DBA Cheat Sheet

One note of caution: if you don't know what a specific keyword of a command does, don't use it without checking out its purpose. This is a reference for those who understand what something like cascade constraints means when associated with a drop table command.

```
alter cluster
ALTER CLUSTER pub cluster SIZE 4K;
ALTER CLUSTER pub cluster DEALLOCATE UNUSED KEEP 1M;
alter database: Alter a Data File
ALTER DATABASE DATAFILE 4 OFFLINE;
ALTER DATABASE DATAFILE '/opt/oracle/datafile/users01.dbf' OFFLINE;
ALTER DATABASE DATAFILE '/opt/oracle/datafile/users01.dbf'
RESIZE 100m;
ALTER DATABASE DATAFILE '/opt/oracle/datafile/users01.dbf'
AUTOEXTEND ON NEXT 100M MAXSIZE 1000M;
ALTER DATABASE DATAFILE 4 END BACKUP;
alter database: Alter a Tempfile
ALTER DATABASE TEMPFILE 4 RESIZE 100M;
ALTER DATABASE TEMPFILE 4
AUTOEXTEND ON NEXT 100M MAXSIZE 1000M;
ALTER DATABASE TEMPFILE 4 DROP INCLUDING DATAFILES;
ALTER DATABASE TEMPFILE 4 OFFLINE;
alter database: ARCHIVELOG Mode Commands
ALTER DATABASE ARCHIVELOG;
ALTER DATABASE NOARCHIVELOG;
ALTER DATABASE FORCE LOGGING;
ALTER DATABASE CLEAR LOGFILE '/opt/oracle/logfiles/redo01.rdo';
ALTER DATABASE CLEAR UNARCHIVED LOGFILE
'/opt/oracle/logfiles/redo01.rdo';
ALTER DATABASE ADD SUPPLEMENTAL LOG DATA;
ALTER DATABASE ADD SUPPLEMENTAL LOG DATA (PRIMARY KEY, UNIQUE);
ALTER DATABASE DROP SUPPLEMENTAL LOG DATA;
alter database: Control File Operations
ALTER DATABASE BACKUP CONTROLFILE TO TRACE;
ALTER DATABASE BACKUP CONTROLFILE TO TRACE
AS '/opt/oracle/logfile backup/backup logfile.trc'
REUSE RESETLOGS;
ALTER DATABASE BACKUP CONTROLFILE TO
'/opt/oracle/logfile backup/backup logfile.ctl';
alter database: Create a Data File
ALTER DATABASE CREATE DATAFILE
'/opt/oracle/datafile/users01.dbf' AS '/opt/oracle/datafile/users01.dbf';
ALTER DATABASE CREATE DATAFILE 4
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AS '/opt/oracle/datafile/users01.dbf';
ALTER DATABASE CREATE DATAFILE
'/opt/oracle/datafile/users01.dbf' AS NEW;
alter database: Datafile Offline/Online
See alter database: Alter a Data File
alter database: Logfile Commands
ALTER DATABASE ADD LOGFILE GROUP 2
('/opt/oracle/logfiles/redo02a.rdo', '/opt/oracle/logfiles/redo02b.rdo')
SIZE 300M REUSE;
ALTER DATABASE ADD LOGFILE MEMBER
'/opt/oracle/logfiles/redo02c.rdo'
to GROUP 2;
ALTER DATABASE ADD LOGFILE thread 3 GROUP 2
('/opt/oracle/logfiles/redo02a.rdo', '/opt/oracle/logfiles/redo02b.rdo')
SIZE 300M REUSE;
ALTER DATABASE DROP LOGFILE GROUP 3;
ALTER DATABASE DROP LOGFILE MEMBER '/opt/oracle/logfiles/redo02b.rdo';
alter database: Mount and Open the Database
ALTER DATABASE MOUNT:
ALTER DATABASE OPEN;
alter database: Move or Rename a Database File or Online Redo Log
NOTE
The database must be mounted to rename or move online redo logs.
The database must be mounted or the data files taken offline to move
database data files.
ALTER DATABASE RENAME FILE '/ora/datafile/oldfile.dbf' TO
'/ora/datafile/newfile.dbf';
alter database: Open the Database Read-Only
ALTER DATABASE OPEN READ ONLY;
alter database: Open the Database with resetlogs
ALTER DATABASE OPEN RESETLOGS:
alter database: Recover the Database
For database recovery, I recommend the use of the recover command instead. See the
"recover"
section, later in the chapter.
alter function: Recompile a Function
ALTER FUNCTION my_function COMPILE;
alter index: Allocate and Deallocate Extents
ALTER INDEX ix my tab ALLOCATE EXTENT;
ALTER INDEX ix my tab ALLOCATE EXTENT
DATAFILE '/ora/datafile/newidx.dbf';
ALTER INDEX ix_my_tab DEALLOCATE UNUSED;
ALTER INDEX ix my tab DEALLOCATE UNUSED KEEP 100M;
alter index: Miscellaneous Maintenance
ALTER INDEX ix my tab PARALLEL 3;
ALTER INDEX ix my tab NOPARALLEL;
ALTER INDEX ix_my_tab NOCOMPRESS;
ALTER INDEX ix my tab COMPRESS;
alter index: Modify Logging Attributes
```

ALTER INDEX ix_my_tab LOGGING;
ALTER INDEX ix my tab NOLOGGING;

alter index: Modify Storage and Physical Attributes

ALTER INDEX ix_my_tab PCTFREE 10 PCTUSED 40 INITRANS 5 STORAGE (NEXT 100k MAXEXTENTS UNLIMITED FREELISTS 10 BUFFER POOL KEEP);

alter index: Partition – Add Hash Index Partition

ALTER INDEX ix_my_tab ADD PARTITION TABLESPACE NEWIDXTBS;

alter index: Partition – Coalesce Partition

ALTER INDEX ix my tab COALESCE PARTITION;

alter index: Partition – Drop Partition

ALTER INDEX ix_my_tab DROP PARTITION ix_my_tab_jan_04;

alter index: Partition - Modify Default Attributes

ALTER INDEX ix_my_tab MODIFY DEFAULT ATTRIBUTES FOR PARTITION ix_my_tab_jan_04 PCTFREE 10 PCTUSED 40 TABLESPACE newidxtbs NOLOGGING COMPRESS;

alter index: Partition – Modify Partition

ALTER INDEX ix_my_tab MODIFY PARTITION ix_my_tab_jan_04 DEALLOCATE UNUSED KEEP 100M; ALTER INDEX ix_my_tab MODIFY PARTITION ix_my_tab_jan_04 ALLOCATE EXTENT SIZE 100m;

ALTER INDEX ix_my_tab MODIFY PARTITION ix_my_tab_jan_04 PCTUSED 40 STORAGE(NEXT 50m) NOLOGGING;

alter index: Partition – Modify Subpartition

ALTER INDEX ix_my_tab MODIFY SUBPARTITION ix_my_tab_jan_04 DEALLOCATE UNUSED KEEP 100M;

ALTER INDEX ix_my_tab MODIFY SUBPARTITION ix_my_tab_jan_04 ALLOCATE EXTENT SIZE 100m;

ALTER INDEX ix_my_tab MODIFY SUBPARTITION ix_my_tab_jan_04 PCTUSED 40 STORAGE(NEXT 50m) NOLOGGING;

alter index: Partition – Rename

ALTER INDEX ix_my_tab RENAME
PARTITION ix_my_tab_jan_04 TO ix_my_tab_jan_05;
ALTER INDEX ix_my_tab RENAME
SUBPARTITION ix_my_tab_jan_04 TO ix_my_tab_jan_05;

alter index: Partition - Split

ALTER INDEX ix_my_tab SPLIT PARTITION ix_my_tab_jan_05
AT ('15-JAN-05') INTO PARTITION ix_my_tab_jan_05a
TABLESPACE myidxtbs
STORAGE (INITIAL 100m NEXT 50M FREELISTS 5);

alter index: Rebuild Nonpartitioned Indexes

ALTER INDEX ix_my_tab REBUILD ONLINE;
ALTER INDEX ix_my_tab REBUILD ONLINE
TABLESPACE idx_tbs_new PCTFREE 1
STORAGE (INITIAL 50M NEXT 50m FREELISTS 5)
COMPUTE STATISTICS PARALLEL 0;

alter index: Rebuild Partitions

ALTER INDEX ix_my_tab
REBUILD PARTITION ix_my_tab_jan_04 ONLINE;

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ALTER INDEX ix my tab
REBUILD SUBPARTITION ix_my_tab_jan_04 ONLINE
PCTFREE 1 STORAGE (INITIAL 50M NEXT 50m FREELISTS 5)
COMPUTE STATISTICS PARALLEL 0;
alter index: Rename
ALTER INDEX ix my tab RENAME TO 'ix my tab 01';
alter index: Shrink
ALTER INDEX ix_my_tab SHRINK SPACE;
ALTER INDEX ix my tab SHRINK SPACE COMPACT CASCADE;
alter materialized view: Allocate and Deallocate Extents
ALTER MATERIALIZED VIEW mv my tab ALLOCATE EXTENT;
ALTER MATERIALIZED VIEW mv my tab DEALLOCATE UNUSED;
alter materialized view: Miscellaneous
ALTER MATERIALIZED VIEW mv my tab COMPRESS;
ALTER MATERIALIZED VIEW mv my tab PARALLEL 3;
ALTER MATERIALIZED VIEW mv my tab NOLOGGING;
ALTER MATERIALIZED VIEW mv my tab LOGGING;
ALTER MATERIALIZED VIEW mv my tab CONSIDER FRESH;
ALTER MATERIALIZED VIEW mv my tab ENABLE QUERY REWRITE;
alter materialized view: Physical Attributes and Storage
ALTER MATERIALIZED VIEW mv_my_tab
PCTFREE 5 PCTUSED 60
STORAGE (NEXT 100m FREELISTS 5);
alter materialized view: Refresh
ALTER MATERIALIZED VIEW mv_my_tab REFRESH FAST;
ALTER MATERIALIZED VIEW mv my tab REFRESH COMPLETE;
ALTER MATERIALIZED VIEW mv my tab REFRESH FAST ON DEMAND;
ALTER MATERIALIZED VIEW mv my tab REFRESH FAST ON COMMIT;
ALTER MATERIALIZED VIEW mv my tab REFRESH COMPLETE
START WITH sysdate;
ALTER MATERIALIZED VIEW mv my tab REFRESH COMPLETE
START WITH sysdate NEXT sysdate+1/24;
alter materialized view: Shrink Space
ALTER MATERIALIZED VIEW mv my tab SHRINK SPACE;
ALTER MATERIALIZED VIEW mv my tab
SHRINK SPACE COMPACT CASCADE;
alter materialized view log: Add Components
ALTER MATERIALIZED VIEW LOG ON my tab ADD PRIMARY KEY;
ALTER MATERIALIZED VIEW LOG ON my_tab ADD (col1, col2)
INCLUDING NEW VALUES;
ALTER MATERIALIZED VIEW LOG ON my tab ADD (col1, col2),
ROWID, SEQUENCE INCLUDING NEW VALUES;
alter materialized view log: Allocate and Deallocate Extents
ALTER MATERIALIZED VIEW LOG ON my tab ALLOCATE EXTENT;
ALTER MATERIALIZED VIEW LOG ON my tab DEALLOCATE UNUSED;
alter materialized view log: Miscellaneous
ALTER MATERIALIZED VIEW LOG ON my tab PARALLEL 3;
ALTER MATERIALIZED VIEW LOG ON my tab NOLOGGING;
ALTER MATERIALIZED VIEW LOG ON my_tab SHRINK SPACE;
alter materialized view log: Physical Attributes and Storage
ALTER MATERIALIZED VIEW LOG ON my tab
```

