

PDA ASSIGNMENT 02

Oracle

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QUESTION 01)

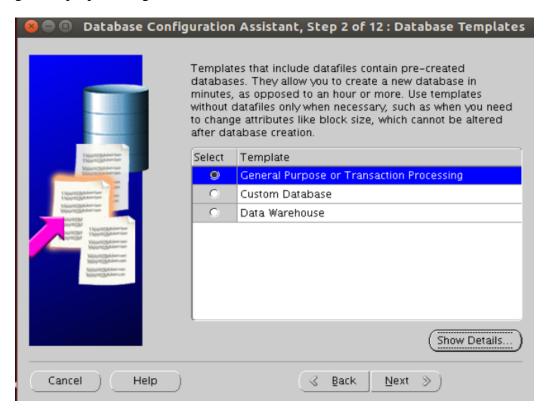
- Creating a New Database
 - ✓ Go inside the Oracle's bin Directory and open that directory in terminal. Then run Database Configuration assistant using "./dcba" for Create a new Database.



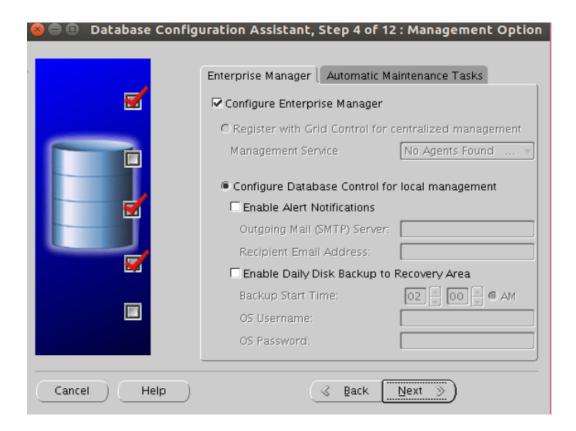




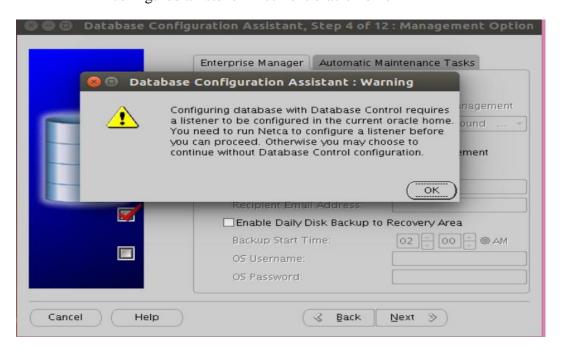
General Purpose or Transaction processing: This template creates a database designed for general purpose usage. It combines features of both the DSS and OLTP database templates.





