

How to install Oracle Apex 4.0 on Oracle Database 11g EE Release 2

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We can divide our total installation into two phases:

- Installation of Oracle Database 11g
- Installation of Oracle Application Express (4.0)

Oracle Database 11g Installation:

Download the Oracle database 11g EE R2 from Oracle Official site:

<http://www.oracle.com/technology/software/products/database/index.html>

Or

<http://otn.oracle.com>

You will get two separate files from download source.

File 1 and File 2

After downloading **File 1** you will get a Zipped file in it named "**win32_11gR2_database_1of2**" and for **File 2** you will get "**win32_11gR2_database_2of2**"

Note: if you download for 64 bit then it will show **win64** and for 32 bit it will show **win32**

Now you have to unzip and start installation, Unzipping little bit tricky here. During installation you will have chances to get some error message of Missing files. So to avoid this error message and completing the installation process smoothly follow the below process:

Create a Folder named "**Oracle 11g EE R2**" and make a subfolder into it named "**Oracle**".

It will look as **F:\Oracle 11g EE R2\Oracle**

Now unzip folder "**win32_11gR2_database_1of1**" from File 1. After unzipping open this folder. Now copy all the contents under this folder and paste into **Oracle** sub folder. So, finally your **File 1** content will reside as:

F:\Oracle 11g EE R2\Oracle\database

And when you click this database folder it should show below contents:

Name	Date modified	Type	Size
doc	7/2/2010 1:04 AM	File folder	
install	7/2/2010 1:04 AM	File folder	
response	7/2/2010 1:04 AM	File folder	
stage	7/2/2010 1:05 AM	File folder	
setup	3/12/2010 12:49 AM	Application	530 KB
welcome	3/2/2010 3:52 PM	HTML Document	5 KB

Fig: 1

Now time to unzip **File 2**. Now unzip File 2 and open this unzip folder and go to **Database > Stage > Components**:

