

# **Guideline for ASP.NET Professional Project**

**Lecture\_02 (User Controls and Database - SQL Server 2008)**

**Created by**

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**Lecturer**

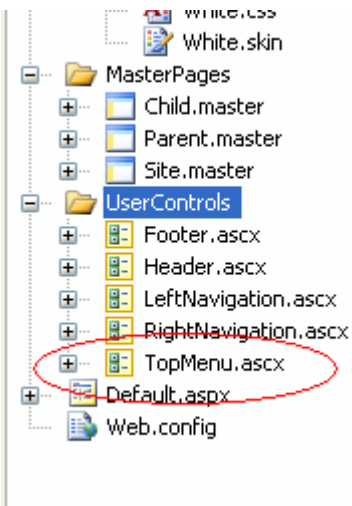
**Department of**

**Electronics and Telecommunication Engineering**

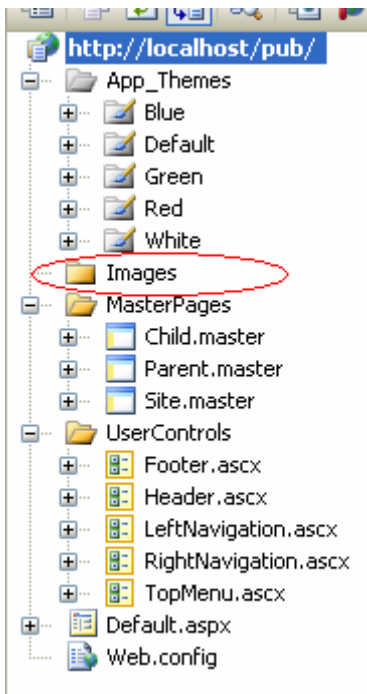
**The People's University of Bangladesh**

**Sunday, August 15, 2010**

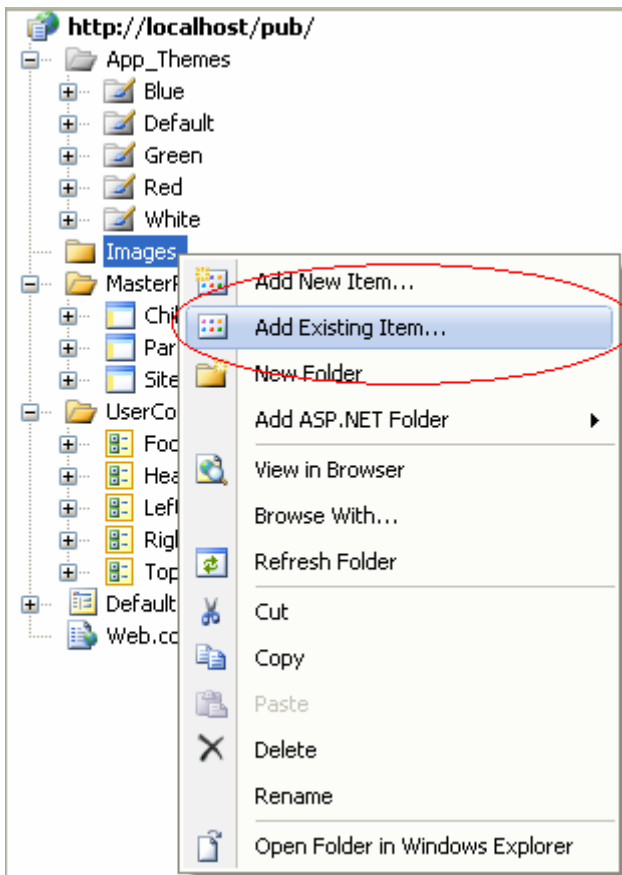
1. Add New web user control TopMenu.ascx inside UserControl folder



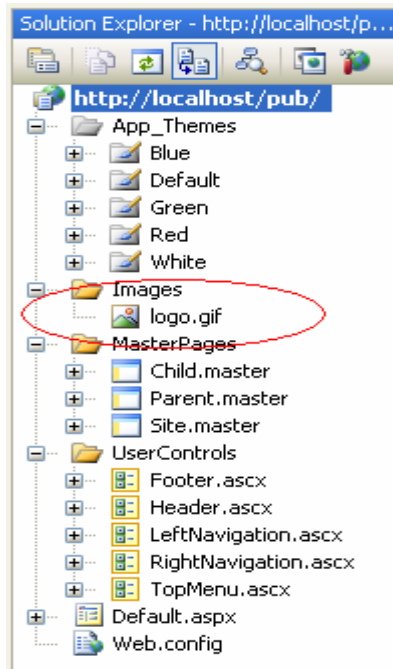
2. Add a New folder named 'Images'



3. Now, I have an image named logo.gif in my PC. This image is the logo of my site. I will add this image file to this Images folder.
4. Click Add Existing Item and browse for the image.



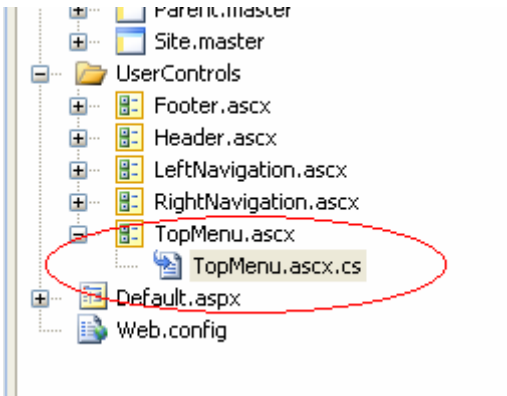
5. You should get this-



6. Change TopMenu.ascx and write the following code-

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="TopMenu.ascx.cs"
Inherits="UserControls_Menu" %>
<asp:Label ID="lblTopMenu" runat="server">
    $TopMenuItems$
</asp:Label>
```

7. Open TopMenu.ascx.cs and write the following code in “Page\_Load” event-



```
protected void Page_Load(object sender, EventArgs e)
{
    string strMenuItem = "<table border=\"1\" cellpadding=\"0\" cellspacing=\"0\" align=\"left\"><tr>";
    strMenuItem += "<td><a href=\"\" + \"#\" + \"\" class=\"lnkTopMenuItem\">\" + \"Home\" + \"</a></td>\"";
    strMenuItem += "<td><a href=\"\" + \"#\" + \"\" class=\"lnkTopMenuItem\">\" + \"News & Events\" + \"</a></td>\"";
    strMenuItem += "</tr></table>\"";
    lblTopMenu.Text = lblTopMenu.Text.Replace("$TopMenuItems$", strMenuItem);
}
```

8. Open Header.ascx and write the following code-

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="Header.ascx.cs" Inherits="UserControls_Header" %>
<%@ Register Src="~/UserControls/TopMenu.ascx" TagName="TopMenu" TagPrefix="uc" %>
<table border="1" cellpadding="0" cellspacing="0" width="100%">
    <tr>
        <td>
            <table border="1" cellpadding="0" cellspacing="0" width="100%">
                <tr>
                    <td>
                        <a href="#">
                            <asp:Image ID="imgLogo" runat="server" AlternateText="
CssClass="imgLogo" /></a>
                        </td>
                        <td width="100%">
                        </td>
                    </tr>
                </table>
            </td>
        </tr>
        <tr>
            <td>
                <uc:TopMenu ID="TopMenu1" runat="server" />
            </td>
        </tr>
    </table>
```

9. Open Header.ascx.cs and write the following code-

```
protected void Page_Load(object sender, EventArgs e)
{
```

```

imgLogo.ImageUrl = "~/Images/logo.gif";
imgLogo.AlternateText = "Logo";
}

