**Aim:** Create a webpage that demonstrates the use of data bound controls of ASP.NET.

**Code:**

1. Develop a web application that displays employee data retrieved from a MySQL database using various data-bound controls in ASP.NET. The application should include functionalities to view employee data in a GridView, a Repeater, a ListView, and a FormView. Additionally, users should be able to filter employees by department using a DropDownList, and select multiple employees using a ListBox. make sure you already have data in the employee table in mysql.

**Employee.aspx:-**

using System;

using System.Collections.Generic; using System.Configuration;

using MySql.Data.MySqlClient; using System.Linq;

using System.Web; using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical\_4

{

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

{

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

{

if (!IsPostBack)

{

BindGridView(); BindRepeater(); BindListView(); BindFormView(); BindDropDownList(); BindListBox();

}

}

private void BindGridView()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

string department = ddlDepartments.SelectedValue;

// Construct the SQL query with a WHERE clause to filter by department string query = "SELECT \* FROM Employees";

if (!string.IsNullOrEmpty(department))

{

query += " WHERE Department = @Department";

}

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand(query, con); if (!string.IsNullOrEmpty(department))

{

cmd.Parameters.AddWithValue("@Department", department);

}

con.Open();

gvEmployees.DataSource = cmd.ExecuteReader(); gvEmployees.DataBind();

}

}

private void BindRepeater()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

string query = "SELECT \* FROM Employees"; string department = ddlDepartments.SelectedValue; if (!string.IsNullOrEmpty(department))

{

query += " WHERE Department = @department";

}

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand(query, con); if (!string.IsNullOrEmpty(department))

{

cmd.Parameters.AddWithValue("@department", department);

}

con.Open();

rptEmployees.DataSource = cmd.ExecuteReader(); rptEmployees.DataBind();

}

}

private void BindListView()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

string query = "SELECT \* FROM Employees"; string department = ddlDepartments.SelectedValue; if (!string.IsNullOrEmpty(department))

{

query += " WHERE Department = @department";

}

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand(query, con); if (!string.IsNullOrEmpty(department))

{

cmd.Parameters.AddWithValue("@department", department);

}

con.Open();

lvEmployees.DataSource = cmd.ExecuteReader(); lvEmployees.DataBind();

}

}

private void BindFormView()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

string query = "SELECT \* FROM Employees"; string department = ddlDepartments.SelectedValue; if (!string.IsNullOrEmpty(department))

{

query += " WHERE Department = @department";

}

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand(query, con); if (!string.IsNullOrEmpty(department))

{

cmd.Parameters.AddWithValue("@department", department);

}

con.Open();

fvEmployee.DataSource = cmd.ExecuteReader(); fvEmployee.DataBind();

}

}

private void BindDropDownList()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand("SELECT DISTINCT department FROM Employees", con);

con.Open();

MySqlDataReader reader = cmd.ExecuteReader(); ddlDepartments.DataSource = reader; ddlDepartments.DataTextField = "Department"; ddlDepartments.DataValueField = "Department"; ddlDepartments.DataBind();

ddlDepartments.Items.Insert(0, new ListItem("-- Select Department --", ""));

}

}

private void BindListBox()

{

string connectionString = ConfigurationManager.ConnectionStrings["constring"].ConnectionString;

string query = "SELECT \* FROM Employees"; string department = ddlDepartments.SelectedValue; if (!string.IsNullOrEmpty(department))

{

query += " WHERE Department = @department";

}

using (MySqlConnection con = new MySqlConnection(connectionString))

{

MySqlCommand cmd = new MySqlCommand(query, con); if (!string.IsNullOrEmpty(department))

{

cmd.Parameters.AddWithValue("@department", department);

}

con.Open();

MySqlDataReader reader = cmd.ExecuteReader(); lbEmployees.DataSource = reader; lbEmployees.DataTextField = "f\_name"; lbEmployees.DataValueField = "emp\_id"; lbEmployees.DataBind();

}

}

protected void ddlDepartments\_SelectedIndexChanged(object sender, EventArgs e)

{

lblEmployeesInDepartment.Text = "Employee in " + ddlDepartments.SelectedValue; BindGridView();

BindRepeater(); BindListView(); BindListBox();

}

}

}

Web.config:-

<?xml version="1.0" encoding="utf-8"?>

<!--

For more information on how to configure your ASP.NET application, please visit https://go.microsoft.com/fwlink/?LinkId=169433

-->

<configuration>

<connectionStrings>

<add name="constring" connectionString="Server=localhost;Database=myemp;Uid=root;Pwd=root;" providerName="MySql.Data.MySqlClient"/>

</connectionStrings>

<system.web>

<compilation debug="true" targetFramework="4.8"/>

<httpRuntime targetFramework="4.8"/>

</system.web>

<system.codedom>

<compilers>

<compiler language="c#;cs;csharp" extension=".cs" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default /nowarn:1659;1699;1701"/>

<compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default /nowarn:41008 /define:\_MYTYPE=\&quot;Web\&quot;

/optionInfer+"/>

</compilers>

</system.codedom>

<runtime>

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">

<dependentAssembly>

<assemblyIdentity name="System.Runtime.CompilerServices.Unsafe" publicKeyToken="B03F5F7F11D50A3A" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-6.0.0.0"

newVersion="6.0.0.0"/>

</dependentAssembly>

<dependentAssembly>

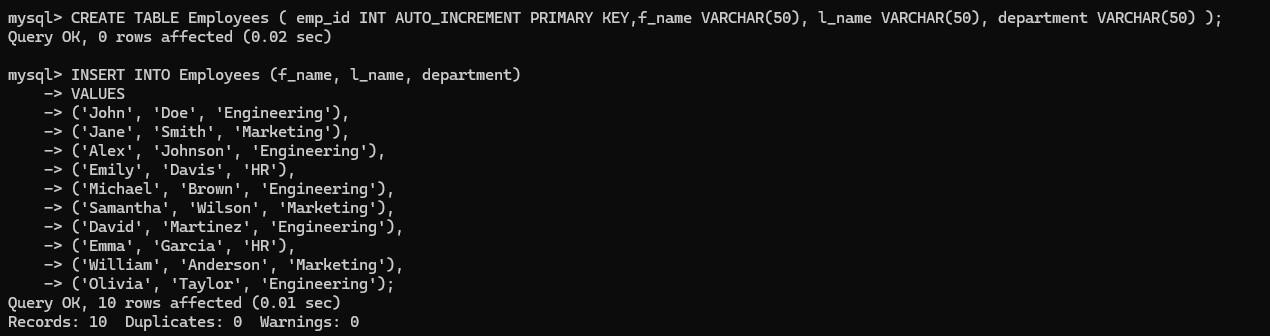
<assemblyIdentity name="System.Memory" publicKeyToken="CC7B13FFCD2DDD51" culture="neutral"/>

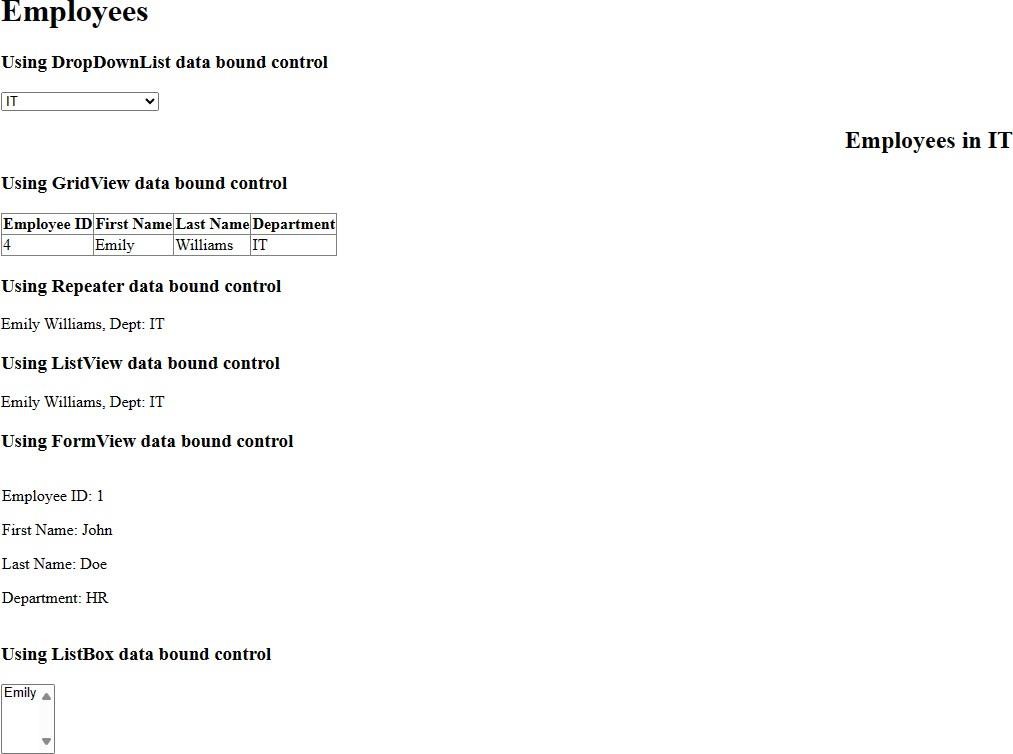
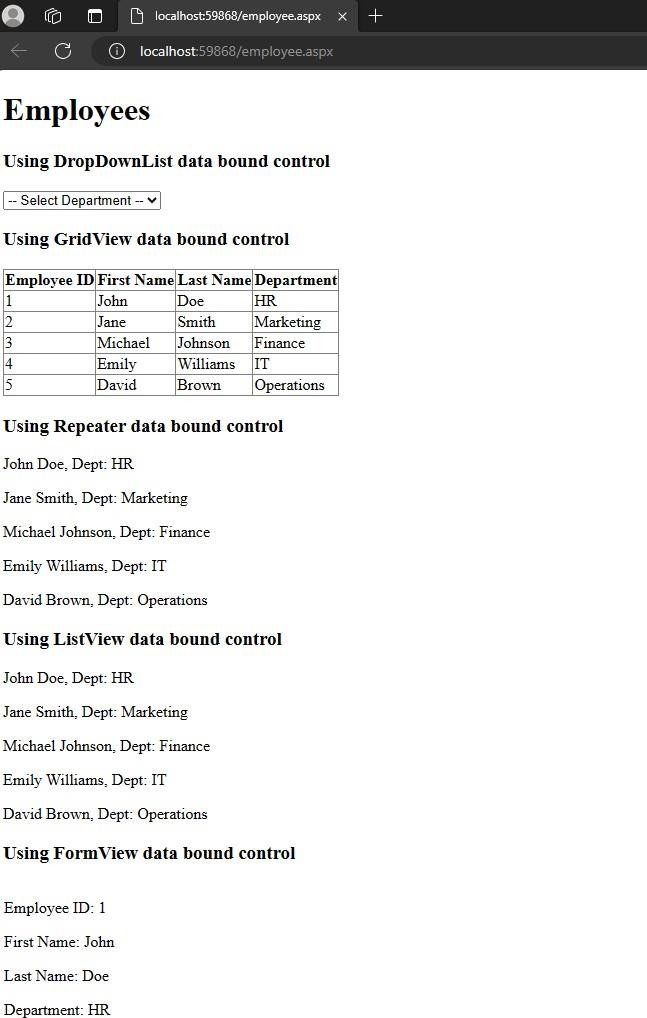
<bindingRedirect oldVersion="0.0.0.0-4.0.1.2"