```
PCTFREE 5 PCTUSED 60
STORAGE (NEXT 100m FREELISTS 5);
alter package: Compile
ALTER PACKAGE pk my package COMPILE;
ALTER PACKAGE pk my package COMPILE SPECIFICATION;
ALTER PACKAGE pk my package COMPILE BODY;
alter procedure: Compile
ALTER PROCEDURE pk_my_package COMPILE;
alter profile: Miscellaneous
ALTER ROLE my role IDENTIFIED BY password;
ALTER ROLE my role NOT IDENTIFIED;
alter profile: Modify Limits (Password)
ALTER PROFILE my profile LIMIT FAILED LOGIN ATTEMPTS=3;
ALTER PROFILE my profile LIMIT PASSWORD LOCK TIME=2/24;
ALTER PROFILE my profile LIMIT PASSWORD GRACE TIME=5;
ALTER PROFILE my profile LIMIT PASSWORD LIFETIME=60;
ALTER PROFILE my profile LIMIT PASSWORD REUSE TIME=365
PASSWORD REUSE MAX=3;
alter profile: Modify Limits (Resource)
ALTER PROFILE my profile LIMIT SESSIONS PER CPU=10;
ALTER PROFILE my_profile LIMIT CONNECT TIME=1000;
ALTER PROFILE my profile LIMIT IDLE TIME=60;
ALTER PROFILE my profile LIMIT PRIVATE SGA=1000000;
alter rollback segment: Online/Offline
ALTER ROLLBACK SEGMENT rbs01 OFFLINE;
ALTER ROLLBACK SEGMENT rbs01 ONLINE;
alter rollback segment: Shrink
ALTER ROLLBACK SEGMENT rbs01 SHRINK;
ALTER ROLLBACK SEGMENT rbs01 SHRINK TO 100M;
alter rollback segment: storage Clause
ALTER ROLLBACK SEGMENT rbs01 STORAGE (NEXT 50M OPTIMAL 100M);
alter sequence: Miscellaneous
ALTER SEQUENCE my seq INCREMENT BY -5;
ALTER SEQUENCE my seq INCREMENT BY 1 MAXVALUE 50000 CYCLE;
ALTER SEQUENCE my seq NOMAXVALUE;
ALTER SEQUENCE my seq CACHE ORDER;
ALTER SEQUENCE my_seq INCREMENT BY 1
MINVALUE 1 MAXVALUE 500 CYCLE;
alter session: Enable and Disable Parallel Operations
ALTER SESSION ENABLE PARALLEL DML PARALLEL 3;
ALTER SESSION ENABLE PARALLEL DDL;
ALTER SESSION DISABLE PARALLEL QUERY;
alter session: Resumable Space Management
ALTER SESSION ENABLE RESUMABLE TIMEOUT 3600;
ALTER SESSION DISABLE RESUMABLE;
alter session: Set Session Parameters
ALTER SESSION SET nls_date_format='MM/DD/YYYY HH24:MI:SS';
ALTER SESSION SET sort_area_size=10000000;
ALTER SESSION SET query rewrite enabled=TRUE;
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ALTER SESSION SET resumable timeout=3600;
ALTER SESSION SET skip unusable indexes=TRUE;
ALTER SESSION SET SQL TRACE=TRUE;
alter system: Logfile and Archive Logfile Management
ALTER SYSTEM SWITCH LOGFILE;
ALTER SYSTEM ARCHIVE LOG START;
ALTER SYSTEM ARCHIVE LOG STOP;
ALTER SYSTEM ARCHIVE LOG ALL;
ALTER SYSTEM ARCHIVE LOG THREAD 1 ALL;
ALTER SYSTEM ARCHIVE LOG ALL TO 'C:\oracle\allarch';
alter system: Set System Parameters
ALTER SYSTEM SET db cache size=325M
COMMENT='This change is to add more memory to the system'
SCOPE=BOTH;
ALTER SYSTEM SET COMPATIBLE=10.0.0
COMMENT='GOING TO 10G!' SCOPE=SPFILE;
alter system: System Management
ALTER SYSTEM CHECKPOINT GLOBAL;
ALTER SYSTEM KILL SESSION '145,334';
ALTER SYSTEM ENABLE RESTRICTED SESSION;
ALTER SYSTEM DISABLE RESTRICTED SESSION;
ALTER SYSTEM SUSPEND;
ALTER SYSTEM QUIESCE RESTRICTED;
ALTER SYSTEM UNQUIESCE;
ALTER SYSTEM RESUME;
ALTER SYSTEM FLUSH SHARED POOL;
ALTER SYSTEM FLUSH BUFFER CACHE;
alter table: External Table Operations
ALTER TABLE ext parts REJECT LIMIT 500;
ALTER TABLE ext_parts DEFUALT DIRECTORY ext_employee_dir;
ALTER TABLE ext parts ACCESS PARAMETERS
(FIELDS TERMINATED BY ',');
ALTER TABLE ext parts LOCATION ('PARTS01.TXT', 'PARTS02.TXT');
ALTER TABLE ext parts ADD COLUMN (SSN NUMBER);
alter table: Move Table
ALTER TABLE parts move TABLESPACE parts new tbs PCTFREE 10 PCTUSED 60;
alter table: Table Column – Add
ALTER TABLE PARTS ADD (part location VARCHAR2(20));
ALTER TABLE PARTS ADD (part location VARCHAR2(20), part bin VARCHAR2(30)
ALTER TABLE parts ADD (photo BLOB)
LOB (photo) STORE AS lob parts photo
(TABLESPACE parts lob tbs);
alter table: Table Column – Modify
ALTER TABLE PARTS MODIFY (part location VARCHAR2(30));
ALTER TABLE PARTS MODIFY
part location VARCHAR2(30), part bin VARCHAR2(20));
ALTER TABLE parts modify (name NOT NULL);
ALTER TABLE parts modify (name NULL);
ALTER TABLE parts MODIFY LOB (photo) (STORAGE(FREELISTS 2));
ALTER TABLE parts MODIFY LOB (photo) (PCTVERSION 50);
alter table: Table Column – Remove
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ALTER TABLE parts DROP (part location);
ALTER TABLE parts DROP (part location, part bin);
alter table: Table Column – Rename
ALTER TABLE parts RENAME COLUMN part location TO part loc;
alter table: Table Constraints – Add Check Constraint
ALTER TABLE parts ADD (CONSTRAINT ck parts 01 CHECK (id > 0) );
alter table: Table Constraints – Add Default Value
ALTER TABLE PARTS MODIFY (name DEFAULT 'Not Available');
ALTER TABLE PARTS ADD (vendor code NUMBER DEFAULT 0);
ALTER TABLE PARTS MODIFY (part description DEFAULT NULL);
alter table: Table Constraints – Add Foreign Key
ALTER TABLE parts ADD CONSTRAINT fk part bin
FOREIGN KEY (bin_code) REFERENCES part_bin;
alter table: Table Constraints – Add Primary and Unique Key
ALTER TABLE parts ADD CONSTRAINT pk parts part id
PRIMARY KEY (id) USING INDEX TABLESPACE parts index
STORAGE (INITIAL 100K NEXT 100K PCTINCREASE 0);
ALTER TABLE parts ADD CONSTRAINT uk parts part bin
UNIQUE (part bin) USING INDEX TABLESPACE parts index
STORAGE (INITIAL 100K NEXT 100K PCTINCREASE 0);
alter table: Table Constraints – Modify
ALTER TABLE parts DISABLE UNIQUE (part bin);
ALTER TABLE parts DISABLE CONSTRAINT uk parts part bin;
ALTER TABLE parts DISABLE CONSTRAINT uk parts part bin KEEP INDEX;
ALTER TABLE parts DISABLE CONSTRAINT fk part bin;
ALTER TABLE parts DISABLE CONSTRAINT fk part bin
DISABLE PRIMARY KEY KEEP INDEX;
ALTER TABLE parts ENABLE CONSTRAINT fk part bin;
ALTER TABLE parts ENABLE PRIMARY KEY;
ALTER TABLE parts ENABLE UNIQUE (part bin);
ALTER TABLE parts ENABLE NOVALIDATE CONSTRAINT fk part bin;
ALTER TABLE parts ENABLE NOVALIDATE PRIMARY KEY;
ALTER TABLE parts ENABLE NOVALIDATE UNIQUE (part bin);
ALTER TABLE parts ENABLE NOVALIDATE PRIMARY KEY
ENABLE NOVALIDATE CONSTRAINT fk part bin;
alter table: Table Constraints – Remove
ALTER TABLE parts DROP CONSTRAINT fk part bin;
ALTER TABLE parts DROP PRIMARY KEY;
ALTER TABLE parts DROP PRIMARY KEY CASCADE;
ALTER TABLE parts DROP UNIQUE (uk parts part bin);
alter table: Table Partition – Add
ALTER TABLE store sales ADD PARTITION sales q1 04
VALUES LESS THAN (TO DATE ('01-APR-2004', 'DD-MON-YYYY'))
TABLESPACE data 0104 tbs UPDATE GLOBAL INDEXES;
ALTER TABLE daily transactions ADD PARTITION;
ALTER TABLE daily transactions
ADD PARTITION Alaska VALUES ('AK');
ALTER TABLE daily transactions
add PARTITION SALES 2004 Q1 VALUES LESS THAN
(TO DATE('01-APR-2004', 'DD-MON-YYYY')) SUBPARTITIONS 4;
alter table: Table Partition – Merge
```