```

## 10. Add the following classes to Default.css

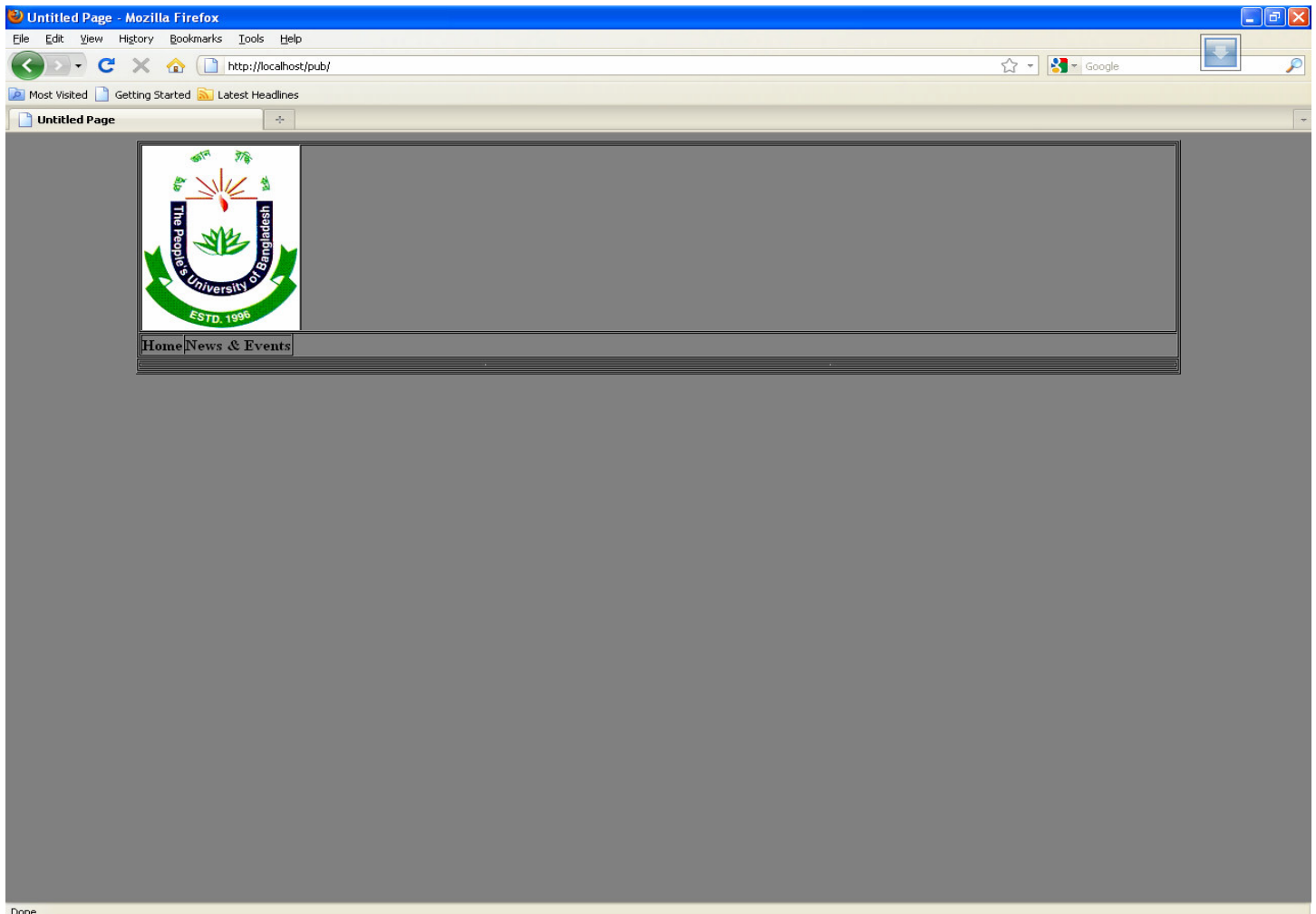
```

/* Logo asp:image */
.imgLogo
{
    height: 200px;
    width: 154px;
    background-color: White;
}

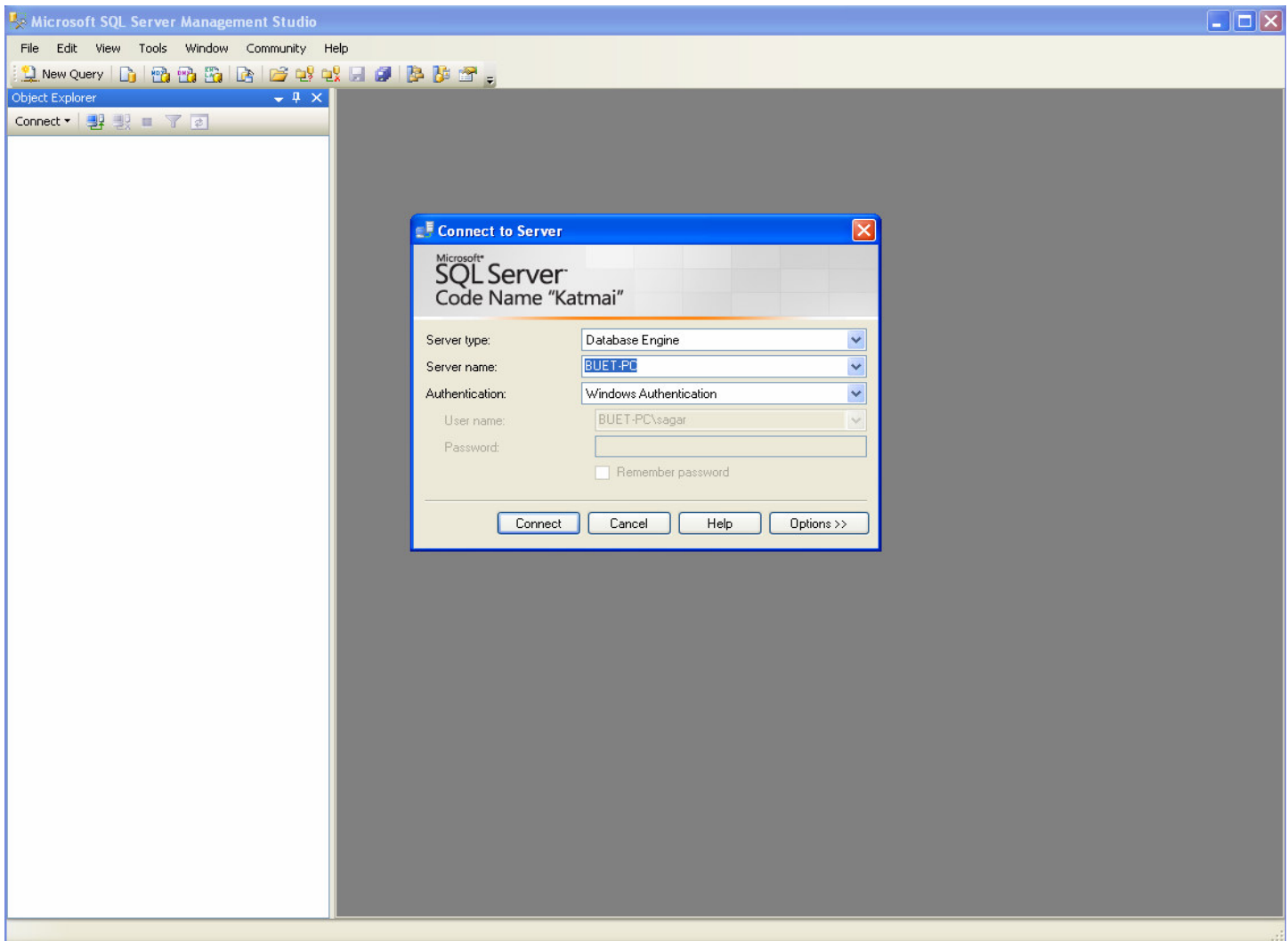
/* Top Menu Item a */
.lnkTopMenuItem, .lnkTopMenuItem:active, .lnkTopMenuItem:visited, .lnkTopMenuItem:hover
{
    text-decoration: none;
    color: Black;
    font-weight: bold;
}
.lnkTopMenuItem:hover
{
    color: White;
}

```

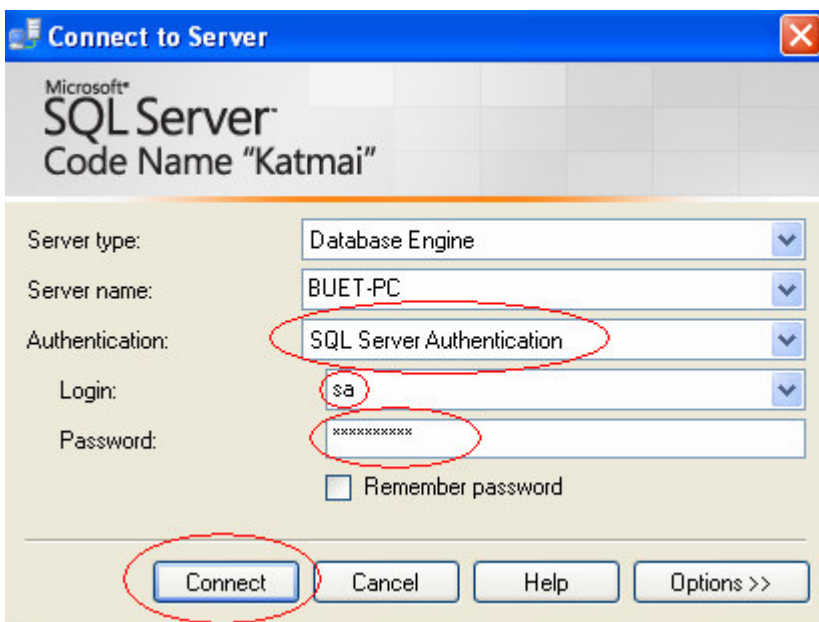
## 11. Press F5 and you will get the following site layout in browser-



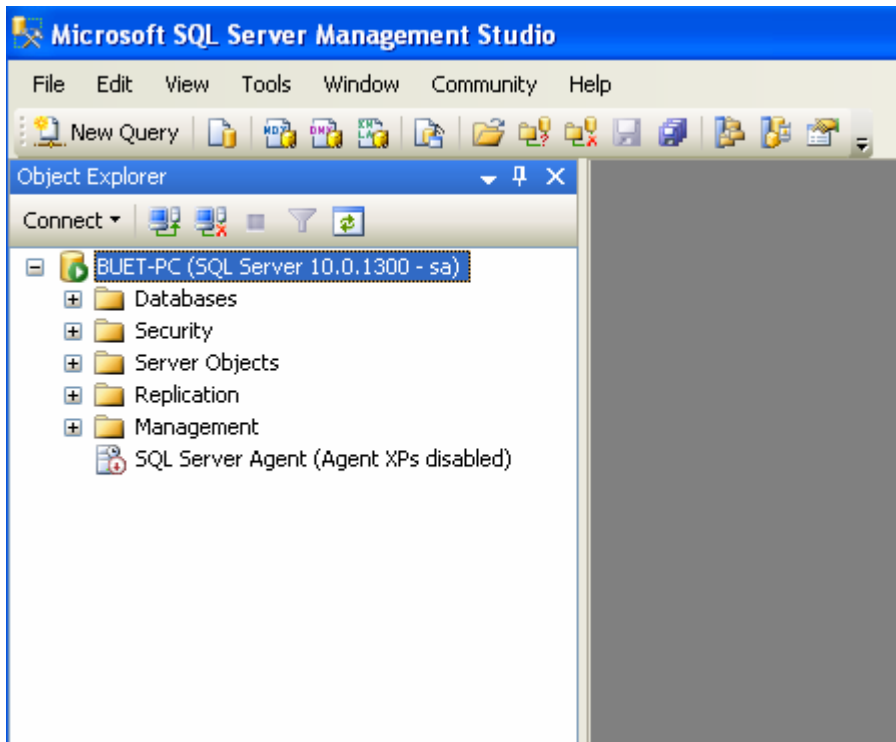
12. Now open the SQL Server Management Studio. The following window should come-



