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How To Connect SQL Database In ASP.NET Using C# And Insert And View The Data Using Visual Studio 2015



Muthuramalingam Duraipandi

Updated date Dec 14, 2016

927.1k

16

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Introduction

This article explains how to connect the SQL database into ASP.net using C# language and how to insert and view the data, using Visual Studio 2015 Update 3.

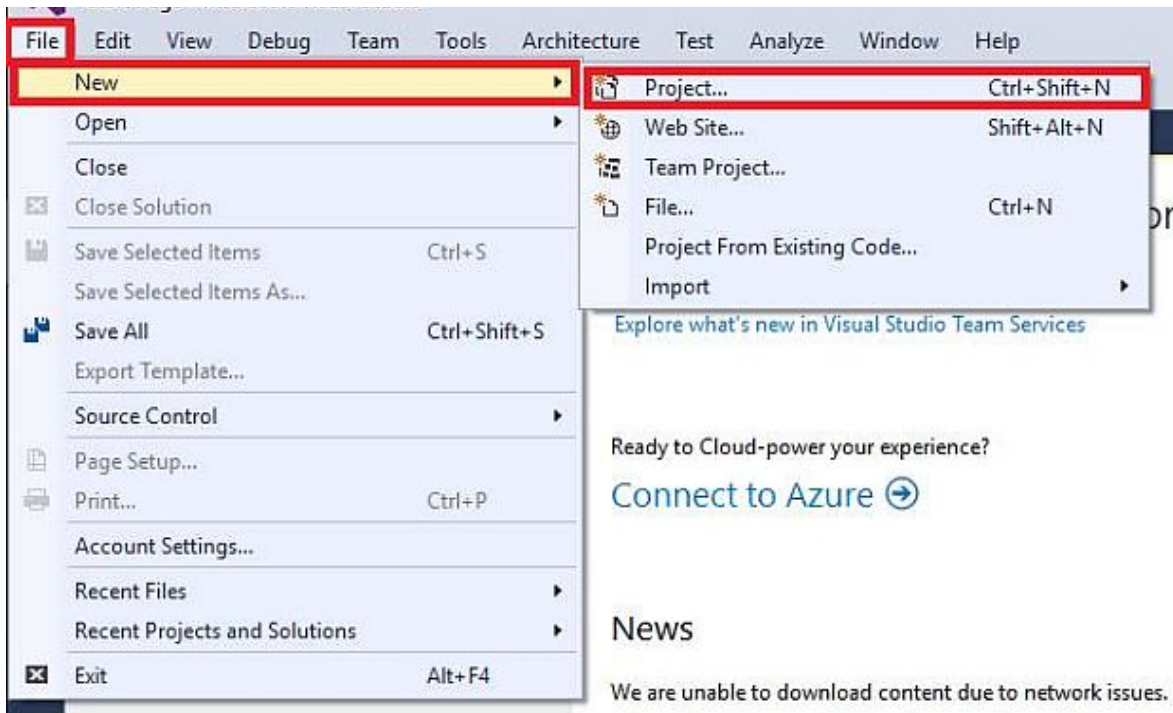
Requirements

- Visual Studio 2015 Update 3
- ASP.NET 4.5.2
- SQL Server

If you want to connect to the SQL database into ASP.NET, using C#, it should follow the steps given below.

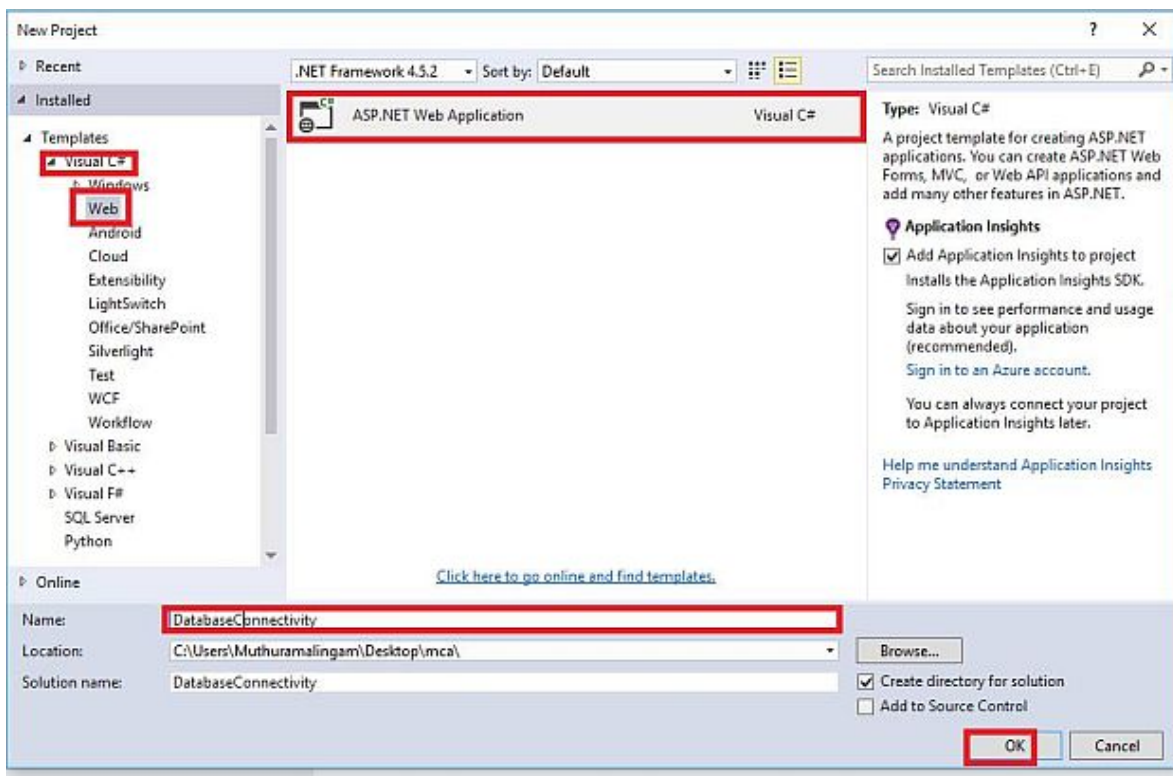
Step 1

Now, Open Visual Studio 2015 Update 3, go to the File >> New >> Project or use the shortcut key "Ctrl+Shift +N".



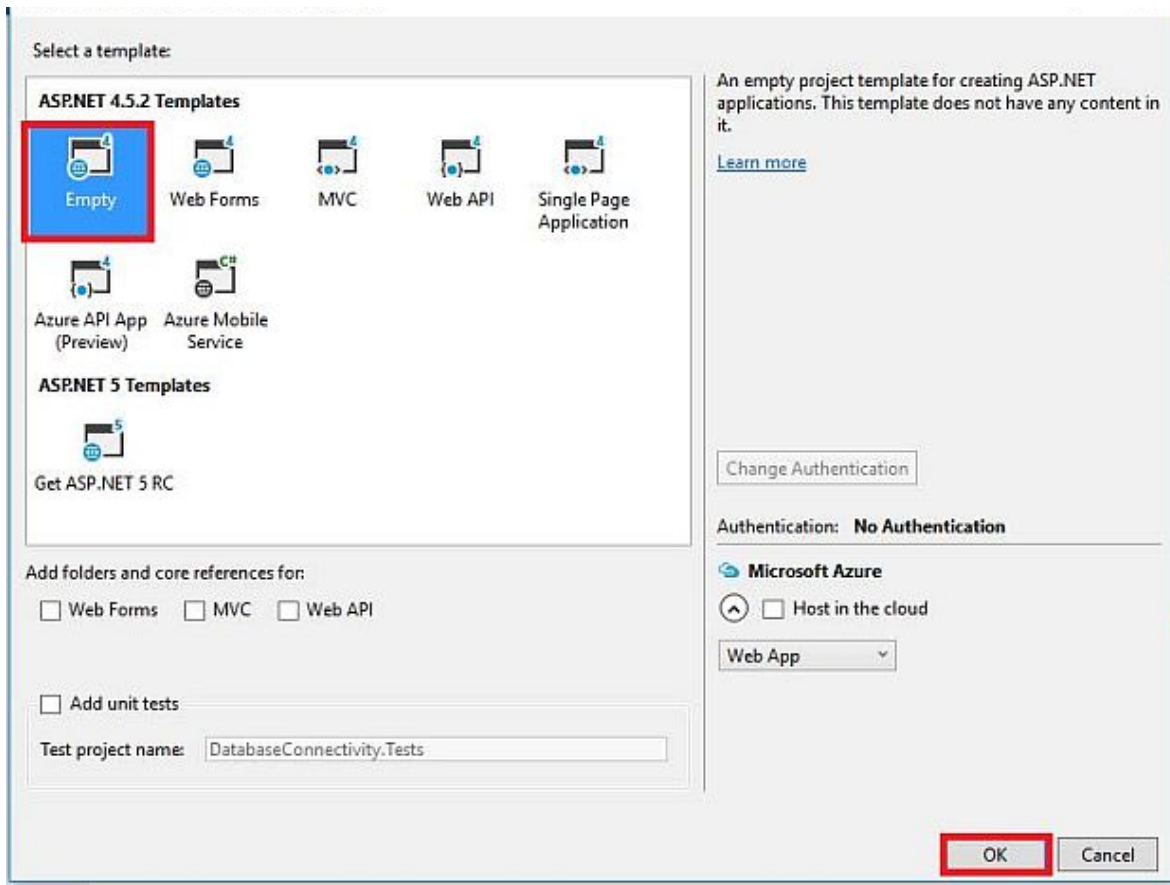
Step 2

Here, select Visual C# >> Web >> ASP.NET Web Application. Finally, click "OK" button.



