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**LAB SHEET 1**

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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

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**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 10g 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

**ORACLE** Oracle Database XE 11.2

Home	Storage	Sessions	Parameters	<b>Application Express</b>
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Home > Oracle Application Express

Create Application Express Workspace

Cancel **Create Workspace**

Database User ☐ Create New ☒ Use Existing

\* Database Username

\* Application Express Username

\* Password

\* Confirm Password

Home

**ORACLE** Oracle Database XE 11.2

Home	Storage	Sessions	Parameters	Application Express
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Successfully created workspace HR. To begin, [click here](#) to login.

<b>Storage</b> View currently used storage.	<b>Storage &gt;</b>
<b>Sessions</b> View current database sessions.	<b>Sessions &gt;</b>
<b>Parameters</b> View initialization parameters.	<b>Parameters &gt;</b>
<b>Application Express</b> Get started with Oracle Application Express.	<b>Application Express &gt;</b>

News	OTN News
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**ACLE** Oracle Database XE 11.2 Welcome: SYS@10g Logout

Storage Sessions Parameters **Application Express**

Oracle Application Express

Application Express Workspace

Database User ☐ Create New ☒ Use Existing

\* Database Username:

Application Express Username:

\* Password:

\* Confirm Password:

**Getting Started**

To get started with Oracle Application Express, create a workspace. You will need to specify:

- Database Username: Name of the database user to be created
- Application Express Username: Your login name for the Application Express Workspace
- Password: Password of both your database user and Application Express user

Once created, you will be able to [login to your Application Express workspace](#) using these credentials.

**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.

Language: English, Português (Brasil), 中文 (简体), 日本語

- 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.

The screenshot shows the Oracle Application Express interface. At the top, there's a navigation bar with links: Home, Application Builder, SQL Workshop, Team Development, and Administration. Below this is a breadcrumb trail: Home > SQL Workshop > Create Database Object. A modal dialog titled 'Create Database Object' is open. It contains a list of database object types with corresponding icons: Table (grid icon), View (magnifying glass icon), Index (orange grid icon), Sequence (cylinder icon), Type (person icon), Package (folder icon), Procedure (document icon), Function (math symbol icon), Trigger (document with lightning bolt icon), Database Link (cylinder icon), Materialized View (document with magnifying glass icon), and Synonym (document icon). The 'Table' option is selected. The dialog has a 'Cancel' button in the top right corner. On the left side of the dialog, there are three buttons: 'Select Object Type' (highlighted in yellow), 'Define Object', and 'Confirm'.

[illegible]

- 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