any of the following options may be listed in any order:
   SPOOL = n [BYTES]
   TEMPORARY = n [BYTES]
   ACCOUNT = 'acctid'
   [NO] FALLBACK [PROTECTION]
                          [ [NO ] ] [ [DUAL ] AFTER JOURNAL ]
                           [ [NO
   [ ] [BEFORE] JOURNAL
   [DUAL]
                           [ [[NOT] LOCAL]
   DEFAULT JOURNAL TABLE = [dbname.]tname
CREATE [UNIQUE] INDEX [name] [ALL] (cname [..., cname ] )
              {VALUES (cname)}
   [ ORDER BY {HASH (cname) } ]
                      (cname) }
   [ ... [UNIQUE] INDEX [name] (cname [..., cname ] ) ]
   ON [TEMPORARY] tname
CREATE HASH INDEX name (cname [..., cname ])
   ON tname
   BY (cname)
   ORDER BY HASH (cname)
CREATE JOIN INDEX name [, FALLBACK] AS
           { cname
                      (cname) AS alias
           { SUM
          { COUNT
   SELECT
                      (cname) AS alias
                                                     [..., cname ]
           { { EXTRACT (YEAR FROM datecol) AS alias }
           { (cname [..., cname]) , (cname [..., cname])
           { tname [[AS] aname ] [..., tname [[AS] aname ]] }
           FROM
             [ RIGHT [OUTER] ]
   [ WHERE cond ]
   [ GROUP BY (cname [..., cname]) ]
   [ ORDER BY (cname) ]
   [ PRIMARY INDEX [idxname] (cname [..., cname ] ) ] [ ORDER BY [HASH ] [(cname)] ]
                                                                [VALUES]
   [ INDEX [idxname] [ALL] (cname [..., cname ] ) ] [ ORDER BY [HASH ] [(cname)] ]
                                                                [VALUES]
```

```
{ CREATE MACRO }
              } macroname
{ CM
[ (pname datadesc [..., pname datadesc ] ) ]
AS ([USING clause] [LOCKING clause] statement; [... statement; ])
CREATE PROFILE name [ AS option [ ... , option ] ]
Any of the following options may be listed in any order:
             { 'accountid'
   ACCOUNT = { ('accountid' [ ... , 'account id' ]) }
            { NULL
   DEFAULT DATABASE = { databasename | NULL }
   SPOOL = \{ n [BYTES] | NULL \}
   TEMPORARY = { n [BYTES] | NULL }
   PASSWORD [ATTRIBUTES] = { (attrib = val | NULL, [ ... ,attrib = val | NULL ]) | NULL }
where attrib is one of the following, in any order:
  EXPIRE = n
                          (0 to 32767)
  MINCHAR = n
                          (1 to 30)
                          (1 to 30)
  MAXCHAR = n
   DIGITS = Y | N
  SPECCHAR = Y | N
  MAXLOGONATTEMPTS = n
                         (0 to 256)
  LOCKEDUSEREXPIRE = n
                         (-1 to 32767)
  REUSE = n
                          (0 to 32767)
                                                      { [IN]
{ INOUT }
                                                        { INOUT }
   [label:] BEGIN [[NOT] ATOMIC]
      [ variable declarations ]
      [ error handler ]
      SPL Statement; [..., SPL Statement;]
   END [label] ;
CREATE ROLE rolename ;
              ] [VOLATILE ]
       [SET
CREATE [MULTISET] [GLOBAL TEMPORARY] TABLE tname [,option [...,option]]
   ( cname Datadesc [ColumnConstraint] [..., cname Datadesc [ColumnConstraint] ]
     [ , TableConstraint ] [... , TableConstraint]
   [ [UNIQUE] PRIMARY INDEX [name] ( cname [..., cname]) [PARTITION BY partexpr] ]
   [ ... [,] [UNIQUE] INDEX [name] ( cname [..., cname] ) ]
                                                        { [VALUES]
   [ ... [,] INDEX [name] ( cname [... ,cname] ) ORDER BY {[HASH ] (cname) } ]
   [ON COMMIT { DELETE } ROWS ]
              { PRESERVE }
                                                    ← Applies to Temporary tables only
```

Any of the following options may be listed in any order:

```
[NO] FALLBACK [PROTECTION]
                          [ [NO
                         [ [DUAL
    ] [BEFORE] JOURNAL
                                        ] AFTER JOURNAL ]
                          [ [[NOT] LOCAL]
[DUAL]
WITH JOURNAL TABLE = [dbname.]tname
FREESPACE = n [PERCENT]
                     [ BYTES
[ DATABLOCKSIZE = n [ KBYTES
                               1 1
                    [ KILOBYTES ] ] [ IMMEDIATE ]
[ { MINIMUM }
[ { MAXIMUM } DATABLOCKSIZE
                                   ]
                                                    ← Applies to Temporary tables only
[NO] LOG
```

TableConstraint can be any of the following:

ColumnConstraint can be any of the following:

```
[CONSTRAINT name] {PRIMARY KEY}
{UNIQUE }

[CONSTRAINT name] CHECK (expr operator expr)

[CONSTRAINT name] REFERENCES [dbname.]tname [( cname [..., cname] )]
```

Datadesc consists of a Data Type and additional optional phrases:

```
Data Types:
           BYTEINT
                           SMALLINT
                                           INTEGER
                                                             FLOAT [(n)]
           DECIMAL(n [,m]) NUMERIC(n [,m]) DATE
                                                            REAL [(n)]
                           VARCHAR(n) LONG VARCHAR
                                                             CHAR VARYING(n)
           CHAR(n)
           BYTE(n)
                                          DOUBLE PRECISION
                           VARBYTE(n)
           GRAPHIC(n)
                           VARGRAPHIC(n) LONG VARGRAPHIC
           TIMESTAMP[(n)]
                           TIME[(n)]
                                           INTERVAL type[n] [TO type[n]]
```

Optional phrases (general):

```
NOT NULL
FORMAT 'string'
TITLE 'string'
NAMED name

COMPRESS {value | NULL }
[ DEFAULT {value | NULL | USER | DATE | TIME} ]
[ WITH DEFAULT ]
```

Optional phrases (character columns only):

```
UPPERCASE | UC
[NOT] CASESPECIFIC | CS
CHARACTER SET { LATIN | UNICODE | KANJISJIS | GRAPHIC | KANJI1 }
```

```
[SET ] [VOLATILE
CREATE [MULTISET] [GLOBAL TEMPORARY] TABLE tname [,option [...,option]]
  AS { [dbname.]tname } WITH [NO] DATA
    { (select statement) }
[DISABLED] {INSTEAD OF} {UPDATE [OF (cname [..., cname])] }
  ON [dbname.]tname [ORDER integer]
  [ [ REFERENCING OLD TABLE [AS] name NEW TABLE [AS] name ] FOR EACH STATEMENT ]
  [ WHEN condition ]
   ( command; [..., command;])
CREATE USER username [FROM ownerdb]
  AS PERM[ANENT] = n [BYTES] [,] PASSWORD = { NULL }
  [ [,] option [... [,] option] ] ;
Any of the following options may be listed in any order:
  SPOOL = n [BYTES]
  TEMPORARY = n [BYTES]
  STARTUP = 'string;'
          { 'acctid'
  ACCOUNT = {
           { ('acctid' [...,'acctid'] ) }
  DEFAULT DATABASE = dbname
  [NO] FALLBACK [PROTECTION]
  [ [[NOT] LOCAL]
  DEFAULT JOURNAL TABLE = [dbname.]tname
  COLLATION = { ASCII | EBCDIC | MULTINATIONAL | HOST | CHARSET COLL | JIS COLL }
  DATEFORM = { ANSIDATE | INTEGERDATE }
  TIME ZONE = { LOCAL | NULL | [-] 'hh:mm' }
  DEFAULT CHARACTER SET { LATIN | UNICODE | KANJISJIS | GRAPHIC | KANJI1 }
{ CREATE VIEW }
            } viewname [ (cname [...,cname] ) ] AS
{ CV
  [LOCKING clause] SELECT statement [GROUP BY clause] [HAVING clause]
  [WITH CHECK OPTION] [ORDER BY clause]
```

Note - no WITH clause is allowed on the select statement.

DATABASE dbname

```
[ WHERE cond ]
DEL[ETE] FROM tname [[AS] aname]]
                                [ ALL
        { DATABASE }
{DUMP COSTS sysname ['comment'] }
DIAGNOSTIC {HELP COSTS
                    { NOT } {REQUEST}
          {SET COSTS {sysname} ON FOR {SESSION} }
                    { TPA } {SYSTEM }
DIAGNOSTIC ValidateIndex ON FOR SESSION;
      only CREATE INDEX and COLLECT STATISTICS statements may be used here
  DIAGNOSTIC ValidateIndex NOT ON FOR SESSION;
    { DATABASE
    { JOIN INDEX
                }
} name
    { MACRO
DROP { PROCEDURE
    { [TEMPORARY] TABLE }
    { TRIGGER }
    { USER
    { VIEW
DROP INDEX [ALL] { ( cname [..., cname ] ) }
               { IdxName
  [ ORDER BY {VALUES} ] ON [TEMPORARY] tname
           {HASH }
                                            [ COLUMN cname
DROP STATISTICS [FROM qcdname] [ON] [TEMPORARY] tname [ INDEX IdxName
                                                 [ INDEX(cname [...,cname] ) ]
    { 'string'
ECHO {
    { 'command' }
                   [ (expr [...,expr ] )
EXEC[UTE] macroname
                   [ (pname=expr [...,pname=expr ] ) ]
GIVE name TO recipientname
     { ALL [PRIVILEGES]
GRANT { privilege [...,privilege ]
     { ALL BUT privilege [..., privilege] }
```