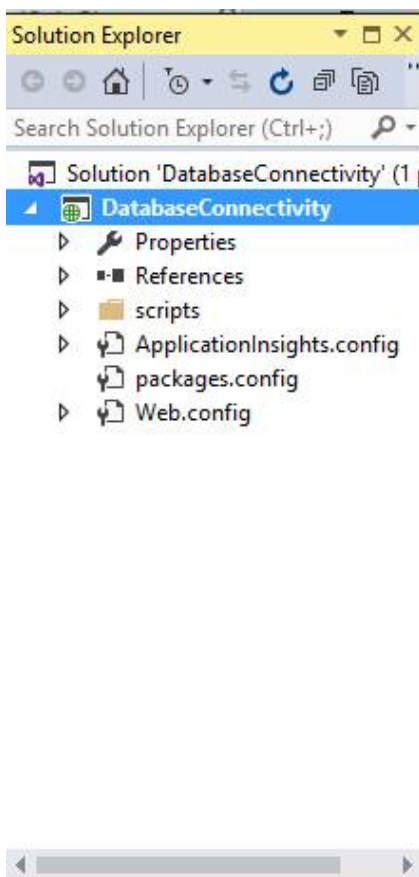
Step 3

Here, you can select the template for your ASP.NET Application. We are choosing "Empty" here. Now, click OK button.

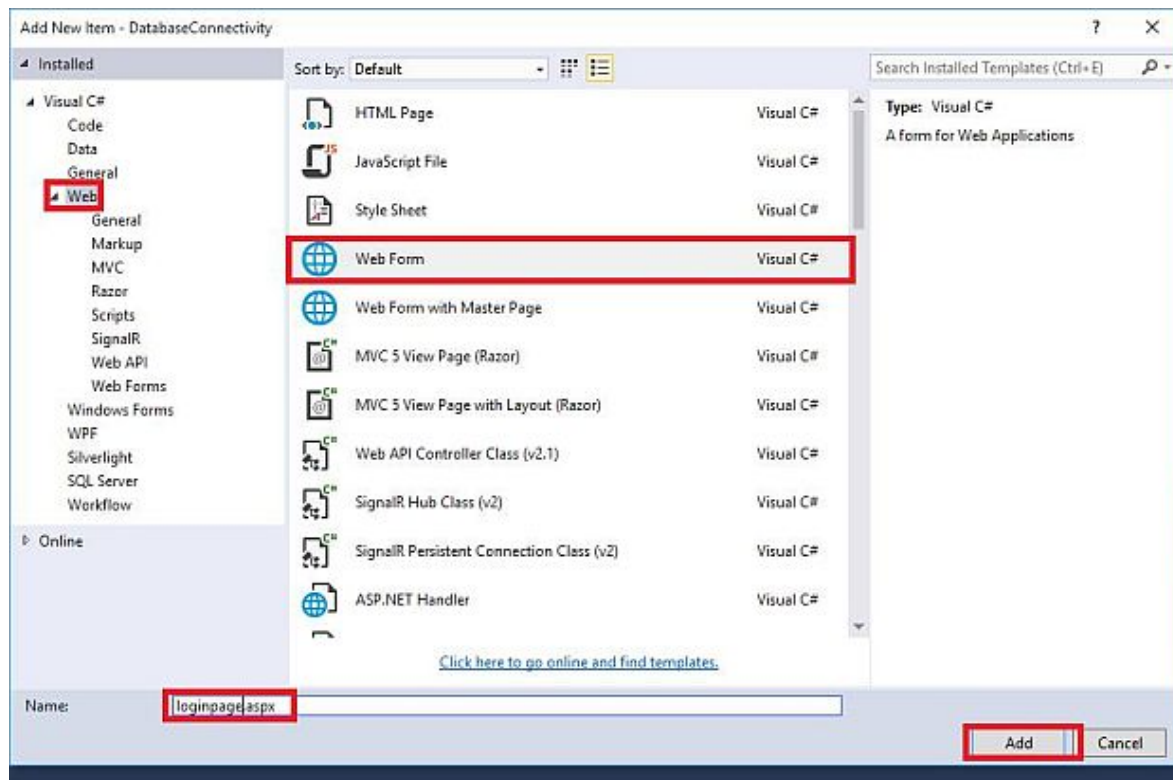


Step 4

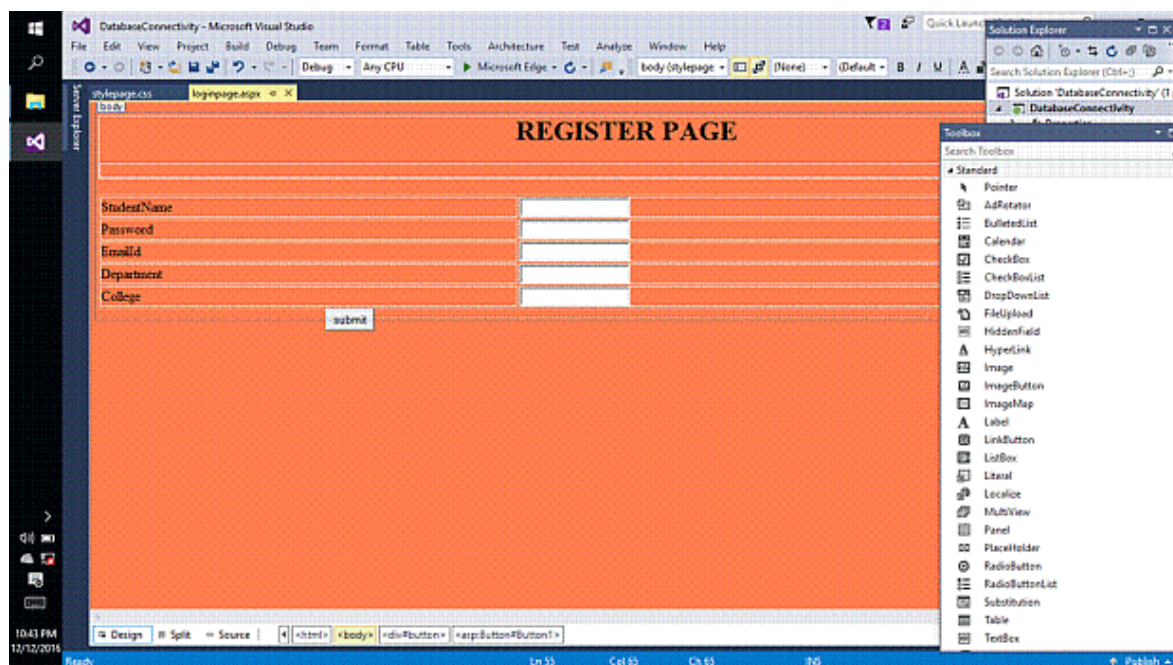
Now, open the project and look for the Solution Explorer.



Add+New item (Ctrl+Shift+A).