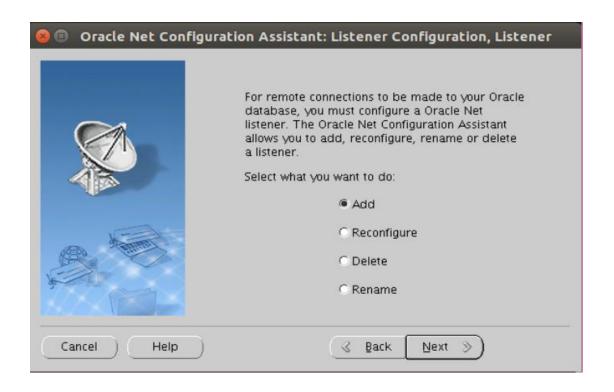


✓ configured a listener in current oracle home

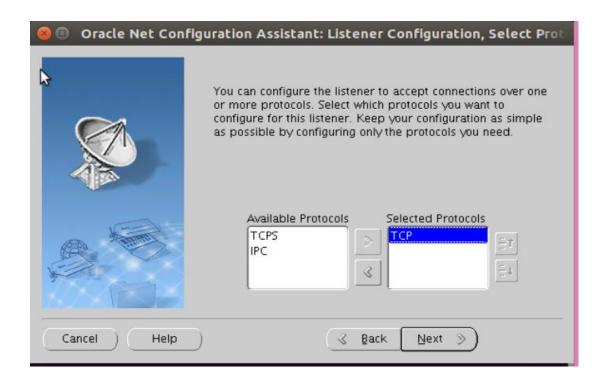


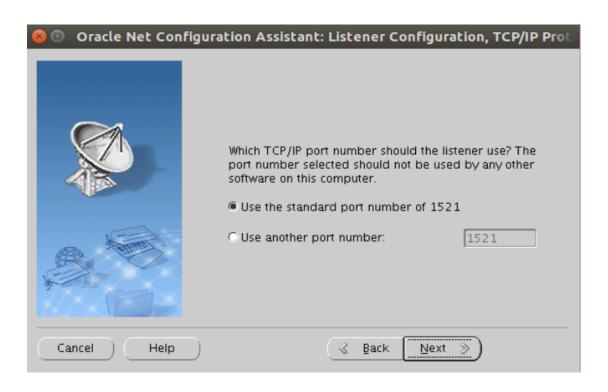
oracle@ubuntu:/u01/app/oracle/product/11.2.0/dbhome_1/bin
oracle@ubuntu:~\$ cd /u01/app/oracle/product/11.2.0/dbhome_1/bin
oracle@ubuntu:/u01/app/oracle/product/11.2.0/dbhome_1/bin\$./ne
tca
Oracle Net Services Configuration:





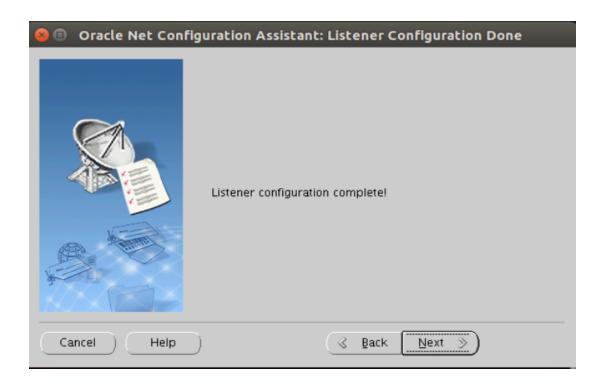






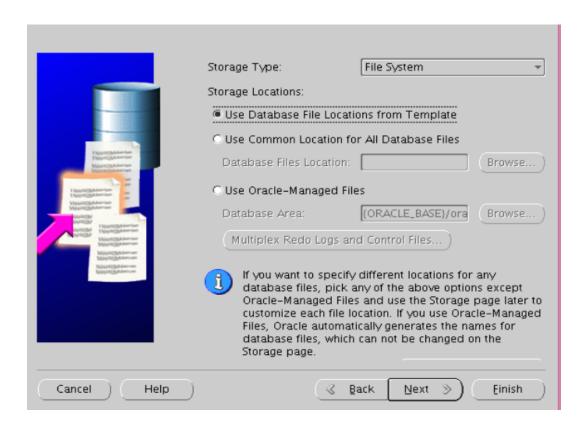




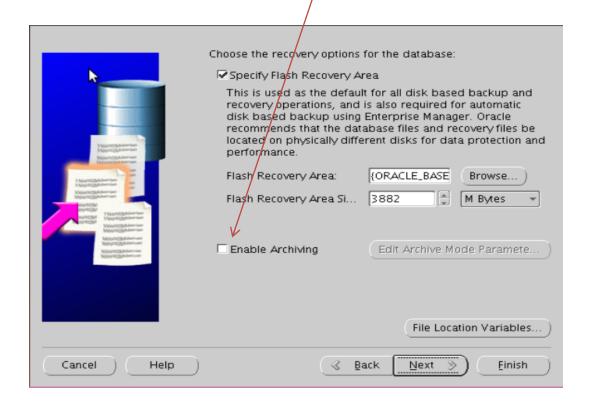


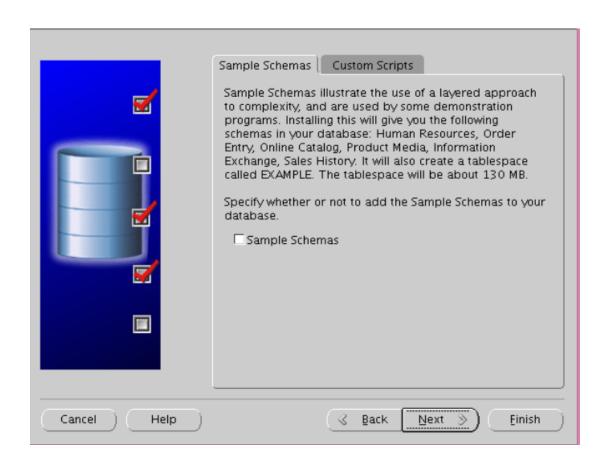
Set passwords for all accounts

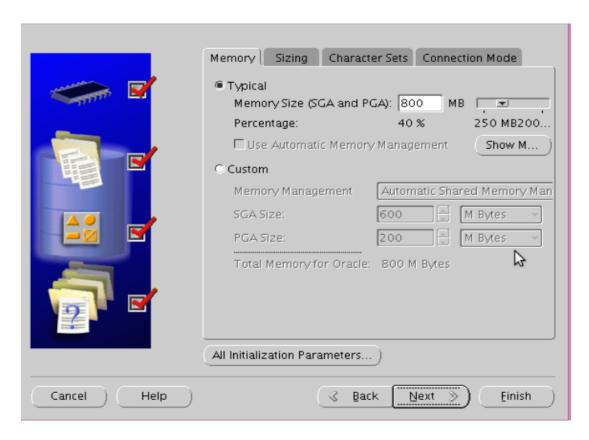