```
{ [ALL] name [...,[ALL] name] }
      [ ON { dbname.objname
                             ] TO
                                     PUBLIC
           { objname
      [WITH GRANT OPTION]
GRANT rolename [ ..., rolename ] TO user [ ..., user ] [WITH ADMIN OPTION]
      { MONITOR [ PRIVILEGES ]
GRANT { monpriv [ ..., monpriv ]
      { MONITOR BUT NOT monpriv [ ..., monpriv ] }
       TO [ALL] name [ ..., [ALL] name ] [WITH GRANT OPTION]
               { hostid [...,hostid] }
GRANT LOGON ON {
                         ALL
               AS DEFAULT
                                    } [WITH NULL PASSWORD]
      { TO username [...,username] }
                   COLUMN
                              cname [...,cname] FROM tname [...,tname]
                              * FROM [dbname.]tname [...,tname]
                   COLUMN
                            [dbname.]tname.cname [...,tname.cname] [dbname.]tname.*
                   COLUMN
                   COLUMN
                   CONSTRAINT [dbname.]tname
                   DATABASE dbname
       [TEMPORARY] INDEX
                              [dbname.]tname [(cname [...,cname])]
       [TEMPORARY] INDEX
                              [dbname.]idxname
HELP
                   JOIN INDEX [dbname.]idxname
                   MACRO
                              [dbname.]macroname
                   PROCEDURE [dbname.]tname [ATTR[IBUTES]]
                   SESSION
                                                      [FROM qcdname
       [TEMPORARY] STATISTICS [USING SAMPLE] tblname [COLUMN cname
                                                     [INDEX (cname [..., cname])]
                   TABLE
                              [dbname.]tblname
                   TRIGGER
                              [dbname.]trigname
                   VIEW
                              [dbname.]viewname
                   VOLATILE
                              TABLE
                   USER
                              username
       { ARCHIVE
       { BULKLOAD
       { DUMP
       { FASTLOAD
       { FASTEXPORT }
HELP ' { HELP
                    } [ CommandName ] '
       { MULTILOAD
       { PMPC
       { SPL
       { SQL
       { TPCCONS
```

```
[VALUES] (expr [...,expr] ) }
                       { (cname [...,cname]) VALUES (expr [...,expr]) } { [ (cname [...,cname]) ] subquery }
INS[ERT] [INTO] tname {
                       { DEFAULT VALUES
MODIFY DATABASE dbname
   AS option [... [,] option ] ;
Any of the following options may be listed in any order:
   PERM[ANENT] = n [BYTES]
   SPOOL = n [BYTES]
   TEMPORARY = n [BYTES]
   ACCOUNT = 'acctid'
   [NO] FALLBACK [PROTECTION]
                              [ [NO
        ] [BEFORE] JOURNAL [ [DUAL
                                         ] AFTER JOURNAL ]
                              [ [[NOT] LOCAL]
   [DUAL]
   [DEFAULT JOURNAL TABLE = [dbname.]tname ]
   [DROP DEFAULT JOURNAL TABLE [= tname]
MODIFY PROFILE name [ AS option [ ... , option ] ]
Any of the following options may be listed in any order:
              { 'accountid'
   ACCOUNT = { ('accountid' [ ... , 'account id' ]) }
              { NULL
   DEFAULT DATABASE = { databasename | NULL }
   SPOOL = { n [BYTES] | NULL }
   TEMPORARY = { n [BYTES] | NULL }
   PASSWORD [ATTRIBUTES] = { (attrib = val | NULL, [ ... ,attrib = val | NULL ]) | NULL }
where attrib is one of the following, in any order:
   EXPIRE = n
                             (0 to 32767)
   MINCHAR = n
                             (1 to 30)
   MAXCHAR = n
                             (1 to 30)
   DIGITS = Y | N
   SPECCHAR = Y | N
```

MAXLOGONATTEMPTS = n (0 to 256) LOCKEDUSEREXPIRE = n (-1 to 32767)

(0 to 32767)

REUSE = n

```
AS option [... [,] option ] ;
```

Any of the following options may be listed in any order:

```
PERM[ANENT] = n [BYTES]
  PASSWORD = { name | NULL }
  SPOOL = n [BYTES]
  TEMPORARY = n [BYTES]
  STARTUP = { 'string' | NULL }
           { 'acctid'
  ACCOUNT = {
            { ('acctid' [..., 'acctid'] ) }
  DEFAULT DATABASE = dbname
  [NO] FALLBACK [PROTECTION]
       [ [<u>NO</u>
                          [ [[NOT] LOCAL]
   [DEFAULT JOURNAL TABLE = [dbname.]tname ]
   [DROP DEFAULT JOURNAL TABLE [= tname]
  RELEASE PASSWORD LOCK
  COLLATION = { ASCII | EBCDIC | MULTINATIONAL | HOST | CHARSET COLL | JIS COLL }
  DATEFORM = { ANSIDATE | INTEGERDATE }
  TIME ZONE = { LOCAL | NULL | [-] 'hh:mm' }
  DEFAULT CHARACTER SET { LATIN | UNICODE | KANJISJIS | GRAPHIC | KANJI1 }
      { MACRO
RENAME { PROCEDURE } oldname { TO } newname
      { TABLE } { AS }
      { TRIGGER }
      { VIEW
REPLACE MACRO macroname
  [ (pname datadesc [...,pname datadesc ] ) ]
  AS ([USING clause] [LOCKING clause] statement; [... statement; ])
```

```
{ INOUT }
  [label:] BEGIN [[NOT] ATOMIC]
    SPL Statement; [..., SPL Statement;]
  END [label:] ;
[DISABLED] { INSTEAD OF } { UPDATE [OF cname [..., cname]] }
  ON [dbname.]tname [ ORDER integer ]
  [ [ REFERENCING OLD [AS] name NEW [AS] name ] FOR EACH ROW
  [ [ REFERENCING OLD TABLE [AS] name NEW TABLE [AS] name ] FOR EACH STATEMENT ]
  [ WHEN condition ]
  ( command; [..., command;])
REPLACE VIEW viewname [ (cname [..., cname] ) ] AS
  [LOCKING clause] SELECT statement
  [WITH CHECK OPTION]
  Note - no WITH clause is allowed on the select statement.
                    { ALL [PRIVILEGES]
REVOKE [GRANT OPTION FOR] { privilege [...,privilege] }
                    { ALL BUT privilege [..., privilege] }
    { dbname } {FROM} { [ALL] name [..., [ALL] name] }
   ON { dbname.objname } { } {
    { objname } { TO } { PUBLIC
                    { MONITOR [ PRIVILEGES ]
REVOKE [GRANT OPTION FOR] { monpriv [ ..., monpriv ]
                    { MONITOR BUT NOT monpriv [ ..., monpriv ] }
     { FROM } [ALL] name [ ..., [ALL] name ]
     { TO }
            { hostid [...,hostid] } { AS DEFAULT
ROLLBACK [WORK] ['msgtext'] [FROM tname [ ..., tname ]] [WHERE cond ] ;
```

```
[DISTINCT] { tname.* [...,tname.* ] }
    [ tname [[AS] aname] ]
 [ tname CROSS JOIN tname
     [ (subquery) [AS] aname ([cname] [...,cname]) ]
               {operator} [ANY]
      [WHERE
      { [NOT] EXISTS subquery
                                    } [... AND cond]
      { comparison
  { col-pos } { col-pos }
  [HAVING cond ]
  [QUALIFY cond ]
  [SAMPLE n [..., n]]
  [WITH expr [..., expr] [ BY expr [..., expr] ] ]
SET SESSION ACCOUNT 'acct-id' FOR { SESSION | REQUEST }
{ SET SESSION } [ ASCII
               [ ASCII ]
[ EBCDIC ]
{ COLLATION [ MULTINATIONAL ]
               [ HOST ]
               [ CHARSET COLL ]
               [ JIS COLL ]
SET SESSION DATEFORM = { ANSIDATE | INTEGERDATE }
{ KANJISJIS } { n }
              { GRAPHIC
SET SESSION OVERRIDE REPLICATION { ON | OFF }
     { LOCAL
SET TIME ZONE { USER
      { INTERVAL [-] 'hh:mm' HOUR TO MINUTE }
```

```
{ JOIN INDEX }
SHOW { PROCEDURE } name { TARLE
     { TRIGGER
     { VIEW
SHOW dml-statement
UPD[ATE] tname [[AS] aname]
   [ FROM tname [[AS] aname] [...,tname [[AS] aname] ] ]
 SET cname = expr [..., cname = expr]
   [ WHERE cond ]
   [ ALL
UPDATE tname
    SET cname = expr [..., cname = expr]
  [ WHERE cond ]
ELSE
INSERT INTO tname [ (colname [..., colname] ) ]
   VALUES (expr [..., expr])
```

SQL STATEMENT MODIFIERS

The following modifiers can be used with any SQL statement.

Note - To use ROW locking, the statement must be a SELECT statement that uses a UNIQUE index. (Preparing for an UPDATE of that row)

```
DUMP EXPLAIN INTO qcdname [ AS queryname ] statement

INSERT EXPLAIN [WITH [NO] STAT[ISTICS] [AND DEMOGRAPHICS] FOR (tname [..., tname]]) ]

INTO (qcdname) [ AS (queryname) ]

[ LIMIT [ SQL [ = n] ] ]

[ FOR (frequency) ] statement

INSERT EXPLAIN NEW INDEX { FOR queryid | ALL } <== only valid after BEGIN INDEX ANALYSIS

LOCK[ING] { [DATABASE] dbname } [FOR] { EXCL[USIVE] }

LOCK[ING] { [TABLE] tname } [ ] { SHARE } [MODE] [NOWAIT] statement { [VIEW] vname } [IN] { READ } { ROW } { WRITE } }

USING ( name datadesc [..., name datadesc ] ) request
```

STORED PROCEDURE LANGUAGE

SPL statements are listed alphabetically. Variables used within SQL statements must be prefixed by a semi-colon.

The following system variables may be referenced:

```
SQLCODE
           SQLSTATE
                         ACTIVITY COUNT
CALL [dbname.]procname (arg [..., arg])
CASE expr
   WHEN val THEN
        statement; [... statement;]
  [ WHEN val THEN
         statement; [... statement;] ] ...
        statement; [... statement;] ]
END CASE ;
CASE
   WHEN cond THEN
        statement; [... statement;]
  [ WHEN cond THEN
        statement; [... statement;]] ...
         statement; [... statement;] ]
END CASE ;
CLOSE CURSOR cursorname ;
DECLARE {CONTINUE} HANDLER FOR {SQLSTATE 'nnnnn' [..., SQLSTATE 'nnnnn']}
                              {SQLEXCEPTION
       { EXIT }
                               {NOT FOUND
   { statement
   { BEGIN statement; [... statement;] END} ;
DECLARE varname [..., varname] datatype [DEFAULT literal | NULL];
DECLARE cursorname [[NO]SCROLL] CURSOR FOR
   SelectStatement
   [ FOR {READ ONLY | UPDATE} ] ;
FETCH [FIRST | NEXT] FROM cursorname INTO var1 [..., varn];
[label:] FOR var AS [ cursorname CURSOR FOR ] selectstatment DO
  statement; [... statement;]
END FOR [label] ;
```

```
IF cond THEN
  statement; [... statement;]
[ ELSEIF cond THEN
  statement; [... statement;]] ...
[ ELSE
  statement; [... statement;] ]
END IF ;
ITERATE label ;
LEAVE label ;
[label:] LOOP
 statement; [... statement;]
END LOOP [label] ;
OPEN cursorname ;
REPEAT
  statement; [ ... statement;]
  UNTIL cond
END REPEAT;
SELECT expr [..., expr]
  INTO :var [..., :var] FROM tname
  WHERE cond
SET varname = expression ;
[label:] WHILE cond DO
 statement; [...,statement;]
END WHILE [label] ;
```

BTEQ COMMANDS

BTEQ commands are listed alphabetically. Defaults are underscored. Quoted strings may use either single (') or double (") quote marks.

```
.ABORT
          SUBSET
.CMS
        [ cms-command ]
        { FILE } { 'filename'} { SPL }
.COMPILE { DD } [=] { filename } [ WITH { PRINT } ]
        {DDNAME} {"filename"} { NOSPL }
                                        {NOPRINT}
        [ ERRORLEVEL ]
.EXIT
        [ ERRORCODE ]
        [ ACTIVITYCO ]
        { DATA
        { INDICDATA } { DDNAME} = name [,LIMIT=n] [,{CLOSE} ] 
 { REPORT } { FILE } [ { OPEN } ] 
 { REPORTWIDE } 
 { DIF [DATALABELS] } [AXSMOD [name] ['init str']]
.EXPORT { INDICDATA
.EXPORT RESET
= [n]
.GOTO labelname
.HANG
      [ n ]
.HELP BTEO
          { ACTIVITYCOUNT } { SQL request }
        { <u>DATA</u> } { FILE }
.IMPORT { DDNAME } = name [,SKIP=n] ← Channel client
       { INDICDATA }
```

```
{ DATA
.IMPORT { INDICDATA } {DDNAME} { name } [,SKIP=n] [AXSMOD [name] ['init str']] { REPORT } { FILE } { 'name' } { VARTEXT ['c'] } { "name"}
.LABEL labelname
.LOGOFF
.LOGON [tdpid /] username [,password [,'acctid'] ]
.OS command
      [ n ]
.QUIT [ ERRORLEVEL ]
      [ ERRORCODE ]
[ ACTIVITYCO ]
.REPEAT [ ] [ * ]
      { DD } { 'name' } 
{ DDNAME } = { name } [,SKIP=n] 
{ FILE } { "name" }
.RUN
.[SET] DEFAULTS
.[SET] ECHOREQ [ ]
               [ ON ]
{ { UNKNOWN } } .[SET] ERRORLEVEL { { nnnn } SEVERITY nn [ ... ,] }
               { {(nnnn ... ,nnnn)}
                 { OFF
```

```
.[SET] ERROROUT
                  [ OFF ] [ n [...,n] ] [ ] [ ON ] [ ALL ]
.[SET] FOLDLINE
.[SET] FOOTING 'string [ //string [ ... //string ] ]'
.[SET] FORMAT
                   [ <u>ON</u> ]
                  [ <u>ON</u> ]
[ OFF ]
.[SET] FORMCHAR
                   [ 'hexstring'xb ]
                   [ OFF ]
                  [ <u>ON</u> ]
.[SET] FULLYEAR
.[SET] HEADING 'string [ //string [ ... //string ] ]'
[ OFF]
.[SET] INDICDATA [ ]
.[SET] LOGONPROMPT [ \frac{ON}{} ]
.[SET] MAXERROR nn
                  [ <u>OFF</u> ] [ EXIT name ] [ LOW ] [ MSG [text] ]
                  [ MEDIUM ] [ QUEUE [options] ]
                   [ HIGH ]
.[SET] NULL [AS] 'string'
                   [ OFF ] [ n [..., n] ]
.[SET] OMIT
                   [ ] [ [ ON ] [ ALL
                  [ OFF ] [ n [,n ,n ...] ]
.[SET] PAGEBREAK [ ] [ ] . [ ] . [ ON ] [ ALL ]
```

.[SET] PAGELENGTH n

```
[ OFF ]
.[SET] QUIET
                 [ ON ]
                 [ OFF ]
.[SET] RECORDMORE [
                 [ ON ]
[ OFF ] .[SET] REPEATSTOP [ ]
                 [ <u>ON</u> ]
.[SET] RETCANCEL [ ] [ ON ]
.[SET] RETLIMIT n
                 [ OFF ]
.[SET] RETRY
                 [ ON ]
.[SET] RTITLE 'string [ //string [ ... //string ] ]'
                 { ALL }
.[SET] SECURITY
                 { PASSWORD[S] }
                 { NONE }
                 [ 'string' ]
.[SET] SEPARATOR [ "string" ] [ALL]
{ charsetnum } .[SET] SESSION CHARSET { 'charsetname' }
                      { "charsetname" }
                      [ NONE ]
.[SET] SESSION SQLFLAG [ INTERMEDIATE ]
                      [ ENTRY ]
.[SET] SESSION TRANS[ACTION] { }
```

{ ANSI }

```
.[SET] SESSIONS n
```

```
[ OFF ] [ O | ]
[SET] SIDETITLES [ ] [ wn [...,wn] ]
[ON] ] [ ALL ]
```

.[SET] WIDTH n

.SHOW CONTROL[S]

.SHOW ERRORMAP

.SHOW VERSION[S]

.TDP xx[xxxxxx] (Optional form for VM users only)

.TSO string

PREPROCESSOR2 STATEMENTS

Preprocessor2 statements are shown below in alphabetical order. In addition to the DML statement variations shown here you may also use other DML and DDL statements described in the DBC Reference Manual.

Each statement must be prefixed by 'EXEC SQL' and followed by the statement terminator. ('END-EXEC' in Cobol, or ';' in PL/1 or C.)

```
BEGIN DECLARE SECTION
                                  Note: Use in 'C' programs only.
   < Variable Definitions >
  END DECLARE SECTION
                                 {ckpt-label}]
CHECKPOINT [dbname.]tbname [,NAMED { }] INTO [:]host-variable
                                  {:labelvar }]
  [[INDICATOR] :host-variable]
CLOSE cursor-name
COMMENT [ON] objkind objref [IS] 'comment'
                            [AS]
COMMENT [ON] objkind objref INTO [:]host-variable [[INDICATOR] :host-variable]
COMMIT [WORK [RELEASE] ]
CONNECT [:]id-var IDENTIFIED BY [:]password-var
         {dbname
DATABASE {
         {:dbnamevar}
                              {cursor-specification
DECLARE cursor-name CURSOR FOR {statement-name
                                                               }
                               { 'request-specification'
                               {EXEC [dbname.]macroname[(parms)]}
DECLARE statement-name [ ... , statement-name] STATEMENT
```

```
DECLARE { } TABLE ( column-spec [ ... , column-spec] )
DEL[ETE] FROM tbl-name WHERE CURRENT OF cursor-name
                                           [ {NAMES } ]
DESCRIBE statement-name INTO [:]descriptor-area [ USING {ANY
                                                   {LABELS} ]
EXEC [dbname.] macroname [ (parm-list) ]
                    [ {[:]h-var [[INDICATOR] :h-var] [..., h-var...] } ]
EXECUTE statement-name [ USING {
                    [ {DESCRIPTOR [:]descriptor-area
EXECUTE IMMEDIATE {
              {[:]stmt-string-var}
                { INTO [:]host-var [[INDICATOR] :host-var] [..., host-var...] }
FETCH cursor-name {
               { USING DESCRIPTOR [:]descriptor-area
      {SQLCA
include {SQLDA }
       {text-name}
INS[ERT] [INTO] tname [ (cname [... ,cname]) ] VALUES ( [:]h-var [... , [:]h-var] )
LOGON [:]logonstr
               [ { [:]h-var [[INDICATOR] :h-var] [..., h-var...] } ]
OPEN cursor-name [ USING {
          [ { DESCRIPTOR [:]descriptor-area
                 [ TO NEXT
POSITION cursor-name [ TO [STATEMENT] {stmt-number} ]
PREPARE statement-name
                                  {NAMES}
   [ INTO [:]descriptor-area [ USING {ANY }] [ FOR STATEMENT {stmt-number} ] ]
```