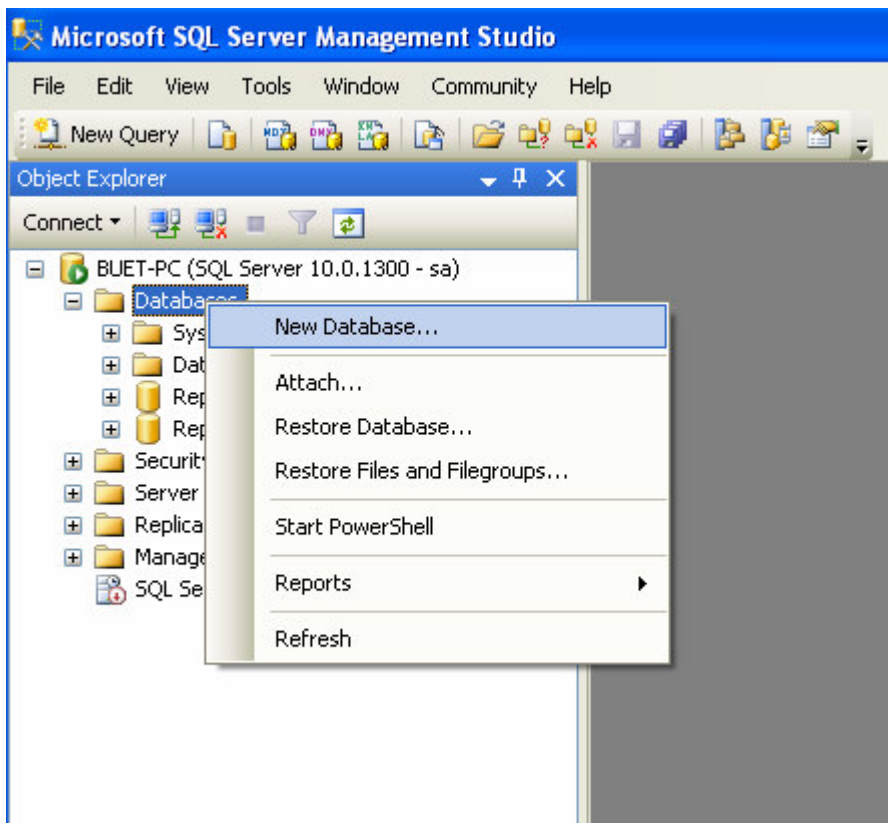
13. Select SQL Server Authentication. Enter Login Name and Password and click connect. You have entered this Password at the stage of Database Engine Configuration setup of SQL Server 2008 setup.



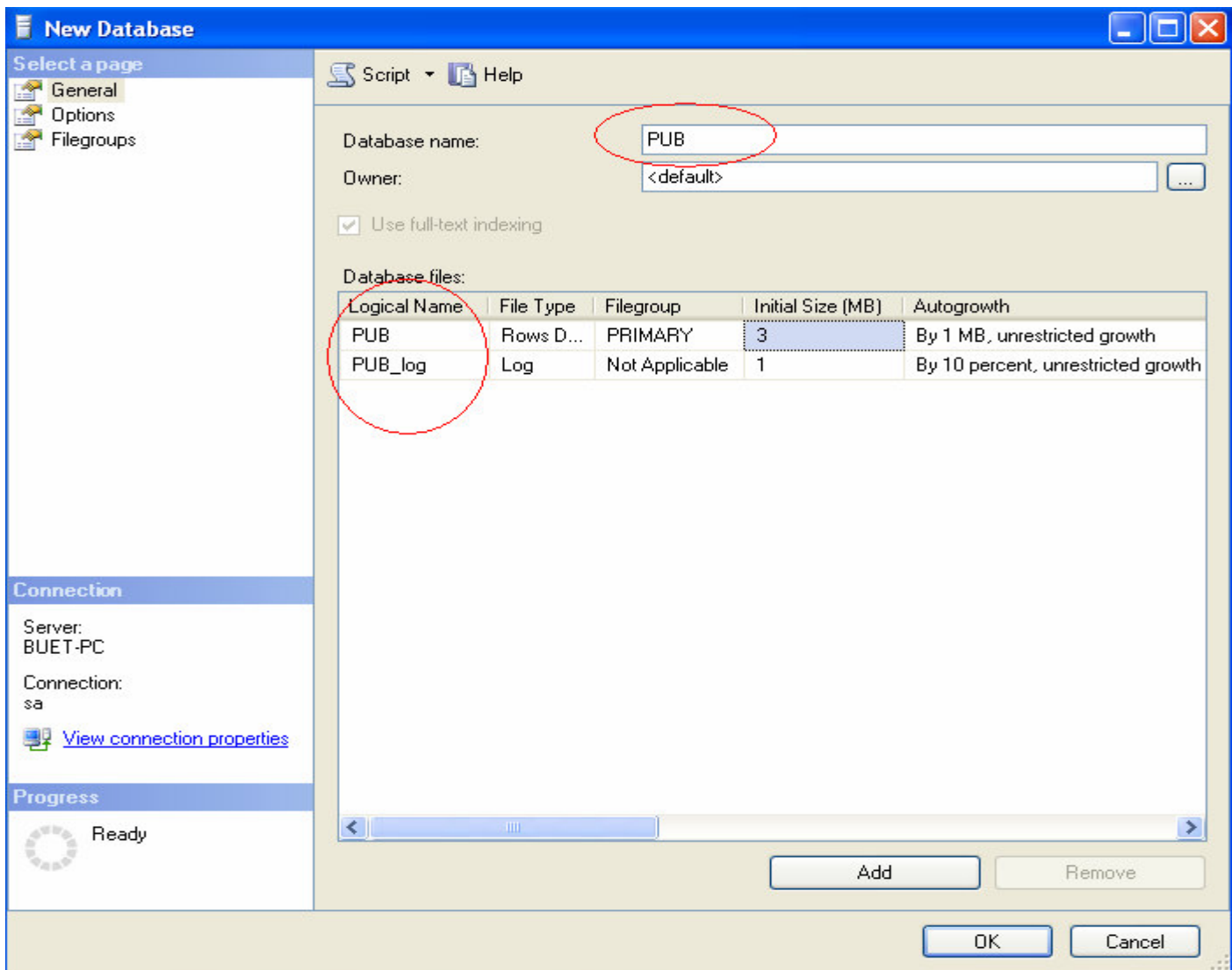
14. After successful connection you will get this