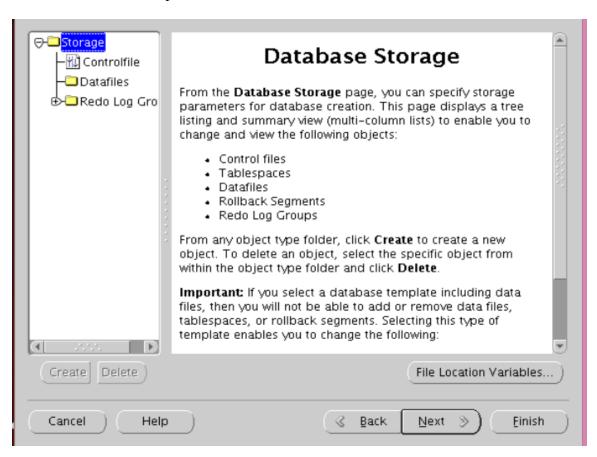
• Database With Non-Archive Log Mode

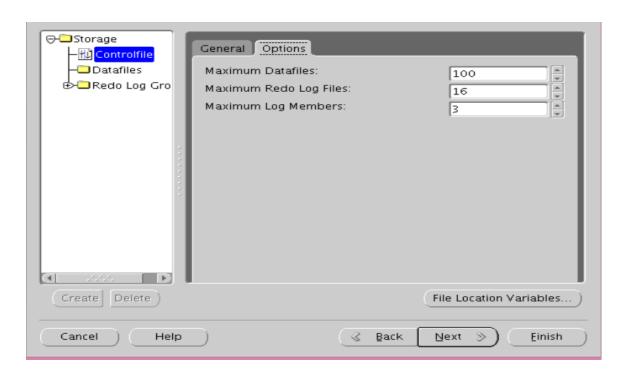


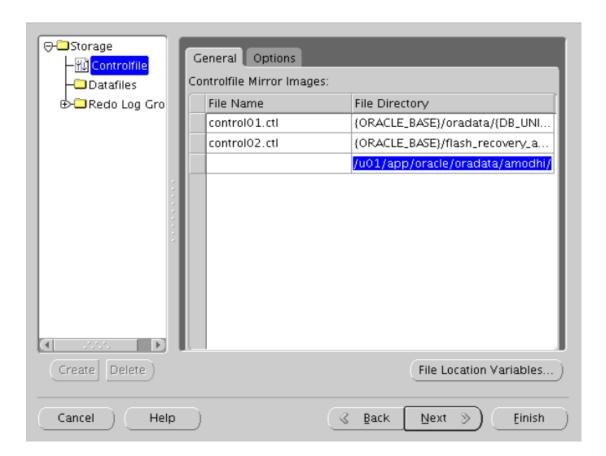




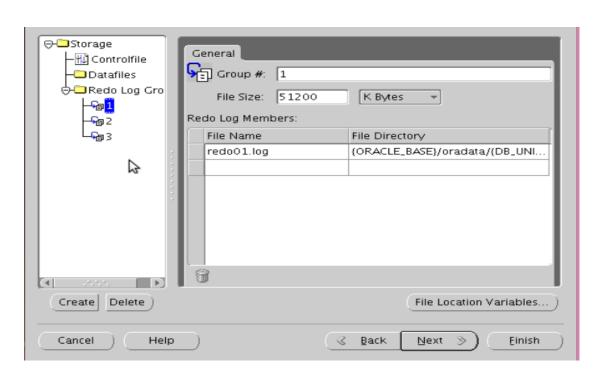
• Create Three Copies of Control Files in Different Directories

