PL/SQL - ENVIRONMENT SETUP

PL/SQL is not a stand-alone programming language; it is a tool within the Oracle programming environment. SQL* Plus is an interactive tool that allows you to type SQL and PL/SQL statements at the command prompt. These commands are then sent to the database for processing. Once the statements are processed, the results are sent back and displayed on screen.

To run PL/SQL programs, you should have Oracle RBDMS Server installed in your machine which will take care of executing SQL commands. Most recent version of Oracle RDBMS is 11g. You can download a trial version of Oracle 11g from the following link:

Download Oracle 11g Express Edition

You will have to download either 32bit or 64 bit version of the installation as per your operating system. Usually there are two files, as I have downloaded for 64 bit Windows7. You will also use similar steps on your operating system, does not matter if it is Linux or Solaris.
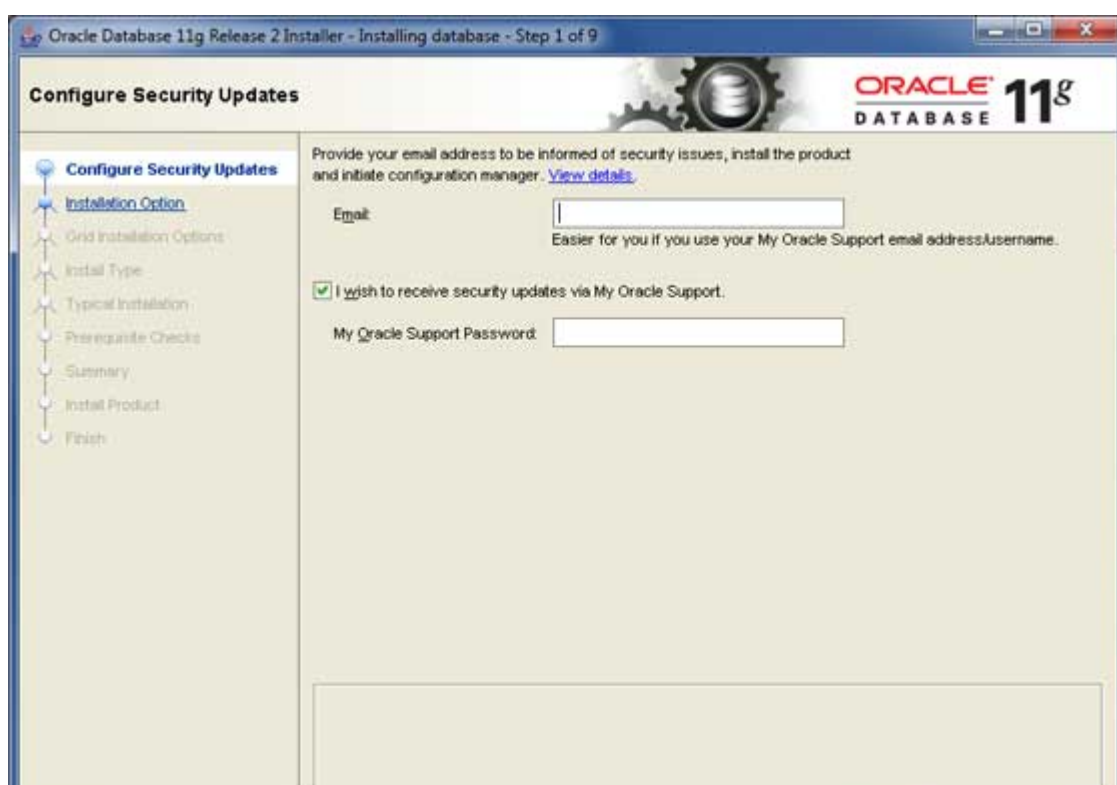
- **win64_11gR2_database_1of2.zip**

- **win64_11gR2_database_2of2.zip**

After downloading above two files, you will need to unzip them in a single directory **database** and under that you will find following sub-directories:

Step 1

Now, let's launch Oracle Database Installer using setup file. Following is the first screen. You can provide your email ID and uncheck, check box and click **Next** button:

Step 2

You will have the following screen, just uncheck the check box and click **continue** button to proceed.
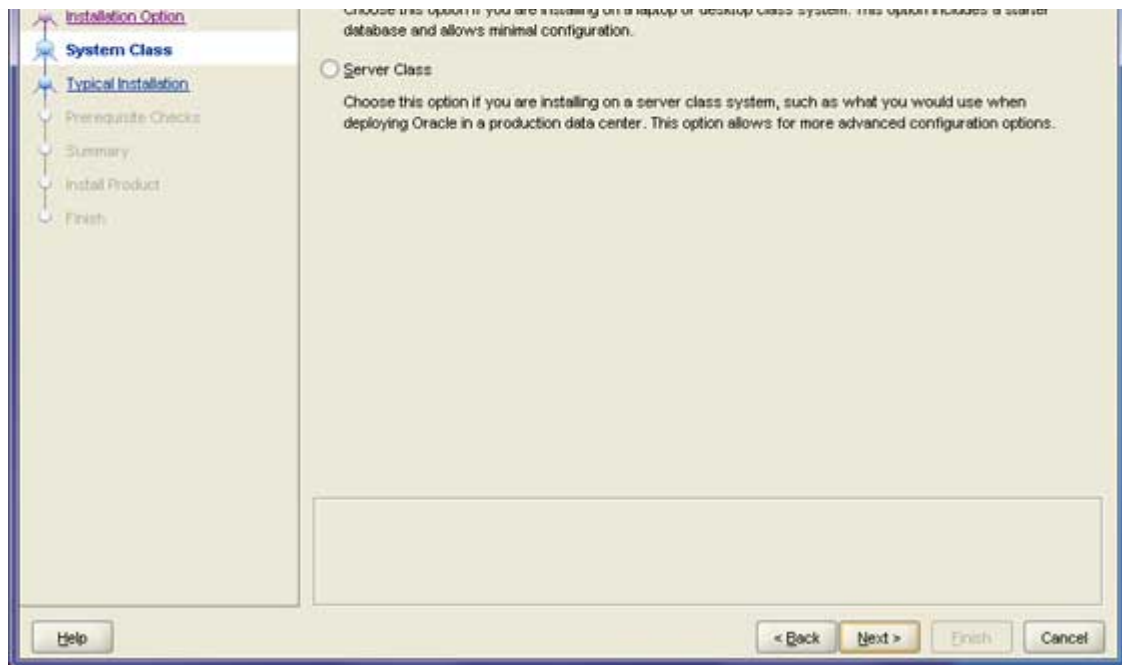

