Asp.net Application to connect Oracle and MS SQL Server Database

**Final Project for ITMD 422**

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Objective:

# To develop an [asp.net](http://asp.net/) application that connects to and loads data from Oracle and MS SQL database

# About the application:

This Application is basically programmed in .net to connect to Oracle and MS SQL Server Database in order to fetch table data from selected tables.

This application is credential protected which has LogIn Screen and only limited Users can access application for security purpose.

You can Log into this application with following LogIn ID and Password

1. **Usernem** : group25

**PassWord** : testest

# Below is a description of each screen along with the Code, Functionality and Corresponding Screenshots of the Output window

# Design and Block Diagram:

**MainPage**

**LogIn Page**

Select table name

in Main page

Username: group25

Password: testest

# Log In Screen

## Description and Functionality:

This Screen allows User to Log in to the application. On successful validation of the credentials provided, page will navigate to Mainpage.apsx where the user can select the table of their choice from the drop down menu and click on the corresponding database button to fetch the data.

UserName and Password are mandatory to Login else error message  will  be displayed.

Valid Username and Password is

1. **Username** : group25

**PassWord** : testest

## 1.2 Code:

### **logIn.aspx**

<!-- Programmers : Sneha Upadhyayula and Prashanth Naika (Group25)

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-->

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="LogIn.aspx.cs" Inherits="LogIn" %>

<!DOCTYPE html>

<!-- HTML to create style for the webpage -->

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title>Final Project for ITMD422</title>

<style type="text/css">

.auto-style1 {

width: 100%;

}

.auto-style3 {

width: 230px;

height: 30px;

text-align: right;

}

.auto-style4 {

height: 30px;

text-align: left;

}

.auto-style5 {

height: 30px;

width: 245px;

text-align: center;

}

.auto-style7 {

text-align: left;

height: 49px;

}

.auto-style8 {

width: 230px;

height: 57px;

text-align: right;

}

.auto-style9 {

height: 57px;

width: 245px;

text-align: center;

}

.auto-style10 {

height: 57px;

text-align: left;

}

.auto-style11 {

text-decoration: underline;

}

.auto-style12 {

width: 230px;

text-align: right;

height: 49px;

}

.newStyle1 {

background-image: url('Stunning-retro-graphic-powerpoint-design-background-1000x750.jpg');

background-repeat: no-repeat;

font-family: Papyrus;

font-weight: 900;

font-style: italic;

}

.newStyle2 {

font-family: "Copperplate Gothic Bold";

font-weight: 500;

font-size: medium;

}

.newStyle3 {

font-family: "Copperplate Gothic Bold";

font-size: medium;

font-weight: 500;

}

.auto-style13 {

width: 245px;

text-align: right;

height: 49px;

}

</style>

</head>

<body class="newStyle1">

<form id="form1" runat="server">

<h1><span class="auto-style11"><strong>Final Project for ITMD 422</strong></span></h1>

<br />

Please enter UserName and Password to log In !<br />

<br />

<table class="auto-style1">

<tr>

<td class="auto-style3">User Name</td>

<td class="auto-style5">

<asp:TextBox ID="txtusername" runat="server" style="margin-left: 3px" Width="200px"></asp:TextBox>

</td>

<td class="auto-style4">

<asp:Label ID="Label1" runat="server" ForeColor="Red" ></asp:Label>

</td>

</tr>

<tr>

<td class="auto-style8">Password</td>

<td class="auto-style9">

<asp:TextBox ID="txtpassword" runat="server" MaxLength="8" style="margin-left: 0px" TextMode="Password" Width="200px"></asp:TextBox>

</td>

<td class="auto-style10">

<asp:Label ID="Label2" runat="server" ForeColor="Red" ></asp:Label>

</td>

</tr>

<tr>

<td class="auto-style12"></td>

<td class="auto-style13">

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="LogIn" Width="71px" CssClass="newStyle2" />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; &nbsp;&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click" Text="Cancel" Width="77px" CssClass="newStyle3" />

</td>

<td class="auto-style7"></td>

</tr>

</table>

</form>

</body>

</html>

### **logIn.aspx.cs**

// Programmers : Sneha Upadhyayula and Prashanth Naika (Group25)

// Final Project for ITMD422

//namespace

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class LogIn : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

//if UserName is not entered

if (txtusername.Text.Count() == 0)

{

Label1.Text = "Please enter Username";

return;

}

else

Label1.Text = "";

// if password is not entered

if (txtpassword.Text.Count() == 0)

{

Label2.Text = "Please enter Password";

return;

}

else

Label2.Text = "";

// when proper username and password is given

if (txtusername.Text.Count() > 0 && txtpassword.Text.Count() > 0)

{

if (txtusername.Text.Equals("group25") && (txtpassword.Text.Equals("testest")))

{

Response.Redirect("MainPage.aspx");

}

else

{

Response.Write("Invalid Username/Password");

return;

}

}

}

// when user click on Cancel button

protected void Button2\_Click(object sender, EventArgs e)

