

IT WEEK 6

Question 1

Page1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Page1.aspx.cs"
Inherits="QUES1.Page1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Select the ID of the staff whose details you want to display:<br />
            <asp:DropDownList ID="DropDownList1" runat="server"
AutoPostBack="true"
OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged"></asp:DropDow
nList><br /><br />
            <asp:GridView ID="GridView1" runat="server"></asp:GridView><br /><br
/>
            Select a city to update city:<br />
            <asp:ListBox ID="ListBox1" runat="server"></asp:ListBox><br /><br />
            <asp:Button ID="Button1" runat="server" Text="Update"
OnClick="Button1_Click" /><br />
            <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
        </div>
    </form>
</body>
</html>
```

Page1.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.Configuration;
using System.Data;
using System.Data.SqlClient;

namespace QUES1
{
    public partial class Page1 : System.Web.UI.Page
```

```

{
    string connectionString =
WebConfigurationManager.ConnectionStrings["HouseKeeping"].ConnectionString;
    DataSet ds = new DataSet();
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!this.IsPostBack)
        {
            SqlConnection myConnection = new SqlConnection(connectionString);
            try
            {
                DropDownList1.Items.Add("");
                myConnection.Open();
                SqlCommand command = new SqlCommand("Select DISTINCT StaffID
from Staff", myConnection);

                SqlDataAdapter adapter = new SqlDataAdapter(command);
                adapter.Fill(ds, "staff_ids");
                DropDownList1.DataSource = ds.Tables["staff_ids"];
                DropDownList1.DataTextField = "StaffID";

                DropDownList1.DataBind();

            }
            catch (Exception err)
            {
                Label1.Text = "Error reaing the database";
                Label1.Text += err.Message;
            }
            finally
            {
                myConnection.Close();
            }

            ListBox1.Items.Add("Bangalore");
            ListBox1.Items.Add("Chennai");
            ListBox1.Items.Add("Hyderabad");
            ListBox1.Items.Add("kolkata");
            ListBox1.Items.Add("Delhi");
            ListBox1.Items.Add("Nagpur");
        }
    }

    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs
e)
    {
        SqlConnection myConnection = new SqlConnection(connectionString);

```

```

        SqlCommand command = new SqlCommand("Select
FirstName,LastName,DNo,Street,City,State,ZipCode from Staff where
StaffID=@staffid", myConnection);
        command.Parameters.AddWithValue("@staffid",
DropDownList1.SelectedItem.Text);
        SqlDataAdapter adapter = new SqlDataAdapter(command);
        try
        {
            myConnection.Open();
            adapter.Fill(ds, "staff_details");
            GridView1.DataSource = ds.Tables["staff_details"];
            GridView1.DataBind();
        }
        catch (Exception err)
        {
            Label1.Text = "Error reading details";
            Label1.Text += err.Message;
        }
        finally
        {
            myConnection.Close();
        }
    }

```

```

protected void Button1_Click(object sender, EventArgs e)
{
    if (DropDownList1.SelectedIndex == 0)
    {
        Label1.Text = "You need to select an staff";
    }
    else if (ListBox1.SelectedIndex == -1)
    {
        Label1.Text = "You need to select new city to update";
    }
    else
    {
        SqlConnection myConnection = new SqlConnection(connectionString);
        SqlCommand command = new SqlCommand("Update Staff set City=@city
where StaffID=@staffid", myConnection);
        command.Parameters.AddWithValue("city", ListBox1.SelectedItem.Text);
        command.Parameters.AddWithValue("staffid",
DropDownList1.SelectedItem.Text);
        try
        {
            myConnection.Open();
            int updated = command.ExecuteNonQuery();
            Label1.Text = updated.ToString() + "record(s) updated";
        }
    }
}

```

```

    }
    catch (Exception err)
    {
        Label1.Text = "Error updating table";
        Label1.Text += err.Message;
    }
    finally
    {
        myConnection.Close();
    }
}

}
}

```

Web.config

```

<connectionStrings>
    <add name="HouseKeeping" connectionString="Data
Source=(localdb)\mssqllocaldb;Initial Catalog=HouseKeeping;Integrated
Security=SSPI"/>
</connectionStrings>

```

Input-Output

Select the ID of the staff whose details you want to display:

Select a city to update city:

Bangalore	^
Chennai	
Hyderabad	
kolkata	v

Select the ID of the staff whose details you want to display:

102 ▾

FirstName	LastName	DNo	Street	City	State	ZipCode
Tanya	Banerjee	23	Villa Inn	Hyderabad	Rajasthan	569721

Select a city to update city:

Bangalore ^
Chennai
Hyderabad
kolkata ▾

Update

Select the ID of the staff whose details you want to display:

102 ▾

FirstName	LastName	DNo	Street	City	State	ZipCode
Tanya	Banerjee	23	Villa Inn	Bangalore	Rajasthan	569721

Select a city to update city:

Bangalore ^
Chennai
Hyderabad
kolkata ▾

Update

1 record(s) updated

Question 2

Page1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Page1.aspx.cs" Inherits="QUES2.Page1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">
```

```

<title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      Select a Genre:<br />
      <asp:DropDownList ID="DropDownList1" runat="server"
AutoPostBack="true"
OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged"></asp:DropDow
nList><br /><br />
      <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br />
      Select name of a legend:<br />
      <asp:ListBox ID="ListBox1" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="ListBox1_SelectedIndexChanged"></asp:ListBox><br
/><br /><br />
      <asp:TextBox ID="TextBox1" runat="server" ReadOnly="true"
Columns="50"></asp:TextBox><br /><br />
      <asp:Label ID="Label2" runat="server" Text=""></asp:Label>

    </div>
  </form>
</body>
</html>

```

Page1.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.Configuration;
using System.Data;
using System.Data.SqlClient;

namespace QUES2
{
    public partial class Page1 : System.Web.UI.Page
    {
        string connectionString =
WebConfigurationManager.ConnectionStrings["Test"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!this.IsPostBack)
            {
                Dictionary<int, string> dict = new Dictionary<int, string>();
                dict.Add(1, "Comedy");
                dict.Add(2, "Romance");
            }
        }
    }
}

```

```

        dict.Add(3, "Animated");
        DropDownList1.DataSource = dict;
        DropDownList1.DataTextField = "Value";
        this.DataBind();

    }

}

protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs
e)
{
    SqlConnection conn = new SqlConnection(connectionString);
    SqlCommand command = new SqlCommand("Select Id,name from Legends
where category=@cat", conn);
    command.Parameters.AddWithValue("cat",
DropDownList1.SelectedItem.Text);
    SqlDataReader reader;
    try
    {
        conn.Open();
        reader = command.ExecuteReader();
        Dictionary<string, string> dict = new Dictionary<string, string>();
        while(reader.Read())
        {
            dict.Add(reader["Id"].ToString(), reader["name"].ToString());
        }
        ListBox1.DataSource = dict;
        ListBox1.DataTextField = "Value";
        ListBox1.DataValueField = "Key";
        this.DataBind();
    }
    catch(Exception err)
    {
        Label1.Text = "Error retrieving data";
        Label1.Text += err.Message;
    }
    finally
    {
        conn.Close();
    }
}

protected void ListBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection(connectionString);
    SqlCommand command = new SqlCommand("Select age from Legends where
Id=@id", conn);
    command.Parameters.AddWithValue("id", ListBox1.SelectedItem.Value);

```

```

SqlDataReader reader;
try
{
    conn.Open();
    reader = command.ExecuteReader();
    reader.Read();
    TextBox1.Text = "Name:" + ListBox1.SelectedItem.Text;
    TextBox1.Text += " Age:" + reader["age"].ToString();
}
catch(Exception err)
{
    Label2.Text = "Error retrieving data";
    Label2.Text += err.Message;
}
finally
{
    conn.Close();
}
}
}

```

Web.config

```

<connectionStrings>
    <add name="Test" connectionString="Data
Source=(localdb)\mssqllocaldb;Initial Catalog=Test;Integrated Security=SSPI"/>
</connectionStrings>

```

Input-Output

Select a Genre:

Romance ▾

Select name of a legend:

Shah Rukh Khan ^
Kajol
Madhuri Dixit
Deepika Padukone ▾

Name:Shah Rukh Khan Age:55

Question 3

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="QUES3.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            <asp:Table ID="Table1" runat="server"></asp:Table><br /><br />
            Enter new price for vanilla:<br />
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
            <asp:Button ID="Button1" runat="server" Text="Update"
OnClick="Button1_Click" /><br />
            <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br />