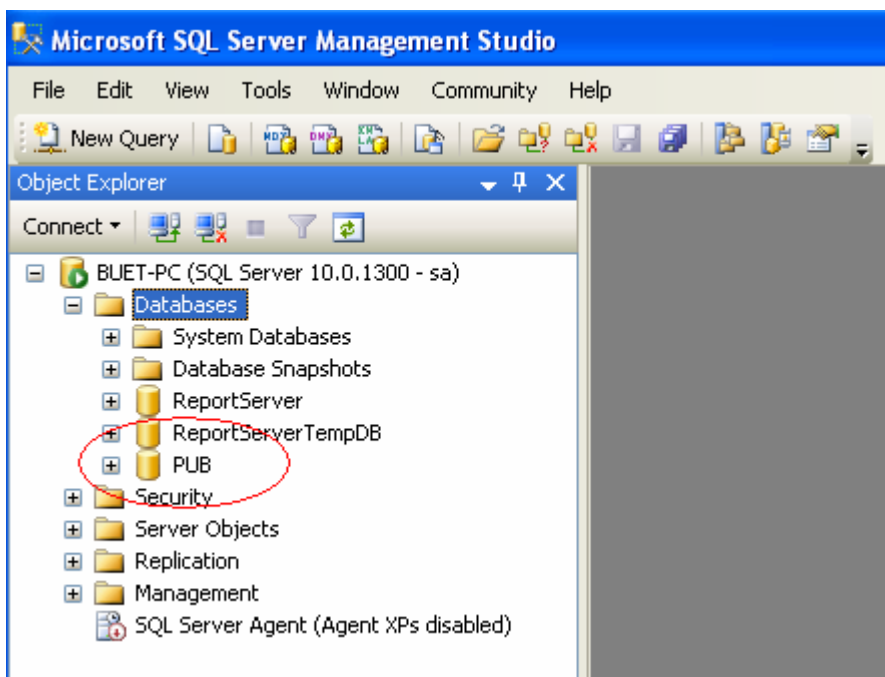
15. Create New Database



16. Enter Database Name 'PUB'. Click OK.

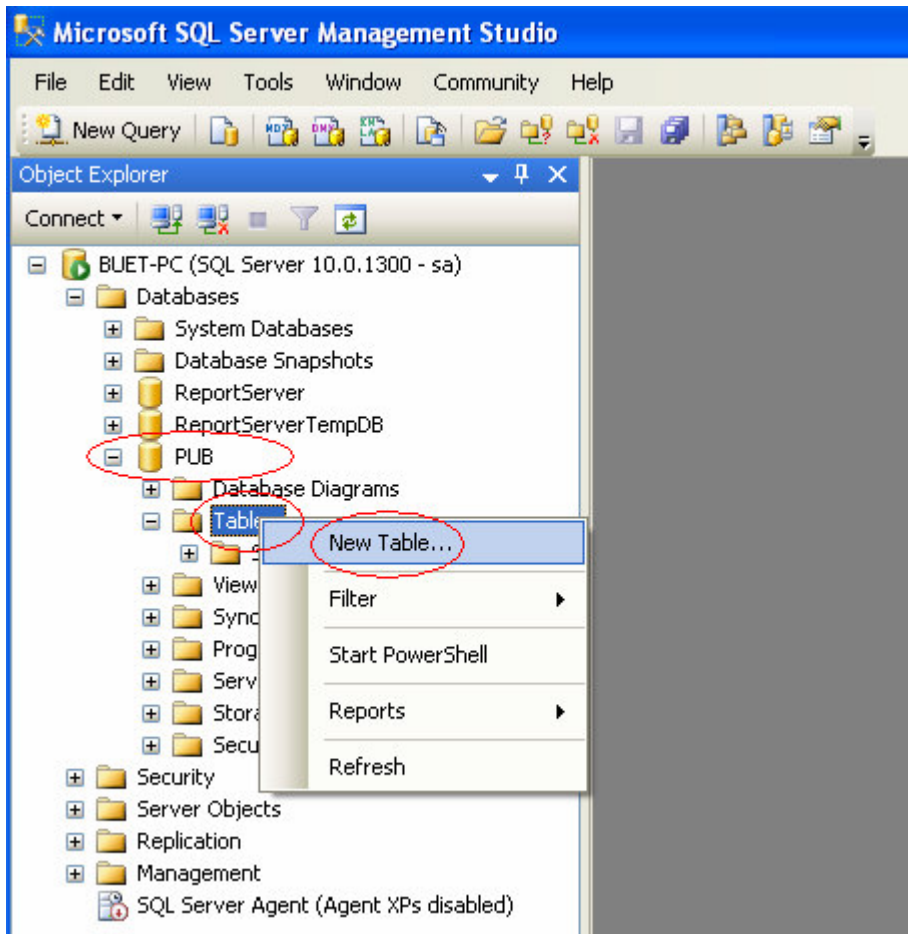


17. PUB should appear as follows

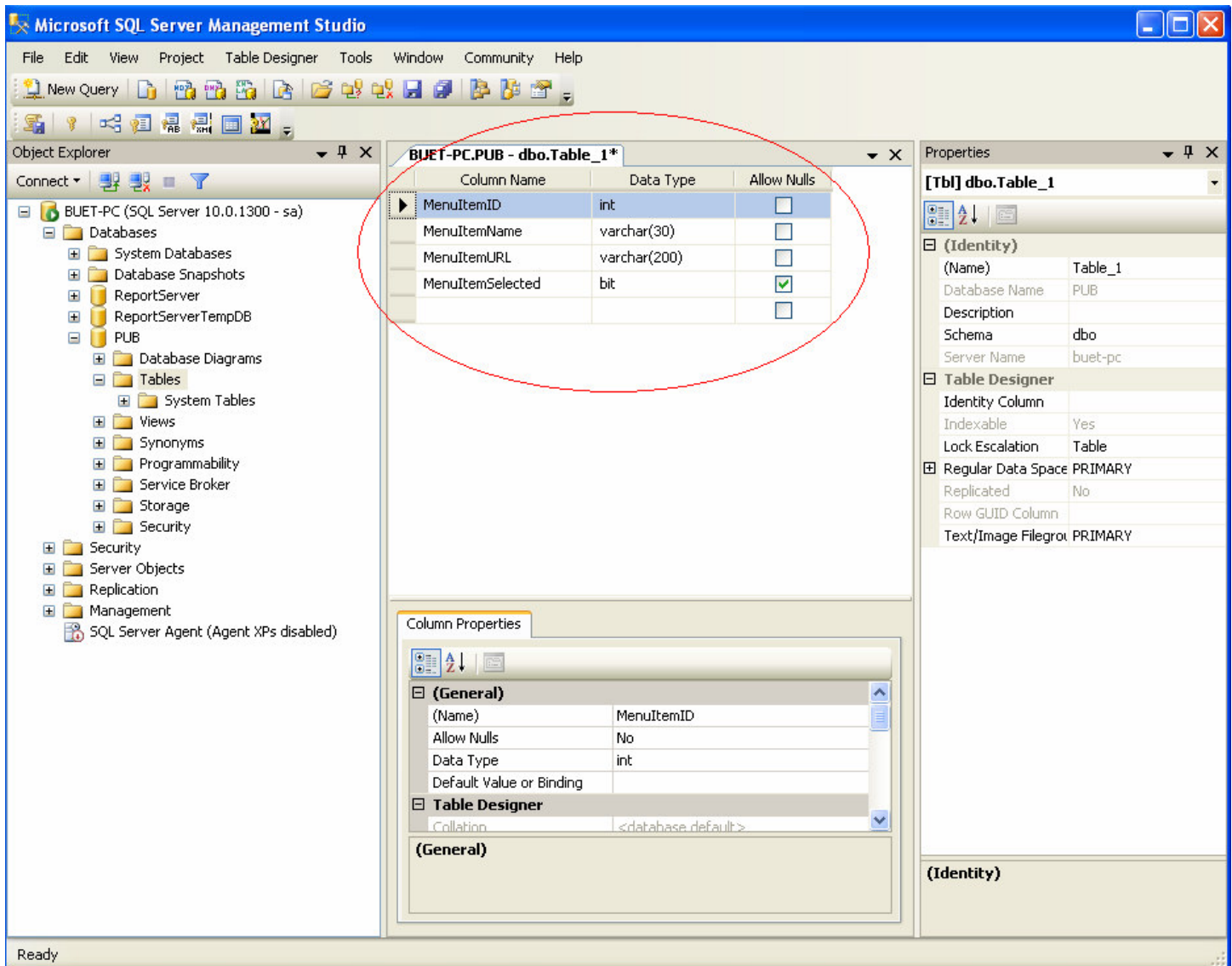




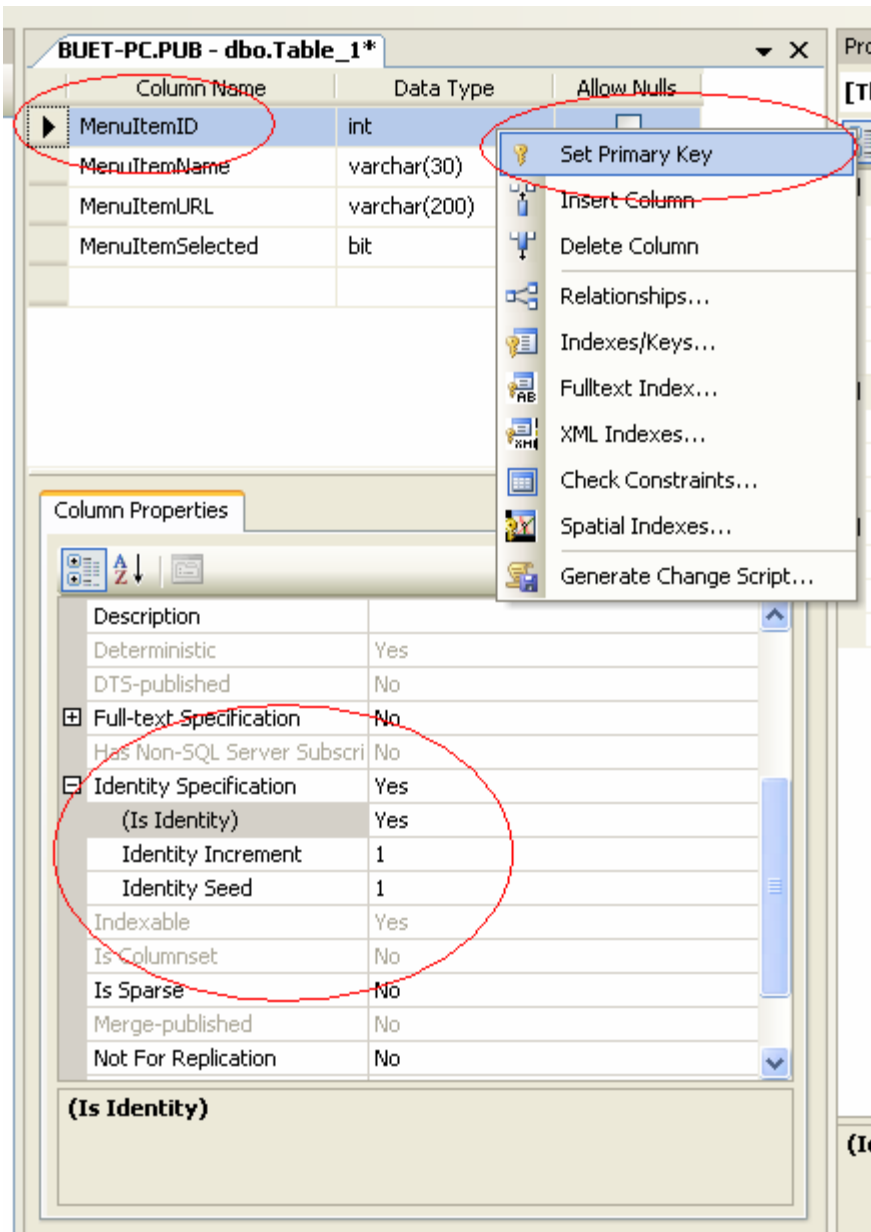
## 18. Create Table in PUB Database



19. The following window should appear. Enter Column Name (s) for our first table. This is the table of TopMenu.ascx items.