{

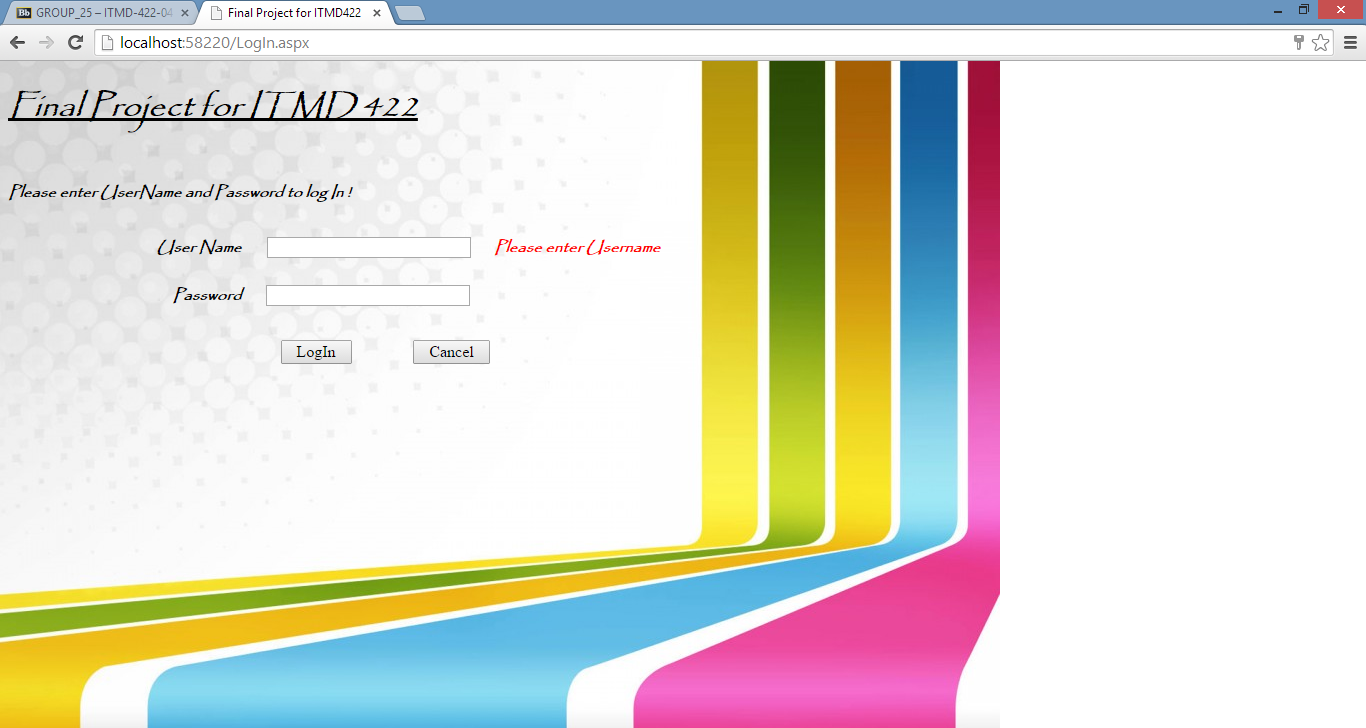
Response.Write("login Cancelled");

}

}

## 1.3 Screen Shots:



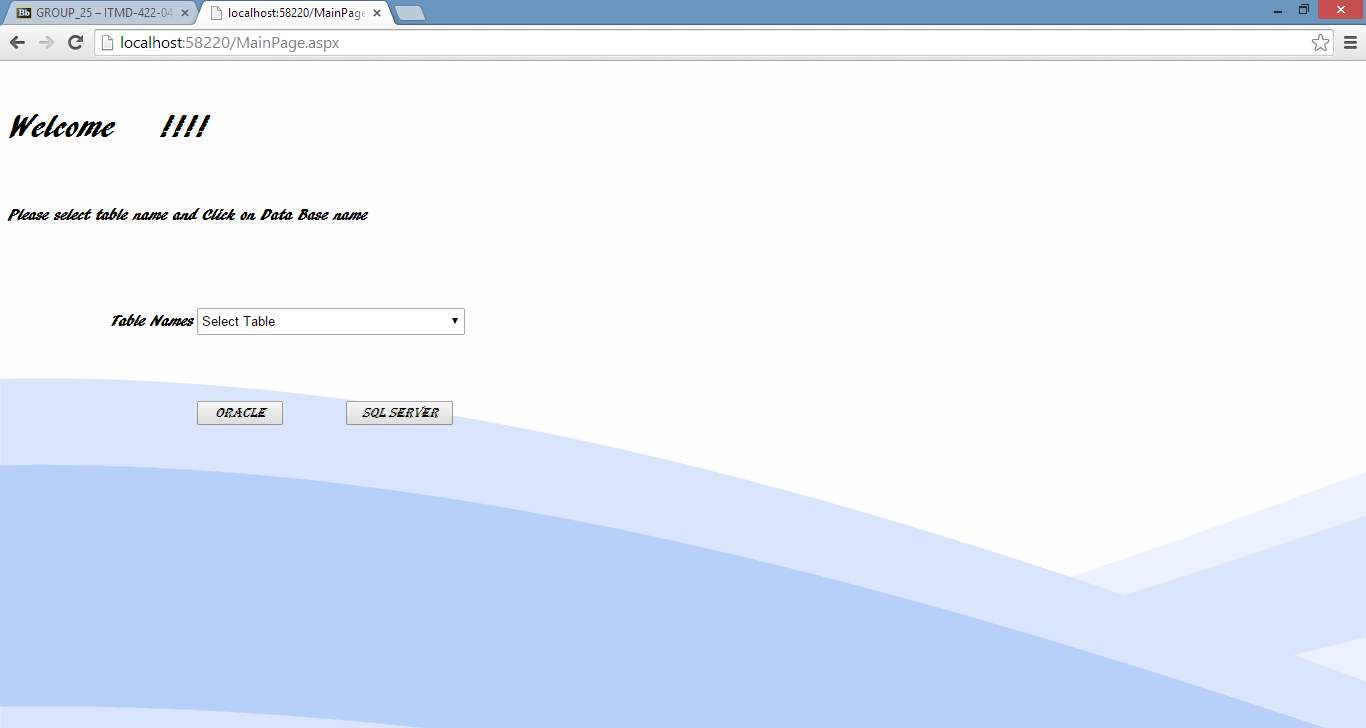




After giving proper Username and Password.