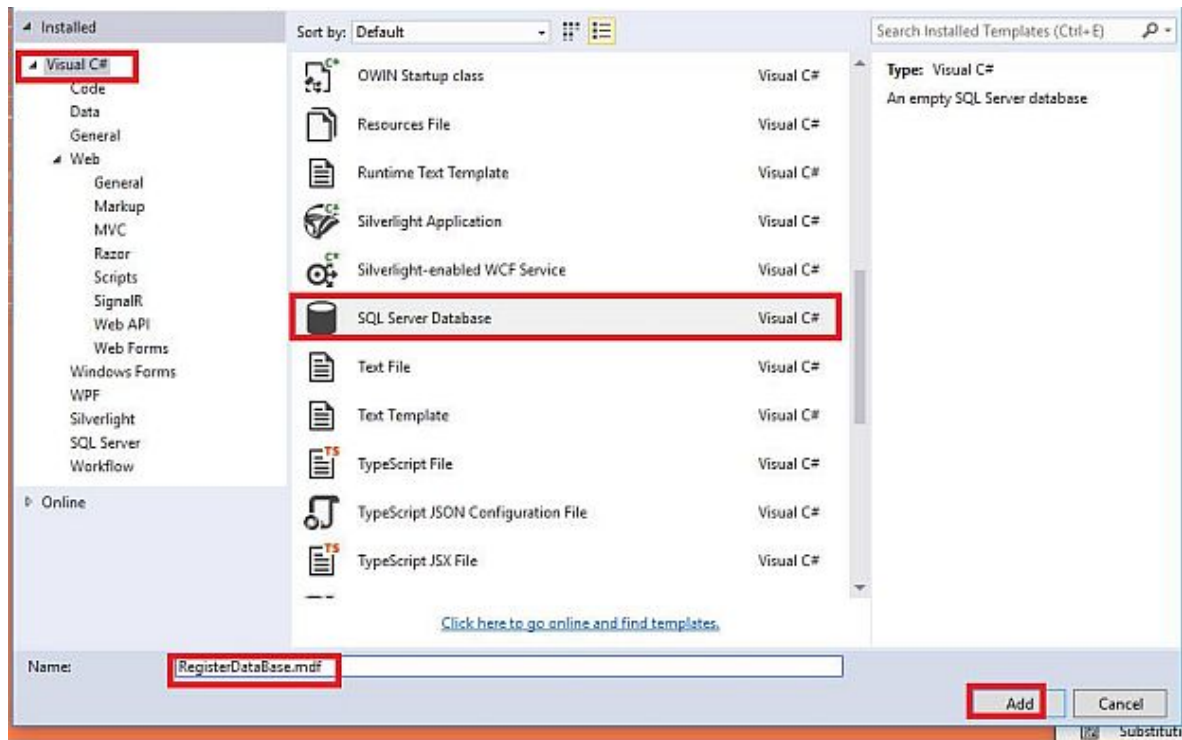
Now, we can create a login page, using ASP.NET code. You need to follow the drag and drop method. Here, we already created the login page.



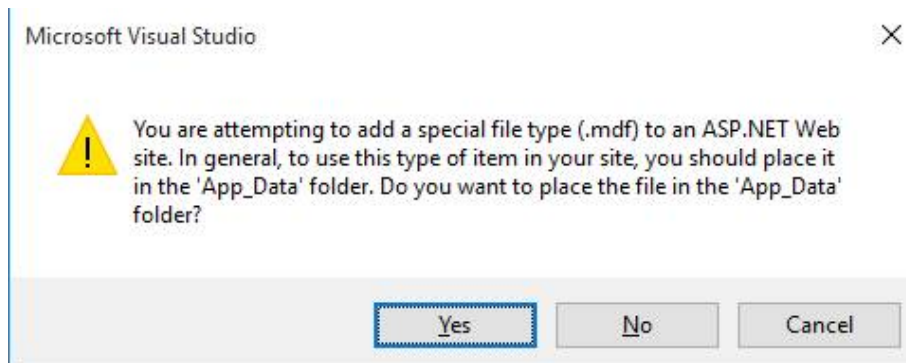
Step 5

Now, open the project. If you want a SQL Server database, you can add the page (SQL Server database). Add+New item (Ctrl+Shift+A).

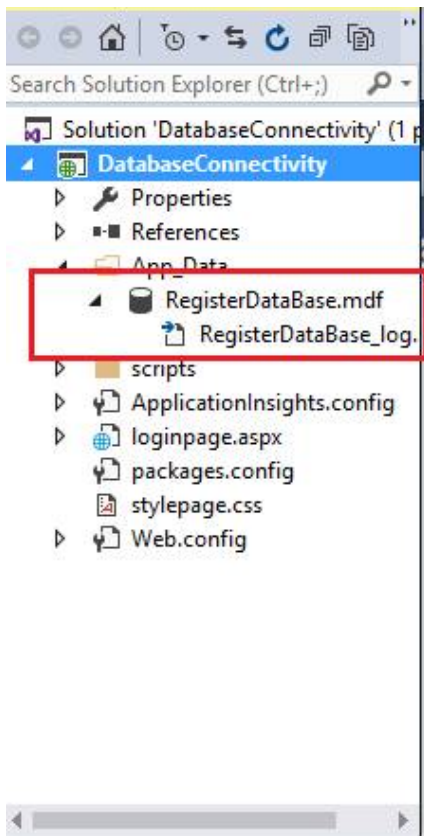
Here, you can select Visual C# and choose SQL Server database. Afterwards, click "OK" button..



Here, open the new Window and click YES button.

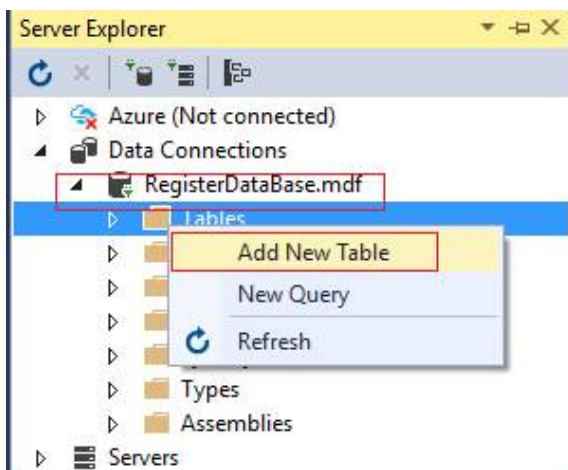


Now, add this to the database in our project.