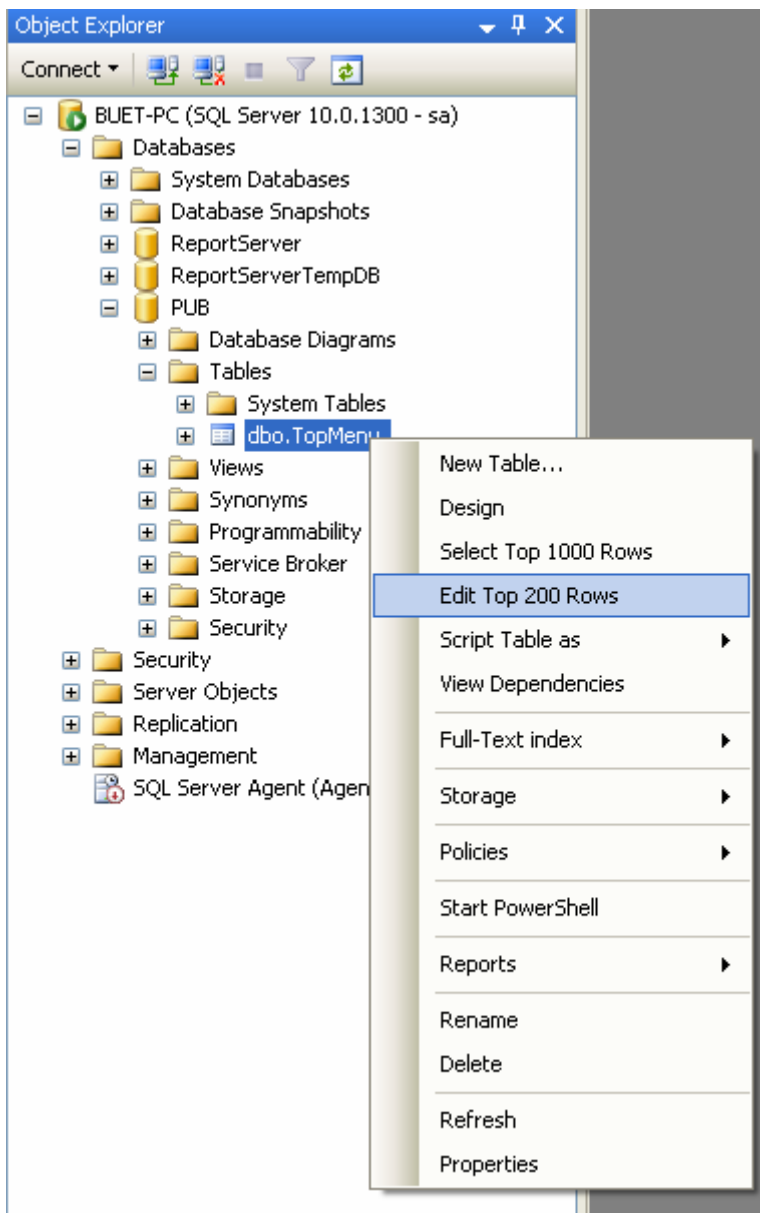
20. Set MenuItemID as Primary Key and Identity column as follows-



21. Save the table and name it TopMenu



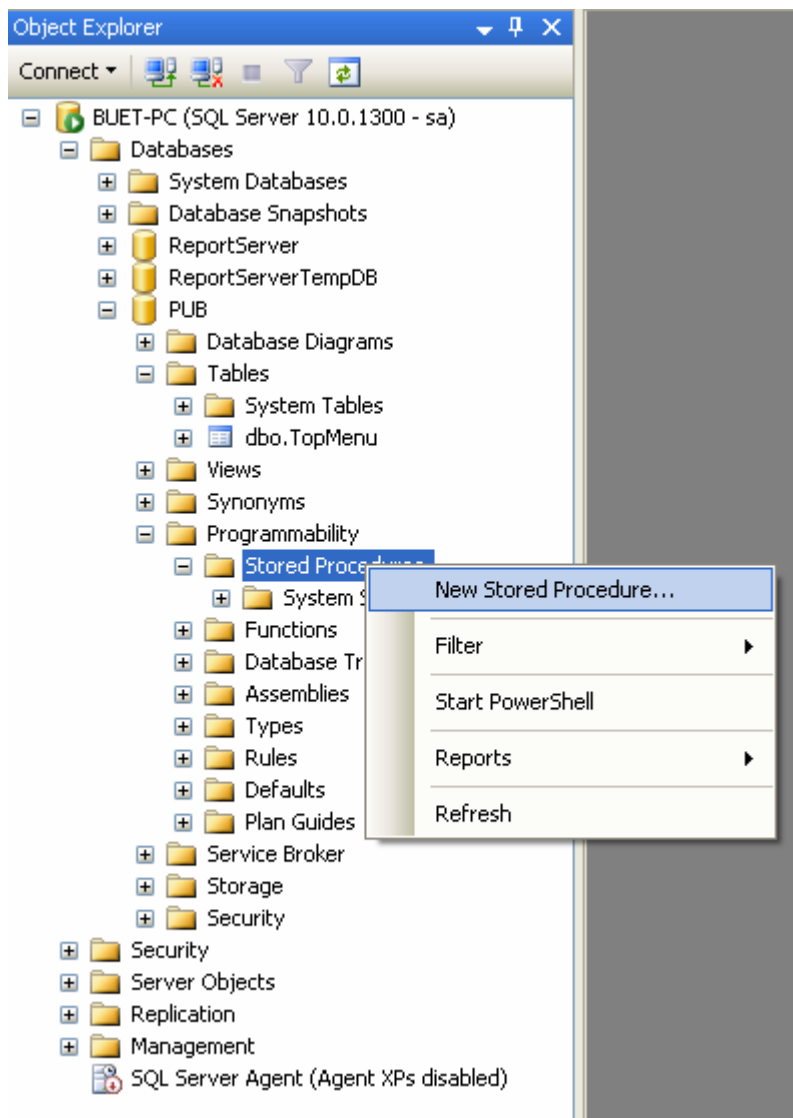
22. You will get the table dbo.TopMenu. Now select Edit Top 200 Rows-