Username : group25

Password : testest



# MainPage Screen

## 2.1 Description and Functionality:

This Screen has a field to select Table name from the drop down and there are two buttons available One to connect **ORACLE** database and other to connect **SQL SERVER** database.

Grid will be displayed when we select table and click on database button, his grid will display the data fetched from the table selected.

2.2 Code:

### MainPage.aspx

<!-- Programmers : Sneha Upadhyayula and Prashanth Naika (Group25)

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-->

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="MainPage.aspx.cs" Inherits="MainPage" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title></title>

<style type="text/css">

.auto-style1 {

width: 100%;

}

.auto-style4 {

width: 182px;

text-align: right;

height: 23px;

}

.auto-style5 {

width: 405px;

height: 23px;

}

.auto-style6 {

height: 23px;

}

.auto-style7 {

width: 182px;

text-align: right;

height: 63px;

}

.auto-style8 {

width: 405px;

height: 63px;

}

.auto-style9 {

height: 63px;

}

.auto-style13 {

width: 182px;

text-align: right;

height: 58px;

}

.auto-style14 {

width: 405px;

height: 58px;

}

.auto-style15 {

height: 58px;

}

.newStyle1 {

background-image: url('ooo1.1-elements-background\_v1.png');

font-family: "AR BLANCA";

font-weight: 800;

font-style: normal;

}

.newStyle2 {

font-family: Algerian;

font-style: italic;

font-weight: 500;

}

.newStyle3 {

font-family: Algerian;

font-weight: 500;

font-style: italic;

}

</style>

</head>

<body class="newStyle1">

<form id="form1" runat="server">

<br />

<h1><strong>Welcome&nbsp;&nbsp;&nbsp;

!!!!</strong></h1>

<br />

<br />

<strong>Please select table name and Click on Data Base name<br />

<br />

</strong><br />

<table class="auto-style1">

<tr>

<td class="auto-style4"></td>

<td class="auto-style5"></td>

<td class="auto-style6"></td>

</tr>

<tr>

<td class="auto-style13">Table Names</td>

<td class="auto-style14">

<asp:DropDownList ID="DropDownListTableName" runat="server" Height="27px" Width="268px">

<asp:ListItem>Select Table</asp:ListItem>

<asp:ListItem Value="tbl\_order">Orders Table</asp:ListItem>

<asp:ListItem Value="tbl\_customer">Customer Table</asp:ListItem>

<asp:ListItem Value="tbl\_shp\_confg">Shop Config Table</asp:ListItem>

</asp:DropDownList>

</td>

<td class="auto-style15"></td>

</tr>

<tr>

<td class="auto-style4"></td>

<td class="auto-style5"></td>

<td class="auto-style6"></td>

</tr>

<tr>

<td class="auto-style7"></td>

<td class="auto-style8">

<asp:Button ID="Button1" runat="server" Text="Oracle" Width="86px" OnClick="Button1\_Click" CssClass="newStyle2" />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; &nbsp;

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click" Text="SQL Server" Width="107px" CssClass="newStyle3" />

</td>

<td class="auto-style9"></td>

</tr>

<tr>

<td class="auto-style7">&nbsp;</td>

<td class="auto-style8">

<asp:GridView ID="GridView1" runat="server">

</asp:GridView>

</td>

<td class="auto-style9">&nbsp;</td>

</tr>

</table>

</form>

</body>

</html>

### MainPage.aspx.cs

// Programmers : Sneha Upadhyayula and Prashanth Naika (Group25)

// Final Project for ITMD422

using System;

using System.Collections.Generic;

using System.Data;

using System.Data.Odbc;

using System.Data.OracleClient;

using System.Data.SqlClient;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class MainPage : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

// This Class will connect to Oracle database and fetch data from selected table name

protected void Button1\_Click(object sender, EventArgs e)

{

OracleConnection con = new OracleConnection("Data Source=(DESCRIPTION=(ADDRESS\_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost)(PORT=1521)))(CONNECT\_DATA=(SERVER=DEDICATED)(SERVICE\_NAME=xe)));User Id=system;Password=!QAZ1qaz;");

//OracleConnection con = new OracleConnection("Data Source=localhost:1521;;User Id=system;Password=Polymath@123;");

try

{

con.Open();

String sql = "Select \* from tbl\_order";

OracleCommand cmd = new OracleCommand(sql, con);

DataTable table = new DataTable();

string tableName;

if (DropDownListTableName.SelectedIndex != 0)

{

tableName = DropDownListTableName.SelectedValue;

string query = "Select \* from " + tableName;

OracleDataAdapter da = null;

using (da = new OracleDataAdapter(cmd))

{

da.Fill(table);

}

GridView1.DataSource = table;

GridView1.DataBind();