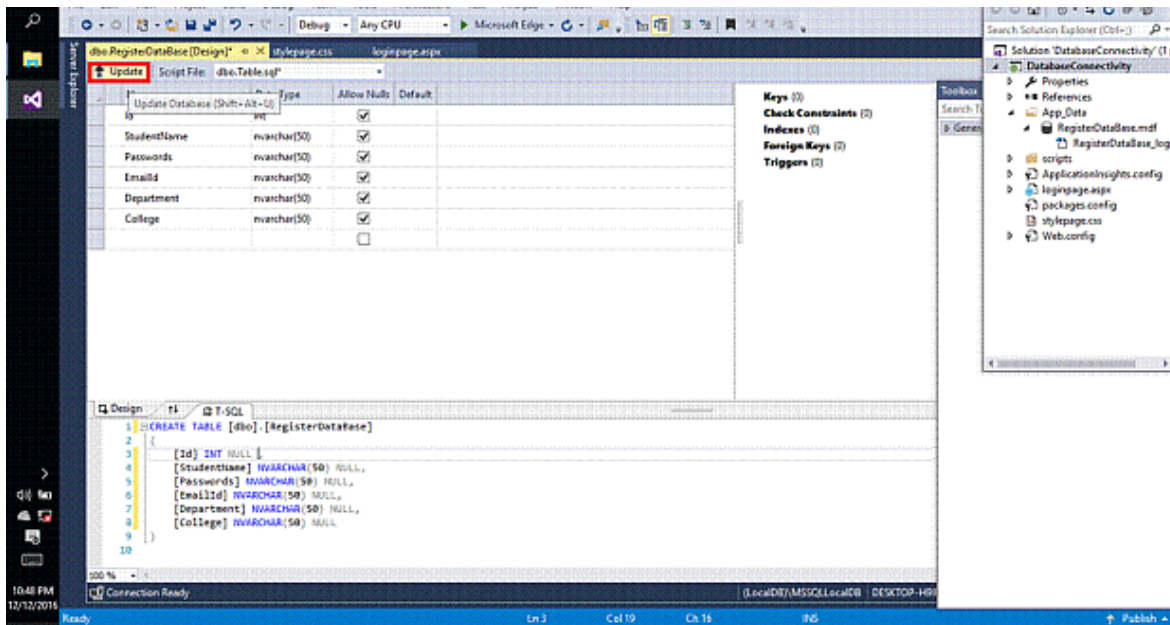


Step 6

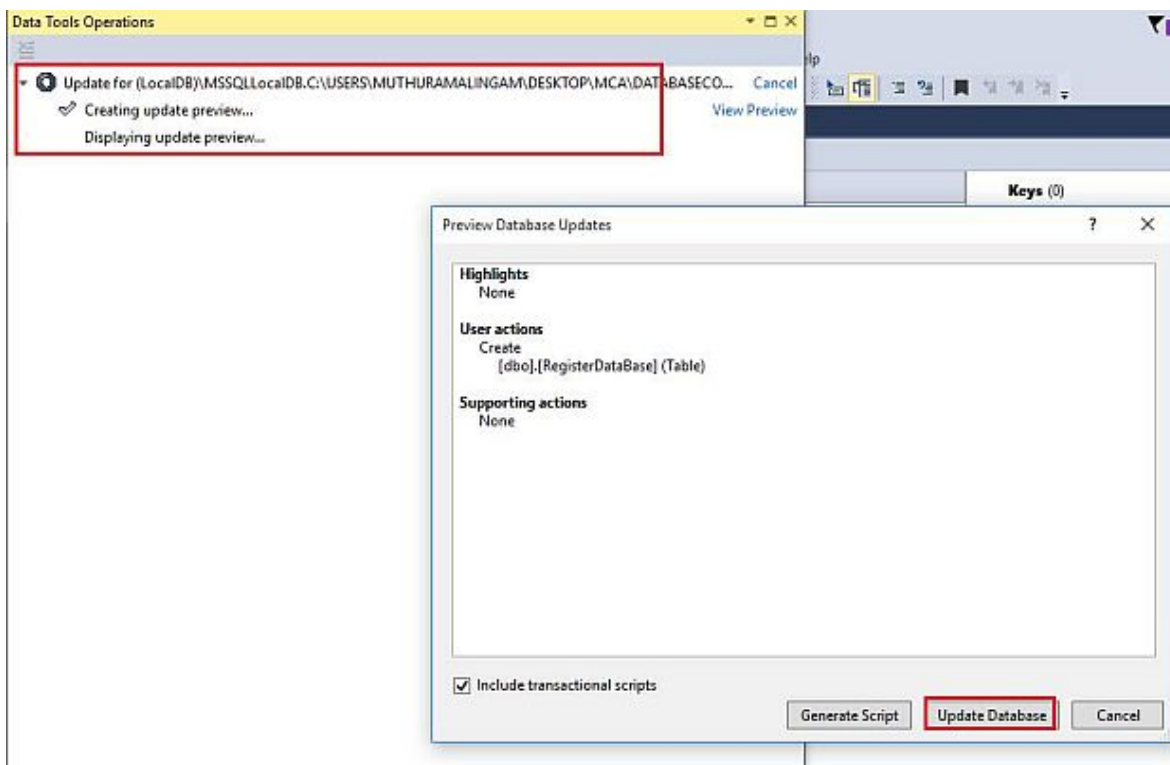
Now, we can go to the Server Explorer and add your database. You can click the Tables and afterwards, click Add New Table.



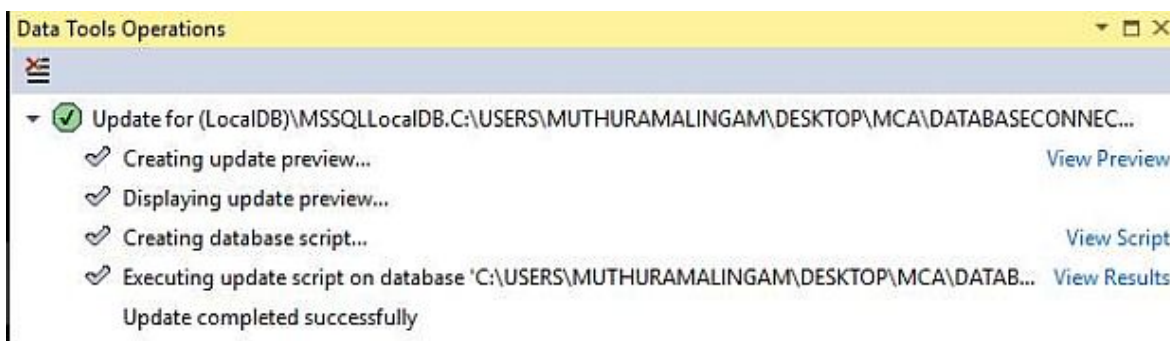
Now, open the new table and you can fill the data, which is like (studentname, password) and afterwards, you click the Update .

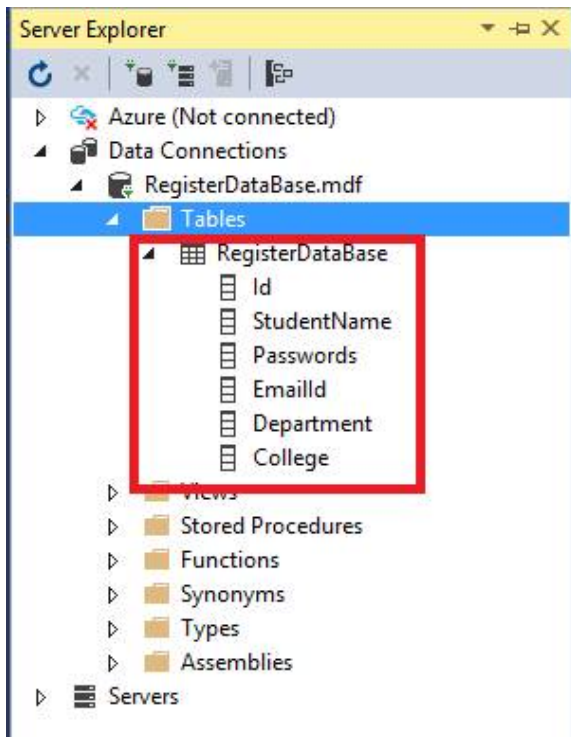


Here, click database in update and subsequently click update the database.

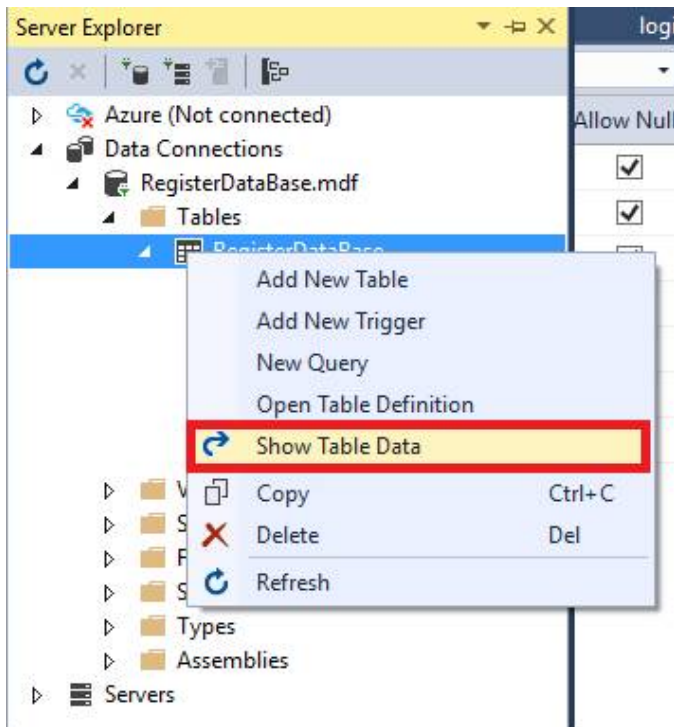


Here, the database is updated.

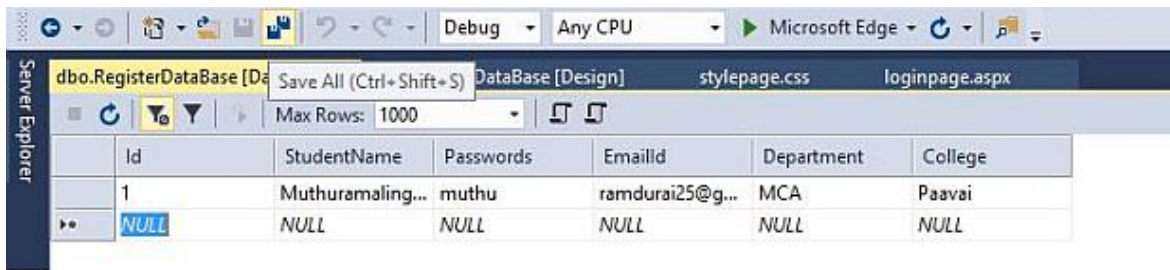




Now, we can click on the right click and click Show Table Data.