Step 3

Just select first option **Create and Configure Database** using radio button and click **Next** button to proceed:
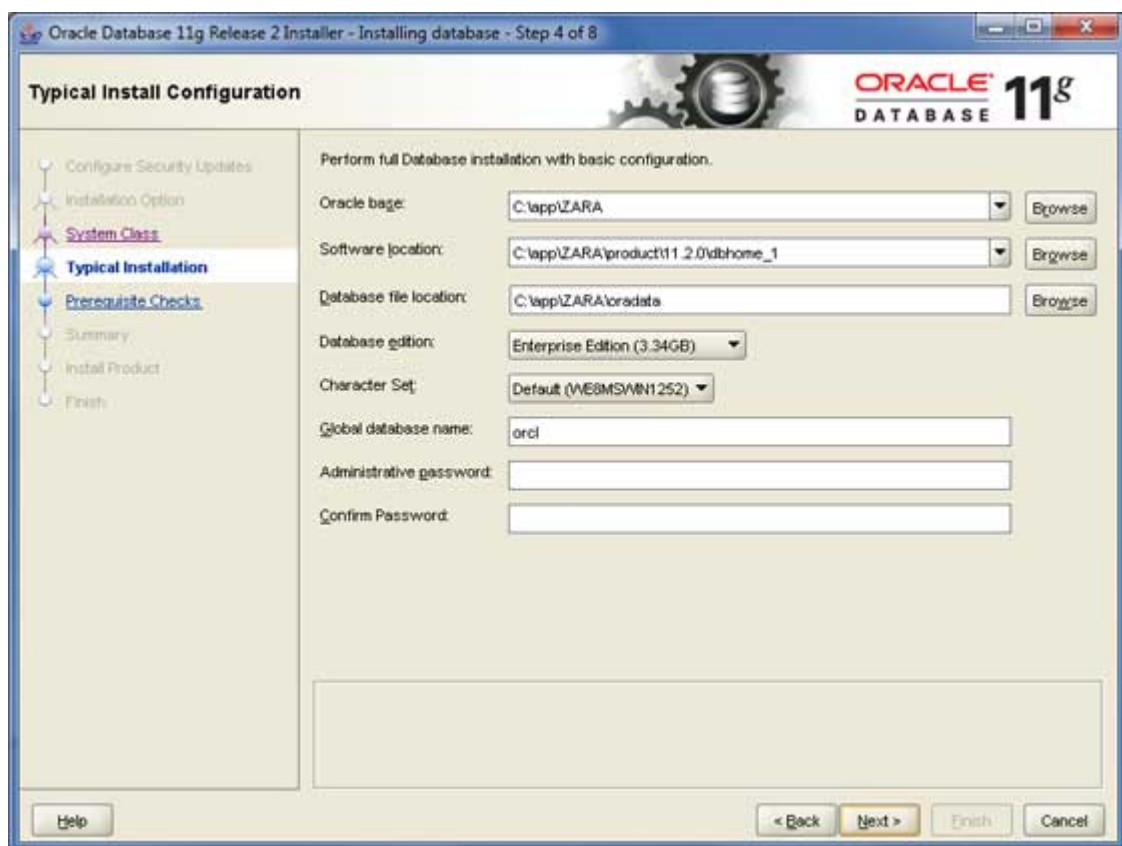

Step 4

I assume you are installing Oracle just for learning purpose and you will install it on your PC or Laptop. So select **Desktop Class** option and click **Next** button to proceed:

Installation Option
System Class
Typical Installation
Prerequisite Checks
Summary
Install Product
Finish

Choose this option if you are installing on a laptop or desktop class system. This option includes a starter database and allows minimal configuration.

○ Server Class

Choose this option if you are installing on a server class system, such as what you would use when deploying Oracle in a production data center. This option allows for more advanced configuration options.

