Startup & shut down

# startup methods:

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1. startup nomount

2. Startup mount

3. Startup

4. Startup restrict

5. Startup force

6. Startup upgrade

1. startup nomount :

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\* in order to put the database in nomount pfile is required.

\* It reads the pfile and allocates memory to instance and start the background process.

\* In nomount state we can perform controlfile recreate or restore.

2. startup mount :

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\* in order to put database in mount state controlfile is required.

\* In mount state we can perform database recovery and archive log mode enable / disable and flashback.

3. startup :

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\* To open the database it must be consistant.

\* When the startup command fired it check the pfile and controlfile and check the checkpoit\_change# values and start the database.

# How to know databases is consistant:

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\* Checkpoint \_change# is the information available in controlfile.

\* select checkpoint\_change# from v$database;

12345

\* Select checkpoint\_change# from v$datafile;

12345

12345

12345

\* The values should match then it is consistant.

\* we cannot open the inconsistant database.

4. startup restrict :

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\* during migration activities no user is allowed to connect database .while performing migrations we put database in restricted mode.

\* In the restrict mode no user is allowed to login database.

\* Select Instance\_name,logins form v$instance;

\* Even the database is in restricted mode only sys and system can access the database.

# To disable startup restrict

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\* shutdown and startup again

OR

\* alter system disable restricted session;

5. startup force :

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\* shut abort + normal startup

\* It will shut abort the database and startup normal.

# shut down methods:

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1. Shutdown normal

2. Shutdown transactional

3. Shutdown immediate

4. Shutdown abort

1. shutdown normal:

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\* shutdown normal cannot use in realtime.

\* If any user connected to database shutdown normal will not work .

\* To shutdown normal no users should be connected to database.

2. shutdown transactional :

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\* it will check for the pending transactions.

\* If any pending transactions it will wait untill the transaction is commit.

\* Even though any user is connected it will shutdown but there should be no any pending transactions.

3. shutdown immediate :

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\* It won’t bother about the connected users and pending transactions.it will shutdown database.

\* The pending transactions will be rollback. SMON is the background process it will roll back the transactions.

4. shutdown abort :

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\* Instance will crash or terminated in shut abort.

Instance :

\* memory + background processes

\* Memory= SGA+PGA

\* in the next startup of database SMON

will do the instance recovery.

\* during shut abort transactions which are commited are roll forward ( written into datafile)

\* Transactions which are not commited are roll back.