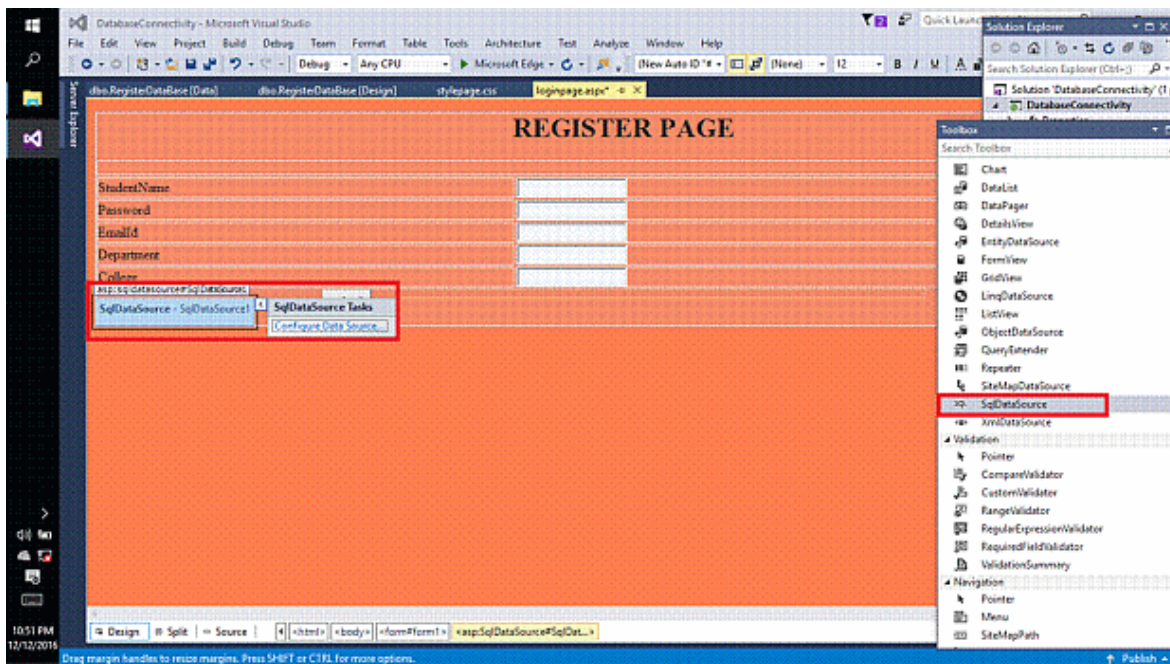
Now, the data is stored.



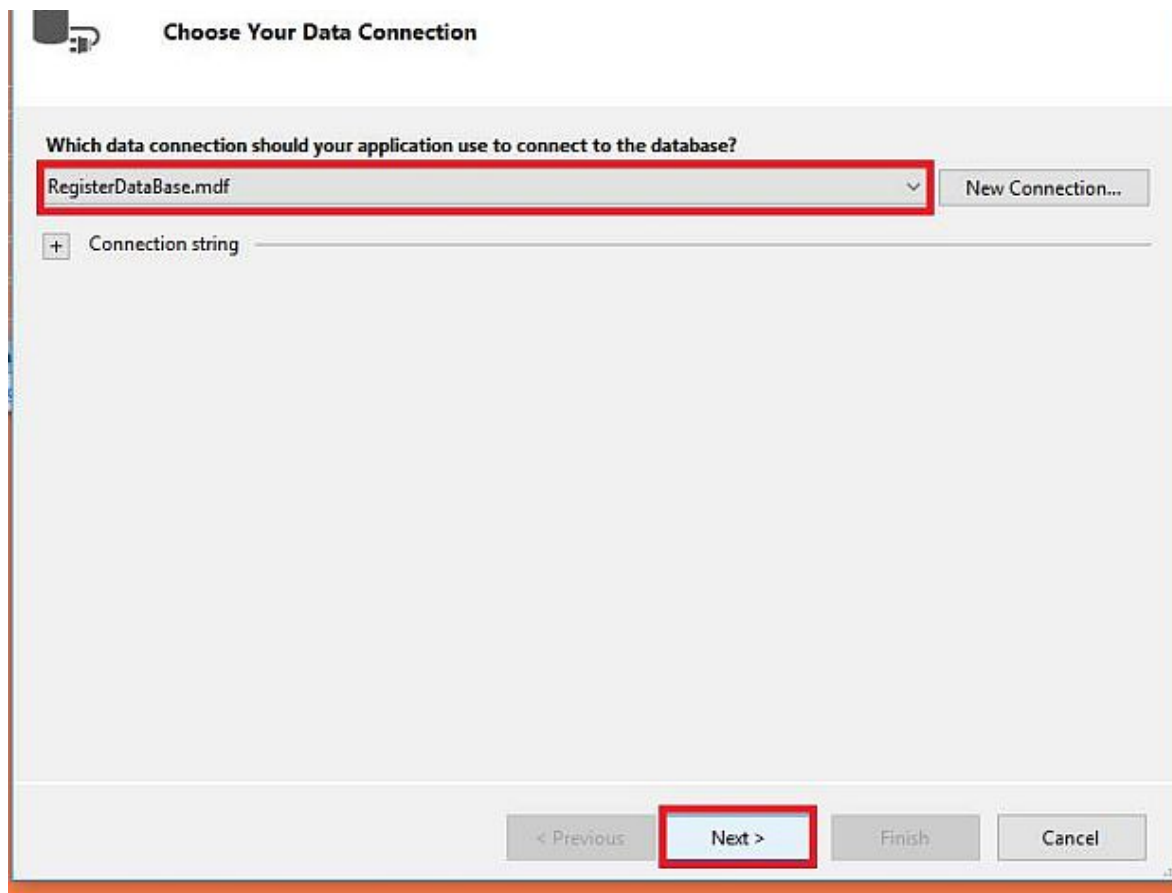
Id	StudentName	Passwords	EmailId	Department	College
1	Muthuramaling...	muthu	ramdurai25@g...	MCA	Paavai
NULL	NULL	NULL	NULL	NULL	NULL

Step 7

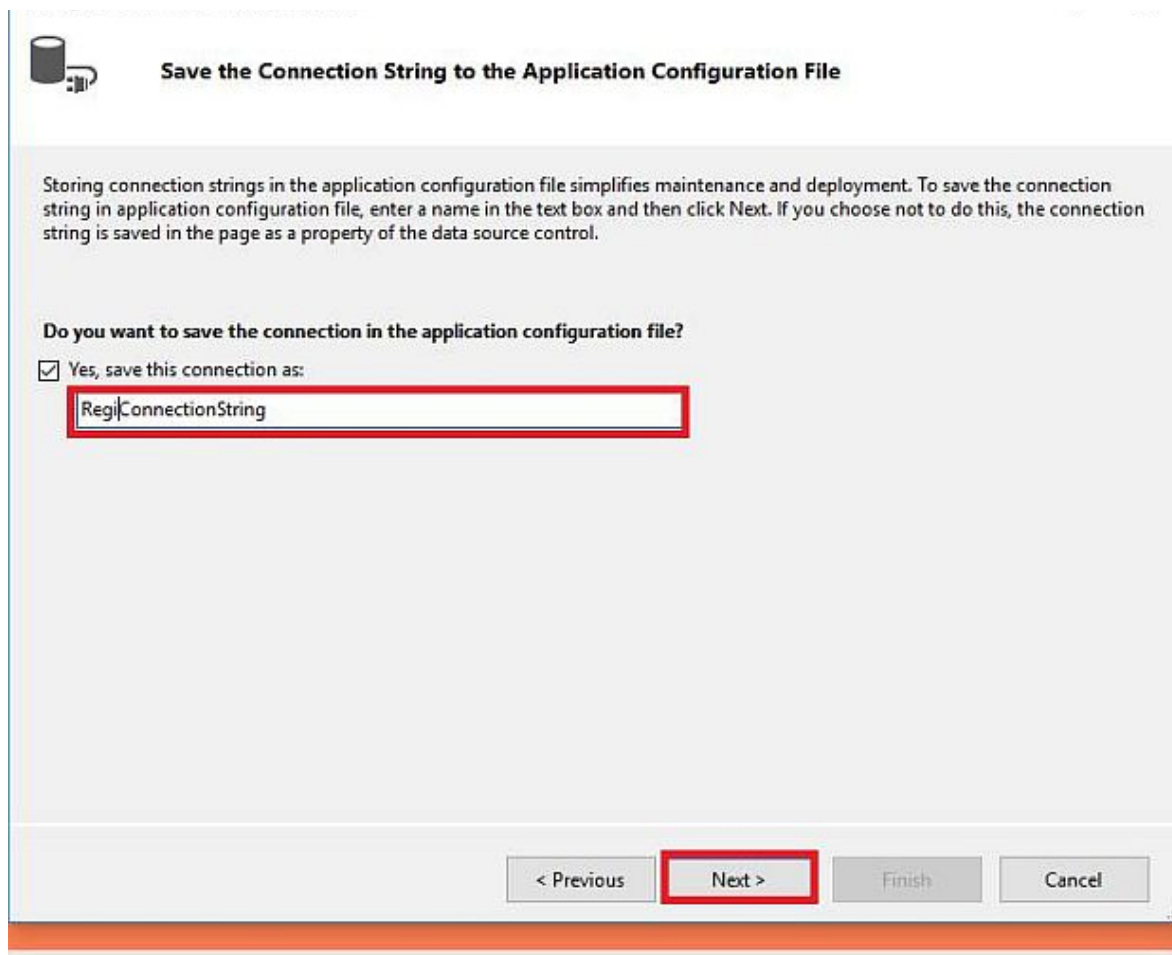
Now, you can add SQL Data Source. Drag and drop method. Here, click Configure Data Source



Now, we can choose your database and click NEXT button.



Now, you can select the ConnectionString and Click NEXT button



Save the Connection String to the Application Configuration File

Storing connection strings in the application configuration file simplifies maintenance and deployment. To save the connection string in application configuration file, enter a name in the text box and then click Next. If you choose not to do this, the connection string is saved in the page as a property of the data source control.

Do you want to save the connection in the application configuration file?

☒ Yes, save this connection as:

RegiConnectionString

< Previous **Next >** Finish Cancel

Now, we can choose Specify columns from a table or view and afterwards, click Next button.

Configure the Select Statement

How would you like to retrieve data from your database?

☐ Specify a custom SQL statement or stored procedure

☒ Specify columns from a table or view

Name:
RegisterDataBase

Columns:

- ☒ *
- ☐ Id
- ☐ StudentName
- ☐ Passwords
- ☐ EmailId
- ☐ Department
- ☐ College

☐ Return only unique rows

WHERE...

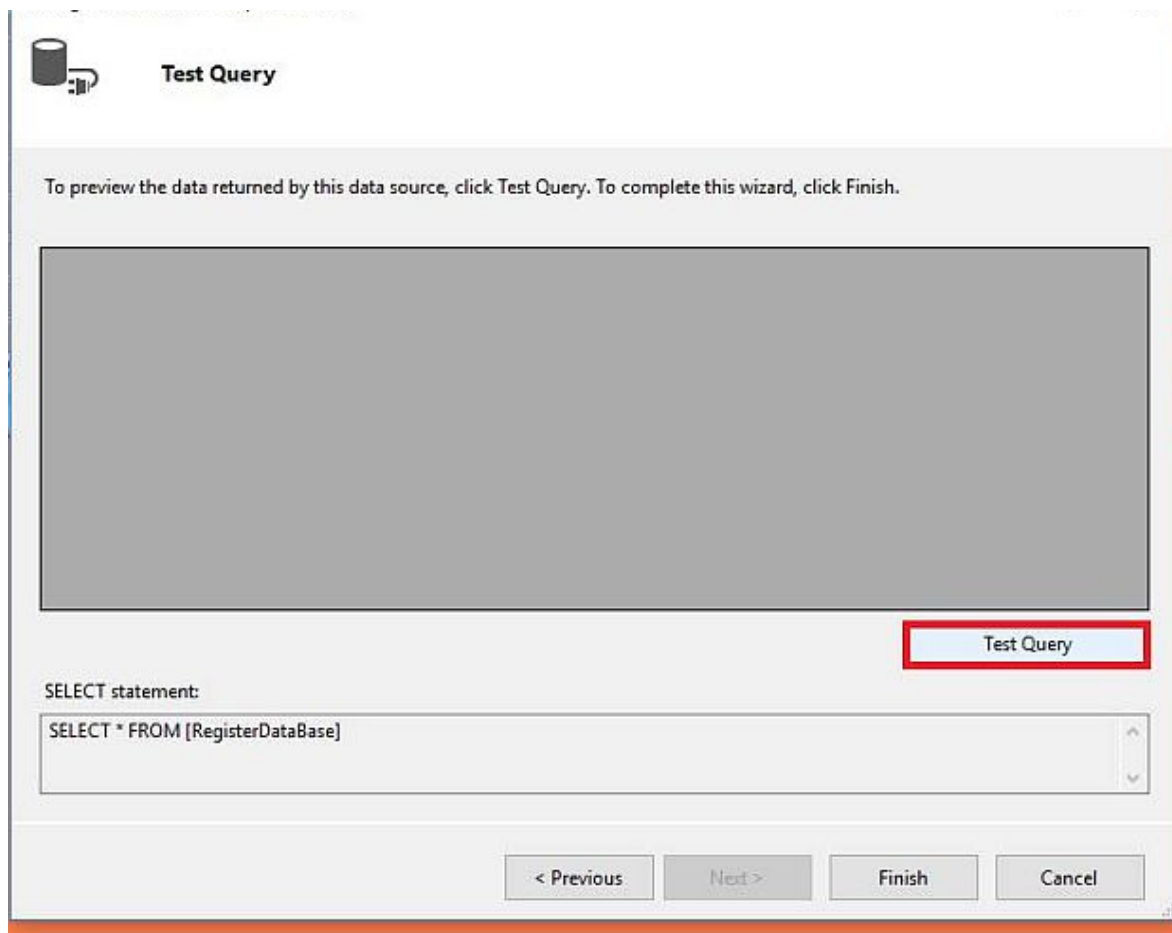
ORDER BY...

Advanced...

SELECT statement:
SELECT * FROM [RegisterDataBase]

< Previous **Next >** Finish Cancel

Now, click Test Query.



Here, add the data and click Finish button.

Test Query

To preview the data returned by this data source, click Test Query. To complete this wizard, click Finish.

Id	StudentName	Passwords	EmailId	Department	College
1	Muthuramalingam	muthu	ramdurai25@gmail.com	MCA	Paavai

Test Query

SELECT statement:

SELECT * FROM [RegisterDataBase]

< Previous Next > **Finish** Cancel

Step 8

Now, you can go to CS(C# code) page and you will write the C# code.

```

01. using System;
02. using System.Collections.Generic;
03. using System.Linq;
04. using System.Web;
05. using System.Web.UI;
06. using System.Web.UI.WebControls;
07. using System.Data.SqlClient;
08. using System.Configuration;
09.
10. namespace DatabaseConnectivity
11. {
12.     public partial class loginpage : System.Web.UI.Page
13.     {
14.         protected void Page_Load(object sender, EventArgs e)
15.         {
16.             if(IsPostBack)
17.             {
18.                 SqlConnection conn = new SqlConnection(ConfigurationManager.
19.                     conn.Open();
20.                 string checkuser = "select count(*) from RegisterDataBase w
21.                 SqlCommand cmd = new SqlCommand(checkuser, conn);
22.                 int temp = Convert.ToInt32(cmd.ExecuteScalar().ToString());
23.
24.                 if (temp == 1)
25.                 {
26.                     Response.Write("Student Already Exist");

```

```

29.         conn.Close();
30.     }
31.
32. }
33.
34. protected void Button1_Click(object sender, EventArgs e)
35. {
36.     try
37.     {
38.
39.         SqlConnection conn = new SqlConnection(ConfigurationManager.
40.             conn.Open();
41.         string insertQuery = "insert into RegisterDataBase(StudentName, Password, EmailID, Department, College) values (@studentname, @passwords, @emailid, @department, @college)";
42.         SqlCommand cmd = new SqlCommand(insertQuery, conn);
43.         cmd.Parameters.AddWithValue("@studentname", TextBox1.Text);
44.         cmd.Parameters.AddWithValue("@passwords", TextBox2.Text);
45.         cmd.Parameters.AddWithValue("@emailid", TextBox3.Text);
46.         cmd.Parameters.AddWithValue("@department", TextBox4.Text);
47.         cmd.Parameters.AddWithValue("@college", TextBox5.Text);
48.         cmd.ExecuteNonQuery();
49.
50.         Response.Write("Student registration Successfully!!!thank you");
51.
52.         conn.Close();
53.
54.     }
55.     catch (Exception ex)
56.     {
57.         Response.Write("error" + ex.ToString());
58.     }
59. }
60.
61. }