        </div>
    </form>
</body>
</html>
```

WebForm1.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.Configuration;
using System.Data;
using System.Data.SqlClient;

namespace QUES3
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        string connectionString =
WebConfigurationManager.ConnectionStrings["Products"].ConnectionString;
```

```

protected void Page_Load(object sender, EventArgs e)
{

    if (!this.IsPostBack)
        UpdateTable();
}

public void UpdateTable()
{

    SqlConnection conn = new SqlConnection(connectionString);
    SqlCommand command = new SqlCommand("Select * from Items", conn);
    SqlDataReader reader;
    try
    {
        conn.Open();
        reader = command.ExecuteReader();
        Table1.Controls.Clear();
        TableRow newRow = new TableRow();
        Table1.Controls.Add(newRow);
        TableCell cellNew = new TableCell();
        cellNew.Text = "ItemID";
        cellNew.BorderStyle = BorderStyle.Inset;
        cellNew.BorderWidth = Unit.Pixel(1);
        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = "Flavour";
        cellNew.BorderStyle = BorderStyle.Inset;
        cellNew.BorderWidth = Unit.Pixel(1);
        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = "Price";
        cellNew.BorderStyle = BorderStyle.Inset;
        cellNew.BorderWidth = Unit.Pixel(1);
        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = "Taste";
        cellNew.BorderStyle = BorderStyle.Inset;
        cellNew.BorderWidth = Unit.Pixel(1);
        newRow.Controls.Add(cellNew);

        while (reader.Read())
        {
            newRow = new TableRow();
            Table1.Controls.Add(newRow);
            cellNew = new TableCell();
            cellNew.Text = reader["itemID"].ToString();

```

```

        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = reader["flavour"].ToString();
        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = reader["price"].ToString();
        newRow.Controls.Add(cellNew);
        cellNew = new TableCell();
        cellNew.Text = reader["taste"].ToString();
        newRow.Controls.Add(cellNew);

    }

}
catch (Exception err)
{
    Label1.Text = "Error retrieving records<hr>";
    Label1.Text += err.Message;
}
finally
{
    conn.Close();
}
}
protected void Button1_Click(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection(connectionString);
    SqlCommand command = new SqlCommand("Update Items set price=@price
where itemID=11", conn);
    //command.Parameters.AddWithValue("ID", 11);
    command.Parameters.AddWithValue("price", int.Parse(TextBox1.Text));

    try
    {
        conn.Open();
        int added = 0;
        added = command.ExecuteNonQuery();
        if (added > 0)
            Label1.Text = added.ToString() + " row(s) updated";
        UpdateTable();
    }
    catch (Exception err)
    {
        Label1.Text = "Error updating database";
        Label1.Text += err.Message;
    }
    finally
    {
        conn.Close();
    }
}

```

```

    }
  }
}

```

Web.config

```

<connectionStrings>
  <add name="Products" connectionString="Data
Source=(localdb)\mssqllocaldb;Initial Catalog=Products;Integrated Security=SSPI"/>
</connectionStrings>

```

Input-Output

ItemID	Flavour	Price	Taste
11	vanila	80	sweet
22	pista	100	tangy
55	butterscotch	150	sweet

Enter new price for vanilla:

ItemID	Flavour	Price	Taste
11	vanila	95	sweet
22	pista	100	tangy
55	butterscotch	150	sweet

Enter new price for vanilla:

1 row(s) updated

Question 4

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="QUES4.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            INSERT NEW EMPLOYEE RECORD:<hr />
            Enter employee name:<asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox><br />
            Enter company name:<asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox><br />
            Enter salary:<asp:TextBox ID="TextBox3"
runat="server"></asp:TextBox><br />
            Enter city of residence:<asp:TextBox ID="TextBox5"
runat="server"></asp:TextBox><br />
            Enter street name:<asp:TextBox ID="TextBox6"
runat="server"></asp:TextBox><br />
            <asp:Button ID="Button1" runat="server" Text="INSERT"
OnClick="Button1_Click"/><br />
            <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br />
            ENTER COMPANY NAME TO FIND EMPLOYEE DETAILS :<br /><hr />
            <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox><br /><br />
            <asp:Button ID="Button2" runat="server" Text="SUBMIT"
OnClick="Button2_Click" /><br />
            <asp:Label ID="Label2" runat="server" Text=""></asp:Label>

