**How to Create Oracle 11g Database Manually on Windows**

Below steps will help you to create 11.2.0.1 oracle database manually on windows platform. These steps would remain same on the entire Windows version such as XP, Vista etc. Before starting the creation of the database, ensure you have Oracle Database binaries installed.

1. **Set up environment variables**
   1. C:\>set ORACLE\_HOME=c:\oracle\product\11.2.0\dbhome\_1
   2. C:\>set PATH=%ORACLE\_HOME%\bin;%PATH%
   3. C:\>set ORACLE\_SID=ORA11G
2. **Create required directories**
3. C:\>mkdir c:\oracle\db\ora11g\admin\adump
4. C:\>mkdir c:\oracle\db\ora11g\admin\dpdump
5. C:\>mkdir c:\oracle\db\ora11g\admin\pfile
6. C:\>mkdir c:\oracle\db\ora11g\diag
7. C:\>mkdir c:\oracle\db\ora11g\flash\_recovery\_area
8. C:\>mkdir c:\oracle\db\ora11g\oradata
9. **Create the parameter file**Create the parameter file named initORA11G.ora under ORACLE\_HOME/database directory

db\_name='ORA11G'

db\_block\_size=8192

memory\_target=500m

processes=100

open\_cursors=300

remote\_login\_passwordfile='EXCLUSIVE'

undo\_tablespace='UNDOTBS1'

compatible ='11.2.0'

audit\_trail ='db'

db\_recovery\_file\_dest\_size=5g

db\_recovery\_file\_dest='c:\oracle\db\ora11g\flash\_recovery\_area'

audit\_file\_dest='c:\oracle\db\ora11g\admin\adump'

diagnostic\_dest='c:\oracle\db\ora11g\diag'

control\_files = ('c:\oracle\db\ora11g\oradata\control1.ctl', 'c:\oracle\db\ora11g\oradata\control2.ctl')

**4. Create a Windows service**  
 Create a Windows service for Oracle instance and check the service status.

C:\>oradim -NEW -SID ora11g -STARTMODE manual

Instance created.

C:\>sc query oracleserviceora11g

SERVICE\_NAME: oracleserviceora11g

        TYPE               : 10  WIN32\_OWN\_PROCESS

        STATE              : 4  RUNNING

                                (STOPPABLE,PAUSABLE,ACCEPTS\_SHUTDOWN)

        WIN32\_EXIT\_CODE    : 0  (0x0)

        SERVICE\_EXIT\_CODE  : 0  (0x0)

        CHECKPOINT         : 0x0

        WAIT\_HINT          : 0x0

1. **Connect to instance and create SPFILE**

C:\>sqlplus

SQL\*Plus: Release 11.2.0.1.0 Production on Wed May 23 07:39:54 2012

Copyright (c) 1982, 2010, Oracle.  All rights reserved.

Enter user-name: /as sysdba

Connected to an idle instance.

SQL> create spfile from pfile;

File created.

1. **Start the instance with NOMOUNT mode**  
   Startup the database with the newly created spfile.

SQL> startup nomount

ORACLE instance started.

Total System Global Area  523108352 bytes

Fixed Size                  1375704 bytes

Variable Size             314573352 bytes

Database Buffers          201326592 bytes

Redo Buffers                5832704 bytes

1. **Execute the CREATE DATABASE Command**

CREATE DATABASE ORA11G

    USER sys IDENTIFIED BY sys

    USER system IDENTIFIED BY system

    MAXLOGFILES 5

    MAXLOGMEMBERS 3

    MAXDATAFILES 200

    MAXINSTANCES 1

    MAXLOGHISTORY 500

LOGFILE

GROUP 1 (

    'c:\oracle\db\ora11g\oradata\redo01a.rdo',

    'c:\oracle\db\ora11g\oradata\redo01b.rdo'

    ) SIZE 50M,

GROUP 2 (

    'c:\oracle\db\ora11g\oradata\redo02a.rdo',

    'c:\oracle\db\ora11g\oradata\redo02b.rdo'

    ) SIZE 50M,

GROUP 3 (

    'c:\oracle\db\ora11g\oradata\redo03a.rdo',

    'c:\oracle\db\ora11g\oradata\redo03b.rdo'

    ) SIZE 50M

DATAFILE 'c:\oracle\db\ora11g\oradata\system01.dbf' SIZE 300M EXTENT MANAGEMENT LOCAL

SYSAUX DATAFILE 'c:\oracle\db\ora11g\oradata\sysaux01.dbf' SIZE 200M

UNDO TABLESPACE UNDOTBS1 DATAFILE 'c:\oracle\db\ora11g\oradata\undotbs01.dbf' SIZE 300M AUTOEXTEND OFF

DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE 'c:\oracle\db\ora11g\oradata\temp01.dbf' SIZE 200M REUSE AUTOEXTEND OFF

CHARACTER SET WE8ISO8859P1

NATIONAL CHARACTER SET UTF8;

1. **Create data dictionary objects**  
   Run the catalog.sql and catproc.sql scripts to create the dictionary objects.

SQL> @%ORACLE\_HOME%\rdbms\admin\catalog.sql

SQL> @%ORACLE\_HOME%\rdbms\admin\catproc.sql

SQL> connect system/system

SQL> @%ORACLE\_HOME%\sqlplus\admin\pupbld.sql

1. **Enable Archiving**  
   To enable archiving shutdown the database and startup it in mount status. Enable the archiving and then open the database.

SQL> connect /as sysdba

SQL> shut immediate

Database closed.

Database dismounted.

ORACLE instance shut down.

SQL> startup mount

ORACLE instance started.

Total System Global Area  523108352 bytes

Fixed Size                  1375704 bytes

Variable Size             314573352 bytes

Database Buffers          201326592 bytes

Redo Buffers                5832704 bytes

Database mounted.

SQL> alter database archivelog;

Database altered.

SQL> alter database open;

Database altered.

SQL> archive log list

Database log mode              Archive Mode

Automatic archival             Enabled

Archive destination            USE\_DB\_RECOVERY\_FILE\_DEST

Oldest online log sequence     12

Next log sequence to archive   13

Current log sequence           13

1. **Check for any invalid component or objects**

SQL> select comp\_id, version, status from dba\_registry;

COMP\_ID                        VERSION                        STATUS

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CATALOG                        11.2.0.1.0                     VALID

CATPROC                        11.2.0.1.0                     VALID

2 rows selected.

SQL> select owner, object\_name, object\_type from all\_objects where status<>'VALID';

no rows selected

If any invalid components or objects are found then run utlrp.sql to validate them.

1. **Create Oracle windows service – Listener**

To create listener service execute following command

SC create OracleOraDb11g\_home1TNSListener [binPath="%ORACLE\_HOME%\BIN\TNSLSNR.exe"]