LAB SHEET 1

Title   : Knowing Oracle

Objectives   : At the end of the session, students are able to:

        i.   install Oracle Express Edition

        ii.   get familiar with Oracle Express Edition

        iii.   use Oracle Express Edition

Duration   : 2 Hours

Lab Contents:
- Install Oracle XE
- Create a Table
- Adding Data

Overview of Oracle EX

Oracle Database Express Edition 11.2 (Oracle Database XE) is an entry-level, small-footprint database based on the Oracle Database 10*g* Release 2 code base that's free to develop, deploy, and distribute; fast to download; and simple to administer. Oracle Database XE is a great starter database for:

- **Developers** working on PHP, Java, .NET, XML, and Open Source applications

- **DBAs** who need a free, starter database for training and deployment

- **Independent Software Vendors (ISVs) and hardware vendors** who want a starter database to distribute free of charge

- **Educational institutions and students** who need a free database for their curriculum

With Oracle Database XE, we can develop and deploy applications with a powerful, proven, industry-leading infrastructure, and then upgrade when necessary without costly and complex migrations.

Oracle Database XE can be installed on any size host machine with any number of CPUs (one database per machine), but XE will store up to 4GB of user data, use up to 1GB of memory, and use one CPU on the host machine.

Getting started: Installing Oracle

Step 1: Download the software from drive. Email is sent.

Step 2: Install the software.

> 2.1. Please use the following information while installing the software
>
> > Username: system
> >
> > password : 12345
>
> You may use your own desirable password if you are installing the software in your own computer. But, please remember the password.
>
> 2.2. You may find error during installation. Proceed installing the software.

Step 3: Starting the software

> Start -->AllPrograms-->Oracle 11g XE Express Edition >> *database Home Page*
>
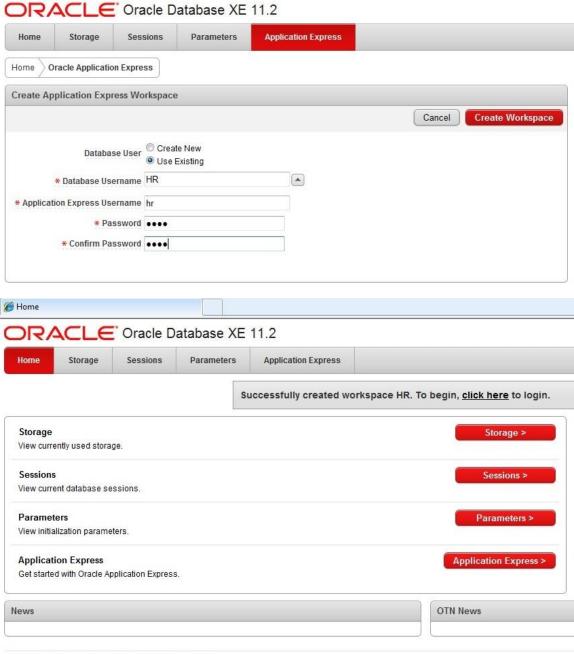> If you cant find the *database Home Page* icon here,
>
> Go to :
>
> 3.1   Start -->AllPrograms-->Oracle 11g XE Express Edition >> start database
>
> 3.2   Open browser and key in "http://localhost:8080/apex/f?p=4950"
>
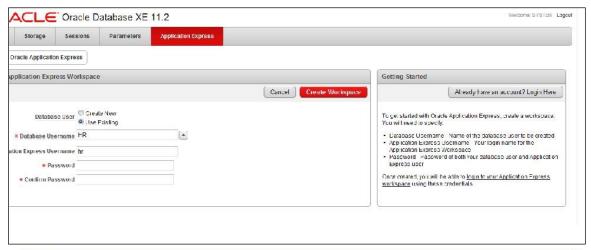> 3.3   Problem is solved.

Unit 1: Starting Oracle XE

- Start -->AllPrograms-->Oracle 11g XE Express Edition

  - Click on *Go to database Home Page*.
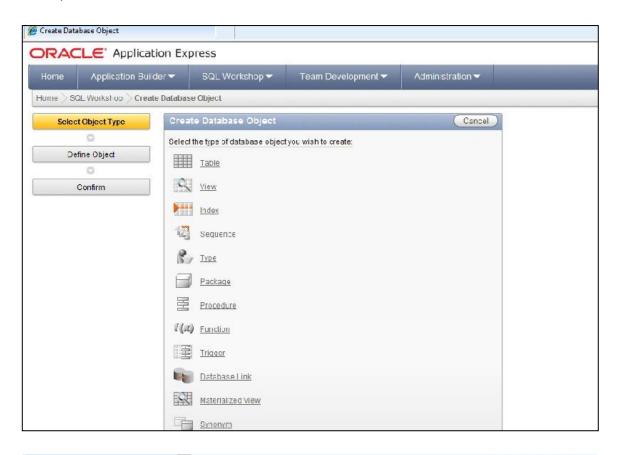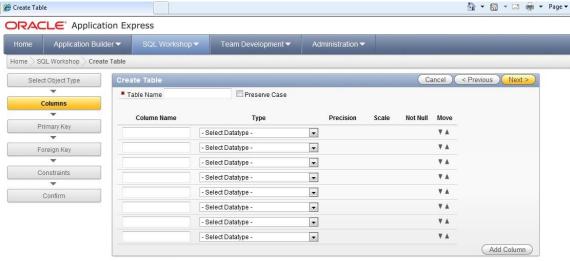
- Username: system; password : 12345

- Existing user and existing workspace → login using right side frame *"Already have an account? Login here"*
- Login through ORACLE Application Express: *"Enter Application Express workspace and credentials"*
- Click on the **SQL WORKSHOP**
- Click on the **OBJECT BROWSER**

Unit 2: Create a Table From Scratch

- Click on the **CREATE BUTTON**

This opens the create table window as shown.

- Insert field name as table below.

Field Name	Data Type	Size	Description
AccountId	Text	16	Account Identification
CustIC	Text	12	Customer Identification Number
Debit	Number	10	Debit Account
Credit	Number	10	Credit Account
Amount	Number	10	Amount Saving in account

- Close and you should give this table name as T01ACCTMSTR
- Please set the AccountId as the primary key when the RDBMS asking for that.
- Please close the menu now.

Unit 3: Adding Data
1. Now open the table T01ACCTMSTR. And insert the data below on table.

AccountId	CustIC	Debit	Credit	Amount
A100110001000001	700001021234	1000	345	1000.00
B100110001000001	700001021234	1000	500	2000.00
C100110001000001	700001021234	1000	123	2000.00

Exercise:

- Create a table for the orders placed by the e-commerce web page, for the following schema data.

```
Create table customer_order (
    order_id         number,
    customer_id      number,
    order_date       date,
    order_ship_date  date,
    item_qty_num     number,
    ship_notes       varchar2(1000)
)
```

- Create the **Htek_Employees** table for the **Htek** company, such that the table will consist solely of the Employee information as follows:

```
First_Name
Last_Name
Hire_Date
Birth_Date
Title
Salary
Address
City
State
Zip
Home_Phone
Office_Phone_Phone
Cell_Phone
Email
Health_Coverage
Notes
```