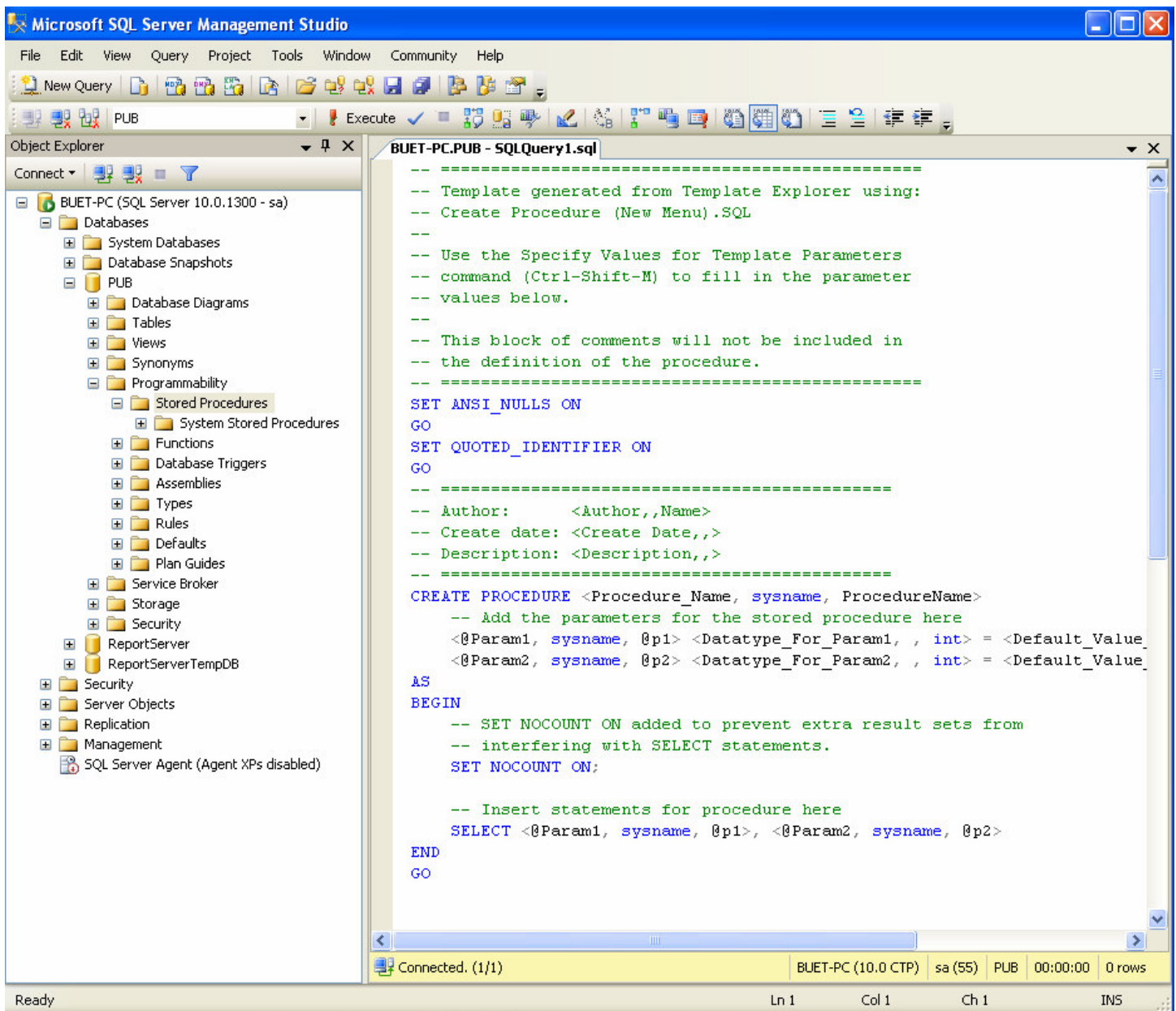
23. Enter the following data-

BUET-PC.PUB - dbo.TopMenu				
	MenuItemID	MenuItemName	MenuItemURL	MenuItemSelected
	1	Home	#	True
	2	News & Events	#	True
	3	Academic Calendar	#	True
	4	Grading Syatem	#	False
	5	Admission Form	#	False
	6	Photo Gallery	#	True
	7	Job Opportunities	#	False
▶*	NULL	NULL	NULL	NULL

