

Course: SW215 – Database System

Instructor	Ms Shafiya Qadeer	Practical/Lab No.	01
Date	13/14-01-2021	CLOs	3
Signature		Assessment Score	2 Marks

Topic **Installation of ORACLE**

Objectives - To become familiar with DBMS Types, Oracle versions & installation

Lab Discussion: Theoretical concepts and Procedural steps

What is Oracle?

Oracle database (Oracle DB) is a relational database management system (RDBMS) from the Oracle Corporation. Originally developed in 1977 by Lawrence Ellison and other developers, Oracle DB is one of the most trusted and widely-used relational database engines. The system is built around a relational database framework in which data objects may be directly accessed by users (or an application front end) through structured query language (SQL). Oracle is a fully scalable relational database architecture and is often used by global enterprises, which manage and process data across wide and local area networks. The Oracle database has its own network component to allow communications across networks. Oracle DB is also known as Oracle RDBMS and, sometimes, just Oracle.

Advantages of using Oracle XE:

1. very lightweight installation kit (~150 MB vs ~1700 GB for 11gR1)
2. very easy installation
3. not very intrusive, much less memory used compared to 11gR1
4. very recommended for the application development process
5. very recommended as a MySQL replacement

Disadvantages of using Oracle XE:

1. it's not supported by Oracle support

2. it is working on just one processor core, no matter how many you have
3. it will not use more than 1 GB of RAM, no matter how much RAM you have
4. you cannot store more than 4 GB(10g) and 11 GB(11g) of user data, hard-coded limitation
5. you'll not find patches for it

Installation guide to Oracle Express Edition

NOTE: Before attempting to install Oracle Database XE 11.2 uninstall any existing Oracle Database XE or database with the SID XE from the target system.

To perform a graphics user interface installation, follow the following steps:

1. Go to the following URL:

<http://www.oracle.com/technetwork/database/database-technologies/express-edition/downloads/index.html>

2. Follow the instructions and to select and download the Microsoft windows version of Oracle database express editions(XE).
3. After downloading the Oracle Database XE installation executable, setup.exe, double-click it.
4. In the Oracle Database 11g Express Edition - Install Wizard welcome window, click **Next**.
5. In the License Agreement window, select **I accept the terms in the license agreement** and then click **Next**.
6. In the Choose Destination Location window, either accept the default or click **Browse** to select a different installation directory. (Do not select a directory that has spaces in its name.) Then click **Next**.
7. If you are prompted for a port number, then specify one.

The following port numbers are the default values:

- **1521:** Oracle database listener
- **2030:** Oracle Services for Microsoft Transaction Server

- **8080**: HTTP port for the Oracle Database XE graphical user interface

If these port numbers are not currently used, then the installation uses them automatically without prompting you. If they are in use, then you will be prompted to enter an available port number.

8. In the Specify Database Passwords window, enter and confirm the password to use for the SYS and SYSTEM database accounts. Then click **Next**.
9. In the Summary window, review the installation settings, and if you are satisfied, click **Install**. Otherwise, click **Back** and modify the settings as necessary.
10. In the InstallShield Wizard Complete window, click **Finish**.
11. In order to import an Oracle dump file, first of all place your .dmp file in your C:\ drive.

This location may be different depending on where you installed Oracle.

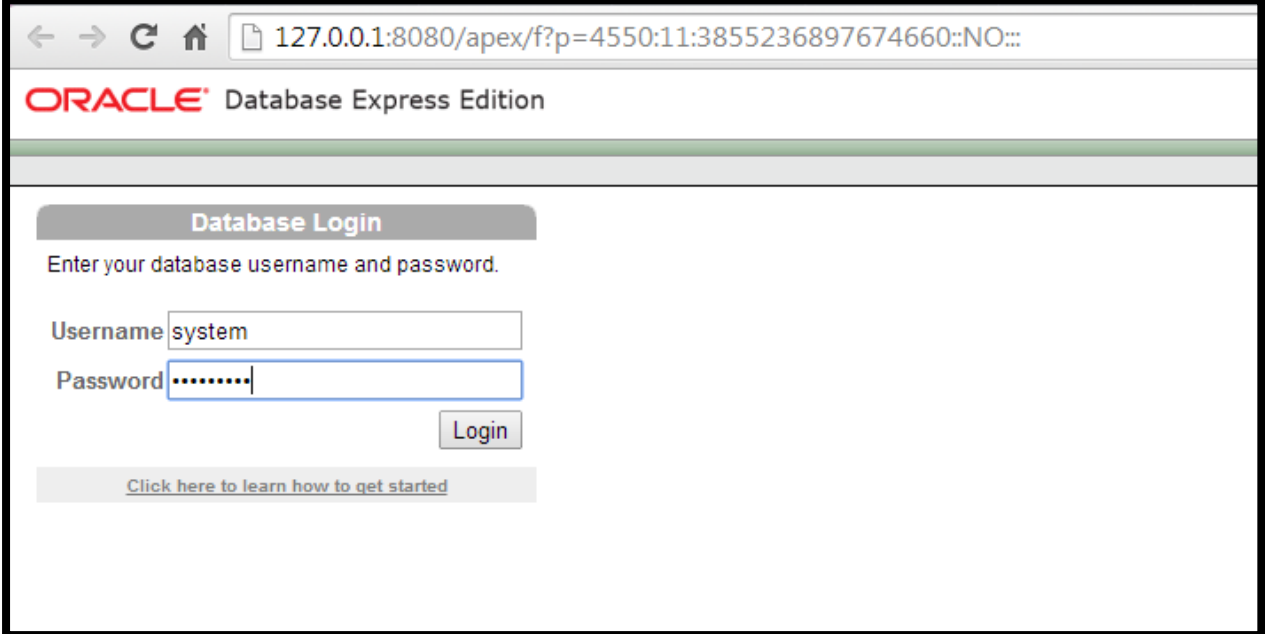
12. Next, go to start menu ---> Run and type cmd.
13. Then type the following command in the command prompt