```
{BOTH }]
                                               {[:]numvar }
                                     {LABELS}]
   FROM {statement-string }
      {[:]stmt-string-var}
REWIND cursor-name
ROLLBACK [WORK [RELEASE]] [abort-message] [WHERE abort-cond]
SEL[ECT] [ALL ] expr [..., expr]
         [DISTINCT]
    INTO [:]host-var [[INDICATOR] :host-var] [..., host-var]
    from-clause
    [where-clause]
SET BUFFERSIZE size
           { set-name
SET CHARSET {
           { :set-name-var }
    {MACRO}
SHOW {TABLE} [dbname.]obj-name INTO [:]host-variable [[INDICATOR] :host-variable]
    {VIEW }
UPD[ATE] [dbname.]tbl-name [alias-name] SET col-name = expr [...,col-name = expr]
   WHERE CURRENT OF cursor-name
{ SQLERROR } { CONTINUE }
WHENEVER { SQLWARNING } { GO TO [:]label }
        { NOT FOUND } { GOTO [:]label }
                       { PERFORM code }
                                              ← COBOL Only
                       { CALL function }
```

ARCHIVE / RECOVERY COMMANDS

This section summarizes the syntax used by the Archive and Recovery utility. Statements are listed alphabetically.

(Note - The Keyword **DDNAME** may be used in place of **FILE** on MVS & VM)

```
{ *
       { ALL
ANALYZE { { databasename }
                                                             [ CATALOG ]
       { { ( databasename1 ) TO ( databasename2 )} [ ,... ] }
      { DISPLAY [LONG] }
                 } ]
    [, {
      { VALIDATE
    [, USE {ASCII } COLLATION ]
         {EBCDIC}
    , FILE = name
       { DATA
ARCHIVE {DICTIONARY } TABLE[S]
      {NO FALLBACK}
       { JOURNAL }
   { (databasename) [ (EXCLUDE TABLES (tblname [..., tblname] )) ] }
   { (databasename) ALL [ (EXCLUDE TABLES (db.tname [..., db.tname] )) ] } [, ...]
   { (databasename.tablename)
   [, option [ ... , option ] ]
    , FILE = name [, FILE = name]
Any of the following options may be listed:
             { (databasename) [ALL]
   EXCLUDE
             { (databasename1) TO (databasename2)
                                     ← V1 systems only
    { PN = ccc-p [..., ccc-p ] }
    { AMP = n [..., n] } \leftarrow V2 systems only
    { CLUSTER[S] = nnn [..., nnn] }
   RELEASE LOCK
   INDEXES
   ABORT
   NONEMPTY DATABASE[S]
```

```
[ DATA TABLES ] { ( databasename ) [ALL] }

BUILD [ JOURNAL TABLES ] {
      [NO FALLBACK TABLE[S]] { ( databasename.tablename ) }
   { ( databasename ) [ ALL ] [, EXCLUDE {
             { ( databasename1) TO ( databasename2 ) }
    [, RELEASE LOCK ]
   [, ABORT ]
          CHECKPOINT
           { ( databasename.tablename ) }
   [, WITH SAVE ]
   [ {ACCESS} ]
[, USE { } LOCK ]
   [, NAMED chkptname]
[, option [ ... , option ] ] , FILE = name;
Any of the following options may be entered:
    ( [ FROM { ( databasename ) } ]
     [ { (databasename.tablename ) } ]
     [ , NO FALLBACK ]
     [ { NO JOURNAL }
[ , { WITH JOURNAL TABLE = db.tablename } ]
     [ { APPLY TO (db.tablename) [..., (db.tablename) ] } ]
   { PN = ccc-p [..., ccc-p ] } \leftarrow V1 systems only 
{ AMP = n [..., n ] } \leftarrow V2 systems only
    { CLUSTER[S] = nnn [..., nnn] }
   NO BUILD
   RELEASE LOCK
   ABORT
   USE {ASCII } COLLATION
      {EBCDIC}
   REPLACE CREATORNAME
```

```
DELETE DATABASE ( databasename ) [ALL] [, ...]
             { (databasename ) [ALL]
    [, EXCLUDE {
             { ( databasename1 ) TO ( databasename2 )
{ ( databasename ) [ALL] } } [,...] ]
    [, EXCLUDE {
             { ( databasename1 ) TO ( databasename2 ) }
LOGOFF
LOGON [tdpid/] username , password [ , 'accid' ]
          RELEASE LOCK {
   [, option [..., option ] ];
Any of the following options may be entered:
           { (databasename) [ALL]
           { (databasename1) TO (databasename2)
   { PN = ccc-p [..., ccc-p ] } 
{ AMP = n [..., n] } 
{ CLUSTER[S] = nnn [..., nnn] } 
\leftarrow V1 systems only
   ALL
   OVERRIDE
```

BACKUP NOT DOWN

```
{ DATA } { (databasename) [ALL]
RESTORE {DICTIONARY } TABLE[S] {
     {NO FALLBACK} { (databasename.tablename) }
       { JOURNAL }
    [, option [..., option]]
    , FILE = filename
Any of the following options may be entered:
           { ( databasename ) [ALL]
   EXCLUDE {
          { ( databasename1 ) TO ( databasename2 ) }
   { PN = ccc-p [..., ccc-p ] } 
{ AMP = n [..., n] } 
{ CLUSTER[S] = nnn [..., nnn] } 
\leftarrow V1 systems only
   RESTORE FALLBACK
   NO BUILD
   RELEASE LOCK
   ABORT
   USE {ASCII } COLLATION
       {EBCDIC}
                         REVALIDATE REFERENCES FOR {
                         { ( databasename.tablename ) }
             { ( databasename ) [ALL]
             { ( databasename1 ) TO ( databasename2 ) }
    [, RELEASE LOCK ]
    [, ERRORDB = dbname ]
```

```
{ ( databasename ) [ALL] }
    [, option [..., [ option ] ]
    { CURRENT }
, USE { } JOURNAL
          { RESTORED }
Any of the following options may be entered:
           { (databasename) [ALL]
    EXCLUDE {
       { ( databasename1 ) TO ( databasename2 ) }
   { chkptname }
TO { chkptname, eventno }
     { eventno
    { PN = ccc-p [..., ccc-p] } 
{ AMP = n [..., n] } 
\leftarrow V1 systems only
    RELEASE LOCK
    [NO] DELETE
    ABORT
        [, option [..., [ option ] ]
    , USE { } JOURNAL
          { RESTORED }
Any of the following options may be entered:
             { (databasename) [ALL]
             { (databasename1 ) TO (databasename2 ) }
   { chkptname }
TO { chkptname, eventno }
    { PN = ccc-p [..., ccc-p] } \leftarrow V1 systems only 
{ AMP = n [..., n] } \leftarrow V2 systems only
    PRIMARY DATA
    RELEASE LOCK
    [NO] DELETE
    ABORT
```

FASTLOAD COMMANDS

This section summarizes the command syntax used by the Fastload utility. All statements are listed alphabetically.

```
BEGIN
                    [dbname.]tblname
         LOADING
         ERRORFILES [dbname.]tblname , [dbname.]tblname
         [CHECKPOINT n]
         [INDICATORS ]
CLEAR
DEF[INE] [            fldname ( datatype [ ,NULLIF [=] value ] )
         [...,fldname (datatype [,NULLIF [=] value])]
         [ { DDNAME = filename } ]
         [ \{ FILE = filename \} ]
         [ { INMOD = mod-name } ]
END LOADING
ERRLIMIT rows
HELP
         [ TABLE [dbname.]tblname ]
INS[ERT] [INTO] [dbname.]tblname.*
INS[ERT] [INTO] [dbname.]tblname [ (cname [...,cname] ) ]
         VALUES ( :fldname [... , :fldname] )
LOGOFF
LOGON
         [tdpid /] username , password [ , 'acctid' ]
os
         command
QUIT
```

```
RECORD [startnum] [THRU endnum]
SESSIONS n
SET RECORD [ { FORMATTED } ]  
← Network attached systems only [ {IINFORMATTED } ]
          [ {UNFORMATTED} ]
SET SESSION CHARSET { KANJIEUC_OU }

                                    ← Network attached systems only
                   { KANJISJIS_OS }
                   { n
SHOW [VERSION[S]]
```

The following SQL statements are also supported by Fastload:

CREATE TABLE

DATABASE

DELETE

DROP TABLE

The following parameters are supported by the fastload command:

On Channel attached systems

BUFSIZE = nCHARSET = char-set-name -c char-set-name ERRIOG = filename -e filename ERRLOG = filename TENACITY = hours -s mins INMODTYPE = SAS C

On network attached systems

```
-b n
-e filename
-t hours
```

MULTILOAD COMMANDS

This section summarizes the command syntax used by the Multiload utility. All statements are listed alphabetically.

```
{pos1
.ACCEPT var [..., var] [FROM] FILE fileid [ IGNORE {pos1 THRU
                                          {THRU pos2
                                           {pos1 THRU pos2}
.BEGIN DELETE MLOAD TABLES [dbname.]tname [...,[dbname.]tname]
           [ WORKTABLES
                       [dbname.]tname [...,[dbname.]tname]]
           [ ERRORTABLES [dbname.]tname [..., [dbname.]tname] ]
           [ TENACITY hours ]
           [ SLEEP
                    mins ]
                   [ NOTIFY
                   { MEDIUM } { QUEUE option }
                    { HIGH }
[ WORKTABLES [dbname.]tname [..., [dbname.]tname] ]
           [ ERRORTABLES [dbname.]tname [..., [dbname.]tname] ]
           [ ERRORLIMIT errcount [errpercent] ]
           [ CHECKPOINT rate ]
           [ SESSIONS
                     limit ]
           [ TENACITY hours ]
           [ SLEEP
                       mins ]
                     { NONE }
           [ AMPCHECK { APPLY } ]
                     { ALL
                     [ NOTIFY
                     { MEDIUM } { QUEUE option }
                     { HIGH }
DEL[ETE] [FROM] [dbname.]tblname
        WHERE colname = :fldname [{AND} colname = :fldname]
                               {OR }
.DISPLAY 'text' [TO] FILE fileid
```