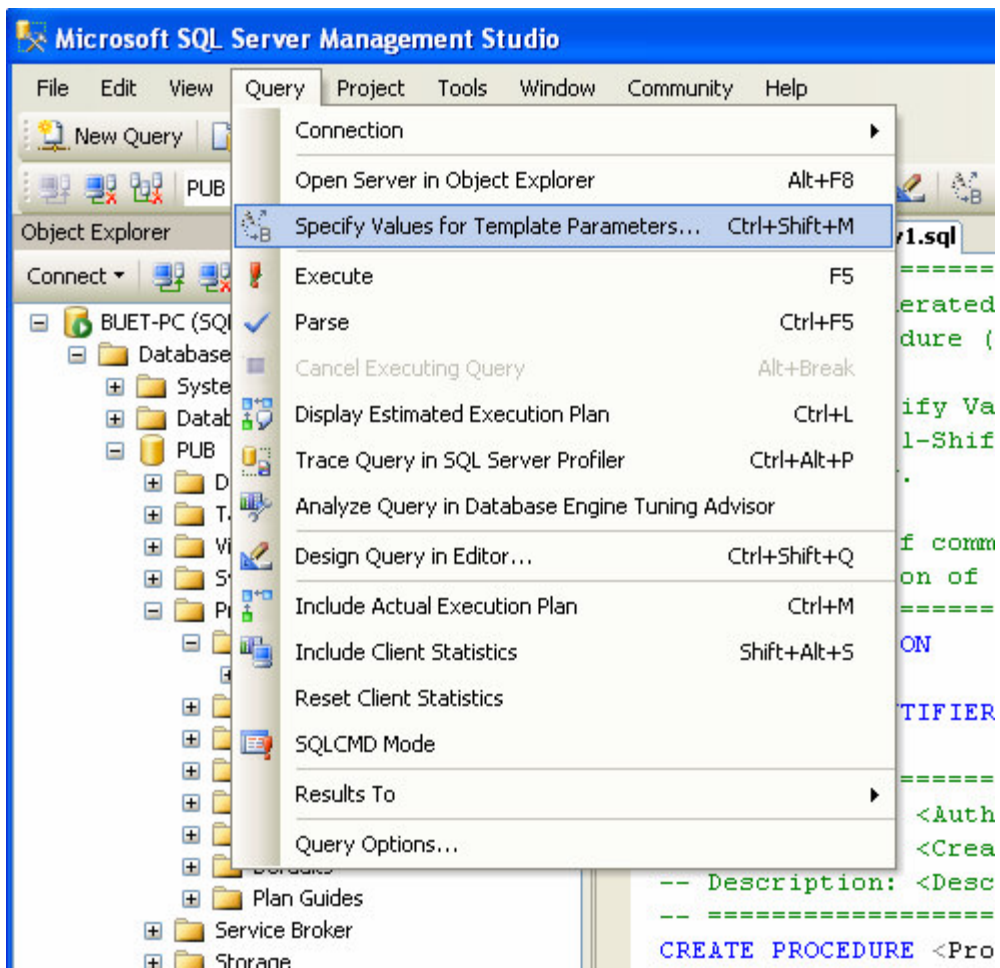
24. Create New Stored Procedure



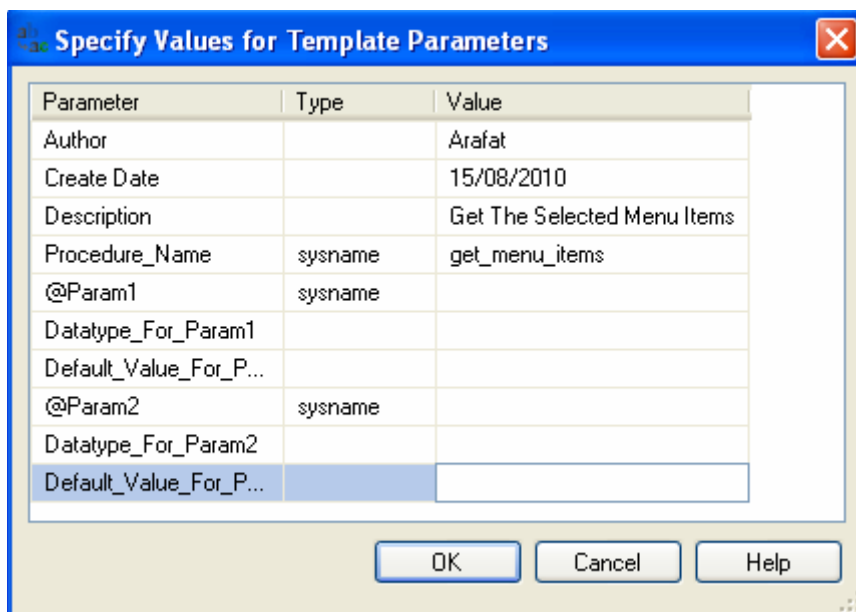
25. This will appear



26. On the Query menu select Specify Values for Template Parameters...

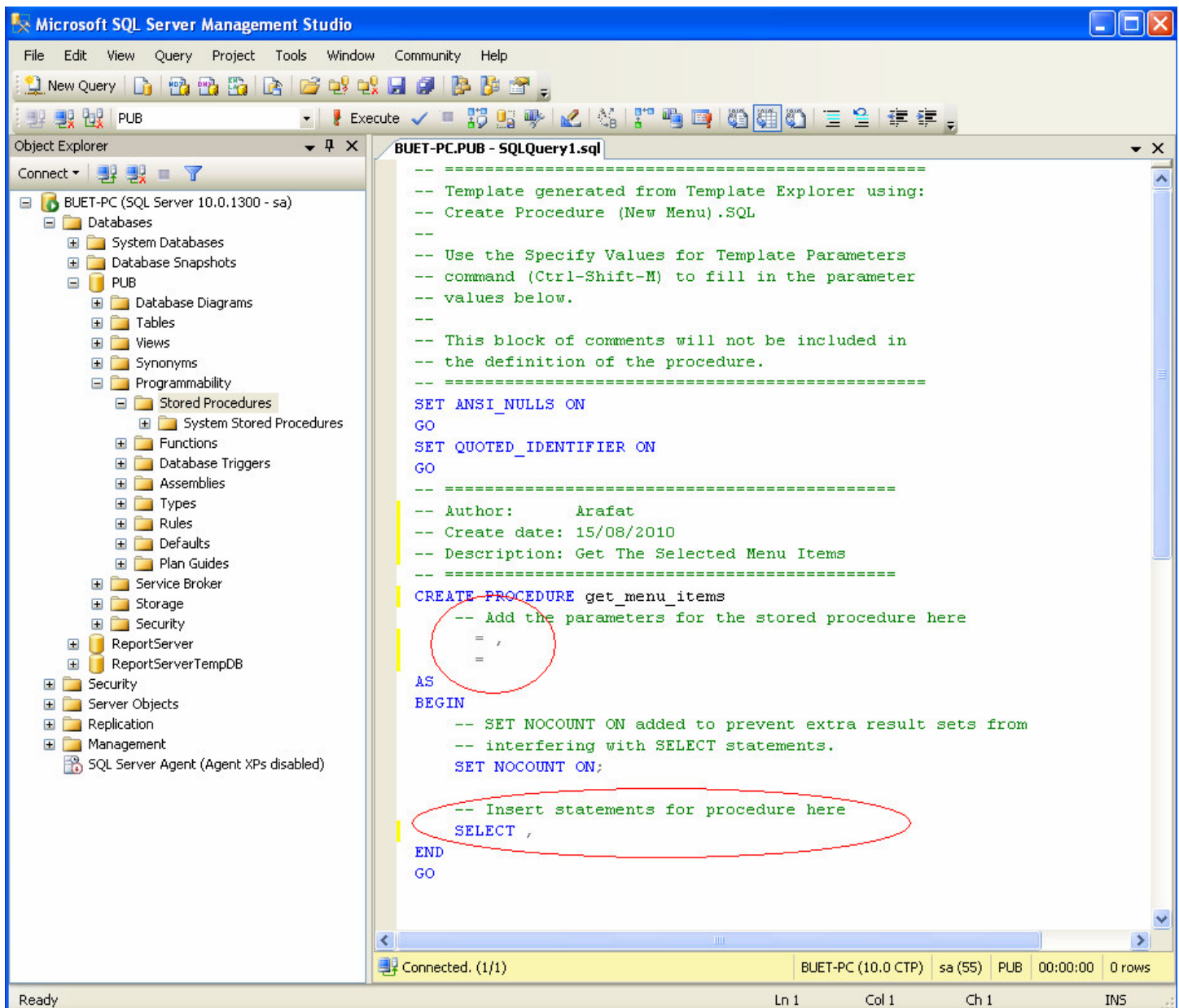


27. Enter the following items



28. Click OK. This will appear-





29. Replace

`SELECT ,`  
with the following SQL command-  
`SELECT * FROM TopMenu;`

30. Delete

`= ,`  
`=`

in the code segment-

```
CREATE PROCEDURE get_menu_items
-- Add the parameters for the stored procedure here
= ,
=
AS
```

31. Finally it will look like this-



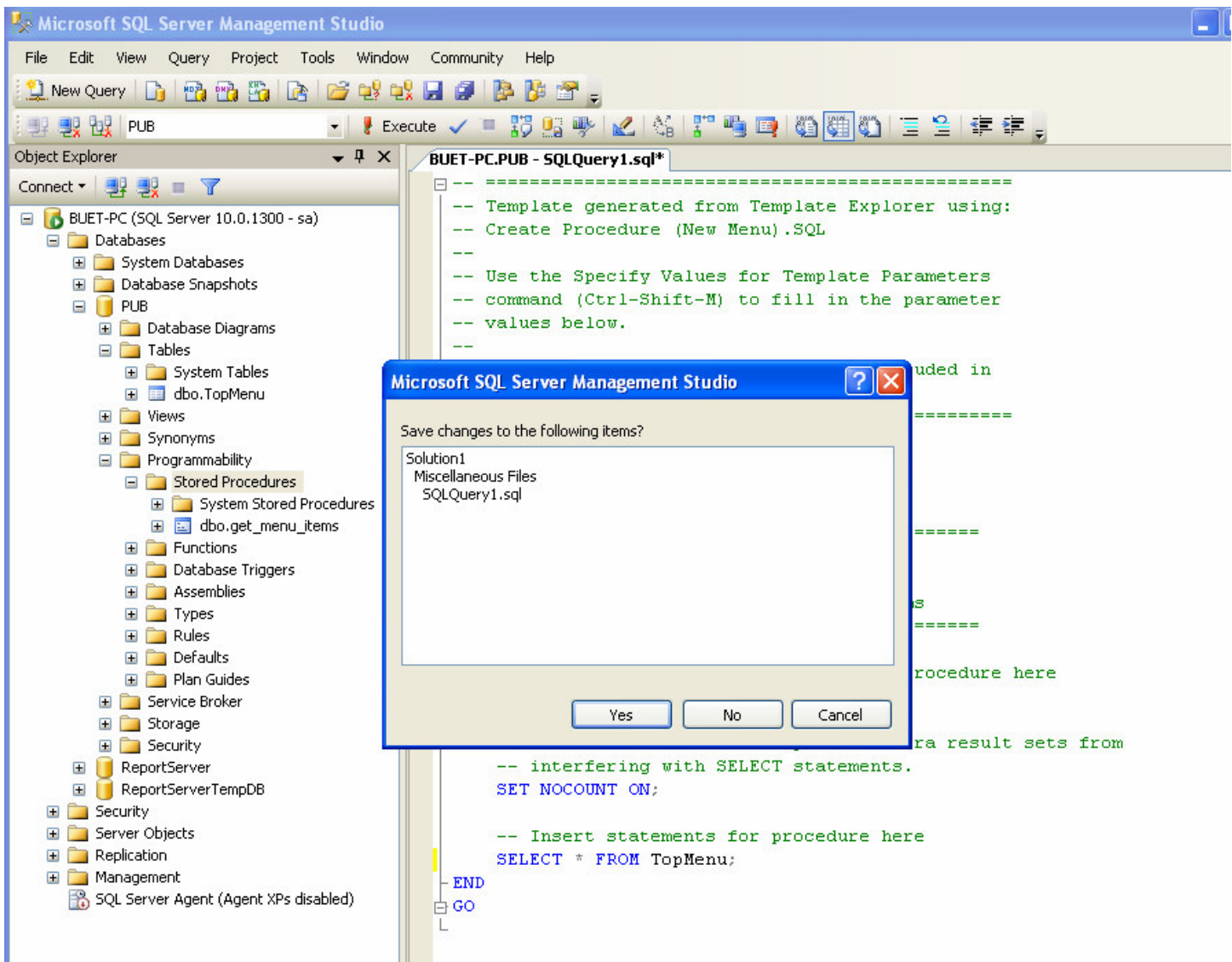
```

-- =====
-- Template generated from Template Explorer using:
-- Create Procedure (New Menu).SQL
--
-- Use the Specify Values for Template Parameters
-- command (Ctrl-Shift-M) to fill in the parameter
-- values below.
--
-- This block of comments will not be included in
-- the definition of the procedure.
-- =====
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
-- =====
-- Author:      Arafat
-- Create date: 15/08/2010
-- Description: Get The Selected Menu Items
-- =====
CREATE PROCEDURE get_menu_items
    -- Add the parameters for the stored procedure here
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT * FROM TopMenu;
END
GO

```

32. To test the syntax, on the Query menu, click Parse. If an error message is returned, compare the statements with the information above and correct as needed.
33. To create the stored procedure, on the Query menu, click Execute.
34. Close SQL Server Management Studio



35. Click No to terminate.

36. Now go back to Visual Studio 2008 and open Web.config file and replace

```
<connectionStrings/>
```

with

```
<connectionStrings>
  <add name="ConnectionString" connectionString="server=localhost;
database=pub; user id=sa; pwd=sagaradmin"/>
</connectionStrings>
```

37. Change the TopMenu.ascx.cs file like the following code-

```
protected void Page_Load(object sender, EventArgs e)
{
    SqlConnection connection = null;
    SqlDataReader rdr = null;
    String connectionString =
WebConfigurationManager.ConnectionStrings["ConnectionString"].ToString();
    connection = new SqlConnection(connectionString);
    connection.Open();
    SqlCommand cmd = new SqlCommand("dbo.get_menu_items", connection);
```

```

cmd.CommandType = CommandType.StoredProcedure;
rdr = cmd.ExecuteReader();
string strMenuItem = "<table border=\"1\" cellpadding=\"0\" cellspacing=\"0\"
align=\"left\"><tr>";
while (rdr.Read())
{
    strMenuItem += "<td><a href=\"" + rdr["MenuItemURL"].ToString() + "\"
class=\"lnkTopMenuItem\">" + rdr["MenuItemName"].ToString() + "</a></td>";
}
strMenuItem += "</tr></table>";
lblTopMenu.Text = lblTopMenu.Text.Replace("$TopMenuItems$", strMenuItem);

if (connection != null)
{
    connection.Close();
}

if (rdr != null)
{
    rdr.Close();
}
}

