

Guideline for ASP.NET Professional Project

Lecture_05_(Database_Update_Delete)

Created by

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Lecturer

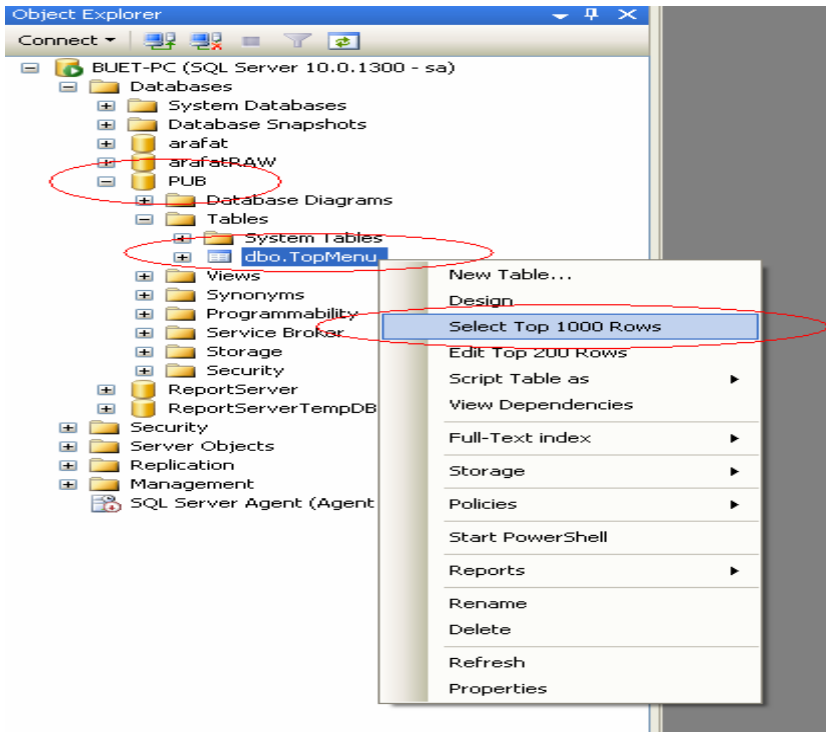
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1. Open Microsoft SQL Server Management Studio
2. View data from the TopMenu table of PUB database



You will get this-

```

/***** Script for SelectTopNRows command from S:
SELECT TOP 1000 [MenuItemID]
      ,[MenuItemName]
      ,[MenuItemURL]
      ,[MenuItemSelected]
FROM [PUB] . [dbo] . [TopMenu]

```

Results

	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected
1	1	Home	#	1
2	2	News & Events	#	1
3	3	Academic Calendar	#	0
4	4	Grading System	#	0
5	5	Admission Form	#	0
6	6	Photo Gallery	#	0
7	7	Job Opportunities	#	0

3. Change DefaultAdmin.aspx as follows-

```

<%@ Page Language="C#" MasterPageFile="~/MasterPages/Site.master" AutoEventWireup="true"
      CodeFile="DefaultAdmin.aspx.cs" Inherits="Pages_Admin_DefaultAdmin" Title="Untitled
Page" %>

```

```

<asp:Content ID="Content1" ContentPlaceHolderID="cphContent" runat="Server">

```

```

<asp:UpdatePanel ID="uplgvTopMenu" runat="server">
    <ContentTemplate>
        <asp:UpdateProgress ID="uprgvTopMenu" runat="server">
            <ProgressTemplate>
                
            </ProgressTemplate>
        </asp:UpdateProgress>
        <asp:GridView ID="gvTopMenu" runat="server" align="left"
AutoGenerateDeleteButton="true"
        AutoGenerateEditButton="true" OnRowDeleting="gvTopMenu_RowDeleting"
OnRowEditing="gvTopMenu_RowEditing"
        OnRowCancelingEdit="gvTopMenu_RowCancelingEdit"
OnRowUpdating="gvTopMenu_RowUpdating">
            </asp:GridView>
        </ContentTemplate>
        <Triggers>
            <asp:AsyncPostBackTrigger ControlID="ddlgvTopMenuUpdate"
EventName="SelectedIndexChanged" />
        </Triggers>
    </asp:UpdatePanel>
    <asp:DropDownList ID="ddlgvTopMenuUpdate" runat="server" AutoPostBack="True"
OnSelectedIndexChanged="ddlgvTopMenuUpdate_SelectedIndexChanged">
        <asp:ListItem Selected="True" Value="All">
            All Menu Items
        </asp:ListItem>
        <asp:ListItem Value="True">
            Menu Items Selected
        </asp:ListItem>
        <asp:ListItem Value="False">
            Menu Items Not Selected
        </asp:ListItem>
    </asp:DropDownList>
    <asp:Label ID="Label1" runat="server"></asp:Label>
</asp:Content>