newVersion="4.0.1.2"/>

</dependentAssembly></assemblyBinding></runtime>

</configuration>

**Output:** 



1. Develop a web application using ASP.NET and MySQL to managecustomer orders and product inventory. Design a user-friendly interface allowing users to view customer details and product information. Utilize data-bound controls such as GridView, Repeater, and DropDownList to display data dynamically. Implement filtering functionalities to filter customers by country and products by category. Ensure data retrieval from MySQL database tables "Customers" and "Products" and provide sample data for testing.

### Code:

using System;

using System.Collections.Generic; using System.Configuration; using System.Data.SqlClient; using System.Data;

using System.Linq; using System.Web; using System.Web.UI;

using System.Web.UI.WebControls; using MySql.Data.MySqlClient;

namespace FinalPract4

{

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

{

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

{

if (!IsPostBack)

{

BindCustomers(); BindProducts();

}

}

protected void rptProducts\_ItemCommand(object source, RepeaterCommandEventArgs e)

{

}

protected void ddlCountries\_SelectedIndexChanged(object sender, EventArgs e)

{

BindCustomers();

}

protected void ddlCategories\_SelectedIndexChanged(object sender, EventArgs e)

{

BindProducts();

}

private void BindCustomers()

{

string constr = ConfigurationManager.ConnectionStrings["MySqlConnection"].ConnectionString;

using (MySqlConnection con = new MySqlConnection(constr))

{

using (MySqlCommand cmd = new MySqlCommand("SELECT \* FROM Customers" + (ddlCountries.SelectedValue != "" ? " WHERE Country=@Country" : ""), con))

{

if (ddlCountries.SelectedValue != "") cmd.Parameters.AddWithValue("@Country", ddlCountries.SelectedValue);

using (MySqlDataAdapter sda = new MySqlDataAdapter(cmd))

{

DataTable dt = new DataTable(); sda.Fill(dt); gvCustomers.DataSource = dt; gvCustomers.DataBind();

}

}

}

}

private void BindProducts()

{

string constr = ConfigurationManager.ConnectionStrings["MySqlConnection"].ConnectionString;

using (MySqlConnection con = new MySqlConnection(constr))

{

using (MySqlCommand cmd = new MySqlCommand("SELECT \* FROM Products"

+ (ddlCategories.SelectedValue != "" ? " WHERE Category=@Category" : ""), con))

{

if (ddlCategories.SelectedValue != "") cmd.Parameters.AddWithValue("@Category", ddlCategories.SelectedValue);

using (MySqlDataAdapter sda = new MySqlDataAdapter(cmd))

{

DataTable dt = new DataTable(); sda.Fill(dt); rptProducts.DataSource = dt; rptProducts.DataBind();

}

}

}

}

protected void gvCustomers\_SelectedIndexChanged(object sender, EventArgs e)

{

}

}

}

### Output:

