PRACTICAL NO.8
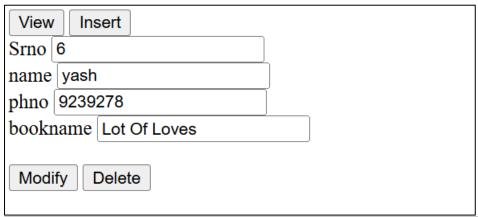
A. **AIM: Create a web application to demonstrate various uses and properties of Sql Data Source.**

Mysql Query:
```
CREATE TABLE books (
   srno   INT        NOT NULL,
   name     VARCHAR (100) NULL,
   phno     VARCHAR (15)  NULL,
   bookname VARCHAR (100) NULL,
   PRIMARY KEY CLUSTERED (srno)
);
```
CODE:
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace pra8a
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;
      SqlDataSource s = new SqlDataSource();
      protected void Page_Load(object sender, EventArgs e)
      {
         s.ConnectionString = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=C:\\Users\\Vishwakarma\\source\\
repos\\pra8a\\pra8a\\App_Data\\students.mdf;Integrated Security=True";
      }
      protected void Button1_Click(object sender, EventArgs e)
      {
         s.SelectCommand = "select * from books";
         GridView1.DataSource = s;
         GridView1.DataBind();
      }
      protected void Button2_Click(object sender, EventArgs e)
      {
         SqlParameter p1 = new SqlParameter(), p2 = new SqlParameter(),p3 = new
SqlParameter(),p4 = new SqlParameter();
         s.InsertParameters.Add("p1",System.Data.DbType.Int16,TextBox1.Text);
         s.InsertParameters.Add("p2", System.Data.DbType.String, TextBox2.Text);
         s.InsertParameters.Add("p3", System.Data.DbType.Int16, TextBox3.Text);
         s.InsertParameters.Add("p4", System.Data.DbType.String, TextBox4.Text);
      }
      protected void Button3_Click(object sender, EventArgs e)
      {
         SqlParameter p1 = new SqlParameter(), p2 = new SqlParameter();
```

```
            s.UpdateParameters.Add("p2",System.Data.DbType.String,TextBox2.Text);
            s.UpdateParameters.Add("p1", System.Data.DbType.Int16, TextBox1.Text);
            s.UpdateCommand = "update books SET name=@p2 where phno=@p1";
            s.Update();
        }
        protected void Button4_Click(object sender, EventArgs e)
        {
            SqlParameter p1 = new SqlParameter();
            s.DeleteParameters.Add("p1", System.Data.DbType.Int16, TextBox1.Text);
            s.DeleteCommand = "delete books where phno=@p1";
            s.Delete();
        }
    }}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra8a.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        #form1 {
            height: 388px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="View" />
        <asp:Button ID="Button2" runat="server" Text="Insert" OnClick="Button2_Click" />
        <br />
        <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="srno" DataSourceID="SqlDataSource1">
            <Columns>
                <asp:BoundField DataField="srno" HeaderText="srno" ReadOnly="True"
SortExpression="srno" />
                <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>
                <asp:BoundField DataField="phno" HeaderText="phno" SortExpression="phno"
/>
                <asp:BoundField DataField="bookname" HeaderText="bookname"
SortExpression="bookname" />
            </Columns>
        </asp:GridView>
        <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:ConnectionString %>" ProviderName="<%$
ConnectionStrings:ConnectionString.ProviderName %>"></asp:SqlDataSource>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
```