```
{ { MARK } DUPLICATE [{INSERT}] }
                  .DML LABEL label [ { MARK } MISSING [{UPDATE}] } ROWS ]
                  { { IGNORE }
                                       [{DELETE}] }
                  { DO INSERT FOR [MISSING UPDATE] }
.END MLOAD ;
.FIELD fldname { startpos datadesc } [ NULLIF nullexpr ]
              { fieldexpr
       [ DROP {LEADING } {NULLS } [ [AND] {TRAILING} {NULLS } ]
              {TRAILING} {BLANKS}
                                        {LEADING } {BLANKS}
.FILLER [fldname] startpos datadesc
.IF conditional-expression [THEN] ;
   statement 1
      . . .
   statement n
.ELSE ;
   statement 1
   statement n
]
.ENDIF
. IMPORT
         { INFILE filename { FREE }
                    { HOLD }
         { [INFILE filename] INMOD modname [USING (parms)] }
         [ FROM m ] [ \{ FOR n \} ] LAYOUT layoutname
                     { THRU n }
         [ APPLY label [ WHERE condition ] ] [ APPLY ... ]
 INSERT
        INTO [dbname.]tblname {.*
                              {VALUES (:fldname [...,fldname])}
. LAYOUT
         layoutname [ CONTINUEIF condition ] [ INDICATORS ]
.LOGOFF
        [retcode]
         [tdpid /] username [,password [,'acctid']]
. LOGON
.LOGTABLE [dbname.]tablename
```

DATA DICTIONARY VIEWS

Data Dictionary/Directory view contents are listed alphabetically. Those views with an 'X' suffix restrict the data returned to rows associated with the executing user.

| AccLogRules | { UserName, { AcrAlterFunctio { AcrCreateFuncti { AcrCreateUser, { AcrDelete, { AcrDropMacro, { AcrDropView, { AcrExecute, { AcrGrant, { AcrReference, { AcrUpdate, { AcrCreateRole, { AcrCreateTimeStamp | on, AcrCreateM AcrCreateV AcrDropDat AcrDropPro AcrExecute AcrIndex, AcrRestore AcrCreateT AcrDropRol AcrAlterPr | int, dacro, dew, abase, le, cedure, Function, , rigger, e, | AcrCre AcrDre AcrDre AcrDur AcrExe AcrIns AcrSe AcrDre AcrCre | eateDatabase eateTable, eateProcedur opFunction, opUser, mp, ecuteProcedu sert, | re, |
|------------------|---|--|---|---|---|-------------|
| AccessLog | { LogDate, { LogonTime, { SessionNo, { OwnerName, { EventCount, { TVMName, { | LogTime, LogicalHostId, UserName, AccessType, Result, ColumnName, | LogonDate IFPNo, AccountNa Frequency DatabaseN Statement Statement | me, , ame, Type, | <pre>} } } } }</pre> | |
| AccountInfo[X] | { UserName, | AccountName, | UserOrPro | file | } | |
| AllRights | { UserName, { ColumnName, { GrantorName, { CreateTimeStamp | DataBaseName, AccessRight, AllnessFlag, | TableName GrantAuth CreatorNa | ority, | } } } | |
| AllRoleRights | { RoleName, { AccessRight, | DataBaseName, GrantorName, | TableName CreateTim | • | ColumnName, | } |
| AllSpace[X] | <pre>{ Vproc, { MaxPerm, { CurrentPerm, { PeakPerm,</pre> | DataBaseName, MaxSpool, CurrentSpool, PeakSpool, | AccountNa MaxTemp, CurrentTe PeakTemp | | TableName, | } } } |
| AllTempTables[X] | { HostNo, { B_DatabaseName, | SessionNo, B_TableName, | UserName, E_TableId | | } | |
| All_RI_Children | { IndexID, { ChildTable, { ParentTable, { CreatorName, | IndexName, ChildKeyColumn ParentKeyColum CreateTimeStam | n, Inconsi | В, | } } Flag, } } | |

```
{ IndexID, IndexName, ParentDB,
All RI Parents
                  { ParentTable, ParentKeyColumn, ChildDB,
                  { ChildTable, ChildKeyColumn, InconsistencyFlag, { CreatorName, CreateTimeStamp
                  { AccountName, UserName, CpuTime, DiskIO, }
AMPusage
                            VprocType, Model
                  { Vproc,
                  { DataBaseName, TableName, EventNum,
                  { Original_DatabaseName, Original_TableName, Original_TableKind, Original_Version,
Association
                  { Original_ProtectionType, Original_JournalFlag, } { Original_CreatorName, Original_CommentString}
CharSets
                 { CharSetName }
CharTranslations { CharSetName, CharSetId, InstallFlag, }
                  { E2I, E2IUp, I2E, I2EUp
Children[X]
                { Child, Parent }
Collations
                  { CollName,
                                CollInstall, CollEqvClass, }
                  { CollOrderCS, CollOrderUC
                  Columns[X]
                  { Commentstring, DecimalTotalDigits, DecimalFractionalDigit,
                  { ColumnId, UppercaseFlag, Compressible,
                  { CompressValue, ColumnConstraint, ConstraintCount, { CreatorName, CreateTimeStamp, LastAlterName, { LastAlterTimeStamp, CharType, IdColType
                  { AccessCount, LastAccessTimeStamp, CompressValueList
                  { DatabaseName,
                                         TableName,
                                                                   ColumnName,
                                                                                  }
                                         ColumnLength,
ColumnStats
                  { ColumnType,
                                                                   ColumnFormat,
                  { DecimalTotalDigits, DecimalFractionalDigit, SeqNumber
CSPSessionInfo { SessionNo, HostNo, StartMBox, LogonSource }
                  { DataBaseName,
                                         CreatorName,
                                                                OwnerName,
                  { AccountName,
                                                                JournalFlag,
                                         ProtectionType,
                                      SpoolSpace, TempSpace, CreateTimeStamp, LastAlterName,
Databases [X]
                  { PermSpace,
                  { CommentString,
                  { LastAlterTimestamp, DBKind, AccessCount, LastAccessTimeStamp }
Databases2
                 { DataBaseName, DataBaseId, UnResolvedRICount }
```

```
DataBase_Default_Journals[X] { DataBaseName, Journal_DB, JournalName }
                    { InfoKey, InfoDate }
DBCInfo
                    { DatabaseName, AccountString, ExplainFlag,
                    { ObjFlag, SQLFlag, Scepting, SummaryFlag, ThresholdFlag, TextSizeLimit, SummaryVal3,
DBQLRules
                    { SummaryVal1, SummaryVal2, SummaryVal3,
                    { ThreshValue
DeleteAccessLog
                   { LogDate, LogTime }
                    { LogicalHostId,
                                         SessionNumber,
                                      RunUnitId,
ResolvingUserLogonName,
                    { CoordTaskId,
DeleteOldInDoubt
                    { LogonUserName,
                    { CommitOrRollback, UserLogonDate,
                    { UserLogonTime, CompletionDate,
                    { CompletionTime, Options
                    { Vproc,
                                    DataBaseName, AccountName, }
DiskSpace[X]
                    { MaxPerm,
                                    MaxSpool, MaxTemp,
                    { CurrentPerm, CurrentSpool, CurrentTemp,
                                 PeakSpool, PeakTemp
                    { PeakPerm,
                    { CreateDate,
                                        CreateTime, EventNum, EventType, DatabaseName, ObjectType, AllAMPsFlag,
                                        CreateTime,
                    { UserName,
                    { RestartSeqNum, OperationInProcess, TableName, CheckpointName,}
Events[X]
                    { LinkingEventNum, DataSetName, LockMode,
                                                                           JournalUsed,
                    { JournalSaved, IndexPresent,
                                                            DupeDumpSet
                          { CreateDate,
                                            CreateTime,
                                                            EventNum,
                                                                           EventType, }
                                         Createrime, Eventuam,
LogProcessor, PhyProcessor, Vproc,
Events_Configuration[X] { UserName,
                          { ProcessorState, RestartSeqNum
                    { CreateDate, CreateTime, EventNum, EventType, { UserName, DataSetName, VolSerialID, VolSequenceNum,
Events Media(X)
                    { DupeDumpSet
                    { DatabaseName,
                                        FunctionName, SpecificName,
                    { FunctionId,
                                         NumParameters, ParameterDataTypes,
Functions
                    { FunctionType,
                                         ExternalName,
                                                          SrcFileLanguage,
                    { NoSQLDataAccess, ParameterStyle, DeterministicOpt,
                                        PrepareCount, ExecProtectionMode
                    { NullCall,
                    { ExtFileReference, CharacterType, Platform
                    { TheDate,
                                      TheTime,
                                                                Event Tag
                                      Severity,
                                                               Primary Part Number,
                    { Category,
                    { Revision Level, Secondary Part Number, Serial Number,
Hardware Event Log { PMA,
                               Module_Type, Slot, Slot_Type,
                    { SubSlot, SubSlot_Type, { Vcc_Margin, Frequency_Margin, { Vcc_Amps, Temperature, } }
                                                                FW_Version,
                                                                Vcc Volts,
                                                                Line,
                    { Text,
                                      Error_Data
```

{ CreateTimeStamp, LastAlterName,

{ LogicalHostId, HostName, DefaultCharSet }

HostInfo

LastAlterTimeStamp }