Now copy the entire folder under this directory and go to

as **F:\Oracle 11g EE R2\Oracle\database\stage\Components :**

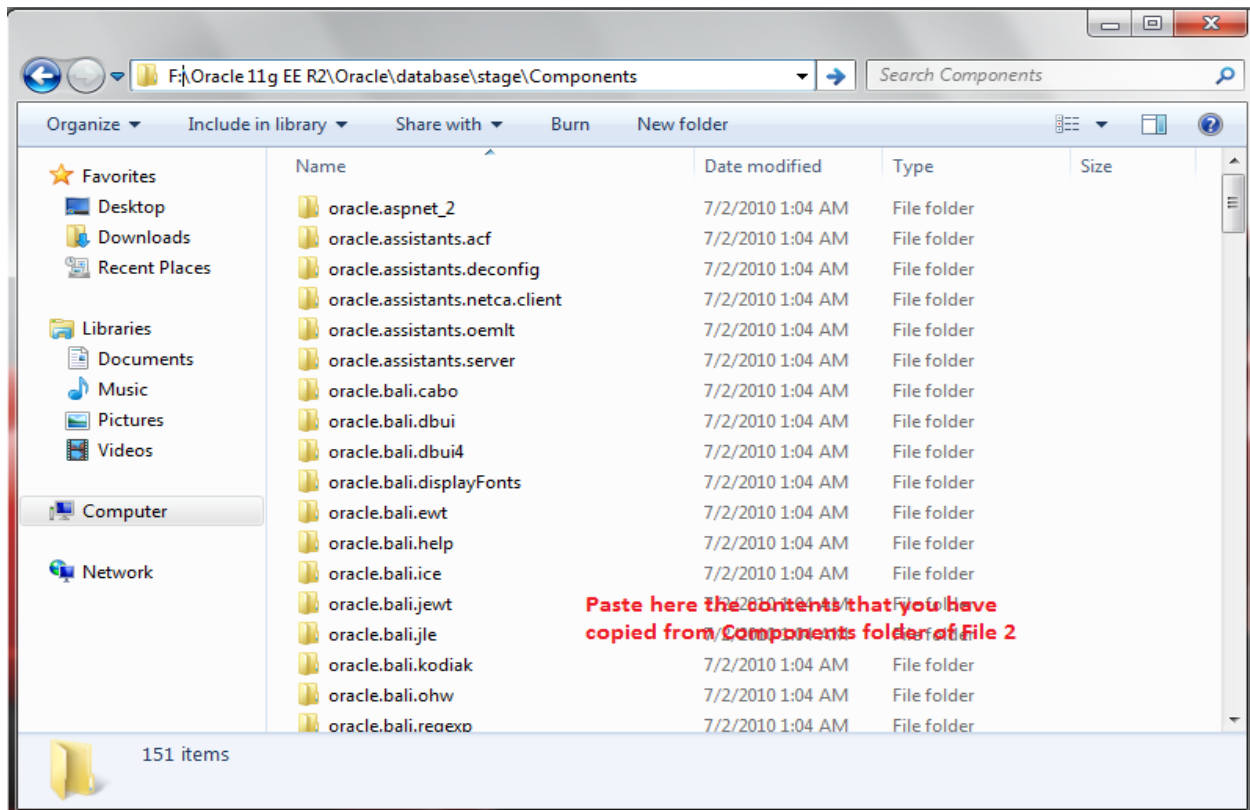


Fig :2

Now paste into this directory as shown in Fig-2

That means you have moved the entire content of Components folder from File 2 (after unzipping) to Component folder of file 1 (after unzipping).
Now you have got your complete **Oracle Database 11g EE R2** Software in a single file.
Now open **setup.exe** from **Oracle Database 11g EE R2/database** folder and continue the installation process.