}

}

}

// This Class will connect to MS SQL database and fetch data from selected table name

protected void Button2\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source=PRAASH\\SQLEXPRESS;Initial Catalog=IITProject;Integrated Security=True");

con.Open();

DataTable table = new DataTable();

string tableName;

if (DropDownListTableName.SelectedIndex != 0)

{

tableName = DropDownListTableName.SelectedValue;

string query = "Select \* from "+tableName;

SqlCommand cmd = new SqlCommand(query, con);

SqlDataAdapter da = null;

using (da = new SqlDataAdapter(cmd))

{

da.Fill(table);

}

GridView1.DataSource = table;

GridView1.DataBind();

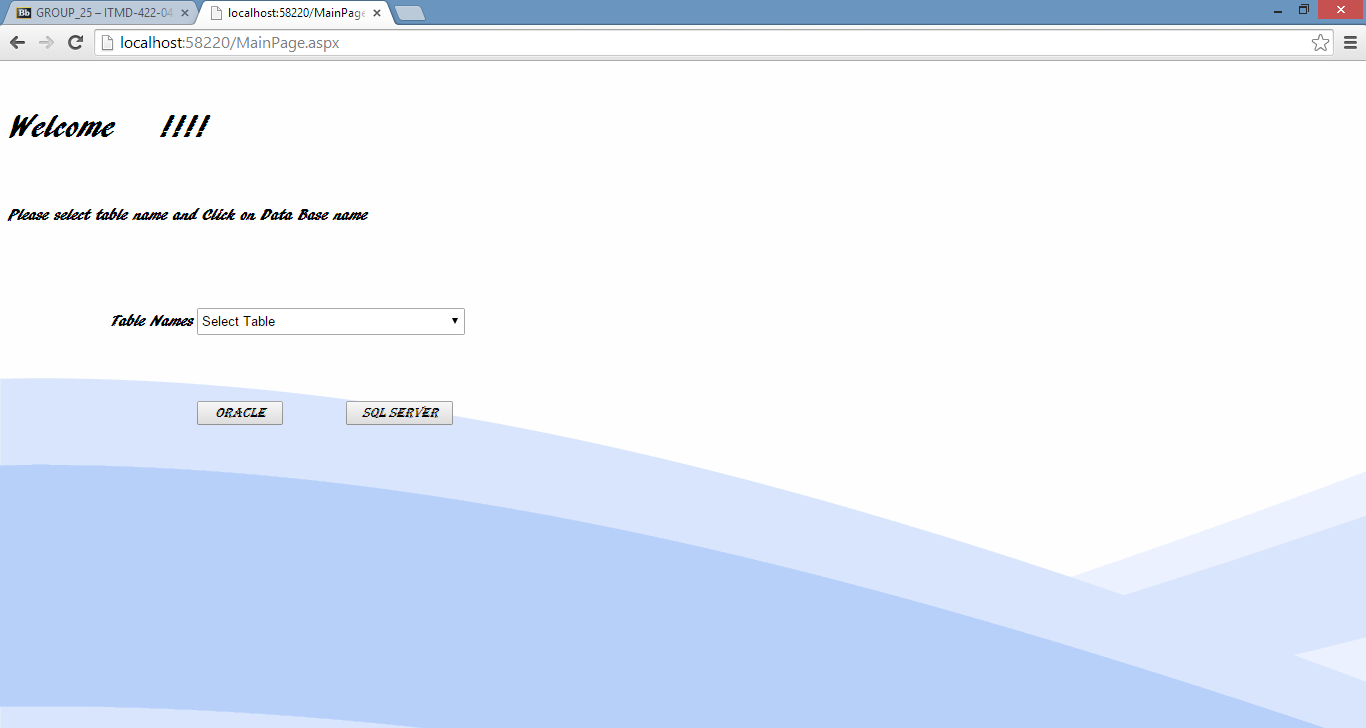
}

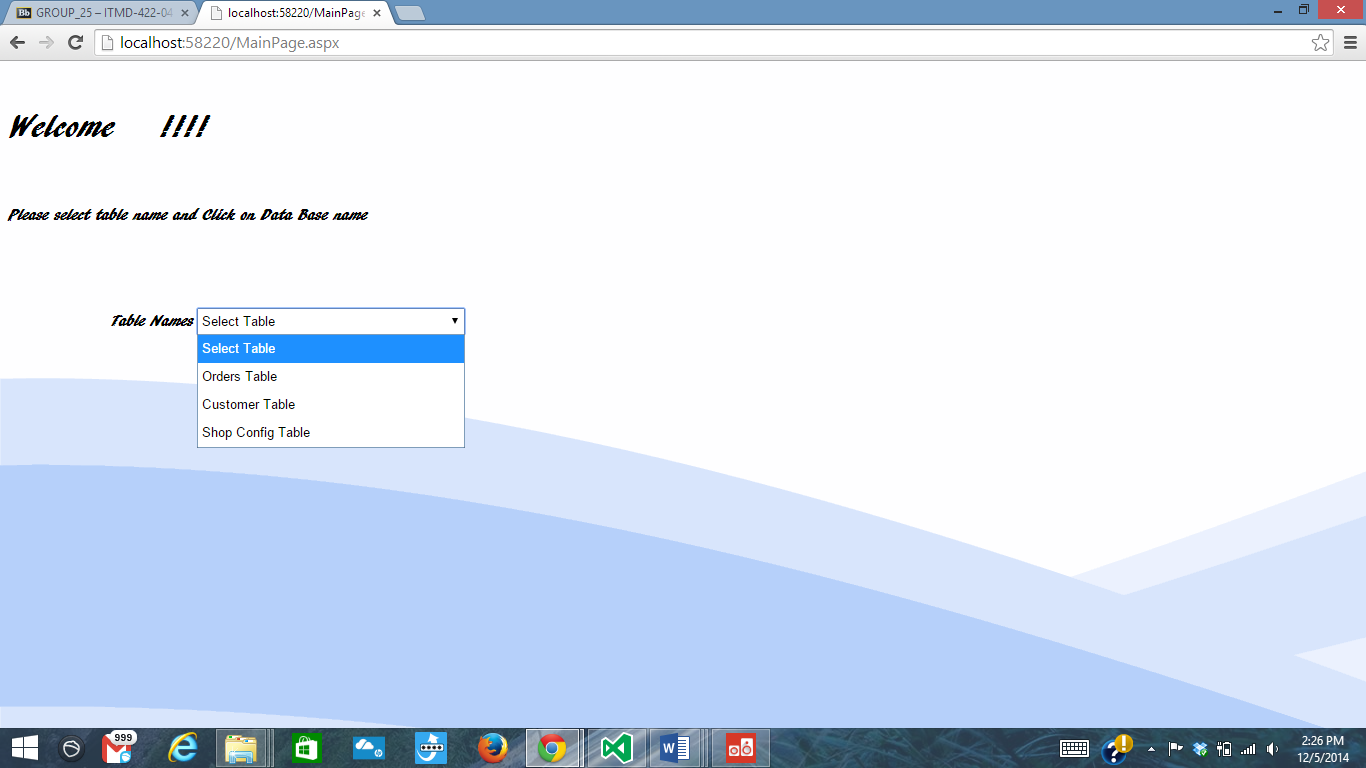
con.Close();

