

### Optimization

```
ANALYZE TABLE <table> ESTIMATE
STATISTICS [SAMPLE # ROWS|PERC-
ENT];
Execute DBMS_UTILITY.ANALYZE_SCH-
EMA('<name>','COMPUTE');
ANALYZE TABLE <table> DELETE
STATISTICS;
```

### Index types

**B-Tree** Best used on foreign keys and small selections

```
CREATE INDEX <index-
name> ON <table> ;
```

**Compressed** Only used on several columns indexes

```
CREATE [UNIQUE]
INDEX <indexname> ON
<table> COMPRESS;
```

**Bitmap** Used on columns with recurrent values

```
CREATE BITMAP INDEX
<indexname> ON <table>
(column) STORAGE
(INITIAL #K NEXT #K);
```

**Reversed Key** When the last values are the more important

```
CREATE INDEX
UNIQUE <indexname>
ON <table>(column);
```

```
ALTER INDEX REBUILD [REVERSE|ONL-
INE|COMPRESS]; can also be used to
modify the type.
```

### Boot/Shutdown

```
STARTUP;          SHUTDOWN;
(assumes startup
open)

STARTUP           SHUTDOWN
MOUNT;           IMMEDIATE; (disco-
nnects users)

STARTUP OPEN;
```

### Tablespace

```
CREATE TABLESPACE <name>
DATAFILE </path/to/datafile> SIZE #K|M
AUTOEXTEND ON
SEGMENT SPACE MANAGEMENT AUTO
EXTENT MANAGEMENT LOCAL
UNIFORM SIZE #K|M;
```

\* A table space is a logical storage unit. It can handle tables and data.

### RMAN

```
RMAN TARGET=[user/pass@]<basenam-
e>;
```

#### BACKUP [HOW] WHAT [OPTION];

```
ex: BACKUP DATABASE PLUS
ARCHIVELOG DELETE INPUT;
```

info:RMAN is launched from the OS CLI and assumes SYSDBA as default user.

### RMAN - options

```
INCREMENTAL LEVEL [0|1]
VALIDATE
DATABASE
TABLESPACE <name>
DATAFILE <name>
CURRENT CONTROLFILE
ARCHIVELOG <name>
NOT BACKED UP [since]
```

### RMAN - incremental levels



#### Level 0

#### Level 1

Level 0 does a full backup since the last complete backup. A level 1 does it since the last incremental backup.

OBEY



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