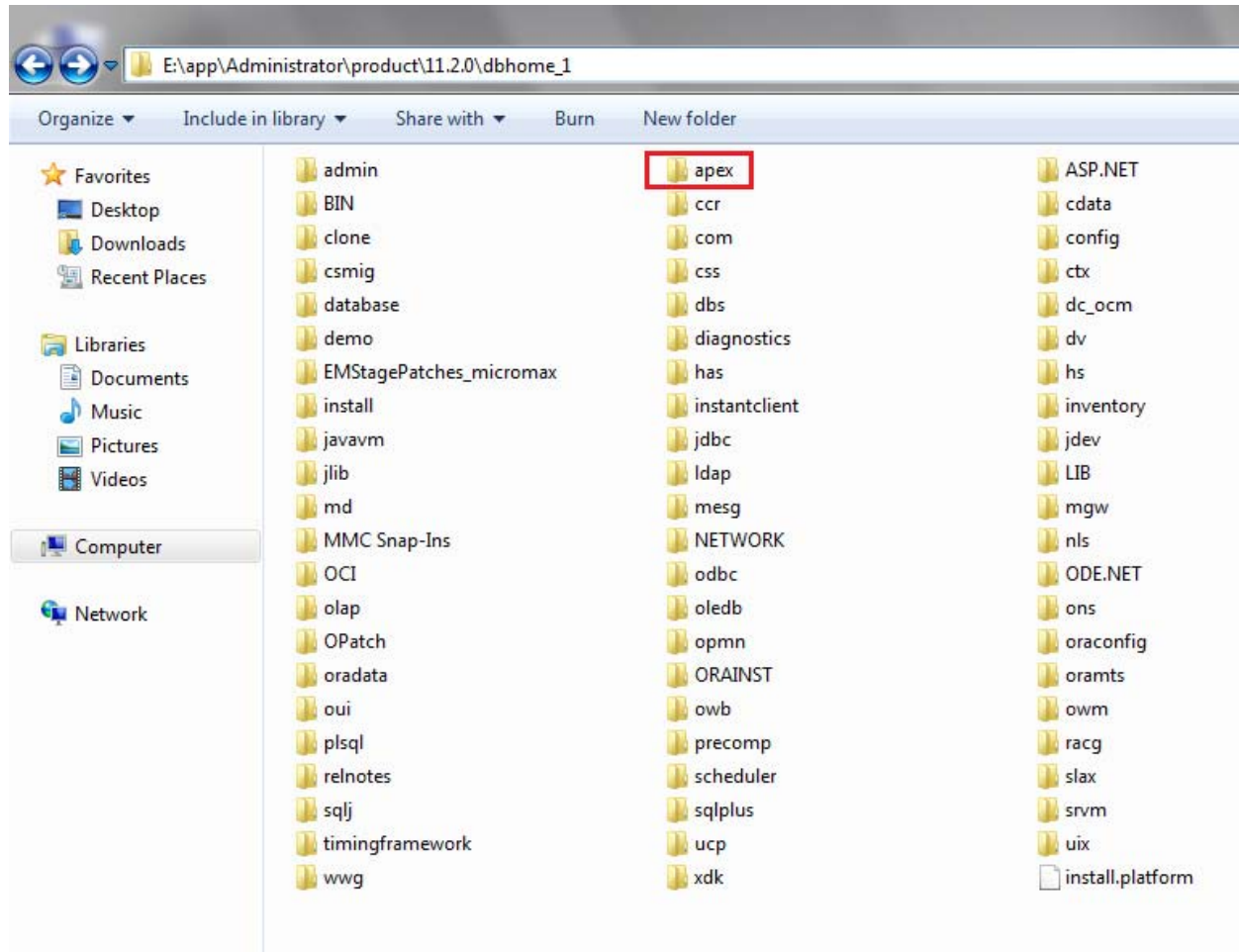


Fig: 4 showing the apex folder that created automatically when Oracle 11g EE R2 installed successfully.

Note :

After successfully installation of Oracle database 11g EE R2, Apex installed and configured automatically and that version is 3.0 (as shown in fig-4). If version 3.0 is enough to meet the Application development demand then need not to install apex 4.0, but here I assume Apex 4.0 is a must to meet current demand. So, I am going to install Apex 4.0 in the below steps.

Apex 4.0 Installation:

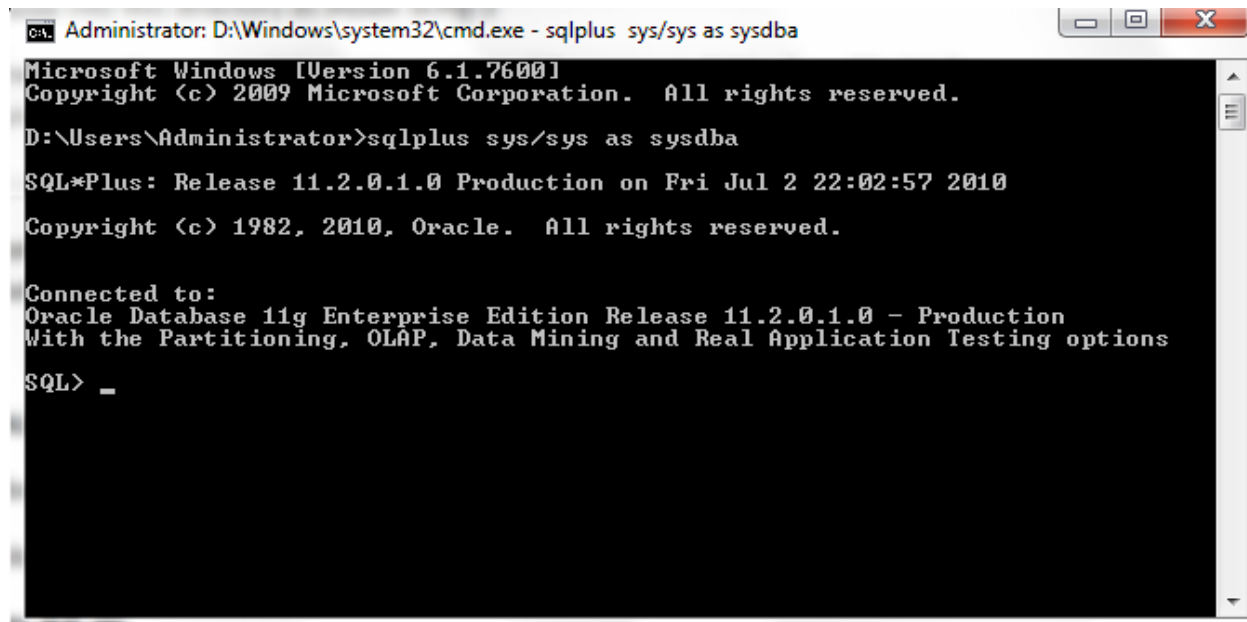
Now download Apex 4.0 from <http://apex.oracle.com> or <http://otn.oracle.com>