```
ALTER TABLE store sales
MERGE PARTITIONS Oklahoma, texas
INTO PARTITION oktx;
alter table: Table Partition - Move
ALTER TABLE store sales MOVE PARTITION sales overflow TABLESPACE
new sales overflow STORAGE (INITIAL 100m NEXT 100m PCTINCREASE 0)
UPDATE GLOBAL INDEXES;
alter table: Table Partition – Remove
ALTER TABLE store sales DROP PARTITION sales q1 04 UPDATE GLOBAL INDEXES;
alter table: Table Partition – Rename
ALTER TABLE store sales RENAME PARTITION sales q1 TO sales first quarter;
alter table: Table Partition – Split
ALTER TABLE store sales
SPLIT PARTITION sales_overflow AT
(TO_DATE('01-FEB-2004','DD-MON-YYYY') )
INTO (PARTITION sales q4_2003,
PARTITION sales overflow)
UPDATE GLOBAL INDEXES;
ALTER TABLE composite sales SPLIT PARTITION sales q1
AT (TO DATE ('15-FEB-2003', 'DD-MON-YYYY'))
INTO (PARTITION sales_q1_01 SUBPARTITIONS 4
STORE IN (q1_01_tab1, q1_01 tab2, q1_01 tab3, q1_01 tab4),
PARTITION sales q1 02 SUBPARTITIONS 4
STORE IN (q1 02 tab1, q1 02 tab2, q1 02 tab3, q1 02 tab4) )
UPDATE GLOBAL INDEXES;
alter table: Table Partition – Truncate
ALTER TABLE store sales TRUNCATE PARTITION sales overflow
UPDATE GLOBAL INDEXES;
alter table: Table Properties
ALTER TABLE parts PCTFREE 10 PCTUSED 60;
ALTER TABLE parts STORAGE (NEXT 1M);
ALTER TABLE parts PARALLEL 4;
alter table: Triggers – Modify Status
ALTER TABLE parts DISABLE ALL TRIGGERS;
ALTER TABLE parts ENABLE ALL TRIGGERS;
alter tablespace: Backups
ALTER TABLESPACE my data tbs BEGIN BACKUP;
ALTER TABLESPACE my data tbs END BACKUP;
alter tablespace: Data Files and Tempfiles
ALTER TABLESPACE mytbs
ADD DATAFILE '/ora100/oracle/mydb/mydb mytbs 01.dbf' SIZE 100M;
ALTER TABLESPACE mytemp
ADD TEMPFILE '/ora100/oracle/mydb/mydb_mytemp 01.dbf'
SIZE 100M;
ALTER TABLESPACE mytemp AUTOEXTEND OFF;
ALTER TABLESPACE mytemp AUTOEXTEND ON NEXT 100m MAXSIZE 1G;
alter tablespace: Rename
ALTER TABLESPACE my data ths RENAME TO my newdata ths;
alter tablespace: Tablespace Management
ALTER TABLESPACE my data tbs DEFAULT
STORAGE (INITIAL 100m NEXT 100m FREELISTS 3);
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```
ALTER TABLESPACE my data tbs MINIMUM EXTENT 500k;
ALTER TABLESPACE my data tbs RESIZE 100m;
ALTER TABLESPACE my data tbs COALESCE;
ALTER TABLESPACE my data tbs OFFLINE;
ALTER TABLESPACE my data tbs ONLINE;
ALTER TABLESPACE mytbs READ ONLY;
ALTER TABLESPACE mytbs READ WRITE;
ALTER TABLESPACE mytbs FORCE LOGGING;
ALTER TABLESPACE mytbs NOLOGGING;
ALTER TABLESPACE mytbs FLASHBACK ON;
ALTER TABLESPACE mytbs FLASHBACK OFF;
ALTER TABLESPACE mytbs RETENTION GUARANTEE;
ALTER TABLESPACE mytbs RETENTION NOGUARANTEE;
alter trigger
ALTER TRIGGER tr my trigger DISABLE;
ALTER TRIGGER tr my trigger ENABLE;
ALTER TRIGGER tr my trigger RENAME TO tr new my trigger;
ALTER TRIGGER tr my trigger COMPILE;
alter user: Change Password
ALTER USER olduser IDENTIFIED BY newpassword;
ALTER USER olduser IDENTIFIED EXTERNALLY;
alter user: Password and Account Management
ALTER USER olduser PASSWORD EXPIRE;
ALTER USER olduser ACCOUNT LOCK;
ALTER USER olduser ACCOUNT UNLOCK;
alter user: Profile
ALTER USER olduser PROFILE admin profile;
alter user: Quotas
ALTER USER olduser QUOTA UNLIMITED ON users;
ALTER USER olduser QUOTA 10000M ON USERS;
alter user: Roles
ALTER USER olduser DEFAULT ROLE admin role;
ALTER USER olduser DEFAULT ROLE NONE;
ALTER USER olduser DEFAULT ROLE ALL EXCEPT admin role;
alter user: Tablespace Assignments
ALTER USER olduser DEFAULT TABLESPACE users;
ALTER USER olduser TEMPORARY TABLESPACE temp;
alter view: Constraints
ALTER VIEW my view
ADD CONSTRAINT u_my_view_01 UNIQUE (empno)
RELY DISABLE NOVALIDATE;
ALTER VIEW my view DROP CONSTRAINT u my view 01;
ALTER VIEW my_view DROP PRIMARY KEY;
ALTER VIEW my view MODIFY CONSTRAINT u my view 01 NORELY;
ALTER VIEW my view MODIFY CONSTRAINT u my view 01 RELY;
alter view: Recompile
ALTER VIEW my view RECOMPILE;
analyze: Analyze Cluster
ANALYZE CLUSTER my cluster tab COMPUTE STATISTICS FOR ALL ROWS;
ANALYZE CLUSTER my_cluster_tab
ESTIMATE STATISTICS SAMPLE 10000 ROWS FOR ALL ROWS;
```

