# CIS119DP – ORACLE DATABASE ADMINISTRATION

## CREATING A MANUAL DATABASE IN LINUX/UNIX

Where <SID> is the name of the database you are creating and is case-sensitive

1. **Set Up Your Environment in OS:**

   ```
   $ echo $ORACLE_HOME
   $ echo $ORACLE_SID
   $ echo $PATH
   $ echo $LD_LIBRARY_PATH
       double-check that the name of the database and oracle version are correct
       check that $ORACLE_HOME/bin is in the $PATH
       check that $LD_LIBRARY_PATH includes $ORACLE_HOME/lib
   ```

   If not set:

   ```
   $ setenv ORACLE_HOME=<ORACLE_HOME>
   $ setenv ORACLE_SID=<SID>
   $ setenv PATH=$ORACLE_HOME/bin:$PATH
   $ setenv LD_LIBRARY_PATH /usr/lib:$ORACLE_HOME/lib

   $ echo $ORACLE_HOME
   $ echo $ORACLE_SID
   $ echo $PATH
   $ echo $LD_LIBRARY_PATH
   ```

   and double-check the settings

   *in Korn shell the export command is used in place of setenv

2. **Run orapwd to create password file:**

   ```
   $ orapwd file=<pwf location> password=<pwf password> entries=5
   ```

   for example:

   ```
   $ orapwd file=$ORACLE_HOME/dbs/pw<SID> password=oracle entries=5
   ```

3. **Edit init<SID>.ora:**

   In the vi editor, edit the file making sure that any directories referenced exist and that all SID names are the new sid. Decide on block size and nls_lang as these cannot be changed at a later date. Make certain to save the file in $ORACLE_HOME/dbs/init<SID>.ora.

#### 4. Nomount Database:

Note : If you Open a new xterm repeat step 1 to setup environment

$ sqlplus /nolog

SQL> connect sys/<pwf password> as sysdba

Must see the message : Connected to an Idle Instance

If you see any errors, correct your init<SID>.ora and try again

#### 5. Edit Create Database Script :

In the vi editor follow the textbook and save the create database script. (Use of OMF in Oracle 9.x simplifies this script).

#### 6. Run Create Database Script:

```
SQL> startup nomount pfile=<path to pfile or put in default loc>
SQL> @cr_database_script (whatever you called it)
```

#### 7. If you get any errors when running create database script:

```
SQL> Shutdown Immediate
SQL> exit
Correct the error in the create database script
Clean up any files which were created (.dbf, .ctl, .log)
Start at step 5
```

#### 8. Create Data Dictionary and Procedures:

```
SQL> spool cat.out
SQL> connect sys/change_on_install
SQL> @%ORACLE_HOME%\rdbms\admin\catalog.sql
SQL> @%ORACLE_HOME%\rdbms\admin\catproc.
SQL> spool off
SQL> connect system/manager
SQL> @%ORACLE_HOME%\sqlplus\admin\pupbld.sql
```

Review cat.out for errors other than object does not already exist

#### 9. Post Install Steps (some are optional):

Create user tablespaces
Create additional rollback segments
Create spfile (Oracle 9.x only)
Change sys and system password
Create additional users
Add listener.ora and tnsnames.ora entries
Turn on archivelog mode

Linux / UNIX