After downloading unzip and keep in the directory as:

F:\apex_4.0_en\Apex

Now you have to open the command prompt and login as SYS with SYSDBA privilege

As shown in the fig-3



```
Administrator: D:\Windows\system32\cmd.exe - sqlplus sys/sys as sysdba
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

D:\Users\Administrator>sqlplus sys/sys as sysdba

SQL*Plus: Release 11.2.0.1.0 Production on Fri Jul 2 22:02:57 2010

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

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> _
```

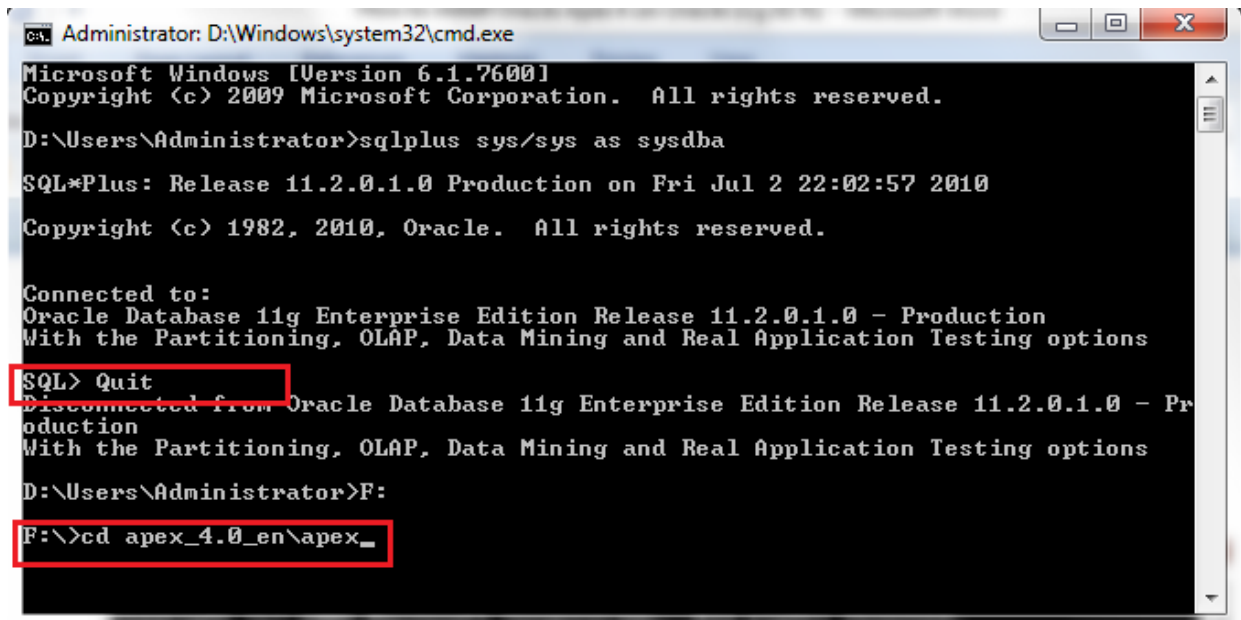
Fig : 3

Now You need to create a Tablespace as :

SQL >

```
CREATE TABLESPACE APEX_SPACE datafile
'E:\app\Administrator\oradata\micromax\APEX_SPACE.DBF'
SIZE 5000M
EXTENT MANAGEMENT LOCAL
SEGMENT SPACE MANAGEMENT AUTO;
```

Note: **E:\app\Administrator\oradata\micromax** - this directory you can assign different.
After successfully created the tablespace now quit from "SQL>" typing **Quit** as shown in Fig -5



```
Administrator: D:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

D:\Users\Administrator>sqlplus sys/sys as sysdba

SQL*Plus: Release 11.2.0.1.0 Production on Fri Jul 2 22:02:57 2010

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

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> Quit
Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Pr
oduction
With the Partitioning, OLAP, Data Mining and Real Application Testing options
D:\Users\Administrator>F:
F:\>cd apex_4.0_en\apex_
```

Fig -5

Now get into the directory on command prompt **F:\apex_4.0_en\apex** as shown fig -5 and finally it will look as in the command prompt :

F:\apex_4.0_en\apex

Now log in again as SYS with SYSDBA privilege as shown in fig-3

In fig-6 shown the content of apex folder and **apexins.sql** script need to execute to start installation of apex 4.0.