```
analyze: Analyze Index
ANALYZE INDEX ix tab 01 COMPUTE STATISTICS FOR ALL ROWS;
ANALYZE INDEX ix tab 01
ESTIMATE STATISTICS SAMPLE 10000 ROWS FOR ALL ROWS;
analyze: Analyze Table
ANALYZE TABLE mytab COMPUTE STATISTICS
FOR ALL INDEXED COLUMNS SIZE 100;
ANALYZE TABLE mytab COMPUTE STATISTICS
FOR ALL INDEXES;
audit
AUDIT ALL ON scott.emp;
AUDIT UPDATE, DELETE ON scott.emp;
AUDIT SELECT on scott.emp WHENEVER NOT SUCCESSFUL;
AUDIT INSERT, UPDATE, DELETE ON DEFAULT;
comment
COMMENT ON TABLE scott.mytab IS
'This is a comment on the mytab table';
COMMENT ON COLUMN scott.mytab.col1 IS
'This is a comment on the coll column';
COMMENT ON MATERIALIZED VIEW scott.mview IS
'This is a comment on the materialized view mview';
create cluster
CREATE CLUSTER pub cluster (pubnum NUMBER)
SIZE 8K PCTFREE 10 PCTUSED 60 TABLESPACE user data;
CREATE CLUSTER pub cluster (pubnum NUMBER)
SIZE 8K HASHKEYS 1000 PCTFREE 10 PCTUSED 60
TABLESPACE user data;
create control file
CREATE CONTROLFILE REUSE DATABASE "mydb"
NORESETLOGS NOARCHIVELOG
MAXLOGFILES 32 MAXLOGMEMBERS 3
MAXDATAFILES 200 MAXINSTANCES 1
MAXLOGHISTORY 1000
LOGFILE
GROUP 1 ('/ora01/oracle/mydb/mydb redola.rdo',
'/ora02/oracle/mydb/mydb redolb.rdo') SIZE 500K,
GROUP 2 ('/ora01/oracle/mydb/mydb redo2a.rdo',
'/ora01/oracle/mydb/mydb redo2b.rdo') SIZE 500K
DATAFILE
'/ora01/oracle/mydb/mydb system 01.dbf ',
'/ora01/oracle/mydb/mydb users 01.dbf ',
'/ora01/oracle/mydb/mydb undo 01.dbf ',
'/ora01/oracle/mydb/mydb sysaux 01.dbf '
'/ora01/oracle/mydb/mydb alldata 01.dbf ';
create database
CREATE DATABASE prodb
MAXINSTANCES 1 MAXLOGHISTORY 1
MAXLOGFILES 5 MAXLOGMEMBERS 3
MAXDATAFILES 100
DATAFILE 'C:\oracle\ora92010\prodb\system01.dbf'
SIZE 250M REUSE AUTOEXTEND ON NEXT 10240K
```

MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL DEFAULT

```
TEMPORARY TABLESPACE TEMP
TEMPFILE 'C:\oracle\ora92010\prodb\temp01.dbf'
SIZE 40M REUSE AUTOEXTEND ON NEXT 640K MAXSIZE UNLIMITED
SYSAUX TABLESPACE
DATAFILE 'C:\oracle\ora92010\prodb\sysauxtbs01.dbf'
SIZE 300M REUSE AUTOEXTEND ON NEXT 5120K MAXSIZE UNLIMITED
UNDO TABLESPACE "UNDOTBS1"
DATAFILE 'C:\oracle\ora92010\prodb\undotbs01.dbf'
SIZE 200M REUSE AUTOEXTEND ON NEXT 5120K MAXSIZE UNLIMITED
CHARACTER SET WE8MSWIN1252
NATIONAL CHARACTER SET AL16UTF16
LOGFILE
GROUP 1 ('C:\oracle\ora92010\prodb\redo01.log') SIZE 102400K,
GROUP 2 ('C:\oracle\ora92010\prodb\redo02.log') SIZE 102400K,
GROUP 3 ('C:\oracle\ora92010\prodb\redo03.log') SIZE 102400K;
create database link
CREATE DATABASE LINK my db link
CONNECT TO current user
USING 'my db';
CREATE PUBLIC DATABASE LINK my db link
CONNECT TO remote user IDENTIFIED BY psicorp
USING 'my db';
create directory
CREATE OR REPLACE DIRECTORY mydir AS
'/opt/oracle/admin/directories/mydir';
create function
CREATE OR REPLACE FUNCTION find value in table
(p value IN NUMBER, p table IN VARCHAR2,
p column IN VARCHAR2)
RETURN NUMBER IS
v found NUMBER;
v sql VARCHAR2(2000);
BEGIN
v sql:='SELECT 1 FROM '||p table||' WHERE '||p column||
' = '||p value;
execute immediate v_sql into v_found;
return v found;
END;
create index: Function-Based Index
CREATE INDEX fb upper last name emp ON emp info (UPPER(last name) );
create index: Global Partitioned Indexes
CREATE INDEX ix part my tab 01 ON store sales (invoice number)
GLOBAL PARTITION BY RANGE (invoice number)
(PARTITION part 001 VALUES LESS THAN (1000),
PARTITION part 002 VALUES LESS THAN (10000),
PARTITION part 003 VALUES LESS THAN (MAXVALUE) );
CREATE INDEX ix_part_my_tab_02 ON store sales
(store id, time id)
GLOBAL PARTITION BY RANGE (store id, time id)
(PARTITION PART 001 VALUES LESS THAN
(1000, TO DATE ('04-01-2003', 'MM-DD-YYYY') )
```