```

4. Change DefaultAdmin.aspx.cs as follows-

```

using System;
using System.Collections;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;

using System.Data.SqlClient;

public partial class Pages_Admin_DefaultAdmin : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
        {
            bindData();
        }
    }
}

```

```

protected void ddlgvTopMenuUpdate_SelectedIndexChanged(object sender, EventArgs e)
{
    bindData();
}

protected void gvTopMenu_RowEditing(object sender, GridViewEditEventArgs e)
{
    gvTopMenu.EditIndex = e.NewEditIndex;
    bindData();
    GridViewRow row = gvTopMenu.Rows[e.NewEditIndex];
    ((TextBox)(row.Cells[1].Controls[0])).Enabled = false;
}
protected void gvTopMenu_RowCancelingEdit(object sender, GridViewCancelEditEventArgs
e)
{
    gvTopMenu.EditIndex = -1;
    bindData();
}
protected void gvTopMenu_RowUpdating(object sender, GridViewUpdateEventArgs e)
{
    GridViewRow row = gvTopMenu.Rows[e.RowIndex];

    int MenuItemID = Int32.Parse(((TextBox)(row.Cells[1].Controls[0])).Text);
    string MenuItemName = ((TextBox)(row.Cells[2].Controls[0])).Text;
    string MenuItemURL = ((TextBox)(row.Cells[3].Controls[0])).Text;
    bool MenuItemSelected = ((CheckBox)(row.Cells[4].Controls[0])).Checked;

    gvTopMenu.DataSource = Common.SQLServerConnection(MenuItemID, MenuItemName,
MenuItemURL, MenuItemSelected);

    gvTopMenu.EditIndex = -1;
    bindData();
}
protected void gvTopMenu_RowDeleting(object sender, GridViewDeleteEventArgs e)
{
    GridViewRow row = gvTopMenu.Rows[e.RowIndex];
    int MenuItemID = Int32.Parse(row.Cells[1].Text);
    gvTopMenu.DataSource = Common.SQLServerConnection(MenuItemID);
    bindData();
}
protected void bindData()
{
    if (ddlgvTopMenuUpdate.SelectedItem.Value == "All")
    {
        gvTopMenu.DataSource = Common.SQLServerConnection("dbo.get_all_menu_items");
        gvTopMenu.DataBind();
        System.Threading.Thread.Sleep(3000);
    }
    else if (ddlgvTopMenuUpdate.SelectedItem.Value == "True")
    {
        gvTopMenu.DataSource =
Common.SQLServerConnection("dbo.get_selected_menu_items");
        gvTopMenu.DataBind();
        System.Threading.Thread.Sleep(3000);
    }
    else if (ddlgvTopMenuUpdate.SelectedItem.Value == "False")
    {
        gvTopMenu.DataSource =
Common.SQLServerConnection("dbo.get_not_selected_menu_items");
        gvTopMenu.DataBind();
        System.Threading.Thread.Sleep(3000);
    }
}

```

```
}  
}
```

5. Notice that ere in this [DefaultAdmin.aspx.cs](#) file the following namespaces have been added at the top of the file-

```
using System.Data.SqlClient;
```

6. Change the Common.cs file according to the following code-

```
using System;  
using System.Data;  
using System.Configuration;  
using System.Linq;  
using System.Web;  
using System.Web.Security;  
using System.Web.UI;  
using System.Web.UI.HtmlControls;  
using System.Web.UI.WebControls;  
using System.Web.UI.WebControls.WebParts;  
using System.Xml.Linq;  
using System.Web.Configuration;  
using System.Data.SqlClient;  
using System.Collections;  
  
/// <summary>  
/// Summary description for Common  
/// </summary>  
public class Common : System.Web.UI.UserControl  
{  
    public Common()  
    {  
        //  
        // TODO: Add constructor logic here  
        //  
    }  
  
    /// <summary>  
    /// Gets Data from TopMenu Table the DataSource according to the Stored Procedure  
    /// dbo.get_all_menu_items, dbo.get_selected_menu_items, dbo.get_not_selected_menu_items  
    /// </summary>  
    public static DataSet SQLServerConnection(string storedProcedure)  
    {  
        string connectionString =  
WebConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;  
        SqlConnection conn = new SqlConnection(connectionString);  
        SqlCommand cmd = new SqlCommand(storedProcedure, conn);  
        SqlDataAdapter adapter = new SqlDataAdapter(cmd);  
        DataSet ds = new DataSet();  
        adapter.Fill(ds);  
        return ds;  
    }  
  
    /// <summary>  
    /// UPDATESs TopMenu Table according to the Parameter  
    /// </summary>  
    public static DataSet SQLServerConnection(int MenuItemID, string MenuItemName, string  
MenuItemURL, bool MenuItemSelected)  
    {  
        string connectionString =  
WebConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
```

```

        SqlConnection conn = new SqlConnection(connectionString);
        SqlCommand cmd = new SqlCommand("UPDATE TopMenu SET MenuItemName='" +
MenuItemName +
                                                    "' , MenuItemURL='" +
MenuItemURL +
                                                    "' , MenuItemSelected='" +
MenuItemSelected + "'" +
                                                    " WHERE MenuItemID=" + MenuItemID + "'",
conn);

        SqlDataAdapter adapter = new SqlDataAdapter(cmd);
        DataSet ds = new DataSet();
        adapter.Fill(ds);
        return ds;
    }
    /// <summary>
    /// DELETES TopMenu Table according to the MenuItemID
    /// </summary>
    public static DataSet SQLServerConnection(int MenuItemID)
    {
        string connectionString =
WebConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
        SqlConnection conn = new SqlConnection(connectionString);
        SqlCommand cmd = new SqlCommand("DELETE FROM TopMenu WHERE MenuItemID=" +
MenuItemID, conn);
        SqlDataAdapter adapter = new SqlDataAdapter(cmd);
        DataSet ds = new DataSet();
        adapter.Fill(ds);
        return ds;
    }
}