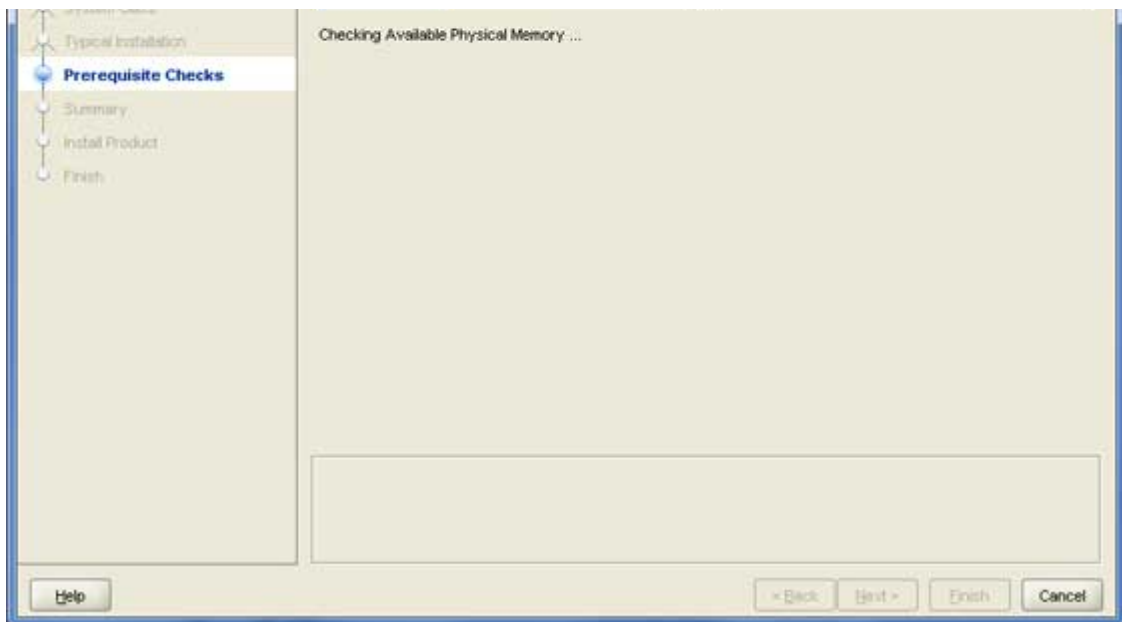Help   < Back   Next >   Finish   Cancel

Step 5

Provide a location, where you will install Oracle Server. Just modify **Oracle Base** and rest of the locations will set automatically. Second, you will have to provide a password, which will be used by system DBA. Once you provide required information, click **Next** button to proceed:

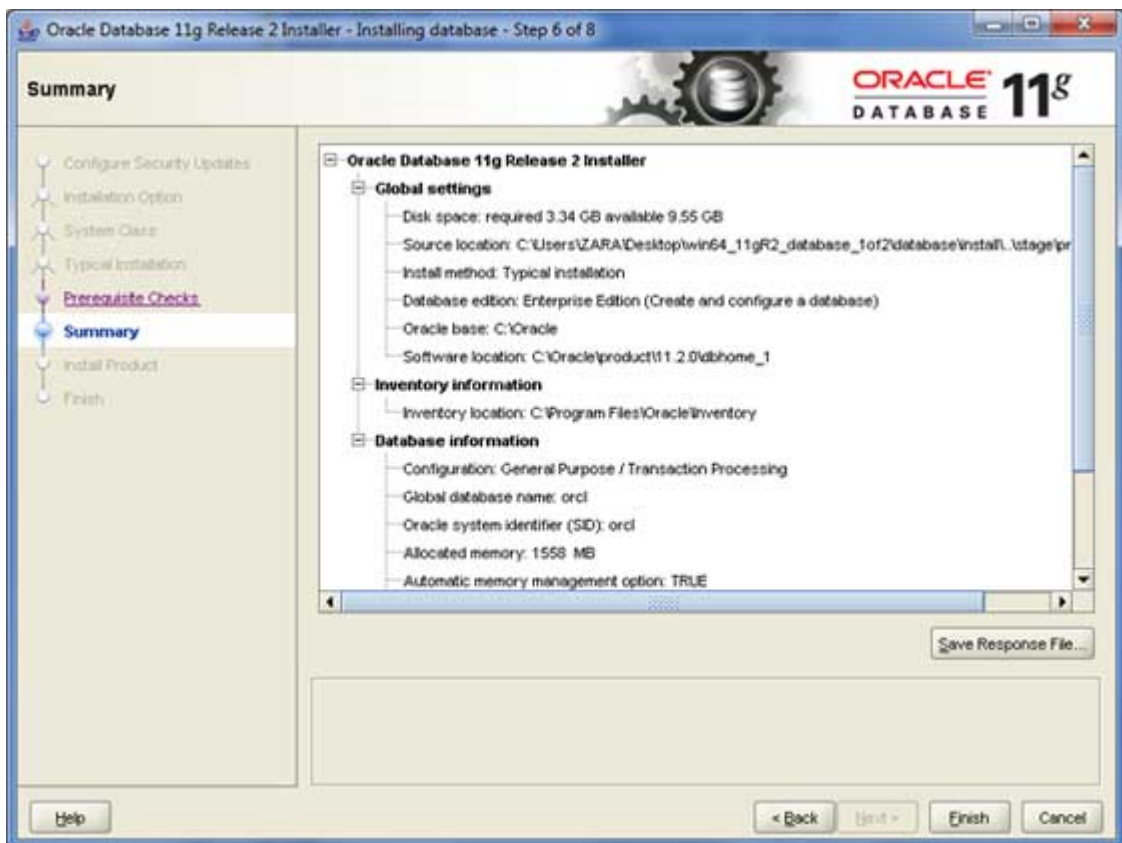Oracle Database 11g Release 2 Installer - Installing database - Step 4 of 8