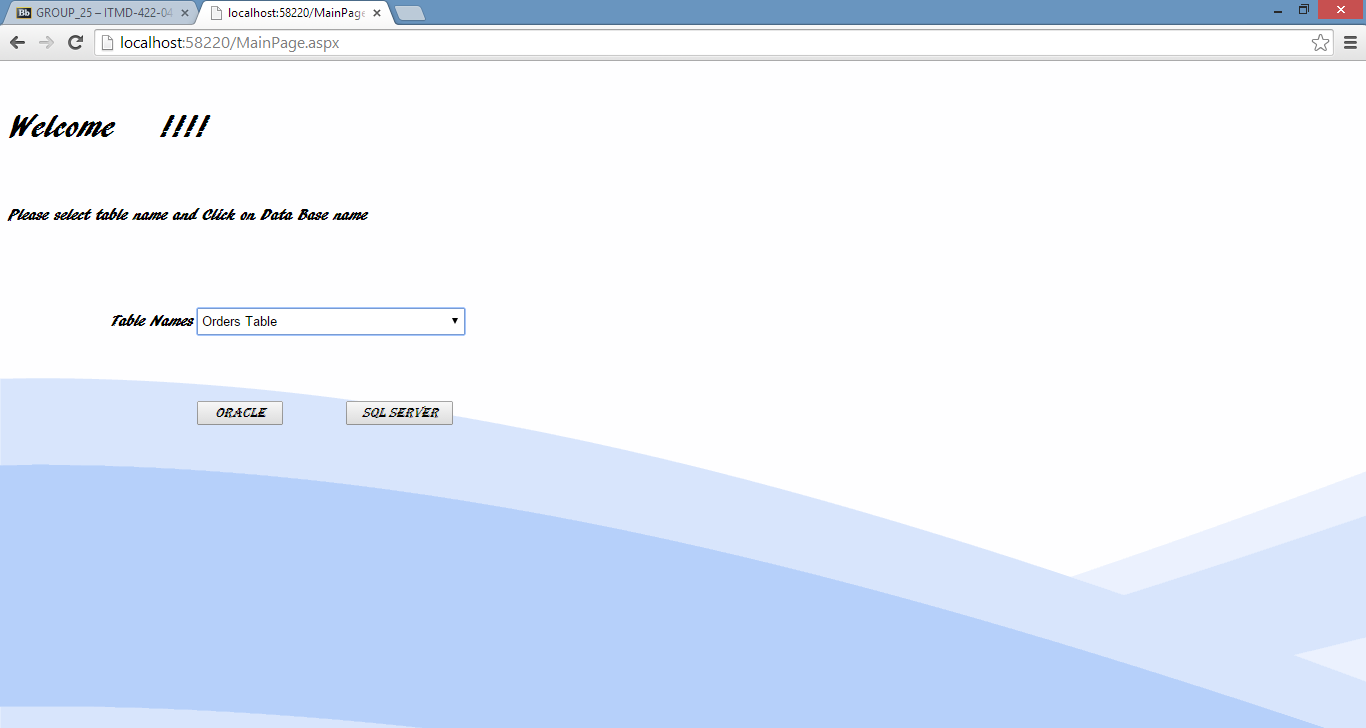
}

}

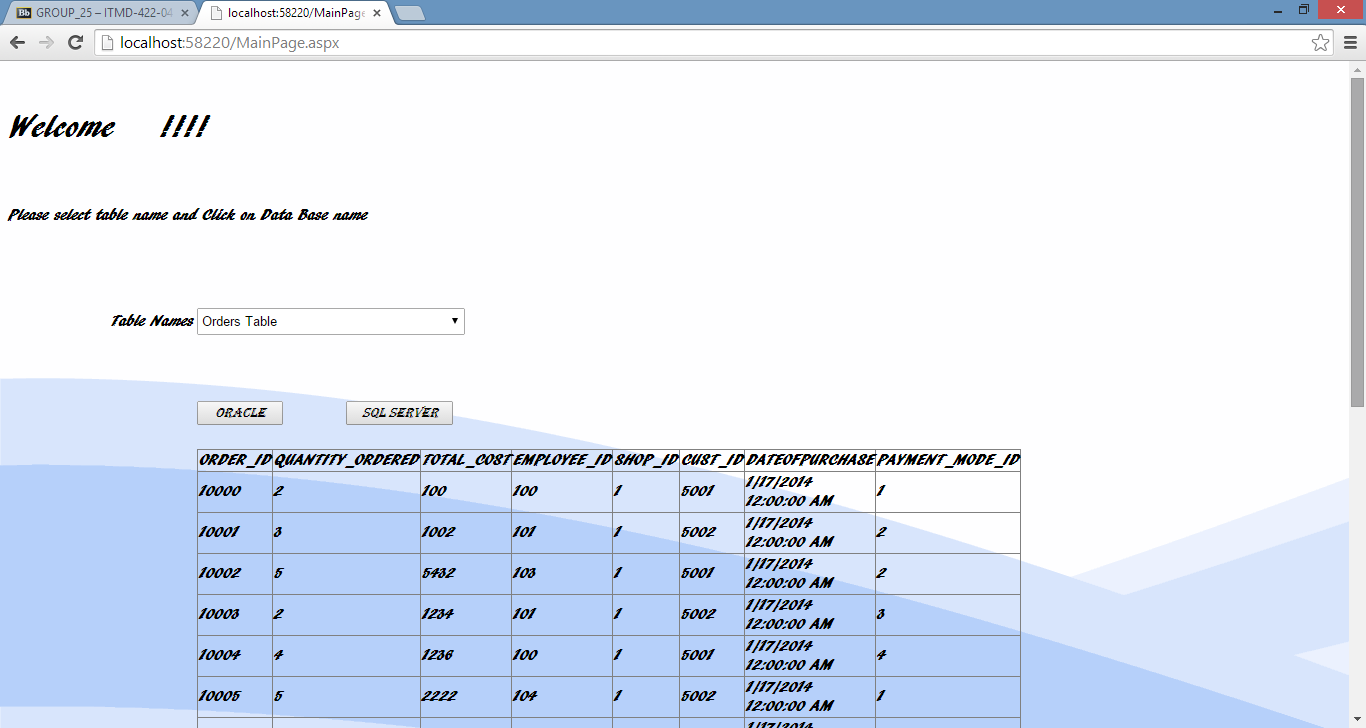
## 2.3 Screen Shots

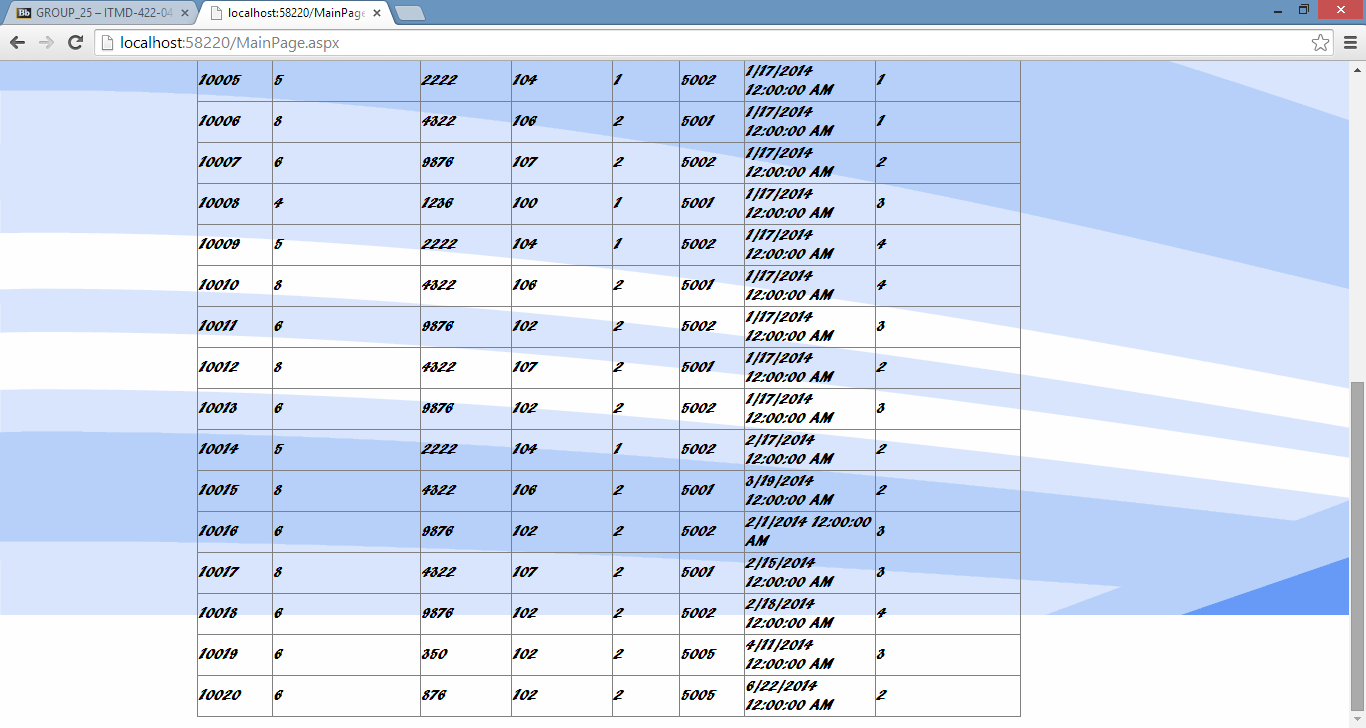




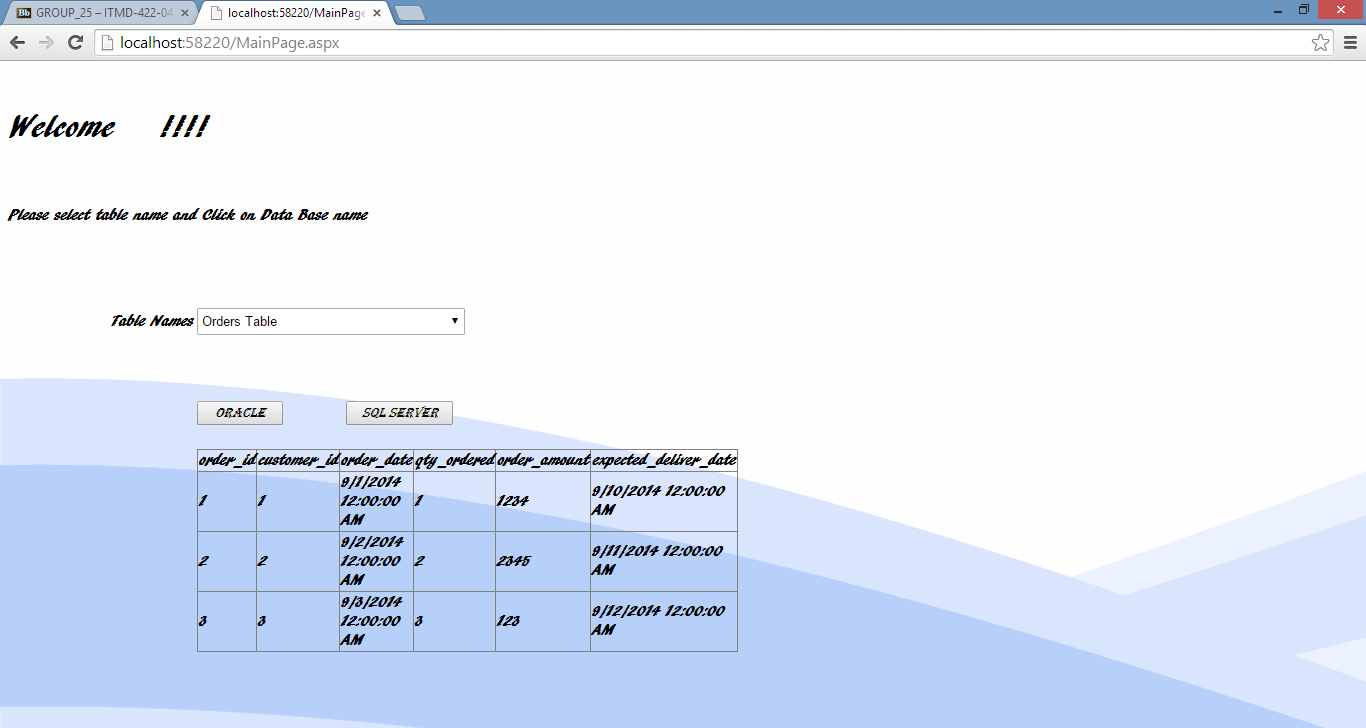


When Oracle is clicked





When SQL SERVER is clicked



# Create table and Insert statements for SQL database

-- contains data about the shop  
create table tbl\_shp\_confg(  
shop\_id int IDENTITY(1,1) primary key,  
shop\_name varchar(20) not null,   
timings varchar(20) not null,  
num\_of\_employees int not null,  