            <asp:Table ID="Table1" runat="server"></asp:Table>

        </div>
    </form>
</body>
</html>
```

WebForm1.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
```

```

using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Web.Configuration;

namespace QUES4
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        string connectionString =
WebConfigurationManager.ConnectionStrings["Company"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            if (TextBox4.Text == "")
                Label2.Text = "Enter company name";
            else
            {
                SqlConnection conn = new SqlConnection(connectionString);
                string sqlString = "Select WORKS.person_name,city from WORKS,LIVES
where WORKS.person_name=LIVES.person_name and company_name=@comp ";
                SqlCommand command = new SqlCommand(sqlString, conn);
                command.Parameters.AddWithValue("comp", TextBox4.Text);
                SqlDataReader reader;
                try
                {
                    conn.Open();
                    reader = command.ExecuteReader();
                    Table1.BorderStyle = BorderStyle.Inset;
                    Table1.BorderWidth = Unit.Pixel(2);
                    Table1.Controls.Clear();
                    TableHeaderRow row = new TableHeaderRow();
                    Table1.Controls.Add(row);
                    TableHeaderCell cell = new TableHeaderCell();
                    cell.Text = "NAME";
                    row.Controls.Add(cell);
                    cell = new TableHeaderCell();
                    cell.Text = "CITY";
                    row.Controls.Add(cell);
                    while (reader.Read())
                    {
                        TableRow row1 = new TableRow();
                        Table1.Controls.Add(row1);
                        TableCell cell1 = new TableCell();
                        cell1.Text = reader["person_name"].ToString();
                        row1.Controls.Add(cell1);
                    }
                }
            }
        }
    }
}

```

```

        cell1 = new TableCell();
        cell1.Text = reader["city"].ToString();
        row1.Controls.Add(cell1);

    }

}

catch (Exception err)
{
    Label1.Text = "Error retrieving from database<hr>";
    Label1.Text += err.Message;

}

finally
{
    conn.Close();
}

}

}

protected void Button1_Click(object sender, EventArgs e)
{
    if (TextBox1.Text == "" || TextBox2.Text == "" || TextBox3.Text ==
""||TextBox5.Text==""||TextBox6.Text=="")
        Label1.Text = "Enter name of employee, name of the company,salary, city and
street.";
    else
    {
        SqlConnection conn = new SqlConnection(connectionString);
        string sqlString = "Insert into WORKS(person_name,company_name,salary)
values(@name,@company,@salary)";
        SqlCommand command = new SqlCommand(sqlString, conn);
        command.Parameters.AddWithValue("name", TextBox1.Text);
        command.Parameters.AddWithValue("company", TextBox2.Text);
        command.Parameters.AddWithValue("salary", int.Parse(TextBox3.Text));
        int inserted;
        try
        {
            conn.Open();
            inserted = command.ExecuteNonQuery();
            sqlString = "Insert into LIVES(person_name,street,city)
values(@name,@street,@city)";
            command = new SqlCommand(sqlString, conn);
            command.Parameters.AddWithValue("name", TextBox1.Text);
            command.Parameters.AddWithValue("street", TextBox6.Text);
            command.Parameters.AddWithValue("city", TextBox5.Text);

```

```

        command.ExecuteNonQuery();
        Label1.Text = inserted + " row(s) added";

    }
    catch(Exception err)
    {
        Label1.Text = "Error inserting into database<hr>";
        Label1.Text += err.Message;

    }
    finally
    {
        conn.Close();
    }
}
}
}
}
}

```

Web.config

```

<connectionStrings>
    <add name="Company" connectionString="Data
Source=(localdb)\mssqllocaldb;Initial Catalog=Company;Integrated Security=SSPI"/>
</connectionStrings>

```

Input-Output

INSERT NEW EMPLOYEE RECORD:

Enter employee name:

Enter company name:

Enter salary:

Enter city of residence:

Enter street name:

INSERT

ENTER COMPANY NAME TO FIND EMPLOYEE DETAILS :

SUBMIT

NAME	CITY
Dharani	Pune

INSERT NEW EMPLOYEE RECORD:

Enter employee name:

Enter company name:

Enter salary:

Enter city of residence:

Enter street name:

INSERT

1 row(s) added

ENTER COMPANY NAME TO FIND EMPLOYEE DETAILS :

SUBMIT

NAME	CITY
Ahana	Pune
Dharani	Pune