Typical Install Configuration

ORACLE **11**^{g}
DATABASE

Configure Security Updates
Installation Option
System Class
Typical Installation
Prerequisite Checks
Summary
Install Product
Finish

Perform full Database installation with basic configuration.

Field	Value	
Oracle base:	C:\app\ZARA	Browse
Software location:	C:\app\ZARA\product\11.2.0\dbhome_1	Browse
Database file location:	C:\app\ZARA\oradata	Browse
Database edition:	Enterprise Edition (3.34GB)	
Character Set:	Default (WE8MSWIN1252)	
Global database name:	orcl	
Administrative password:		
Confirm Password:		

Help   < Back   Next >   Finish   Cancel

Step 6

Just click **Next** button to proceed:

Oracle Database 11g Release 2 Installer - Installing database - Step 5 of 8

Perform Prerequisite Checks

ORACLE **11**^{g}
DATABASE

Configure Security Updates
Installation Option

Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.
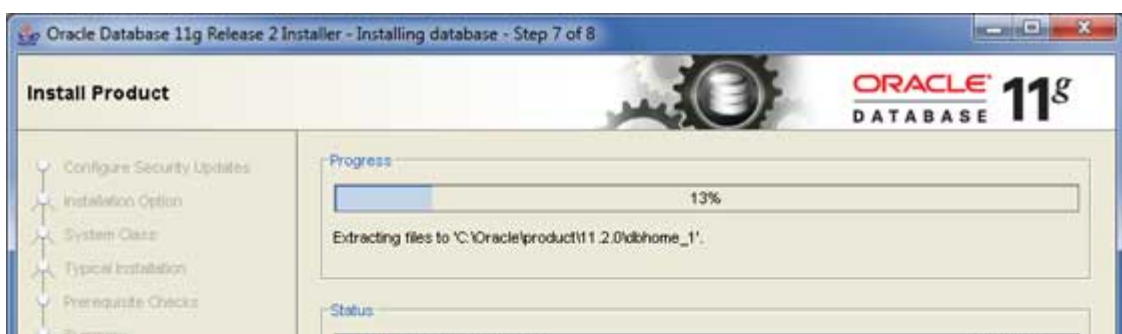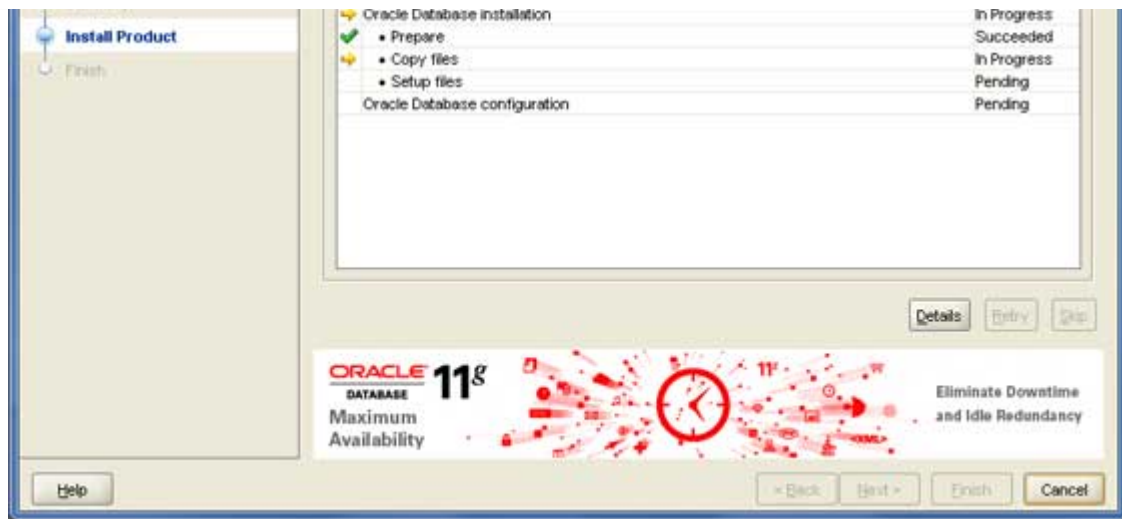
17%