```
TABLESPACE partition 001
STORAGE (INITIAL 100M NEXT 200M PCTINCREASE 0),
PARTITION part 002 VALUES LESS THAN
(1000, TO DATE ('07-01-2003', 'MM-DD-YYYY') )
TABLESPACE partition 002
STORAGE (INITIAL 200M NEXT 400M PCTINCREASE 0),
PARTITION part 003 VALUES LESS THAN (maxvalue, maxvalue)
TABLESPACE partition 003 );
create index: Local Partitioned Indexes
CREATE INDEX ix part my tab 01 ON my tab
(col one, col two, col three)
LOCAL (PARTITION tbs part 01 TABLESPACE part tbs 01,
PARTITION tbs part 02 TABLESPACE part tbs 02,
PARTITION tbs part 03 TABLESPACE part tbs 03,
PARTITION tbs part 04 TABLESPACE part tbs 04);
CREATE INDEX ix part my tab 01 ON my tab (col one, col two, col three)
LOCAL STORE IN (part tbs 01, part tbs 02, part tbs 03, part tbs 04);
CREATE INDEX ix part my tab 01 ON my tab (col one, col two, col three)
LOCAL STORE IN (
part tbs 01 STORAGE (INITIAL 10M NEXT 10M MAXEXTENTS 200),
part tbs 02,
part tbs 03 STORAGE (INITIAL 100M NEXT 100M MAXEXTENTS 200),
part tbs 04 STORAGE (INITIAL 1000M NEXT 1000M MAXEXTENTS 200));
create index: Local Subpartitioned Indexes
CREATE INDEX sales ix ON store sales (time id, store id)
STORAGE (INITIAL 1M MAXEXTENTS UNLIMITED) LOCAL
(PARTITION q1 2003,
PARTITION q2 2003,
PARTITION q3 2003
(SUBPARTITION pq3200301, SUBPARTITION pq3200302,
SUBPARTITION pg3200303, SUBPARTITION pg3200304,
SUBPARTITION pq3200305),
PARTITION q4 2003
(SUBPARTITION pg4200301 TABLESPACE tbs 1,
SUBPARTITION pq4200302 TABLESPACE tbs 1,
SUBPARTITION pq4200303 TABLESPACE tbs 1,
SUBPARTITION pq4200304 TABLESPACE tbs 1,
SUBPARTITION pq4200305 TABLESPACE tbs 1,
SUBPARTITION pq4200306 TABLESPACE tbs 1,
SUBPARTITION pq4200307 TABLESPACE tbs 1,
SUBPARTITION pq4200308 TABLESPACE tbs 1),
PARTITION sales overflow
(SUBPARTITION pqoflw01 TABLESPACE tbs 2,
SUBPARTITION pqoflw02 TABLESPACE tbs 2,
SUBPARTITION pgoflw03 TABLESPACE tbs 2,
SUBPARTITION pqoflw04 TABLESPACE tbs 2));
create index: Nonpartitioned Indexes
CREATE INDEX ix mytab 01 ON mytab (column 1);
CREATE UNIQUE INDEX ix mytab 01 ON mytab (column 1, column 2, column 3);
CREATE INDEX ix mytab \overline{0}1 ON mytab (column 1, column 2, column 3)
TABLESPACE my indexes COMPRESS
STORAGE (INITIAL 10K NEXT 10K PCTFREE 10) COMPUTE STATISTICS;
CREATE BITMAP INDEX bit mytab 01 ON my tab(col two)
```

```
TABLESPACE my tbs;
create materialized view
CREATE MATERIALIZED VIEW emp dept mv1
TABLESPACE users BUILD IMMEDIATE
REFRESH FAST ON COMMIT WITH ROWID
ENABLE QUERY REWRITE AS
SELECT d.rowid deptrowid, e.rowid emprowid,
e.empno, e.ename, e.job, d.loc
FROM dept d, emp e
WHERE d.deptno = e.deptno;
CREATE MATERIALIZED VIEW emp dept mv3
TABLESPACE users BUILD IMMEDIATE
REFRESH FAST ON COMMIT WITH ROWID
DISABLE QUERY REWRITE AS
SELECT d.rowid deptrowid, e.rowid emprowid,
d.dname, d.loc, e.ename, e.job
FROM dept d, emp e
WHERE d.deptno (+) = e.deptno;
create materialized view: Partitioned Materialized View
CREATE MATERIALIZED VIEW part emp mv1
PARTITION BY RANGE (hiredate)
(PARTITION month1
VALUES LESS THAN (TO DATE('01-APR-1981', 'DD-MON-YYYY'))
PCTFREE 0 PCTUSED 99
STORAGE (INITIAL 64k NEXT 16k PCTINCREASE 0)
TABLESPACE users,
create procedure
CREATE OR REPLACE PROCEDURE new emp salary
(p empid IN NUMBER, p increase IN NUMBER)
AS
UPDATE emp SET salary=salary*p increase
WHERE empid=p empid;
END;
create profile
CREATE PROFILE development profile
LIMIT
SESSIONS PER USER 2 CONNECT TIME 100000 IDLE TIME 100000
LOGICAL READS PER SESSION 1000000
PRIVATE SGA 10m
FAILED LOGIN ATTEMPTS 3
PASSWORD LIFE TIME 60
PASSWORD REUSE TIME 365
PASSWORD REUSE MAX 3
PASSWORD LOCK TIME 30
PASSWORD GRACE TIME 5;
create role
CREATE ROLE developer role IDENTIFIED USING develop;
create rollback segment
CREATE ROLLBACK SEGMENT r01 TABLESPACE RBS
```

```
STORAGE (INITIAL 100m NEXT 100M MINEXTENTS 5 OPTIMAL 500M);
create sequence
CREATE SEQUENCE my seq
START WITH 1 INCREMENT BY 1 MAXVALUE 1000000 CYCLE CACHE;
create spfile
CREATE SPFILE FROM PFILE;
CREATE SPFILE='/opt/oracle/admin/mydb/pfile/spfilemybd.ora'
FROM PFILE='/opt/oracle/admin/mydb/pfile/initmybd.ora';
create synonym
CREATE SYNONYM scott user.emp FOR scott.EMP;
CREATE PUBLIC SYNONYM emp FOR scott.EMP;
create procedure
CREATE OR REPLACE PROCEDURE new emp salary
(p empid IN NUMBER, p increase IN NUMBER)
AS
BEGIN
UPDATE emp SET salary=salary*p increase
WHERE empid=p empid;
END;
create profile
CREATE PROFILE development profile
SESSIONS PER USER 2 CONNECT TIME 100000 IDLE TIME 100000
LOGICAL READS PER SESSION 1000000
PRIVATE SGA 10m
FAILED LOGIN ATTEMPTS 3
PASSWORD LIFE TIME 60
PASSWORD REUSE TIME 365
PASSWORD REUSE MAX 3
PASSWORD LOCK TIME 30
PASSWORD GRACE TIME 5;
create role
CREATE ROLE developer role IDENTIFIED USING develop;
create rollback segment
CREATE ROLLBACK SEGMENT r01 TABLESPACE RBS
STORAGE (INITIAL 100m NEXT 100M MINEXTENTS 5 OPTIMAL 500M);
create sequence
CREATE SEQUENCE my seq
START WITH 1 INCREMENT BY 1 MAXVALUE 1000000 CYCLE CACHE;
create spfile
CREATE SPFILE FROM PFILE;
CREATE SPFILE='/opt/oracle/admin/mydb/pfile/spfilemybd.ora'
FROM PFILE='/opt/oracle/admin/mydb/pfile/initmybd.ora';
create synonym
CREATE SYNONYM scott user.emp FOR scott.EMP;
CREATE PUBLIC SYNONYM emp FOR scott.EMP;
create table
CREATE TABLE my_tab
```