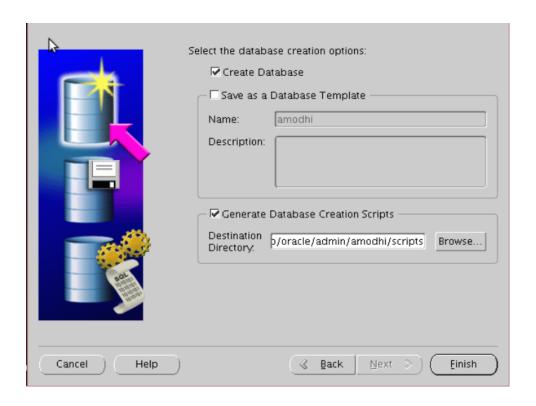


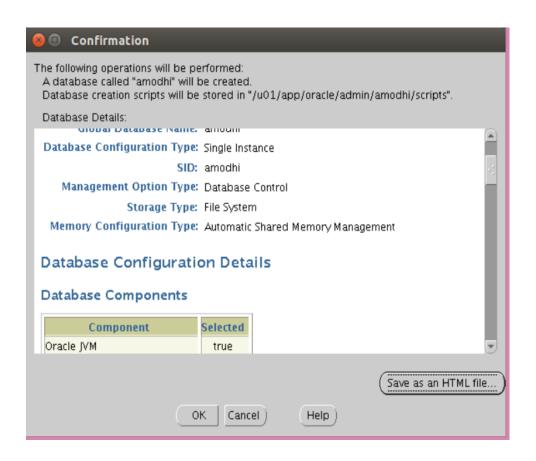


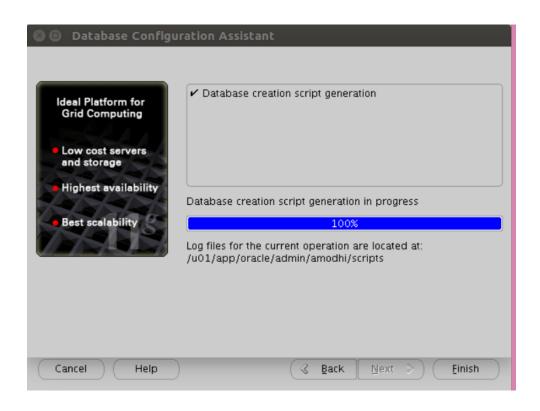


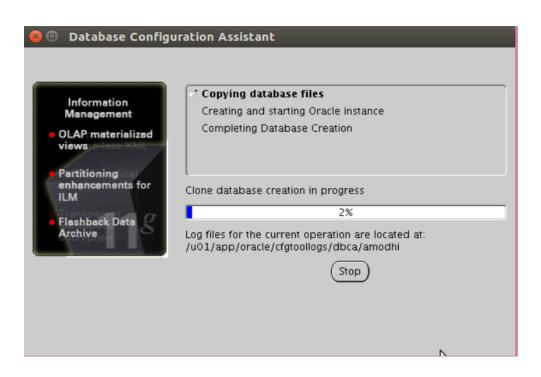
• Creating Redo Log Groups, Each Groups with Redo Log Files.

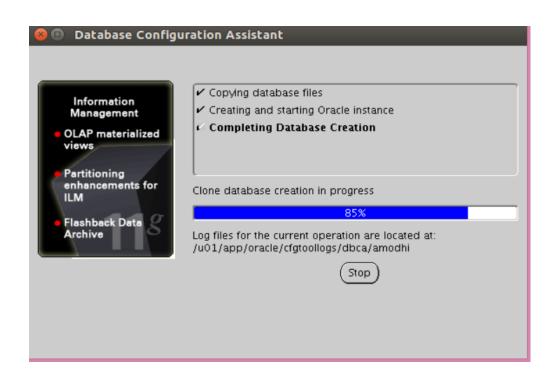


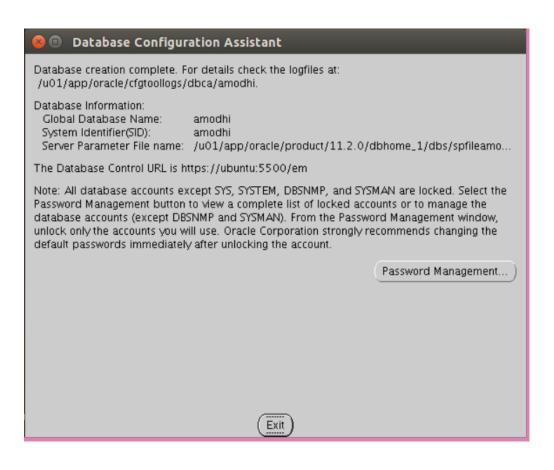












QUESTION 02)

- Changing the Database into Archive Mode
 - ✓ First connect to the database

```
oracle@ubuntu:/u01/app/oracle/product/11.2.0/dbhome_1/bin$ sqlp lus / as sysdba

SQL*Plus: Release 11.2.0.1.0 Production on Wed Feb 25 22:09:12 2015

Copyright (c) 1982, 2009, Oracle. All rights reserved.

Connected to an idle instance.
```

```
Enter user-name: oracle as sysdba
Enter password:
Connected to an idle instance.

SQL>
```

✓ current log mode of the database

```
Process ID: 0
Session ID: 0 Serial number: 0
  I
Enter user-name: amodhi as sysdba
Enter password:
Connected to an idle instance.
SQL> startup
ORACLE instance started.
Total System Global Area 626327552 bytes
Fixed Size
                                 2215944 bytes
Variable Size
Database Buffers
                              192942072 bytes
427819008 bytes
Redo Buffers
                                 3350528 bytes
Database mounted.
Database opened.
SQL> select log_mode from v$database;
LOG_MODE
NOARCHIVELOG
SQL>
```

✓ To convert the database in to archive mode

o SHUTDOWN IMMEDIATE

```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL>
```