imp system/password file C:\empdb.dump FULL=yes

```
C:\>imp system/kill2kill file=C:\empdb.dump FULL=yes
Import: Release 10.2.0.1.0 - Production on Mon Aug 25 14:10:06 2014
Copyright (c) 1982, 2005, Oracle. All rights reserved.

Connected to: Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
Export file created by EXPORT:V09.02.00 via conventional path
Warning: the objects were exported by BDAT11, not by you
import done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
export client uses US7ASCII character set (possible charset conversion)
. importing BDAT11's objects into SYSTEM
. . importing table "BONUS" 0 rows imported
. . importing table "DEPT" 507 rows imported
. . importing table "EMP" 5011 rows imported
. . importing table "SALGRADE" 999 rows imported
Import terminated successfully without warnings.
```

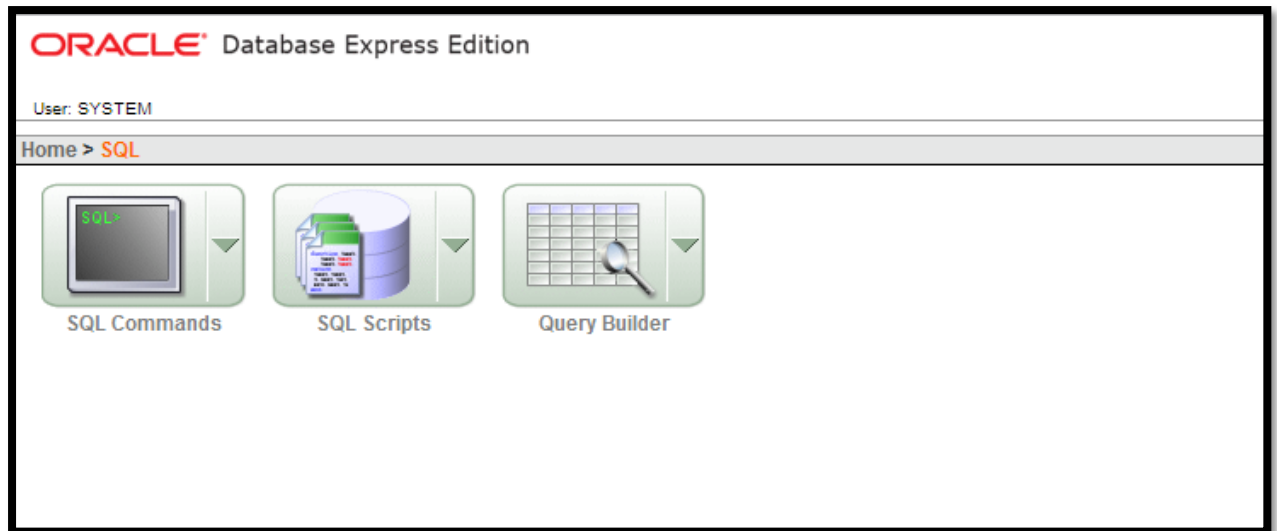
14. Finally, launch Oracle database express edition. It will ask you for the username and password(kindly enter the password that you have set while doing the installation)



The screenshot shows the Oracle Database Express Edition login interface. The browser address bar displays the URL: 127.0.0.1:8080/apex/f?p=4550:11:3855236897674660::NO::: The page header includes the Oracle logo and the text "Database Express Edition". The main content area features a "Database Login" section with the instruction "Enter your database username and password." Below this, there are two input fields: "Username" with the value "system" and "Password" with masked characters ".....". A "Login" button is positioned to the right of the password field. At the bottom of the login section, there is a link that says "Click here to learn how to get started".

For now, we are only concerned with SQL.





Lab Tasks

1. Install Oracle Express Edition in your systems.