```
(id NUMBER, current value VARCHAR2(2000)) COMPRESS;
CREATE TABLE parts (id NUMBER, version NUMBER, name VARCHAR2(30),
Bin code NUMBER, upc NUMBER, active code VARCHAR2(1) NOT NULL
CONSTRAINT ck parts active code 01
CHECK (UPPER(active code) = 'Y' or UPPER(active code) = 'N'),
CONSTRAINT pk parts PRIMARY KEY (id, version)
USING INDEX TABLESPACE parts index
STORAGE (INITIAL 1m NEXT 1m) )
TABLESPACE parts tablespace
PCTFREE 20 PCTUSED 60 STORAGE ( INITIAL 10m NEXT 10m PCTINCREASE 0);
create tablespace: Permanent Tablespace
CREATE TABLESPACE data tbs
DATAFILE '/opt/oracle/mydbs/data/mydbs data tbs 01.dbf'
SIZE 100m;
CREATE TABLESPACE data tbs
DATAFILE '/opt/oracle/mydbs/data/mydbs data tbs 01.dbf'
SIZE 100m FORCE LOGGING BLOCKSIZE 8k;
CREATE TABLESPACE data tbs
DATAFILE '/opt/oracle/mydbs/data/mydbs data tbs 01.dbf'
SIZE 100m NOLOGGING
DEFAULT COMPRESS EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M;
CREATE TABLESPACE data tbs
DATAFILE '/opt/oracle/mydbs/data/mydbs data tbs 01.dbf'
SIZE 100m NOLOGGING
DEFAULT COMPRESS EXTENT MANAGEMENT LOCAL AUTOALLOCATE
SEGMENT SPACE MANAGEMENT AUTO;
CREATE BIGFILE TABLESPACE data tbs
DATAFILE '/opt/oracle/mydbs/data/mydbs data tbs 01.dbf'
create tablespace: Temporary Tablespace
CREATE TABLESPACE temp tbs
TEMPFILE '/opt/oracle/mydbs/data/mydbs temp tbs 01.tmp'
SIZE 100m;
create tablespace: Undo Tablespace
CREATE TABLESPACE undo tbs
TEMPFILE '/opt/oracle/mydbs/data/mydbs undo tbs 01.tmp'
SIZE 1g RETENTION GUARANTEE;
create trigger
CREATE OR REPLACE TRIGGER emp comm after insert
BEFORE INSERT ON emp FOR EACH ROW
DECLARE
v sal number;
v comm number;
-- Find username of person performing the INSERT into the table
v sal:=:new.salary;
:new.comm:=v sal*.10;
END;
create user
CREATE USER Robert IDENTIFIED BY Freeman
DEFAULT TABLESPACE users tbs
```

```
TEMPORARY TABLESPACE temp
QUOTA 100M ON users tbs
QUOTA UNLIMITED ON data tbs;
create view
CREATE OR REPLACE VIEW vw emp dept 10 AS
SELECT * FROM EMP WHERE dept=10;
CREATE OR REPLACE VIEW vw public email AS
SELECT ename first, ename last, email address
FROM EMP WHERE public='Y'
delete
DELETE FROM emp WHERE empid=100;
DELETE FROM emp e WHERE e.rowid >
(SELECT MIN (esub.ROWID) FROM emp esub
WHERE e.empid=esub.empid);
drop cluster
DROP CLUSTER scott.emp cluster
INCLUDING TABLES CASCADE CONSTRAINTS;
drop database
DROP DATABASE;
drop database link
DROP DATABASE LINK my db link;
DROP PUBLIC DATABASE LINK my_db_link;
drop directory
DROP DIRECTORY mydir;
drop function
DROP FUNCTION find_value_in table;
drop index
DROP INDEX ix my tab;
drop materialized view
DROP MATERIALIZED VIEW my mview;
DROP MATERIALIZED VIEW my mview PRESERVE TABLE;
drop materialized view log
DROP MATERIALIZED VIEW LOG ON mytab;
drop package/drop package body
DROP PACKAGE scott.my_package
DROP PACKAGE BODY scott.my package;
drop procedure
DROP PROCEDURE my proc;
drop profile
DROP PROFILE my profile CASCADE;
drop role
DROP ROLE my role;
drop rollback segment
DROP ROLLBACK SEGMENT rbs01;
drop sequence
DROP SEQUENCE my seq;
drop synonym
DROP SYNONYM my synonym;
DROP PUBLIC SYNONYM my synonym;
```

```
drop table
DROP TABLE my tab;
DROP TABLE my_tab CASCADE CONSTRAINTS;
DROP TABLE my_tab CASCADE CONSTRAINTS PURGE;
drop tablespace
DROP TABLESPACE my tbs;
DROP TABLESPACE my tbs INCLUDING CONTENTS;
DROP TABLESPACE my tbs INCLUDING CONTENTS
AND DATAFILES CASCADE CONSTRAINTS;
drop trigger
DROP TRIGGER my trigger;
drop user
DROP USER my user CASCADE;
drop view
DROP VIEW my view CASCADE CONSTRAINTS;
explain plan
EXPLAIN PLAN SET STATEMENT ID='TEST' FOR
SELECT * FROM emp WHERE EMPID=100;
flashback database
FLASHBACK DATABASE TO SCN 10000;
FLASHBACK DATABASE TO TIMESTAMP SYSDATE - 1/24;
FLASHBACK DATABASE TO BEFORE TIMESTAMP SYSDATE - 1/24;
flashback table
FLASHBACK TABLE my tab TO SCN 10000;
FLASHBACK TABLE my tab TO TIMESTAMP SYSDATE - 1/24
ENABLE TRIGGERS;
FLASHBACK TABLE my tab TO BEFORE DROP;
FLASHBACK TABLE my tab TO BEFORE DROP RENAME TO rec tab;
grants: Object Grants
GRANT SELECT ON scott.my tab TO my_user;
GRANT INSERT, UPDATE, SELECT ON scott.my tab TO my user;
GRANT SELECT ON scott.my tab TO my user WITH GRANT OPTION;
GRANT SELECT ON scott.my tab TO PUBLIC WITH GRANT OPTION;
grants: System Grants
GRANT CREATE TABLE to my user;
GRANT CREATE ANY TABLE to my user WITH ADMIN OPTION;
GRANT ALL PRIVILEGES to my user WITH ADMIN OPTION;
insert
INSERT INTO dept VALUES (100, 'Marketing', 'Y');
INSERT INTO dept (deptid, dept name, active)
VALUES (100, 'Marketing', 'Y');
INSERT INTO emp history SELECT * FROM emp a
WHERE a.empid NOT IN (SELECT empid FROM emp history);
INSERT INTO emp pay_summary
SELECT empid, sum (gross pay) FROM emp pay history
GROUP BY empid;
INSERT ALL
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date, deptid, mon sales)
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date+1, deptid, tue sales)
```