Step 7

Now, click **Finish** button to proceed, this will start actual server installation.
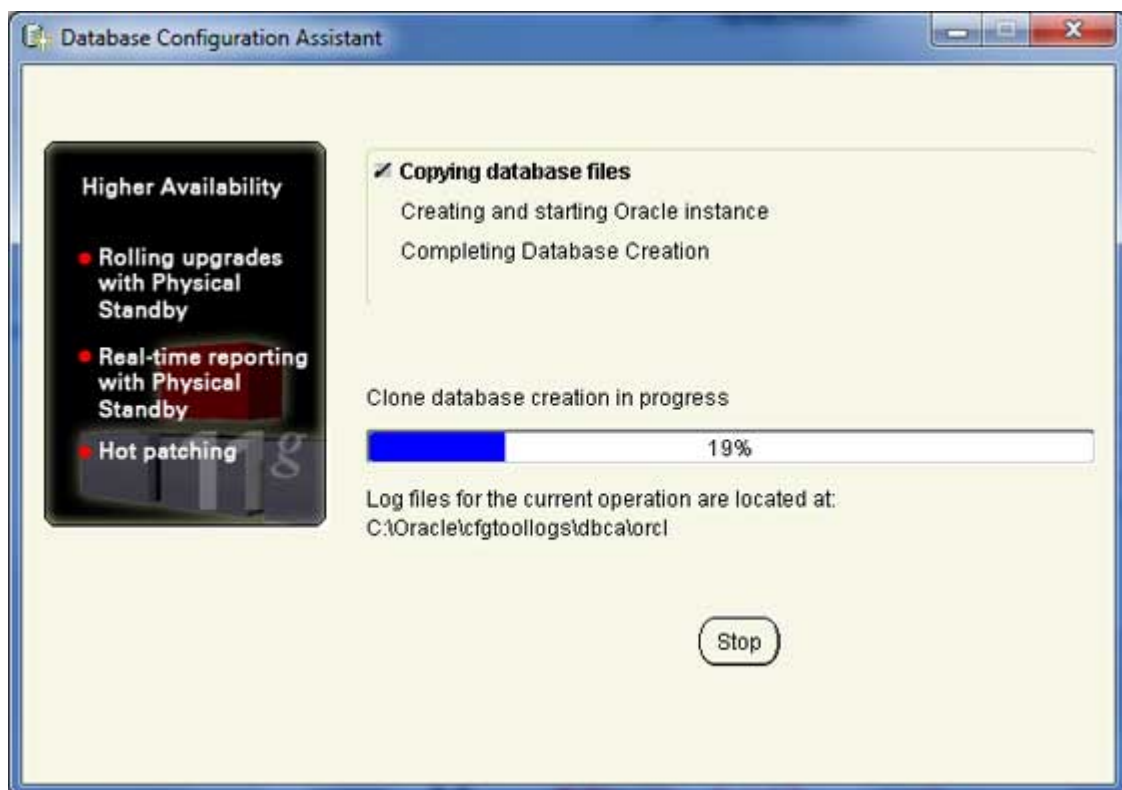