contact\_num varchar(20) not null  
);  
  
INSERT INTO tbl\_shp\_confg (shop\_name, timings, num\_of\_employees, contact\_num)  
values('A','9 AM - 6 PM',10,'[3126478554](tel:3126478554)'), ('B','9 AM - 6 PM',15,'[3124792467](tel:3124792467)'), ('C','9 AM - 6 PM',20,'3121234569'),   
('D','9 AM - 6 PM',12,'[3122345676](tel:3122345676)'), ('E','9 AM - 6 PM',14,'3121345676'), ('F','9 AM - 6 PM',16,'[3132245676](tel:3132245676)');  
  
  
-- contains customer related data  
  
create table tbl\_customer(  
customer\_id int IDENTITY(1,1) unique,  
customer\_fname varchar(20) unique not null,  
customer\_lname varchar(20) unique not null,  
customer\_ph varchar(10) not null,  
shop\_id int not null,  
constraint pk\_key primary key(customer\_id,shop\_id),  
CONSTRAINT shp\_id\_fk1  
FOREIGN KEY (shop\_id)  
REFERENCES tbl\_shp\_confg(shop\_id));  
  
insert into tbl\_customer (customer\_fname, customer\_lname, customer\_ph, shop\_id)  
 values('Alex','Ferguson','[3124567891](tel:3124567891)',1), ('Rock','Kevin','3561237891',4), ('Peter','Mark','9999999999',1);  
  