```
{ ProcId,
                                           CollectTimeStamp, QueryID,
                                         AcctString, ExpandAcctString,
LogicalHostID
                         { UserID,
                        { SessionID, LogicalHostID, AcctStringHour, ClientID,
QryLog
                         { AcctStringDate, AppID, ClientID, QueryBrand, ProfileID, StartTime,
                                                              LastRespTime,
                         { FirstStepTime, FirstRespTime,
                                                               MaxStepsInPar,
                        { NumSteps, NumStepswPar, 
{ NumResultRows, ResultRowSize,
                                                                TotalIOCount,
                         { TotalCPUTime, ErrorCode,
                                                                ErrorText,
                        { TotalCrolline, { TDQMFlag, AbortFlag, Cacherlag, } AbortFlag, Cacherlag, } { HotAmp1CPU, HotAmp2CPU, HotAmp3CPU, AvgAmpCPUSec, } { LowAmp1CPU, HotAmp2IO, HotAmp3IO, } { LowAmp1IO, LowAmp2IO, LowAmp3IO, AvgAmpIOCnt, } } { Course fields }
QryLogExplain
                        { ProcId,
                                      CollectTimeStamp, QueryID, }
                         { ExpRowNo, ExplainText
                         { ProcId,
                                                CollectTimeStamp, QueryID,
QryLogObjects
                         { ObjectDatabaseName, ObjectTableName, ObjectColumnName,
                         { ObjectID,
                                                ObjectNum, ObjectType,
                         { FreqOfUse,
                                                 TypeOfUse
QryLogSQL
                         { ProcId, CollectTimeStamp, QueryID, }
                         { SqlRowNo, SqlTextInfo
                         { ProcId,
                                           CollectTimeStamp, QueryID,
                         { StepLev1Num, StepLev2Num,
                                                                StepName,
                         { StepStartDate, StepStopDate,
                                                                CPUTime,
                         { IOCount,
                                           RowCount,
QryLogSteps
                         { HotAmp1CPU,
                                           HotAmp2CPU,
                                                                HotAmp3CPU,
                         { LowAmp1CPU,
                                           LowAmp2CPU,
                                                                LowAmp3CPU, AvgAmpCPUSec, }
                         { HotAmp1IO,
                                           HotAmp2IO,
                                                                HotAmp3IO,
                         { LowAmp1IO,
                                           LowAmp2IO,
                                                               LowAmp3IO,
                                                                             AvgAmpIOCnt,
                         { <Extra fields>
QryLogSummary
                         { ProcId,
                                      CollectTimeStamp, SessionID,
                         { QueryCount, QuerySeconds,
                                                         LowHist, HighHist }
RCC Configuration[X]
                        { EventNum, LogProcessor, PhyProcessor, }
                         { Vproc,
                                     ProcessorState, RestartSeqNum }
RCC Media[X]
                        { EventNum, VolSerialId, VolSequenceNum, DupeDumpSet }
                         { TheDate, TheTime, Vproc,
                                                                   NodeId,
                         { Secs,
                                               NCPUs,
                                                                   GroupId,
ResCPUUsageByAMPView
                        { AMPWorkTaskExec, AMPWorkTaskServ, AMPMiscUserExec, }
                         { AMPMiscUserServ, AMPTotalUserExec, AMPTotalUserServ }
```

```
{ TheDate, TheTime, Vproc,
                                                             NodeId,
                                           NCPUs,
                       { Secs,
                                                             GroupId,
                       { PEDispExec,
                                            PEDispServ,
                                                              PEParsExec,
ResCPUUsageByPEView
                                           PESessExec,
                       { PEParsServ,
                                                             PESessServ,
                       { PEMiscUserExec, PEMiscUserServ, PETotalUserExec,
                       { PETotalUserServ
                       { TheDate, TheTime, Vproc,
                                                                    NodeId,
                       { Secs,
                                           GroupId,
                                                                   NCPUs,
                       { CPUBusy,
                                           CPUOpSvs,
                                                                   CPUWaitIO,
                    { DiskSegmentIO, LogicalDeviceIO, LogicalDeviceReads, } { LogicalDeviceWrites, LogicalDeviceReadKB, LogicalDeviceWriteKB,}
                       { MemAgings,
                                           MemBackupCompleteSegs, MemBackupPartialSegs,}
                       { MemFails,
                                           MemFreeKB,
                                                                   MemSize,
                       { MemTextAllocs, MemVprAllocs, NetBackoffs, NetChannelSR, NetMultiIO,
                                           MemVprAllocs,
ResGeneralInfoView
                                                                  NetPtoPIO,
                       { NetReadKB,
                                                                  NetWriteKB,
                                           NetReads,
                       { NetWrites,
                                           PageOrSwapIO,
                                                                   ProcActiveAvg,
                                          ProcBlockedAvg,
                       { ProcBlksDBLock,
                                                                   ProcBlocks,
                       { ProcWaits,
                                          UserStmtsArriving, UserStmtsInProgress
                       { TheDate, TheTime, NodeId, VprId,
                                                                HstId, HstType,
                       { Secs,
                                            NominalSecs,
                                                                GroupId,
                       { CollectIntervals, HostBlockReads,
                                                                HostBlockWrites,
ResShstGroupView
                       { HostMessageReads, HostMessageWrites, HostReadKB,
                       { HostWriteKB, HostQLenSum,
                                                                HostQLenMax,
                       { HostReadFails,
                                           HostWriteFails
                       { TheDate, TheTime, NodeId, VprId, LdvId, LdvType, { Secs, NominalSecs, GroupId,
                       { CollectIntervals, LdvConcurrentSum, LdvOutReqSum,
                       { LdvReads, LdvWrites, LdvReadKB,
ResSldvGroupView
                       { LdvWriteKB,
                                           LdvReadRespTot,
                                                              LdvWriteRespTot,
                       { LdvReadRespMax, LdvWriteRespMax, LdvReadRespSq, LdvConcurrentMax, LdvOutReqMax,
                       { LdvOutReqTime
                       { IndexID,
                                      IndexName,
                                                       ChildDbID,
RI Child Tables
                       { ChildTID,
                                     ChildKeyFID,
                                                       ParentDbID,
                       { ParentTID,
                                     ParentKeyFID,
                                                      InconsistencyFlag,
                       { CreatorName, CreateTimeStamp
                       { IndexID,
                                            IndexName,
                                                          ChildDB,
                                          ParentDB,
RI Distinct Children
                       { ChildTable,
                                                         ParentTable
                       { InconsistencyFlag, CreatorName, CreateTimeStamp }
                       { IndexID,
                                             IndexName,
                                                          ParentDB,
                                       ChildDB,
RI Distinct Parents
                       { ParentTable,
                                                          ChildTable
                       { InconsistencyFlag, CreatorName, CreateTimeStamp }
                       { IndexID,
                                      IndexName,
                                                       ParentDbID,
RI Parent Tables
                       { ParentTID,
                                      ParentKeyFID,
                                                       ChildDbID,
                       { ChildTID,
                                      ChildKeyFID, InconsistencyFlag,
                       { CreatorName, CreateTimeStamp
```

```
{ RoleName, CreatorName, CommentString, }
RoleInfo[X]
                          { CreateTimeStamp
RoleMembers[X]
                          { RoleName, Grantee, GranteeKind,
                          { Grantor, WhenGranted, DefaultRole, WithAdmin }
                         { ExpirePassword, PasswordMinChar, PasswordMaxChar, } 
{ PasswordDigits, PasswordSpecChar, MaxLogonAttempts, } 
{ LockedUserExpire, PasswordReUse }
SecurityDefaults
                         { LogDate, LogTime, LogType, UserName, } { AccountName, DataBaseName, TableName, Text }
SecurityLog[X]
                          { UserName,
                                               AccountName, SessionNo, IFPNo, Partition,
                          { DefaultDataBase, IFPNo,
                         { LogicalHostId, HostNo, CurrentCollation, } { LogonDate, LogonTime, LogonSequenceNo, } { LogonSource, ExpiredPassword, TwoPCMode, }
SessionInfo[X]
                          { Transaction_Mode, CurrentRole, LogonAcct
                          { DatabaseName, TableName, ColumnName, } { ColCheck, CreatorName, CreateTimeStamp
ShowColChecks
ShowTblChecks
                          { DatabaseName, TableName, CheckName,
                          { TblCheck, CreatorName, CreateTimeStamp }
                          { TheDate, TheTime, Event { Category, Severity, PMA,
                                                           Event Tag,
                          { Vproc, Partition, Task, TheFunction,
Software Event Log
                          { SW_Version Line, Text, { StackTrace, Error_Data
                                                   TableName,
                          { DataBaseName,
                                                                            Version,
                          { TableKind,
                                                    ProtectionType, JournalFlag,
                          { CreatorName, RequestText, CommentString, 
 { ParentCount, ChildCount, NamedTblCheckCount,
Tables[X]
                          { UnnamedTblCheckExist, PrimaryKeyIndexId, CreateTimeStamp,
                          { LastAlterName LastAlterTimeStamp, RequestTextOverFlow, } { AccessCount, LastAccessTimeStamp }
                          { TVMName, TVMId, DatabaseId, }
Tables2
                          { ParentCount, ChildCount
TableSize[X]
                          { Vproc, DataBaseName, AccountName, }
                          { TableName, CurrentPerm, PeakPerm }
TableText[X]
                          { DataBaseName, TableName, TableKind, }
                          { RequestText, LineNo
```