To execute **apexins.sql** script type the below command and mention in which TABLESPACE will be default for apex installation files.

```
SQL > @apexins APEX_SPACE APEX_SPACE TEMP /i/
```

Now press enter and the installation will be started.

It will take 30 to 40 minutes to complete the installation.

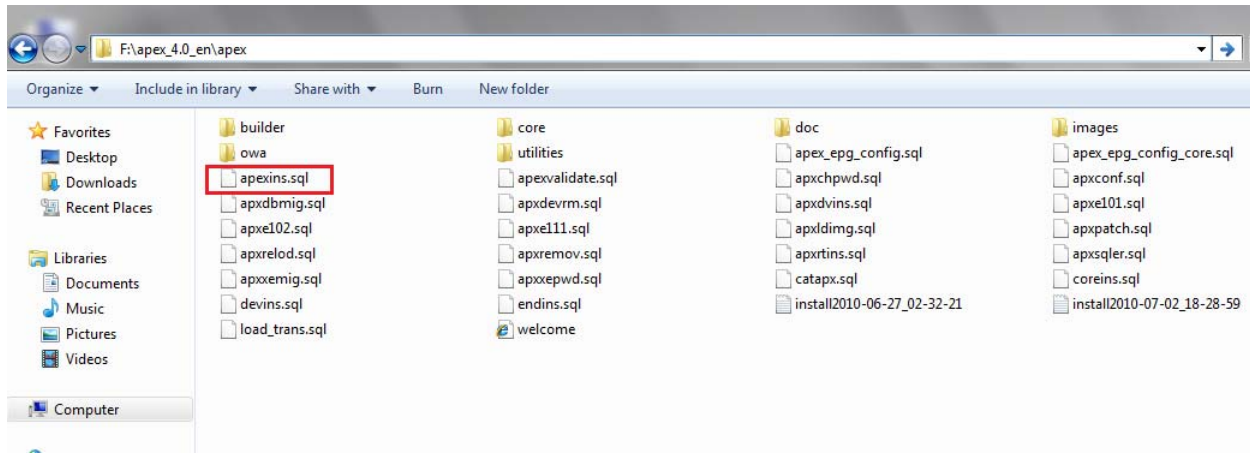


Fig -6

After completing the installation then you have to load the necessary images to the database.

And these images located in the following directory:

F:\apex_4.0_en\apex\images

In this stage if the directory unlike **F:\apex_4.0_en\apex** in the command prompt

Then follow the steps as shown in Fig-5 to get into the **F:\apex_4.0_en\apex** directory.

And login again SYS with SYSDBA privilege as shown in Fig-5.

Now you have to execute the **apxldimg.sql** script to load the images.

To execute this type the below command

```
SQL > @apxldimg.sql
```

Now you will be asked to enter the value for 1

Simple type below :

```
F:/apex_4.0_en
```


And press Enter and the image loading will be started.

Note:

If you open the **apxldimg.sql** (F:\apex_4.0_en\apex) script with **WordPad** and you will see there is a bind variable **&1** as shown in fig-7. So, for enter value for 1 you will input only the directory before the apex folder.

So, our directory for apex was **F:\apex_4.0_en\apex**. As **apex/images** already fixed in the command as shown in fig-7, so here put only the **F:/apex_4.0_en**

And the slash should be "/" instead of "\"



```
begin
  execute immediate 'drop directory APEX_IMAGES';
exception when others then
  null;
end;
/

create directory APEX_IMAGES as '&1/apex/images';

set serveroutput on

declare
  file_list          varchar2(30) default
'imagelist.xml';
  upload_directory_name  varchar2(30) default 'APEX_IMAGES';
  repository_folder_path varchar2(30);
  pathseparator         varchar2(1) := '/';

  directory_path       varchar2(256);

  target_folder_path   varchar2(256);
  target_file_path     varchar2(256);
  target_file_name     varchar2(256);

  resource_path        varchar2(256);

  filelist_xml         xmltype := xmltype(bfilename
(upload_directory_name, file_list), nls_charset_id('AL32UTF8'));
  content_bfile        bfile;
```

Fig -7

After completing the above part, again if the directory unlike **F:\apex_4.0_en\apex** in the command prompt

Then follow the steps as shown in Fig-5 to get into the **F:\apex_4.0_en\apex** directory.