Step 8

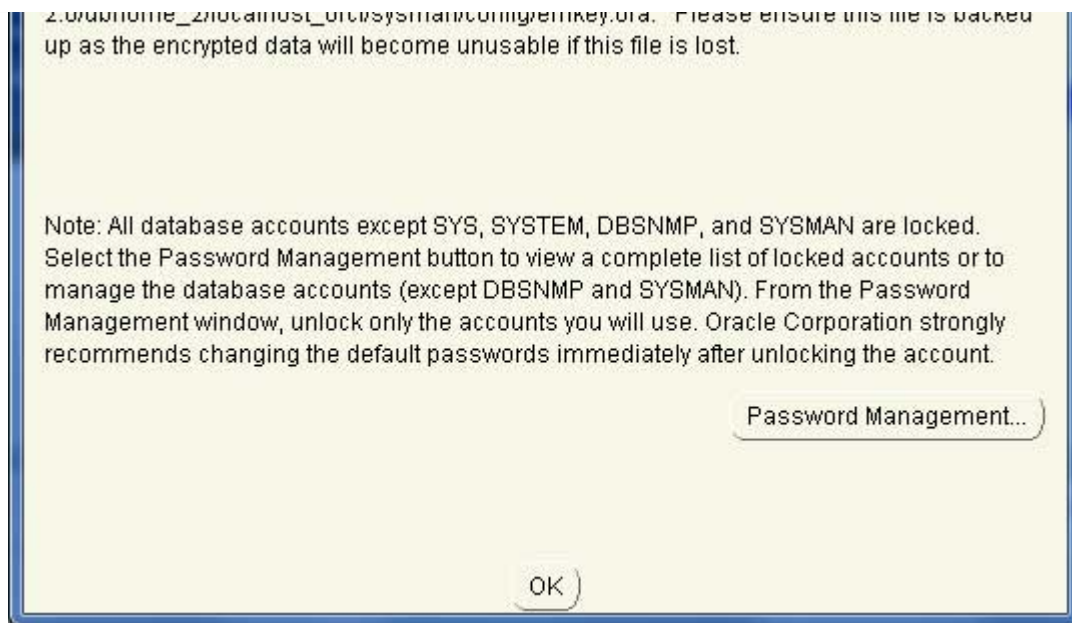Just wait, until Oracle starts doing required configuration.