-- contains information about the items ordered  
  
create table tbl\_order(  
order\_id int IDENTITY(1,1) primary key,  
customer\_id int,  
order\_date date not null,   
qty\_ordered int not null,  
order\_amount int not null,  
expected\_deliver\_date date not null,  
CONSTRAINT cu\_id\_fk1  
FOREIGN KEY (customer\_id)  
REFERENCES tbl\_customer(customer\_id)  
);  
  
  
insert into tbl\_order (customer\_id, order\_date, qty\_ordered, order\_amount, expected\_deliver\_date)  
values(1,'01-SEP-2014',1,1234,'10-sep-2014'), (2,'02-SEP-2014',2,2345,'11-sep-2014'), (3,'03-SEP-2014',3,123,'12-sep-2014');

# Create table and Insert Statements for Oracle Database:

/\* TABLE CUSTOMER WILL HAVE INFORMATION ABOUT THE CUSTOMER\*/

CREATE TABLE TBL\_CUSTOMERS

(

CUST\_ID NUMBER NOT NULL,

CUST\_NAME VARCHAR2(100) UNIQUE NOT NULL,

CUST\_EMAIL VARCHAR2(100),

CUST\_PH NUMBER(10),

CUST\_FAX NUMBER(10),

CONSTRAINT CUST\_ID\_PK PRIMARY KEY(CUST\_ID)

);

/\* INSERTING CUSTOMER INFORMATION INTO CUSTOMER \*/

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'VIKRAM','VIK@GMAIL.COM',9876543212,1212432112);

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'JOHN','JOHN@GMAIL.COM',1212432112,9876543212);

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'GEO','GEO@GMAIL.COM',9345643212,1212432112);

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'RICHA','RIC@GMAIL.COM',8766543212,1234567898);

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'SHASHANK','SHA@GMAIL.COM',2345543212,9875434521);

INSERT INTO TBL\_CUSTOMERS VALUES (CUSTIDSEQ.NEXTVAL,'SANJEEV','SAN@GMAIL.COM',9845643212,4312123456);

/\* SHOP\_TABLE WILL HAVE ALL THE INFORMATION OF SMALL ENGINE SHOPS, IT MAY HAVE MULTIPLE SHOPS \*/

CREATE TABLE TBL\_SHOP\_CONFIGURATION

(

SHOP\_ID NUMBER NOT NULL,

SHOP\_PH\_NUM NUMBER,

SHOP\_LICENSE NUMBER UNIQUE NOT NULL,

SHOP\_NUM\_EMP NUMBER,

SHOP\_OWNER VARCHAR2(100),

CONSTRAINT SHOPID\_PK PRIMARY KEY(SHOP\_ID)

);

--INSERTING SHOP INFORMATION INTO TABLE SHOP\_TABLE, SHOP\_ID WILL AUTO GENERATE USING SEQUENCE

INSERT INTO TBL\_SHOP\_CONFIGURATION VALUES (SHOPIDSEQ.NEXTVAL,'3124567654',1234,'10','MAHESH');

INSERT INTO TBL\_SHOP\_CONFIGURATION VALUES (SHOPIDSEQ.NEXTVAL,'8976542224',1245,'12','PRAJWAL');

INSERT INTO TBL\_SHOP\_CONFIGURATION VALUES (SHOPIDSEQ.NEXTVAL,'6754167654',2345,'14','SHASHA');

INSERT INTO TBL\_SHOP\_CONFIGURATION VALUES (SHOPIDSEQ.NEXTVAL,'9876567654',7654,'15','GAMMY');

INSERT INTO TBL\_SHOP\_CONFIGURATION VALUES (SHOPIDSEQ.NEXTVAL,'9986254728',0987,'9','NORY');

CREATE TABLE TBL\_ORDERS

(

ORDER\_ID NUMBER NOT NULL,

QUANTITY\_ORDERED NUMBER NOT NULL,

TOTAL\_COST NUMBER NOT NULL,

EMPLOYEE\_ID NUMBER(6,0) NOT NULL,

SHOP\_ID NUMBER NOT NULL,

CUST\_ID NUMBER NOT NULL,

DATEOFPURCHASE DATE,

PAYMENT\_MODE\_ID NUMBER,

CONSTRAINT ORDER\_ID\_PK1 PRIMARY KEY(ORDER\_ID),

CONSTRAINT SHOP\_ID\_FK8 FOREIGN KEY(SHOP\_ID)

REFERENCES TBL\_SHOP\_CONFIGURATION(SHOP\_ID),

CONSTRAINT CUST\_ID\_FK8 FOREIGN KEY(CUST\_ID)

REFERENCES TBL\_CUSTOMERS(CUST\_ID)

);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,2,100,100,1,5001,'17-JAN-14',1);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,3,1002,101,1,5002,'17-JAN-14',2);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,5,5432,103,1,5001,'17-JAN-14',2);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,2,1234,101,1,5002,'17-JAN-14',3);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,4,1236,100,1,5001,'17-JAN-14',4);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,5,2222,104,1,5002,'17-JAN-14',1);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,8,4322,106,2,5001,'17-JAN-14',1);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,6,9876,107,2,5002,'17-JAN-14',2);

INSERT INTO TBL\_ORDERS VALUES (ORDERIDSEQ.NEXTVAL,4,1236,100,1,5001,'17-JAN-14',3);