```
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date+2, deptid, wed sales)
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date+3, deptid, thur sales)
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date+4, deptid, fri sales)
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store id, start date+5, deptid, sat sales)
INTO store sales (store id, sales date, deptid, sales amt)
VALUES (store_id, start_date+6, deptid, sun_sales)
SELECT store id, start date, deptid, mon sales, tue sales,
wed sales, thur sales, fri sales, sat_sales, sun_sales
FROM store sales load;
INSERT ALL
WHEN store id < 100 THEN INTO east stores
WHEN store id >= 100 THEN INTO west stores
ELSE INTO misc stores
SELECT * FROM store sales load;
INSERT /*+ APPEND */ INTO emp VALUES (100,
'Jacob', 'Freeman', 1000, 20, null, 10, sysdate, 100,
sysdate+365);
lock table
LOCK TABLE my table IN EXCLUSIVE MODE NOWAIT;
LOCK TABLE my table IN ROW EXCLUSIVE MODE;
merge
MERGE INTO emp retire A
USING (SELECT empno, ename last, ename first, salary
FROM emp WHERE retire cd='Y') B
ON (a.empid=b.empid)
WHEN MATCHED THEN UPDATE SET
a.ename last=b.ename last,
a.ename first=b.ename first,
a.salary=b.salary
DELETE WHERE (b.retire cd='D')
WHEN NOT MATCHED THEN INSERT
(a.empid, a.ename_last, a.ename_first, a.salary)
VALUES (b.empid, b.ename last, b.ename first, b.salary)
WHERE (b.retire cd!='D');
noaudit
NOAUDIT ALL ON scott.emp;
NOAUDIT UPDATE, DELETE ON scott.emp;
NOAUDIT SELECT on scott.emp WHENEVER NOT SUCCESSFUL;
NOAUDIT INSERT, UPDATE, DELETE ON DEFAULT;
purge
PURGE TABLE my_tab;
PURGE INDEX ix_my_tab;
PURGE RECYCLEBIN;
PURGE DBA RECYCLEBIN;
PURGE TABLESPACE data tbs USER scott;
recover
RECOVER DATABASE;
```

```
RECOVER TABLESPACE user data, user index;
RECOVER DATAFILE
'/opt/oracle/admin/mydb/datafile/mydb users 01.dbf';
RECOVER DATABASE UNTIL CANCEL USING BACKUP CONTROLFILE;
RECOVER DATABASE UNTIL CHANGE 94044;
RECOVER DATABASE UNTIL TIME '2004-08-01:22:00:04';
rename
RENAME my table to my tab;
revoke: Object Grants
REVOKE SELECT ON scott.my tab FROM my user;
REVOKE INSERT, UPDATE, SELECT ON scott.my tab FROM my user;
REVOKE SELECT ON scott.my tab FROM my user;
REVOKE SELECT ON scott.my tab FROM PUBLIC;
revoke: System Grants
REVOKE CREATE TABLE FROM my user;
REVOKE CREATE ANY TABLE FROM my user;
REVOKE ALL PRIVILEGES FROM my user;
rollback
ROLLBACK;
savepoint
SAVEPOINT alpha;
select
SELECT ename last, dname
FROM emp a, dept b
WHERE a.deptid=b.deptid;
SELECT a.empid, b.dept name
FROM emp a, dept b
WHERE a.deptid=b.deptid (+);
SELECT a.empid, b.dept name
FROM emp a LEFT OUTER JOIN dept b
ON a.deptid=b.deptid;
SELECT * FROM dept WHERE EXISTS
(SELECT * FROM emp
WHERE emp.deptid=dept.deptid
AND emp.salary > 100);
SELECT ename first, ename last,
CASE deptid
WHEN 10 THEN 'Acounting' WHEN 20 THEN 'Sales'
ELSE 'None' END FROM emp;
SELECT empid, ename last, salary, comm
FROM emp a
WHERE salary*.10 > (SELECT AVG(comm) FROM emp z
WHERE a.deptid=z.deptid);
WITH avg dept sales AS (
SELECT a.deptid, avg(b.sales amt) avg sales
FROM emp a, dept sales b
WHERE a.deptid=b.deptid
GROUP BY a.deptid),
emp salaries AS
(SELECT empid, AVG(salary) avg salary FROM emp
```

```
GROUP BY empid)
SELECT * FROM emp salaries b WHERE avg salary*.05 >
(SELECT avg sales FROM avg dept sales);
SELECT /*+ INDEX (a, emp last name ix) */ empid
FROM emp a WHERE ename last='Freeman'
SELECT empid, TO CHAR (retire date, 'MM/DD/YYYY')
FROM emp
Color profile: Generic CMYK printer profile
Composite Default screen
WHERE retire date IS NOT NULL
ORDER BY retire date
SELECT empid, COUNT(*)
FROM emp
GROUP BY empid
HAVING COUNT(*) > 1;
SELECT empid, salary FROM emp
AS OF TIMESTAMP (SYSTIMESTAMP - INTERVAL '1' DAY)
WHERE empid=20;
SELECT empid, salary FROM emp
VERSIONS BETWEEN
TIMESTAMP SYSTIMESTAMP - INTERVAL '1' DAY AND
SYSTIMESTAMP - INTERVAL '1' HOUR
WHERE empid=20;
set constraints
SET CONSTRAINTS ALL IMMEDIATE;
SET CONSTRAINTS ALL DEFERRED;
SET CONSTRAINT fk my tab DEFERRED;
set transaction
SET TRANSACTION USE ROLLBACK SEGMENT rbs01;
SET TRANSACTION READ ONLY;
SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;
truncate
TRUNCATE TABLE my tab;
TRUNCATE TABLE my tab PRESERVE MATERIALIZED VIEW LOG;
TRUNCATE TABLE my tab REUSE STORAGE;
TRUNCATE TABLE my tab DROP STORAGE;
update
UPDATE emp SET salary=100 WHERE empid=100;
UPDATE emp SET salary=NULL, retire date=SYSDATE
WHERE empid=100;
UPDATE emp SET salary=salary*1.10
WHERE deptid IN
(SELECT deptid FROM dept WHERE dept name = 'Sales');
UPDATE emp a SET (salary, comm) =
(SELECT salary*1.10, comm*1.10
FROM emp b WHERE a.empid=b.empid);
INSERT INTO store sales
PARTITION (store sales jan 2004) sa
SET sa.sales amt=1.10 where store id=100;
```