- o STARTUP MOUNT
- ALTER DATABASE ARCHIVELOG;

```
SQL> startup mount
ORACLE instance started.

Total System Global Area 626327552 bytes
Fixed Size 2215944 bytes
Variable Size 192942072 bytes
Database Buffers 427819008 bytes
Redo Buffers 3350528 bytes
Database mounted.
SQL> alter database archivelog;

SQL> I
```

o ALTER DATABASE OPEN;

```
SQL> alter database open;
Database altered.
SQL>
```

✓ The database is now running with the new ARCHIVELOG mode setting

```
SQL> select log_mode from v$database;

LOG_MODE
-----ARCHIVELOG

SQL
```

QUESTION 03)

Simulating a Deadlock scenario

A deadlock is the situation where you have two, or more, Oracle "sessions" competing for mutually locked resources. Oracle deals with deadlocks pretty much immediately by raising an exception (ORA-00060) in one of the sessions.

✓ In session 1, create a table and insert two rows in to it

```
SQL> create table test_tbl
2 (
3 id int,
4 text varchar2(100)
5 ) 2 3 4

SQL> create table test_tbl1
2 (
3 id int,
4 text varchar2(100)
5 );

Table created.
```

✓ Insert Some Values

.

```
SQL> insert into test_tbl1(id,text) values(1,'A');
1 row created.

SQL> insert into test_tbl1(id,text) values(2,'B');
1 row created.

SQL> commit;
Commit complete.
```

Use **COMMIT** statement to end the current transaction and make permanent all changes performed in the transaction

- ✓ Open two sessions and delete a row by using each terminal.
- ✓ Try to delete a row which is deleted in other session.

```
SQL> delete from test_tbl1 where id=2;

delete from test_tbl1 where id=2

*

ERROR at line 1:

ORA-00060: deadlock detected while waiting for resource
```

```
oracle@ubuntu:~$ sqlplus / as sysdba

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 26 00:31:21
2015

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64b
it Production
With the Partitioning, OLAP, Data Mining and Real Application T
esting options

SQL> delete from test_tbl1 where id=2;

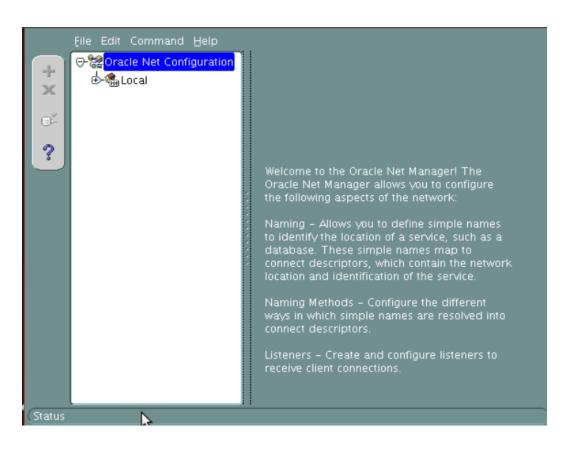
1 row deleted.

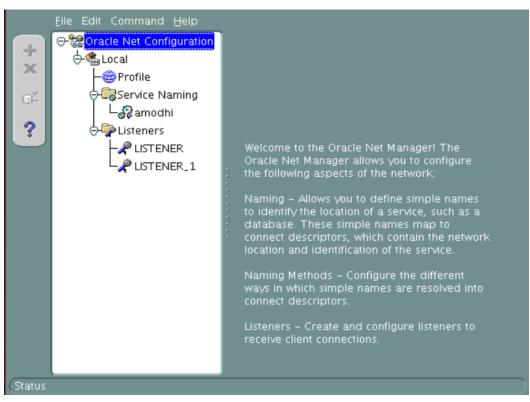
SQL> delete from test_tbl1 where id=1;
```

OUSTION 04

- Configuring a Naming Method
 - ✓ "netmgr" to open oracle net manager

```
oracle@ubuntu:~$ netmgr
```





✓ Add new Listener



