

Analysis of an Existing Oracle instance (eg ORCL)

1. You can connect to Oracle as administrator with the command ;
\$) sqlplus / as sysdba (or \$)sqlplus sys/isima as sysdba)

List the instance name, database name and the value of data block size.

2. List the name and the size of data files, log files and the name of control files.
3. Display version number.
4. What is the number of dynamic views ?

Stopping and starting an instance (eg ORCL)

1. Try to change the value of the data block size and observe what happens ;
 - a. stop the database
 - b. copy an existing parameter file

\$) cp /u01/app/oracle/admin/orcl/pfile/init.ora.89..... myinit.ora

- c. change the db_block_size parameter (double its size) in your parameter file myinit.ora
- d. restart the database

\$)startup pfile =/myinit.ora

2. .Connect under scott/tiger and insert lines into the EMP table (ex. Insert into emp (empno, ename) values (1000, 'toto')) . Open a second session and try to stop the database in normal mode and then in immediate shutdown mode, explain what happens in each case.
3. Restart the instance. Open a new sqlplus session as scott/tiger and check what happened with the employee 'toto' you inserted earlier.

4. Make sure there are at least two open sessions, one session as scott and another as administrator. From the scott session, insert one tuple into the EMP table. From the SYS session, stop the instance in transaction mode (shutdown transactional). What is going on ?
5. Open a new shell window and try logging in as scott/tiger. What is going on ?
6. Return to the scott session from which you performed the insertion of the table emp. Validate the transaction with the command "commit". What happens at the SYS session from which you ran "shutdown transactional" ?

Creating a new database

1. Create the following directories:

`/u01/app/oracle/oradata/FI`

`/u01/app/oracle/flash_recovery_area/FI`

`/u01/app/oracle/admin/FI`

`/u01/app/oracle/admin/FI/adump`

`/u01/app/oracle/admin /FI/dpdump`

`/u01/app/oracle/admin/FI/pfile`

2. Create a new initFI.ora parameter file in the ../FI/pfile directory by copying from the pfile in ../orcl/pfile and modify the following:

- Replace the word orcl with FI
- Comment the memory_target lines and undo_tablespace
- Add the parameter instance_name ;

`Instance_name=FI`

- Modify the control_files parameter ;

`Control_files= ("/u01/app/oracle/oradata/FI/control01.ctl")`

3. Download creationFI.sql script file on the site and check the content of this file, specially the options logfile, datafile, maxlogfiles, maxdatafiles,
4. Start the instance with the option “nomount” with your pfile. Run the script creationFI.sql.
5. After creation, Make sure that the database files have been created. Display the name of data files, control files and log files.
6. Try to display the name of the users of the database? What is going on ?

Creating Data Dictionary Views and Creating Standard Packages

1. Create the data dictionary views.
2. Display the name of the users of the database.
3. Establish the use of PL / SQL functionality.
4. Execute the utlsampl.sql script used to create the sample database (scott/tiger user and tables emp, dept, ...).
5. Verify that the scott/tiger user has been created along with the associated sample database.