```
{ DataBaseName, TableName,
                                                                                           TriggerName,
                               { EnabledfFlag, ActionTime,
                                                                                         Event,
                                                     OrderNumber,
                                                                                 TriggerComment }
CreateTimeStamp, }
Triggers
                               { Kind,
                               { RequestText, CreatorName, CreateTimeSta { LastAlterName, LastAlterTimeStamp, AccessCount,
                               { LastAccessTimeStamp
                             { Id, Name }
UserDB
                               { DataBaseName, TableName, ColumnName,
UserGrantedRights
                               { Grantee, AccessRight, GrantAuthority, }
                               { AllnessFlag, CreatorName, CreateTimeStamp }
                               { DataBaseName, TableName,
                                                                                ColumnName, }
                               { AccessRight, GrantAuthority, GrantorName } { CreatorName, CreateTimeStamp }
UserRights
                               { RoleName, DataBaseName, TableName, ColumnName, { AccessRight, GrantorName, CreateTimeStamp
UserRoleRights
                               { UserName, CreatorName, PasswordLastModDate, } { PasswordLastModTime, Ownername, PermSpace } { SpoolSpace, TempSpace, ProtectionType, } { JournalFlag, StartUpString, DefaultAccount, } { DefaultDataBase, CommentString, DefaultCollation } { PasswordChgDate, LockedDate, LockedTime, } { LockedCount, TimeZoneHour, TimeZoneMinute, } { DefaultDateForm, CreateTimeStamp, LastAlterName, } { LastAlterTimeStamp, DefaultCharType, RoleName, } { ProfileName, AccessCount, LastAccessTimeStamp }
Users
```

User_Default_Journals[X] { UserName, Journal_DB, JournalName }

Builtin Values and Functions

| Built in Value | Value Returned | Data Type |
|-------------------------|------------------------|----------------------------|
| ACCOUNT | Current User Account | VARCHAR(30) |
| CURRENT_DATE | Current Date | DATE |
| CURRENT_TIME [(n)] | Current Time | TIME(n) WITH TIMEZONE |
| CURRENT_TIMESTAMP [(n)] | Current Date/Time | TIMESTAMP(n) WITH TIMEZONE |
| DATABASE | Current Default DB | VARCHAR(30) |
| DATE | Current Date | DATE |
| NULL | The NULL value | As required |
| PARTITION | The Index Partition | INTEGER |
| ROWID | The Internal Row Id | INTEGER |
| SESSION | Current Session Number | INTEGER |
| TIME | Current Time | FLOAT |
| USER | Current User Id | VARCHAR(30) |

| Descriptor Functions | | Value Returned | Data Type |
|----------------------------|--------------------|-----------------------|-------------|
| BYTE[S] | (arg) | Length of arg | INTEGER |
| CHAR[ACTERS] | (string) | Length of str | INTEGER |
| MCHAR [ACTERS |] (string) | Length (Mbyte Chars) | INTEGER |
| CHAR[ACTER]_LENGTH(string) | | Length of str (Chars) | INTEGER |
| OCTET_LENGTH | (string [charset]) | Length of str (Bytes) | INTEGER |
| FORMAT | (arg) | Format of arg | VARCHAR(30) |
| NAMED | (arg) | Name assigned to arg | VARCHAR(30) |
| TITLE | (arg) | Title on arg | VARCHAR(60) |
| TYPE | (arg) | Data Type of arg | VARCHAR(??) |

| | Math Functions | Value Returned | Data Type |
|-------|----------------|-----------------------|-------------|
| ABS | (num) | Absolute value | Same as arg |
| ACOS | (num) | ArcCosine | FLOAT |
| ACOSH | (num) | Hyperbolic ArcCosine | FLOAT |
| ASIN | (num) | ArcSine | FLOAT |
| ASINH | (num) | Hyperbolic ArcSine | FLOAT |
| ATAN | (num) | ArcTangent | FLOAT |
| ATANH | (num) | Hyperbolic ArcTangent | FLOAT |
| COS | (num) | Cosine | FLOAT |
| COSH | (num) | Hyperbolic Cosine | FLOAT |
| EXP | (num) | e to the power arg | FLOAT |
| LOG | (num) | Base 10 Logarithm | FLOAT |
| LN | (num) | Base e Logarithm | FLOAT |
| SIN | (num) | Sine | FLOAT |
| SINH | (num) | Hyperbolic Sine | FLOAT |
| SQRT | (num) | Square Root | FLOAT |
| TAN | (num) | Tangent | FLOAT |
| TANH | (num) | Hyperbolic Tangent | FLOAT |

Builtin Values and Functions - Continued

| Conver | sion Functions | Value Returned | Data Type |
|-------------|--|---------------------------|-------------------|
| ADD_MONTHS | <pre>(date, n) (timestamp, n)</pre> | Add 'n' months to date | DATE TIMESTAMP |
| | exp1 THEN val1 exp2 THEN val2] [ELSE valn] END | Value substitution | Same as valn |
| CASE_N | (expr [,expr] [,NO CASE | [OR UNKNOWN]] [,UNKNOWN]) | INTEGER |
| CAST | (expr AS typeinfo) | Type/Format conversion | as in typeinfo |
| CHAR2HEXINT | (string) | HEX display of string | VARCHAR |
| COALESCE | (expr1, expr2 [,exprn]) | First non-Null expr | Same as expr |
| DATE | 'YYYY-MM-DD' | YYYY-MM-DD as a date | DATE |
| EXTRACT | (part FROM date) | Day, Hour, Minute etc | 'part' type |
| HASHROW | (expr, expr) | The Row Hash | |
| HASHBUCKET | (expr) | The Hash Bucket | |
| HASHAMP | (expr) | The Primary AMP | |
| HASHBACKAMP | (expr) | The Backup AMP | |
| INDEX | (string, substr) | Start pos. of substr | INTEGER |
| LOWER | (string) | String in LowerCase | CHAR |
| MINDEX | (MBstring, substr) | Start pos. of substr | INTEGER |
| NULLIF | (expr1, expr2) | Null if e1=e2 else e1 | Same as expr1 |
| NULLIFZERO | (num) | NULL if arg is Zero | Same as arg |
| (start,end) | OVERLAPS (start,end) | Dates/intervals overlap? | BOOLEAN |
| POSITION | (str1 IN str2) | Start pos of strl in str2 | INTEGER |
| RANGE_N | (expr BETWEEN start [AND e | | INTEGER |
| RANDOM | (low-bound, high_bound) | A random number | FLOAT |
| SOUNDEX | () | | |
| SUBSTR | (string, start, len) | Sub-String of string | CHAR |
| | H] DING] [chr] FROM] string) ILING] | Remove blanks (or chr) | CHAR |
| UPPER | (string) | String in UpperCase | CHAR |
| WIDTH_BUCKE | T () | | |
| ZEROIFNULL | (num) | Zero if arg is NULL | Same as arg |

Builtin Values and Functions - Continued

| Aggregate a | nd OLAP Functions | Description |
|---------------|--|---|
| AVG | ([DISTINCT] arg) | Average value |
| CORREL | (y, x) | Correlation |
| COUNT | ([DISTINCT] arg) | Number occurrences |
| COUNT | (*) | Number of rows |
| COVARIANCE | (y, x) | Covariance |
| COVAR_SAMP | (y, x) | Sample Covariance |
| CSUM | <pre>(col, sort-expr [,sort-expr])</pre> | Cumulative Sum |
| GCOUNT | (col) | ? |
| GSUM | (col) | ? |
| KURTOSIS | (arg) | Kurtosis |
| LINREGSLOPE | (y, x) | Slope: Linear Reg |
| LINREGINTER | CEPT(y, x) | Intercept: Linear Reg |
| MAX[IMUM] | (arg) | Maximum value |
| MIN[IMUM] | (arg) | Minimum value |
| MAVG | (col, #rows, sort-expr [, sort-expr]) | Moving Average |
| MDIFF | (col, #rows, sort-expr [, sort-expr]) | Moving Difference |
| MLINREG | (col, #rows, sort-expr) | Linear Regression |
| MSUM | (col, #rows, sort-expr [, sort-expr]) | Moving Sum |
| PERCENT_RAN | K() OVER ([PARTITION BY spec] ORDER BY spec | [ASC DESC]) |
| QUANTILE | (#partitions, sort-expr [, sort-expr]) | Quantile position |
| RANK | (sort-expr [,sort-expr]) | Rank Position |
| RANK | () OVER ([PARTITION BY spec] ORDER BY spec | [ASC DESC]) |
| REGR_AVGX | (y, x) | Avg of x values in regression |
| REGR_AVGY | (y, x) | Avg of y values in regression |
| REGR_COUNT | (y, x) | <pre># non-null pairs in regress:</pre> |
| REGR_R2 | (y, x) | R squared of Regression |
| REGR_SXX | (y, x) | ? in regression |
| REGR_SXY | (y, x) | ? in regression |
| REGR_SYY | (y, x) | ? in regression |
| SKEW | ([DISTINCT] arg) | Skew |
| STDEV | (arg) | Standard Deviation |
| STDEVP | (arg) | Standard Deviation (pop) |
| STDDEV_POP | ([DISTINCT] arg) | Population Std Deviation |
| STDDEV_SAMP | ([DISTINCT] arg) | Sample Std Deviation |
| SUM | ([DISTINCT] arg) | Sum of values |
| SUM | <pre>(arg) OVER ([PARTITION BY spec] [ORDER BY spec] ROWS {windowsize} PRECEDING [A</pre> | ASC DESC]) |
| VARIANCE | (arg) | Variance |
| VARIANCEP | (arg) | Population Variance |
| VAR POP | ([DISTINCT] arg) | Population Variance |
| - VAR SAMP | ([DISTINCT] arg) | Sample Variance |

Maximum Limits on the Teradata RDBMS

| OMORRA | Manufacture of Data language | 4 0 | D/11/ | |
|----------|--|-----------|----------|-------|
| SYSTEM | Number of Data bases | 4.2 | Billion | |
| | Message length | | 1 MB | |
| | SQL request length | | 1 MB | |
| | Active transactions | | 2,048 | |
| | Data Parcel Length | | 65,104 | |
| | Parcels in one message | | 256 | |
| | SQL title length | | 60 | |
| | String constant length | | 255 | |
| | Data Format Descriptor Length | | 30 | |
| | Error message text in failure parcel | | 255 | |
| | Sessions per gateway (Max 1 gateway / | Node) | 1,200 | |
| | Sessions per PE | | 120 | |
| | Concurrent Utility jobs | | 15 | |
| | Vprocs per system | | 16,384 | |
| | Vprocs per Node | | 128 | |
| | Data capacity per AMP - Unformatted | | 1.3 | Tbyte |
| | - and out and of the case of t | | _,_ | |
| DATABASE | Tables per database | | 32,000 | |
| | Journal tables per database | | 1 | |
| | Columns per table | | 2,048 | |
| | LOB columns per table | | 32 | |
| | Columns per View / Spool file | | 512 | |
| | Block Size | | 130,560 | |
| | Row size | (2222221) | • | |
| | | (approx) | | |
| | Column size | (approx) | | |
| | LOB size | | 2 GB | |
| | Column / Table name length | | 30 | |
| | Number of fields per index | | 62 | |
| | Secondary / Join indexes per table | | 32 | |
| | Table level constraints per table | | 100 | |
| | Referential constraints per table | | 64 | |
| | Tables that can reference a table | | 64 | |
| | Columns in Foreign & Parent key | | 16 | |
| | View / Macro nesting levels | | 8 | |
| | Rows per table limited by | space a | vailable | |
| | | | | |
| SESSION | Spool Files | | 2048 | |
| | Global Temporary Tables | | 1000 | |
| | Volatile Temporary Tables | | 2000 | |
| | Parallel steps performed (If no chann | nels) | 20 | |
| | Number of channels | | 10 | |
| | | | | |
| | (Redistribution across AMPs uses 4 cha | annels, | | |
| | Non prime Index (without redistributi | | 2 channo | 16) |

(Redistribution across AMPs uses 4 channels,
Non prime Index (without redistribution) uses 2 channels)

TERADATA DOCUMENTATION

| Document Name | Manual # |
|--|-----------|
| Release Summary for Version 2 Release 5 | BD35-1098 |
| Introduction to the Teradata RDBMS | BD35-1091 |
| Messages Reference | BD35-1096 |
| Data Dictionary Reference | BD35-1092 |
| Database Administration Guide | BD35-1093 |
| Database Design Guide | BD35-1094 |
| Database Window Reference | BD35-1095 |
| Performance Optimization | BD35-1097 |
| Resource Usage Macros and Tables | BD35-1099 |
| Security Administration Guide | BD35-1100 |
| Database Utilities Reference | BD35-1102 |
| SystemFE Macros | BD35-1103 |
| Teradata SQL Reference | BD35-1101 |
| Performance Monitor (PM/API) Reference | BD35-1090 |
| SQL Mapping and Collation Tables | BD35-1105 |
| International Character Set Support | BD35-1125 |
| SQL / Data Dictionary Quick Reference | BD35-1510 |
| Utilities Quick Reference | BD35-1511 |
| Teradata Tools and Utilities (TTU) 7.0 Release Summary | BD35-2427 |
| Multiload Reference | BD35-2409 |
| Fast Export Reference | BD35-2410 |
| Fastload Reference | BD35-2411 |
| Archive/Recovery Reference Manual for Channel attached | BD35-2412 |
| BTEQ Reference | BD35-2414 |
| Tpump Reference | BD35-3021 |
| Teradata Manager Installation Guide | BD35-2402 |
| Getting Started with Teradata Manager | BD35-2428 |
| SQL Assistant Users Guide | BD35-2430 |
| TeraBuilder Operators Reference | BD35-2433 |
| TeraBuilder Operator Programming Reference | BD35-2435 |
| TeraBuilder Reference | BD35-2436 |
| TDQM Administrators Guide | BD35-3027 |
| TDQM Users Guide | BD35-3028 |
| TDQM Programmers Guide | BD35-3029 |
| MDS Programmers Guide | BD35-3037 |
| MDS Installation and Configuration Guide | BD35-3045 |
| MDS Administrators Guide | BD35-3117 |

TERADATA DOCUMENTATION - Continued

| Document Name | Manual # |
|--|-----------|
| | |
| ODBC driver for Windows User Guide | BD35-3061 |
| JDBC driver Installation and User Guide | BD35-2403 |
| CLI2 Developers Kit for Windows | BD35-2408 |
| Call Level Interface V2 for Channel attached | BD35-2417 |
| Call Level Interface V2 for Network attached | BD35-2418 |
| Access Module Programming Reference | BD35-2424 |
| Access Module Reference | BD35-2425 |
| | |
| TDP Reference | BD35-2416 |
| Teradata Application programming | BD35-2446 |
| Data Definition Language Processor Reference | BD35-2449 |
| CICS Interface to the Teradata DBS | BD35-2448 |
| IMS Interface to the Teradata DBS | BD35-2447 |
| TS/API User's Guide | BD35-2419 |

TDP COMMAND SUMMARY

TDP commands are listed alphabetically. Capital letters are used to indicate the minimum abbreviation required for that keyword.

These commands may be entered from the MVS or VM console, or by a VM/TSO user (Through SMSG or DBCCMD) who has been so AUTHORIZED.