Step 9

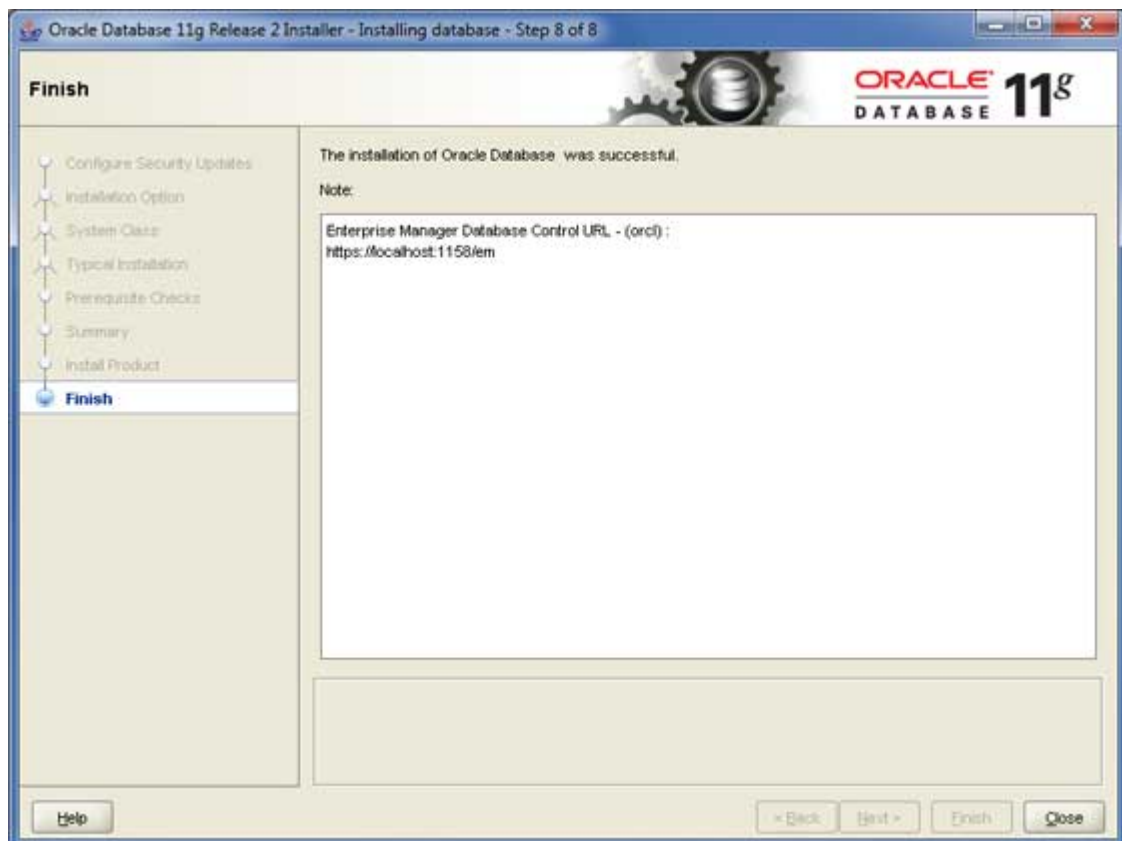Here, Oracle installation will copy required configuration files, so kindly just wait and watch:

Step 10

Once everything is done, you will have the following dialogue box. Just click **OK** button and come out.

Note: All database accounts except SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts (except DBSNMP and SYSMAN). From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the default passwords immediately after unlocking the account.

Password Management...

OK

Step 11

Once your installation is done, you will have the following final window.
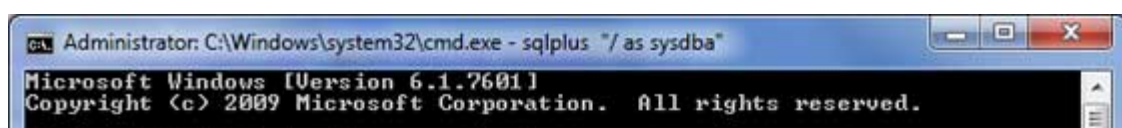

Final Step

If everything has been done successfully, then it's time to verify your installation. At your command prompt, use the following command if you are using Windows:

```
sqlplus "/ as sysdba"
```

If everything is fine, you should have SQL prompt where you will write your PL/SQL commands and scripts:

```
C:\Users\ZARA>sqlplus "/ as sysdba"

SQL*Plus: Release 11.2.0.1.0 Production on Fri Aug 31 19:15:57 2012

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Producti
With the Partitioning, OLAP, Data Mining and Real Application Testing opti

SQL>
```

Text Editor

Running large programs from command prompt may land you in inadvertently losing some of the work. So a better option is to use command files. To use the command files:

- Type your code in a text editor, like Notepad, Notepad+, or EditPlus, etc.

- Save the file with the .sql extension in the home directory.

- Launch SQL*Plus command prompt from the directory where you created your PL/SQL file.

- Type @file_name at the SQL*Plus command prompt to execute your program.

If you are not using a file to execute PL/SQL scripts, then simply copy your PL/SQL code and then right click on the black window having SQL prompt and use **paste** option to paste complete code at the command prompt. Finally, just press enter to execute the code, if it is not already executed.