```

38. Add these two namespaces-

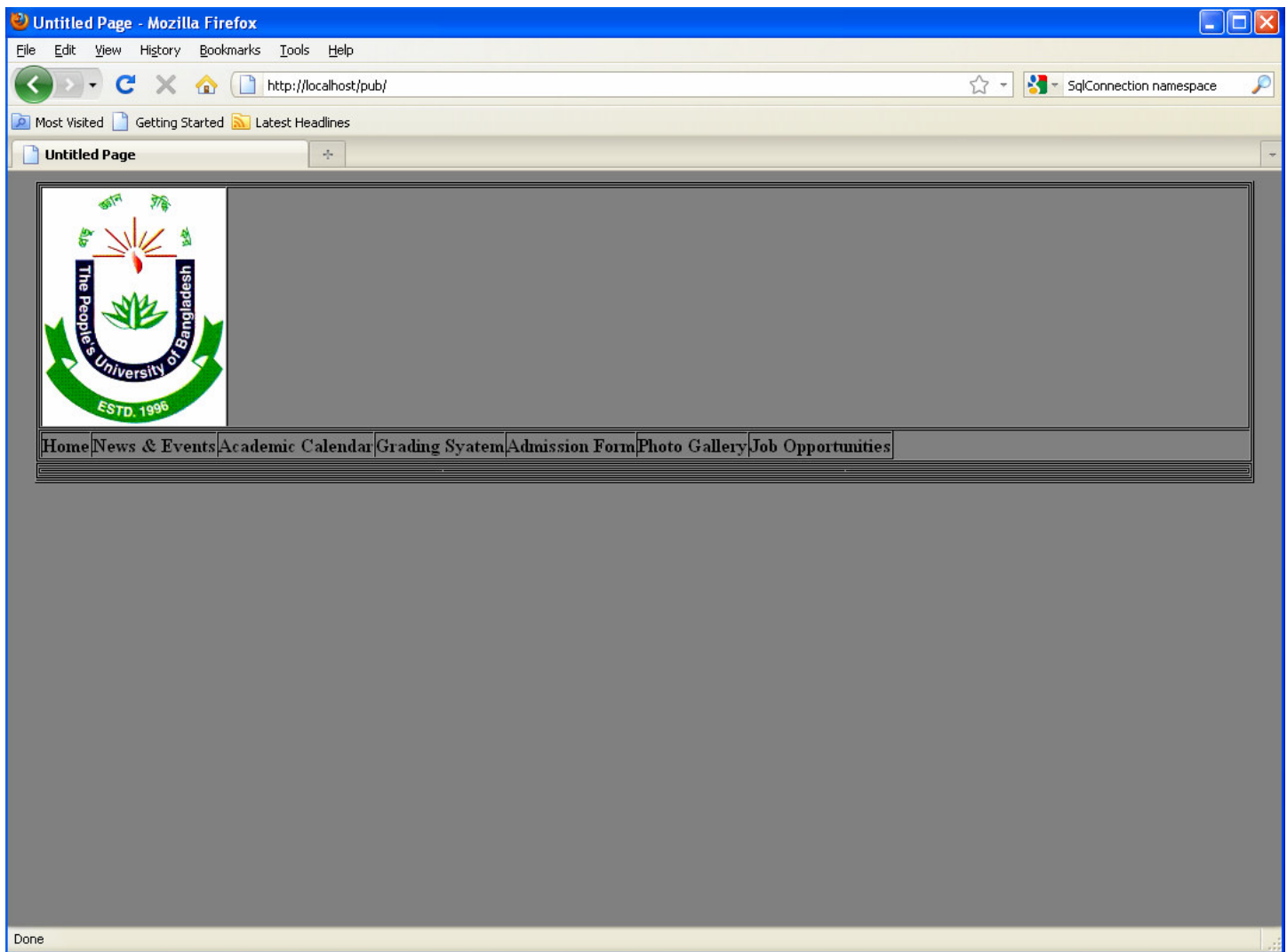
```

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

```

39. Run the application.

40. You should get something like this



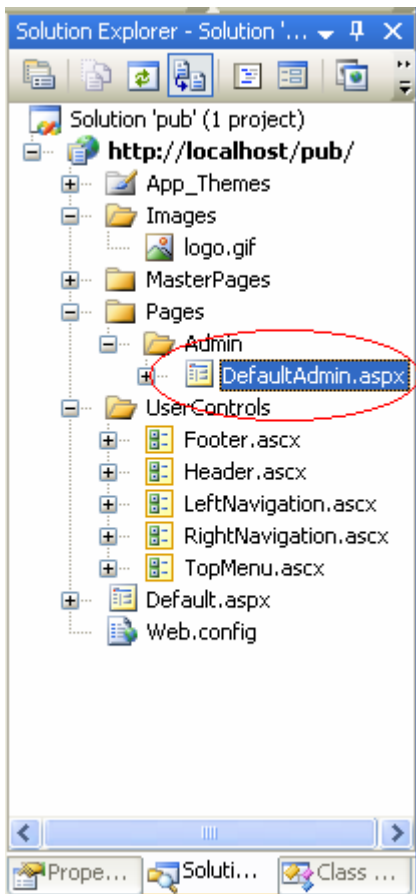
41. Change the stored procedure `get_menu_items` according to the following SQL command and execute-

```
SELECT * FROM TopMenu WHERE MenuItemSelected != 0;
```

42. Refresh the browser-

43. Observe the change.

44. Now create `DefaultAdmin.aspx` page inside `Pages>Admin>`



45. Select Site.master as the master page of DefaultAdmin.aspx

46. Change the code of DefaultAdmin.aspx as follows-

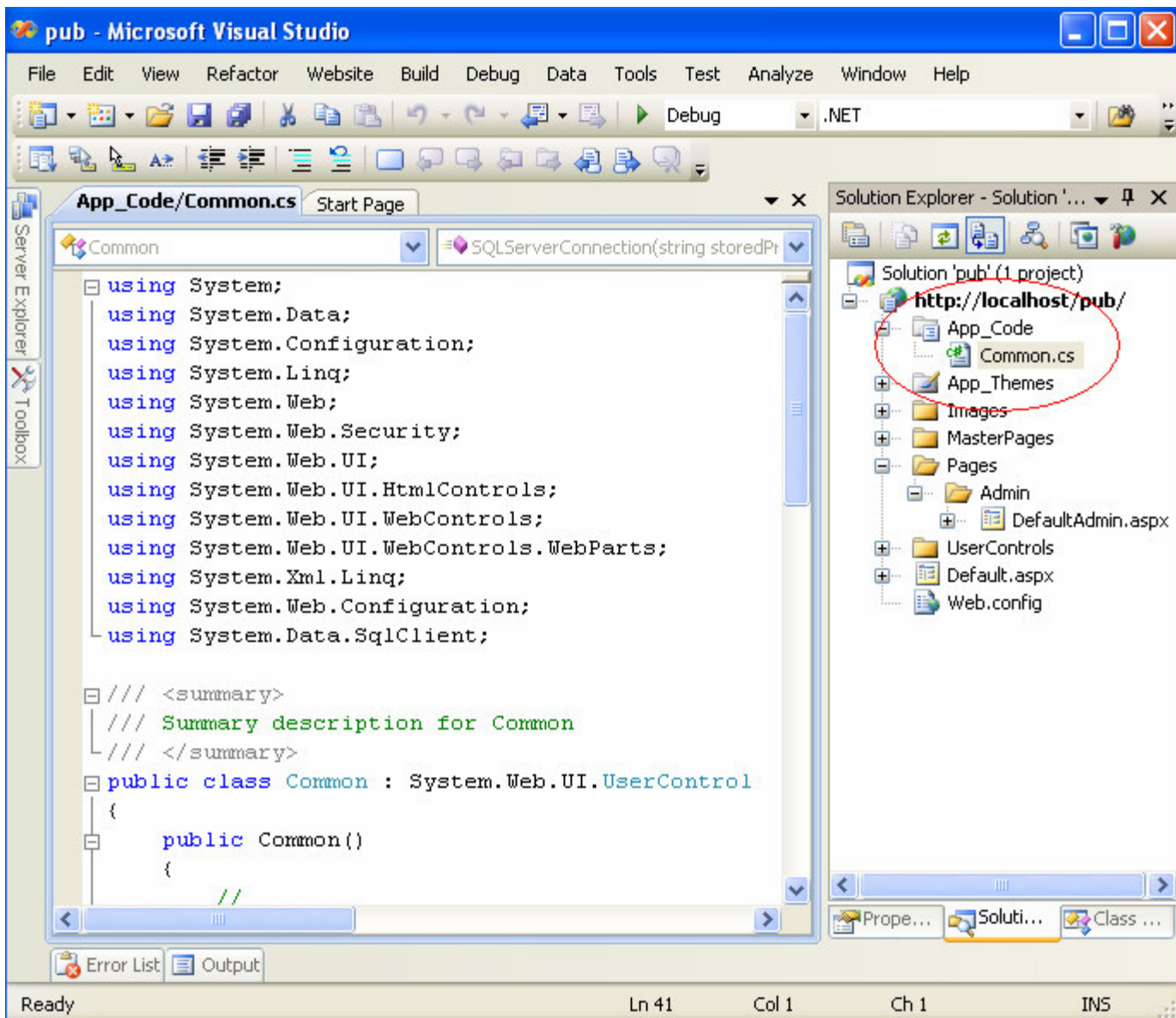
```
<%@ Page Language="C#" MasterPageFile="~/MasterPages/Site.master" AutoEventWireup="true"
CodeFile="DefaultAdmin.aspx.cs" Inherits="Pages_Admin_DefaultAdmin" Title="Untitled Page"
%>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="cphContent" Runat="Server">
    <asp:GridView ID="gvTopMenu" runat="server" align="left">
    </asp:GridView>
</asp:Content>
```

47. Create another stored procedure named get\_all\_menu\_items according to the following query-

```
SELECT * FROM TopMenu;
```

48. Now add a class named Common



49. Change the code in the Common.cs as follows-

```

/// <summary>
/// Summary description for Common
/// </summary>
public class Common : System.Web.UI.UserControl
{
    public Common()
    {
        //
        // TODO: Add constructor logic here
        //
    }

    /// <summary>
    /// Gets the DataSource according to the Stored Procedure
    /// </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;
}
}

```

50. Add these two namespaces-

```

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

```

51. Now change the code DefaultAdmin.aspx.cs as follows-

```

protected void Page_Load(object sender, EventArgs e)
{
    gvTopMenu.DataSource = Common.SQLServerConnection("dbo.get_all_menu_items");
    gvTopMenu.DataBind();
}

```

52. Type <http://localhost/pub/Pages/Admin/DefaultAdmin.aspx> in browser to browse for DefaultAdmin.aspx page.