```
ADD
         { } SIZe cellsize NUMber numcells
ATTach
       ifpname
                   {RESOLVE }
         {userid}
                  {None }
AUthoriz {job }
                  {Display }
         {ALL
               }
                  {Any
                   {AUthoriz}
      { ALL
COMMIT {
                       } COORD name [ HOST id ]
       { SESSION number }
DETach
        ifpname
DISAble IRF
DISAble LGUX
DISAble LOGONS
                   { ID poolid }
DISAble POOL
                   { <u>ALL</u> }
DISable SESSRSRV
DISAble SMF
                   { SUBn [... SUBn] }
                   { ALL
DISAble TEST
```

```
DISAble TIMe
DISAble TMON
DISAble UAX
DISAble USEC
Display CELls [VERify]
Display { IFP } [STATE]
      { ifpname }
              { SESSIONS COORD name [RESOLVED] }
                                            } [HOST id]
Display INDoubt {
              { COORDS
Display POOL {ID poolid}
        {<u>ALL</u> }
Display Queues
{ JOB jobname
Display SMF
Display [TDP]
ENAble IRF
```

ENAble LGUX

ENAble LOGONS

```
ENAble POOL { ID poolid }
                { <u>ALL</u> }
ENAble SESSRSRV
ENAble
                { SUBn [... SUBn] }
        SMF
                { ALL
ENAble
        TEST
ENAble
        TIMe
ENAble
        TMON
ENAble
        UAX
ENAble USEC
                  SESsions {
         { JOB jobname
       POOL {ID poolid}
LOGOFF
              {ALL }
MODIFY POOL ID poolid NUM number
ROLLBACK {
                        COORD name [ HOST id ]
         { SESSION number }
RUN
        [TDPn]
                { comchar }
SET
         COMchar {
SET
        MAXSess numberofsessions
         { CANCEL }
```

```
SHUTDOWN { QUICk
         { Orderly }
STArt
         ifpname
STArt
        POOL DDNAME filename
STArt
        POOL NUM number [JOB jobname] [RUN string] [ID poolid]
                CHarset charactersetname
                 { LOG username, password [, 'acctid'] } { NULLpwd LOG username [,,'acctid'] }
STOp
         ifpname
STOp
          POOL
                  {ID poolid}
                   {ALL
                          }
```

CONSOLE OPERATOR COMMANDS

```
{ hostid:session# }
             { hostid.username }
ABORT
      SESSION { *.username } [LOGOFF] [LIST] [OVERRIDE]
            { hostid.* } { *.* }
             * . *
CNSGET
     { DBWTIMEOUT }
CNSSET { LINES } n 
 { STATEPOL } 
 { TIMEOUT }
DISABLE LOGONS
ENABLE LOGONS
       { CONFIG
     { LOGTABLE { tblname }
GET
     { PERMISSIONS userid@host }
                                 SVPR SPMA SCTL IPMA SLDV SHST
     { RESOURCE
     { TIME
     { VERSION
     { SSO
log restart interactive(<pgmname>)
LOG ErrorLogText
QUERY STATE
       RESTART
           { NO } }
REVOKE userid@host priv [... priv]
       LOGTABLE { ALL } {ON } \leftarrow See above for table names
SET
              { tblname } {OFF}
      RESOURCE COLL[ECTION] n1 { NODE } LOG[GING] n2
SET
                        { VPROC }
```

```
SET
```

```
SET SSO { ON } { ONLY }
```

```
{ CONFIG
                               { DBSCONTROL
                               { DIP
                               { DUMPLOCKLOG
                               { FERRET
                               { FILER
                               { LOCKDISP
             [-Vn ] { QRYCONFIG
       [ 1 ]
       [ 2 ] [,DEBUG] [,VPROC=n] { QRYSESSN
START
       [ 3 ]
             [-V=n ] { RCVMANAGER
       [ 4 ]
                               { REBUILD
                               { RECONFIG
                               { SHOWLOCKS
                               { SYSINIT
                               { TPCCONS
                               { UPDATEDBC
                               { UPDATESPACE
                               { VPROCMANAGER
                               { XGTWGLOBAL -nw }
```

{ ABORTHOST { CHECKTABLE

STOP { 2 } { 3 } { 4 }

Subcommand for CHECKTABLE:

Subcommands for FERRET:

DATE

DEFRAG[MENT] [/Y]

[TO { file }]
ERRORS [INTO { STDERR }]
[OVER { ME }]

```
[ keyword ]
          [/L] [ ALL ]
H[ELP]
               [ ?
IN[PUT] FROM file
OUT[PUT] [ TO { file } ] ]
[ OVER { ME } ]
PACKDISK [/Y] [ { FREE [SPACEPERCENT] } [=] n ]
               [ { FSP
Q[UIT]
                                        (Same as END, EXIT, STOP)
       [ IN[PUT] ] [ H[EX] ]
[ OUT[PUT] ] [ D[EC] ]
RADIX
          [\underline{/S}] [\underline{DB}]
SCANDISK [/M] [ CI
                            ] [ FIX ]
         [/L] [ MI
                           ]
               [ FREE[CIS] ]
                   {ALL
                   { PER [MANENT]
                   {PJ
                   {SP[OOL]
                   {( PER[MANENT] [, PJ] [, SP[OOL]] )
                   {CY[LINDER] {ALL
                                {drive cyl [... drive cyl]} } ]
SCOPE
          [ CLASS {
                   {TA[BLE]
                                {ALL
                                {tableid
                                           [... tableid]}
                   {VPROC
                                {ALL
                                {vprocid}
                                {(vprocid TO vprocid)}
            [/S]
SHOWBLOCKS [M]
            [/L]
SHOWD[EFAULTS]
SHOWFSP
SHOWSPACE [/S]
           [/L]
```

 $\begin{array}{c} \{ \underline{\mathtt{DATABASE}} \} \\ \mathtt{WITH} \ \ \{ \underline{\mathtt{TABLE}} \ \} \ \ \, \mathtt{LOCK} \\ \{ \mathtt{ROWRANGE} \} \end{array}$