```

Now, you can see the Loginpage.aspx code.

```

01. <%@ Page Language="C#" AutoEventWireup="true" CodeBehind="loginpage.aspx.cs"
02.
03. <!DOCTYPE html>
04.
05. <html xmlns="http://www.w3.org/1999/xhtml">
06. <head runat="server">
07.     <title></title>
08.     <link href="stylepage.css" type="text/css" rel="stylesheet" />
09.     <style type="text/css">
10.         .auto-style1 {
11.             width 100%;
12.         }
13.     </style>
14. </head>
15. <body>
16.     <form id="form1" runat="server">
17.         <div id="title">
18.             <h1>REGISTER PAGE</h1>
19.         </div>
20.         <div id="teble"></div>
21.         <table class="auto-style1">
22.             <tr>

```

```

25.         </aspLabel></td>
26.         <aspTextBox ID="TextBox1" runat="server"></aspTextBox>
27.     </td>
28.     </tr>
29.     <tr>
30.         <td>
31.             <aspLabel ID="Label2" runat="server" Text="Password">
32.             </aspLabel></td>
33.             <td>
34.                 <aspTextBox ID="TextBox2" runat="server"></aspTextBox>
35.             </td>
36.         </tr>
37.         <tr>
38.             <td>
39.                 <aspLabel ID="Label3" runat="server" Text="EmailId">
40.                 </aspLabel></td>
41.                 <td>
42.                     <aspTextBox ID="TextBox3" runat="server"></aspTextBox>
43.                 </td>
44.             </tr>
45.             <tr>
46.                 <td>
47.                     <aspLabel ID="Label4" runat="server" Text="Department">
48.                     </aspLabel></td>
49.                     <td>
50.                         <aspTextBox ID="TextBox4" runat="server"></aspTextBox>
51.                     </td>
52.             </tr>
53.             <tr>
54.                 <td>
55.                     <aspLabel ID="Label5" runat="server" Text="College">
56.                     </aspLabel></td>
57.                     <td>
58.                         <aspTextBox ID="TextBox5" runat="server"></aspTextBox>
59.                     </td>
60.             </tr>
61.         </table>
62.         <div id="button">
63.             <aspButton ID="Button1" runat="server" Text="submit" OnClick="Button1_Click"></aspButton>
64.         </div>
65.         <div id="sim"></div>
66.         <aspSqlDataSource ID="SqlDataSource1" runat="server" ConnectionString=
67.         <%$ ConnectionStringsRegiConnectionString %>" SelectCommand="SELECT * FROM |
68.         </aspSqlDataSource>
69.
70.         <div id="grid">
71.             <aspGridView ID="GridView1" runat="server" AllowPaging="True" AllowSorting="True">
72.                 <AlternatingRowStyle BackColor="White" ForeColor="#284775">
73.                 </AlternatingRowStyle>
74.                 <Columns>
75.                     <aspBoundField DataField="Id" HeaderText="Id" SortExpression="Id"></aspBoundField>
76.                     <aspBoundField DataField="StudentName" HeaderText="StudentName" SortExpression="StudentName"></aspBoundField>
77.                     <aspBoundField DataField="Passwords" HeaderText="Passwords" SortExpression="Passwords"></aspBoundField>
78.                     <aspBoundField DataField="EmailId" HeaderText="EmailId" SortExpression="EmailId"></aspBoundField>
79.                     <aspBoundField DataField="Department" HeaderText="Department" SortExpression="Department"></aspBoundField>
80.                     <aspBoundField DataField="College" HeaderText="College" SortExpression="College"></aspBoundField>
81.                 </Columns>
82.                 <EditRowStyle BackColor="#999999" />

```

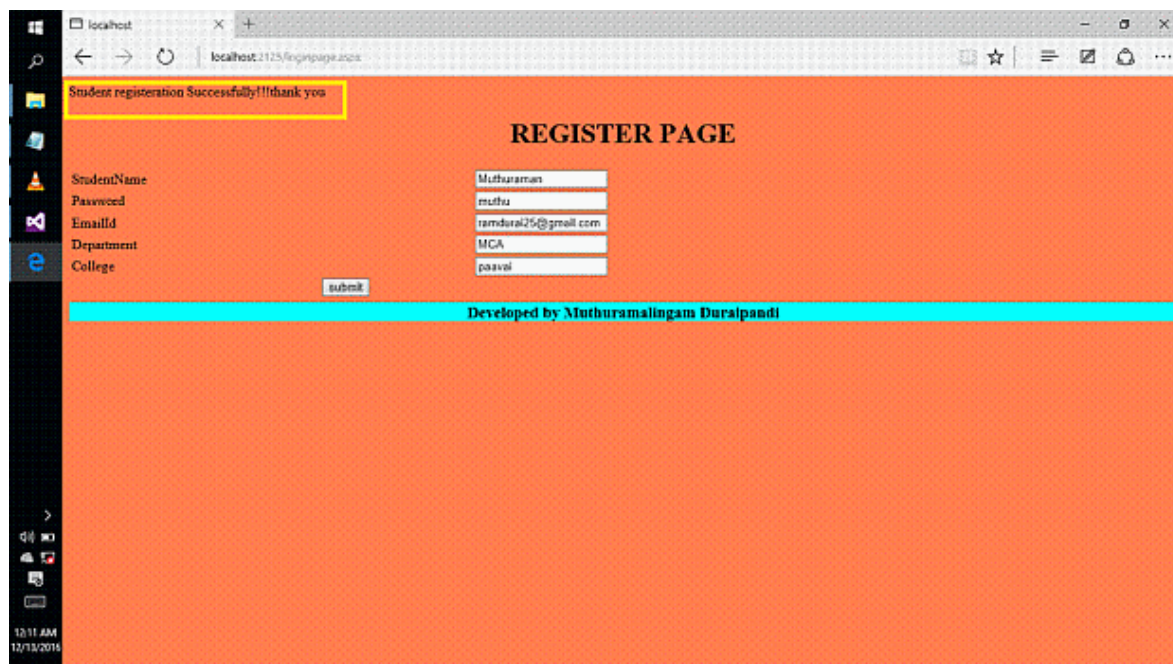
```

72.         <HeaderStyle BackColor="#5D/B9D" -
Bold="True" ForeColor="White" />
73.         <PagerStyle BackColor="#284775" ForeColor="White" Horizontal
74.         <RowStyle BackColor="#F7F6F3" ForeColor="#333333" />
75.         <SelectedRowStyle BackColor="#E2DED6" -
Bold="True" ForeColor="#333333" />
76.         <SortedAscendingCellStyle BackColor="#E9E7E2" />
77.         <SortedAscendingHeaderStyle BackColor="#506C8C" />
78.         <SortedDescendingCellStyle BackColor="#FFFDF8" />
79.         <SortedDescendingHeaderStyle BackColor="#6F8DAE" />
80.     </aspGridView>
81. </div>
82.
83.     <div id="last">
84.         <h3>Developed by
85.             Muthuramalingam Duraipandi</h3>
86.     </div>
87. </form>
88. </body>
89. </html>

```

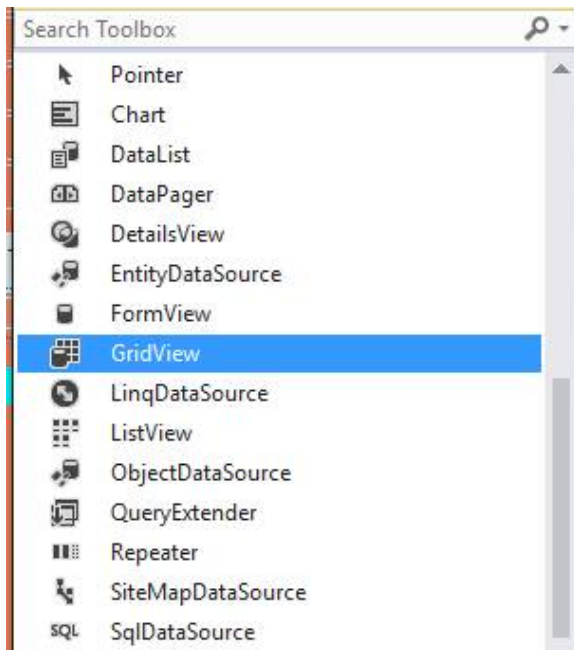
Step 9

Here, you need to run any Browser and after a few minutes, you will get some output. Now, we can insert the data into your database.