```
    <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
    <br />
    <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
    <br />
    <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
    <br />
    <asp:Button ID="Button3" runat="server" Text="Modify" OnClick="Button3_Click" />
    <asp:Button ID="Button4" runat="server" Text="Delete" OnClick="Button4_Click" />
  </form>
</body>
</html>
```

OUTPUT:

View	Insert

Srno 6

name yash

phno 9239278

bookname Lot Of Loves

Modify	Delete

View	Insert

Srno 6

name yash

phno 9239278

bookname Lot Of Loves

Modify	Delete

srno	name	phno	bookname
1	Sandeep	1234567890	The Great Gatsby
2	Sushil	0987654321	To Kill a Mockingbird
3	sharon	1122334455	1984
4	priyanshu	2233445566	Pride and Prejudice
5	ritesh	3344556677	Moby Dick

B. AIM: Create a web application to demonstrate data binding using DetailsView and FormView Control

Mysql Query:
```
CREATE TABLE students (
   name VARCHAR (50) NOT NULL,
   City VARCHAR (50) NULL,
   num  VARCHAR (50) NULL,
   PRIMARY KEY ( name)
);
```

CODE:
```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace pra8b
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void DetailsView1_PageIndexChanging(object sender,
DetailsViewPageEventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
        }
    }
}
```

SOURCE CODE:
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra8b.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
   <style type="text/css">
     #form1 {
        height: 428px;
     }
   </style>
</head>
<body>
   <form id="form1" runat="server">
```

```
<asp:DetailsView ID="DetailsView1" runat="server" Height="88px" Width="143px"
AutoGenerateRows="False" DataKeyNames="name" DataSourceID="SqlDataSource1"
AllowPaging="True" OnPageIndexChanging="DetailsView1_PageIndexChanging">
    <HeaderTemplate>Student Details</HeaderTemplate>
    <Fields>
      <asp:BoundField DataField="name" HeaderText="Name" ReadOnly="True"
SortExpression="name" />
        <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
       <asp:BoundField DataField="num" HeaderText="RollNo" SortExpression="num" />
        <asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
ShowInsertButton="True" />
    </Fields>
</asp:DetailsView>
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:C:\USERS\VISHWAKARMA\SOURCE\REPOS\PRA6B\PRA6B\APP_
DATA\DATABASE1.MDFConnectionString %>" SelectCommand="SELECT * FROM
[students]" DeleteCommand="DELETE FROM [students] WHERE [name] = @name"
InsertCommand="INSERT INTO [students] ([name], [City], [num]) VALUES (@name,
@City, @num)" UpdateCommand="UPDATE [students] SET [City] = @City, [num] =
@num WHERE [name] = @name">
    <DeleteParameters>
      <asp:Parameter Name="name" Type="String" />
    </DeleteParameters>
    <InsertParameters>
      <asp:Parameter Name="name" Type="String" />
      <asp:Parameter Name="City" Type="String" />
      <asp:Parameter Name="num" Type="String" />
    </InsertParameters>
    <UpdateParameters>
      <asp:Parameter Name="City" Type="String" />
      <asp:Parameter Name="num" Type="String" />
      <asp:Parameter Name="name" Type="String" />
    </UpdateParameters>
</asp:SqlDataSource>
<asp:FormView ID="FormView1" runat="server" DataKeyNames="name"
DataSourceID="SqlDataSource1" AllowPaging="True" Height="119px" Width="139px" >
    <EditItemTemplate>
       name:
       <asp:Label ID="nameLabel1" runat="server" Text='<%# Eval("name") %>' />
       <br />
       City:
      <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>' />
       <br />
       num:
      <asp:TextBox ID="numTextBox" runat="server" Text='<%# Bind("num") %>' />
       <br />
       <asp:LinkButton ID="UpdateButton" runat="server" CausesValidation="True"
CommandName="Update" Text="Update" />
         <asp:LinkButton ID="UpdateCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
```

```
        </EditItemTemplate>
        <HeaderTemplate>Student list</HeaderTemplate>
        <InsertItemTemplate>
          name:
        <asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name") %>' />
          <br />
          City:
         <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>' />
          <br />
          num:
         <asp:TextBox ID="numTextBox" runat="server" Text='<%# Bind("num") %>' />
          <br />
          <asp:LinkButton ID="InsertButton" runat="server" CausesValidation="True"
CommandName="Insert" Text="Insert" />
           <asp:LinkButton ID="InsertCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
        </InsertItemTemplate>
        <ItemTemplate>
          Name:
          <asp:Label ID="nameLabel" runat="server" Text='<%# Eval("name") %>' />
          <br />
          City:
          <asp:Label ID="CityLabel" runat="server" Text='<%# Bind("City") %>' />
          <br />
          RollN:
          <asp:Label ID="numLabel" runat="server" Text='<%# Bind("num") %>' />
          <br />
        </ItemTemplate>
      </asp:FormView>
   </form>
</body>
</html>
```

OUTPUT:

DetailsView

Student Details	
Name	Sandeep Vishwakarma
City	Thane
RollNo	50
Edit Delete New	
1 2 3 4 5 6 7	

FormView

Student Details	
Name	Sandeep Vishwakarma
City	Thane
RollNo	50
Edit Delete New	
1 2 3 4 5 6 7	

Student list

Name: Priyanshu
City: Thane
RollN: 90988

1 2 3 4 5 6 7

C. AIM: Create a web application to display Using Disconnected Data Access and Databinding and GridView.

Mysql Query:
```
CREATE TABLE students (
    name VARCHAR (50) NOT NULL,
    City VARCHAR (50) NULL,
    num  VARCHAR (50) NULL,
    PRIMARY KEY ( name)
);
```

CODE:
```
using System;
using System.Data.SqlClient;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Web.Configuration;
namespace pra8c
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        protected void Button1_Click(object sender, EventArgs e)
        {
            string constr =
WebConfigurationManager.ConnectionStrings["con"].ConnectionString;
            SqlConnection con = new SqlConnection(constr);
            con.Open();
            string sql = "select * from students ";
            SqlDataAdapter da = new SqlDataAdapter(sql,con);
            DataSet dS = new DataSet();
            da.Fill(dS);
            GridView1.DataSource = dS.Tables[0];
            GridView1.DataBind();
            con.Close();
        }
    }
}
```

SOURCE CODE:
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra8c.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:GridView ID="GridView1" runat="server">
            </asp:GridView>
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"
Height="23px" />
            <br />
   
        </div>
    </form>
</body>
</html>
```

OUTPUT:

Button

name	City	num
Priyanshu	Thane	90988
Rani	Diva	277932
Ritesh	Thane	34890
sandeep	Thane	9087654
Sandeep Vishwakarma	Thane	50
Suraj	kalwa	9083644
yash	Thane	38479

Button