```

7. Now run the application and browse to [DefaultAdmin.aspx](#). You should get this-

	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Calendar	#	<input type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

8. Now we want to edit the data of the 3rd row-


Home	News & Events				
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Calendar	#	<input type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

9. The row will be changed as follows-

Home		News & Events			
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Update Cancel	3	Academic Calendar	#	<input type="checkbox"/>	
Edit Delete	4	Grading System	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

10. Notice that all the fields are editable. But we explicitly disabled the MenuItemID field as expected.

11. Change 'Academic Calendar' to 'Academic Informations' and click the checkbox of MenuItemSelected-

HomeNews & Events					
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items 
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Update Cancel	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading System	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

12. Now click Update. You should get this-

HomeNews & Events

	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

13. We have successfully updated the database. Go back to Microsoft SQL Server Management Studio and observe the data like step 2-

Object Explorer

Connect

BUET-PC (SQL Server 10.0.1300 - sa)

- Databases
 - System Databases
 - Database Snapshots
 - arafat
 - arafatRAW
 - PUB
 - Database Diagrams
 - Tables
 - System Tables
 - dbo.TopMenu
 - Views
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - ReportServer
 - ReportServerTempDB
- Security
- Server Objects
- Replication
- Management
- SQL Server Agent (Agent XPs disabled)

BUET-PC.PUB - SQLQuery11.sql


```

/***** Script for SelectTopNRows command from SSM
SELECT TOP 1000 [MenuItemID]
      , [MenuItemName]
      , [MenuItemURL]
      , [MenuItemSelected]
FROM [PUB] . [dbo] . [TopMenu]
  
```

Results

	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected
1	1	Home	#	1
2	2	News & Events	#	1
3	3	Academic Informations	#	1
4	4	Grading System	#	0
5	5	Admission Form	#	0
6	6	Photo Gallery	#	0
7	7	Job Opportunities	#	0

14. Refresh the page and observe the TopMenu-



Home News & Events Academic Informations

	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	Menu Items Selected
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

15. Now we want to delete a row from the TopMenu table.

16. Let us delete the 'Photo Gallery'-

HomeNews & EventsAcademic Informations					Menu Items Selected
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	6	Photo Gallery	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

17. Observe that Photo Gallery has been removed from our table-

HomeNews & EventsAcademic Informations					All Menu Items
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

18. Now watch the TopMenu table. Photo Gallery is not there-

Results Messages				
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected
1	1	Home	#	1
2	2	News & Events	#	1
3	3	Academic Informations	#	1
4	4	Grading Syatem	#	0
5	5	Admission Form	#	0
6	7	Job Opportunities	#	0

19. Lets delete Job Opportunities too-

HomeNews & EventsAcademic Informations					All Menu Items
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	
Edit Delete	7	Job Opportunities	#	<input type="checkbox"/>	

HomeNews & EventsAcademic Informations					
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	
Edit Delete	5	Admission Form	#	<input type="checkbox"/>	

20. Delete Admission form too-

HomeNews & EventsAcademic Informations					
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected	All Menu Items
Edit Delete	1	Home	#	<input checked="" type="checkbox"/>	
Edit Delete	2	News & Events	#	<input checked="" type="checkbox"/>	
Edit Delete	3	Academic Informations	#	<input checked="" type="checkbox"/>	
Edit Delete	4	Grading Syatem	#	<input type="checkbox"/>	

21. Funny, isn't it????

22. We have built a nice admin section to control the TopMenu of our site.

Hope You Will Enjoy This