Now login again SYS with SYSDBA privilege as shown in Fig-5.

Now you have to execute the **apxconf.sql** script and type the below command

```
SQL > @apxconf.sql
```

And press enter...you will be asked to assign a password for admin : type your desired password

And press enter.

Then you will be asked to enter password for XDB HTTP port : type your desired port . here you can keep **8080** or can change like **7778**

And then press enter and your installation in this stage is done.

But you need to unlock few of the schema that is related to Apex application. Now unlock the schema as :

To unlock schema you can use command prompt or Enterprise manager console

To unlock from command prompt you must log in as SYS with SYSDBA privilege

```
SQL> ALTER USER ANONYMOUS ACCOUNT UNLOCK;  
SQL > ALTER USER XDB ACCOUNT UNLOCK;  
SQL > ALTER USER APEX_040000 ACCOUNT UNLOCK;  
SQL > ALTER USER FLOWS_FILES ACCOUNT UNLOCK;  
SQL > ALTER USER APEX_PUBLIC_USER ACCOUNT UNLOCK;
```

Now is the time to open the apex application

Open a browser window and type the url as

```
http:// < computername>:<Port>/apex
```

Example: If computer name is **micromax** and port is **7778** then URL will be like

```
http://micromax :7778/apex
```




ORACLE® Application Express

Enter Application Express workspace and credentials.

Workspace

Username

Password

[Click here to learn how to get started](#)

Oracle Application Express is a rapid Web application development tool that lets you share data and create custom applications. Using only a Web browser and limited programming experience, you can develop and deploy powerful applications that are both fast and secure.

Workspace	Getting Started	Community
<ul style="list-style-type: none">Reset PasswordFind My WorkspaceAdministration	<ul style="list-style-type: none">Learn ...Oracle Technology Networkapex.oracle.comOracle by Example's	<ul style="list-style-type: none">Discussion ForumPackaged ApplicationsPartnersBLOGs

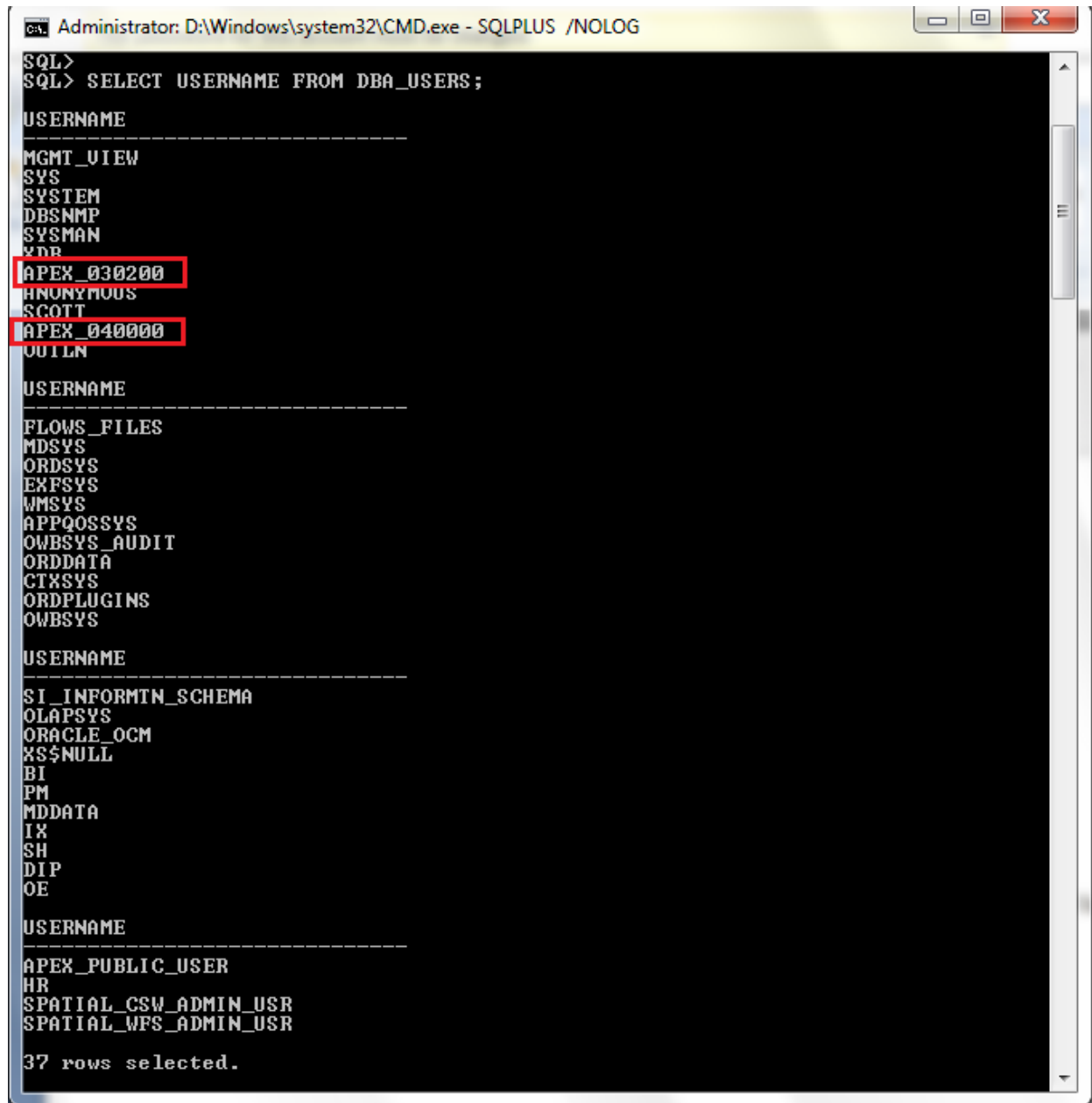
Fig- 8

Workspace : internal

Username : admin

Password :admin

Then you will be prompted to change the password. After changing password return to login wizard and type your password again and now you are inside the apex home homepage.



```
Administrator: D:\Windows\system32\CMD.exe - SQLPLUS /NOLOG
SQL>
SQL> SELECT USERNAME FROM DBA_USERS;

USERNAME
-----
MGMT_VIEW
SYS
SYSTEM
DBSNMP
SYSMAN
XDB
APEX_030200
ANONYMOUS
SCOTT
APEX_040000
TOOLN

USERNAME
-----
FLOWS_FILES
MDSYS
ORDSYS
EXFSYS
WMSYS
APPQOSSYS
OWBSYS_AUDIT
ORDDATA
CTXSYS
ORDPLUGINS
OWBSYS

USERNAME
-----
SI_INFORMTN_SCHEMA
OLAPSYS
ORACLE_OCM
XS$NULL
BI
PM
MDDATA
IX
SH
DIP
OE

USERNAME
-----
APEX_PUBLIC_USER
HR
SPATIAL_CSW_ADMIN_USR
SPATIAL_WFS_ADMIN_USR

37 rows selected.
```

Fig : 8

In the figure -8 you can see there are two schemas APEX_030200 and APEX_040000.

Here APEX_030200 is the old schema that means the old apex application (3.0) that was installed initially during oracle database 11g Installation. Later when we have installed Apex 4.0 then schema APEX_040000 has been created.

And System automatically has activated the latest Schema and its application. Here APEX_040000 is the latest.

So, when you type the url like <http://micromax:7778/apex> then

Apex 4.0 application will be opened. So, Now you can drop or destroy the APEX_030200 as its occupied the space. Interesting thing is you can switch your system to apex 3.0 from apex 4.0 typing switching command.

I will show how to switch from one schema to another schema later.

Thank you and good luck

- Kamal hossain