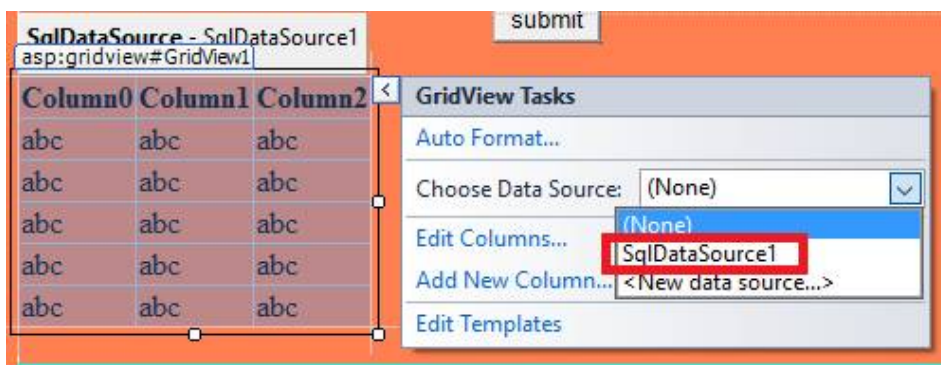


Step 10

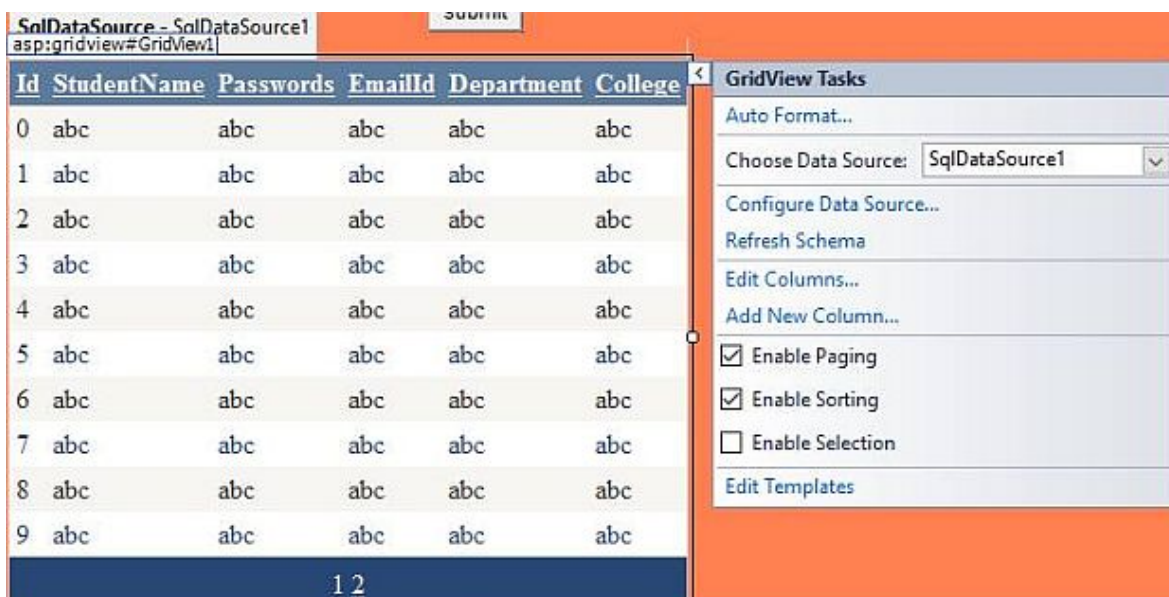
Now, we can added the GridView. Drag and drop method needs to be used.



Now, you can choose the data source, it is sqlDataSource.

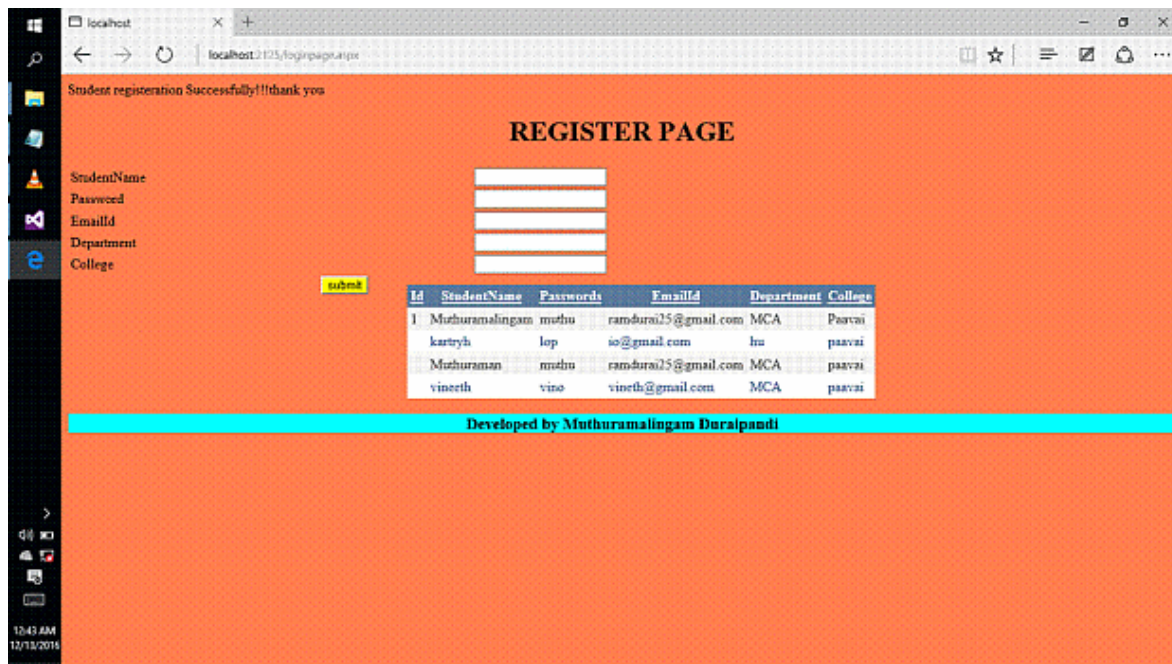


Here, the database data is added to GridView.



Step 11

view the data.



ASP.NET

C#

Database

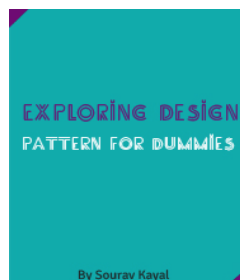
SQL

Visual Studio 2015

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Muthuramalingam Duraipandi *TOP 1000*

I am working as Software Engineer in Advanced Millennium Technologies ,Bangalore and I am a C# corner MVP

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Server Error in '/' Application. Invalid object name 'RegisterDataBase'. Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code. Exception Details: System.Data.SqlClient.SqlException: Invalid object name 'RegisterDataBase'. Source Error: Line 21: string checkuser = "select count(*) from RegisterDataBase where StudentName='" + TextBox1.Text + """; Line 22: SqlCommand cmd = new SqlCommand(checkuser, conn); Line 23: int temp = Convert.ToInt32(cmd.ExecuteScalar().ToString()); Line 24: Line 25: if (temp == 1)

[Kenneth John](#)

May 31, 2021

2052 12 0

0 0 Reply



Thanks brother

[7353 BALIRAM](#)

Feb 27, 2021

2062 2 0

0 0 Reply



Can Anyone Help me on how to connect to sql server without using the Entity framework in asp .net core

[Eric Hart](#)

Dec 06, 2019

2056 8 0

0 0 Reply



You can view the detail steps here <https://www.youtube.com/watch?v=azfrql2VQ6U>

[sushil saini](#)

Dec 05, 2019

2053 11 0

0 0 Reply



If in the above example my 1st text box is EmplId instead of first name then how to handle the same ? Following line is giving an error string EmplId= "select count(*) from RegistrationTable where EmplId ='" + TextBox1.Text + """; error----->could not find stored procedure empId

[Sakshi Kaul](#)

Mar 29, 2019

1992 72 4.2k

0 0 Reply



In the above example (Now, you can go to CS(C# code) page and you will write the C# code) I am not clear with this ? On which Page I have to do coding? I am having page as abc.aspx

[Sakshi Kaul](#)

Mar 26, 2019

1992 72 4.2k

0 0 Reply



Hi , Thanks for the Tutorial, Please I have the following error when I copy the Loginpage.asp code into my own VS loginpage Asp TextBox Validation (Xhtml5), Element is not supported

[Ibidapo babatunde](#)

Mar 13, 2019

1959 105 0

0 0 Reply



Asp TextBox Validation (Xhtml5), Element is not supported

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1959 105 0

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Hi , Thanks for the Tutorial, Please I have the following error when I copy the Loginpage.asp code into my own VS loginpage

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Database folder in note show table create option

[PARMAR MEGHRAJ](#)

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