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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

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927.1k 16 7

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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.

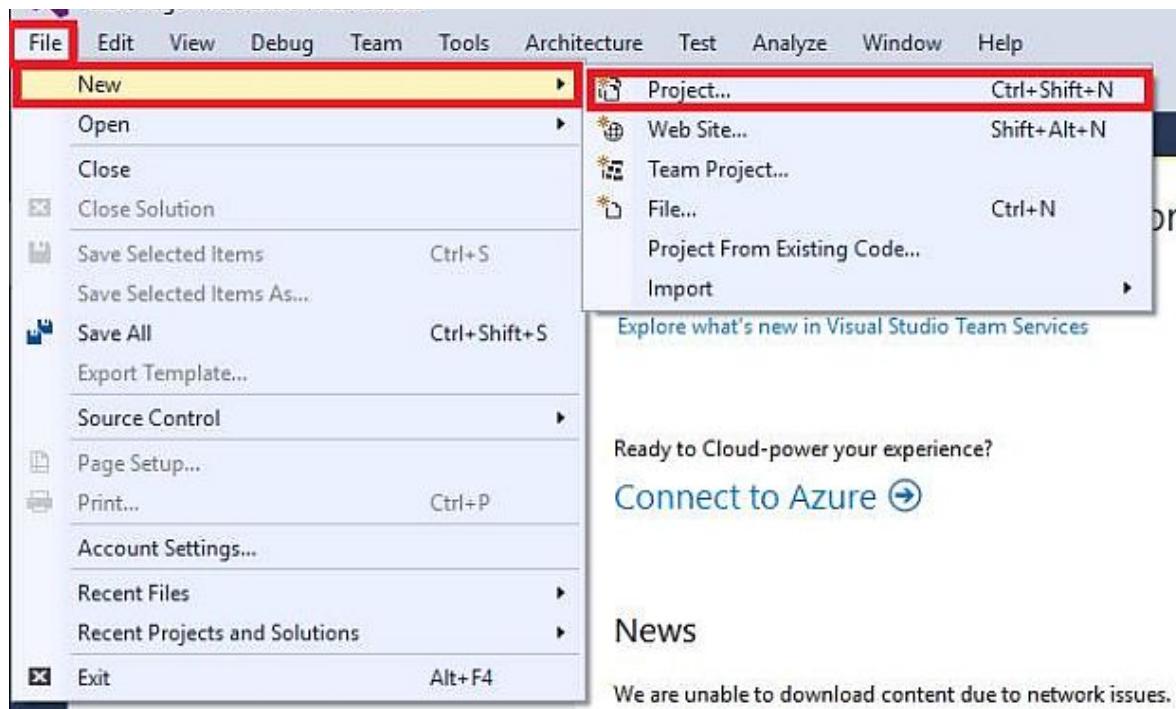
Requirements

- 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.

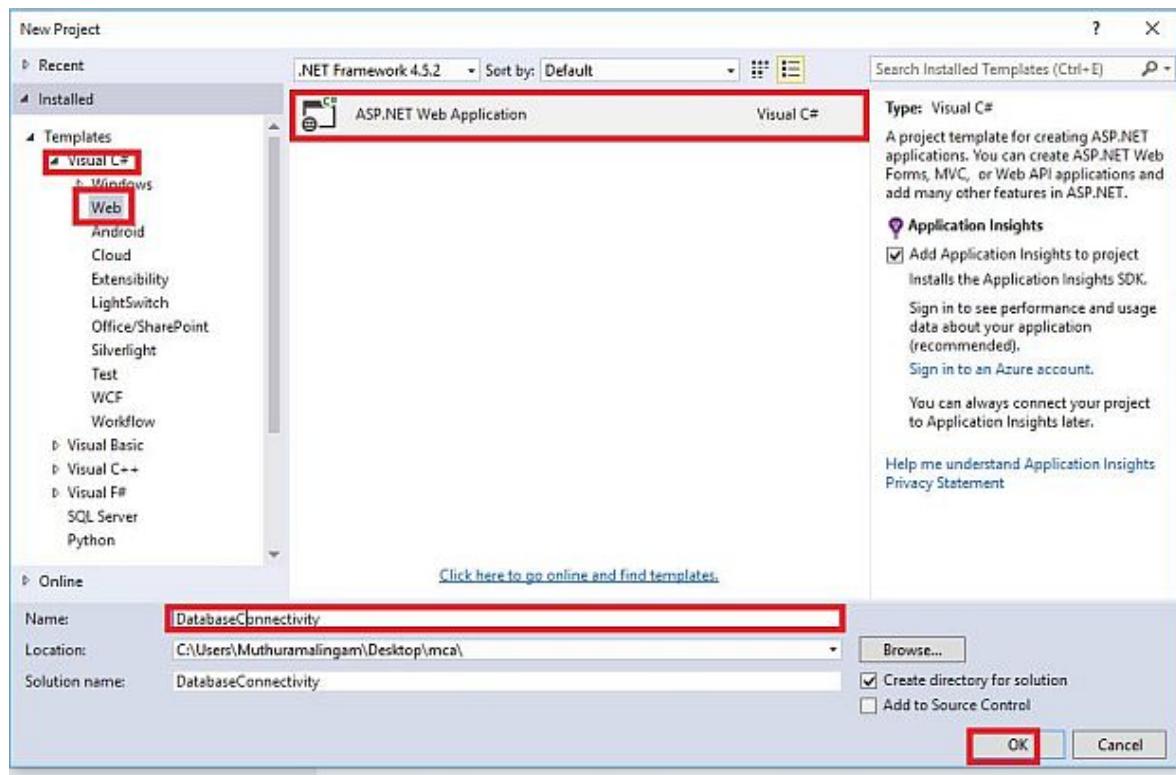
Step 1

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



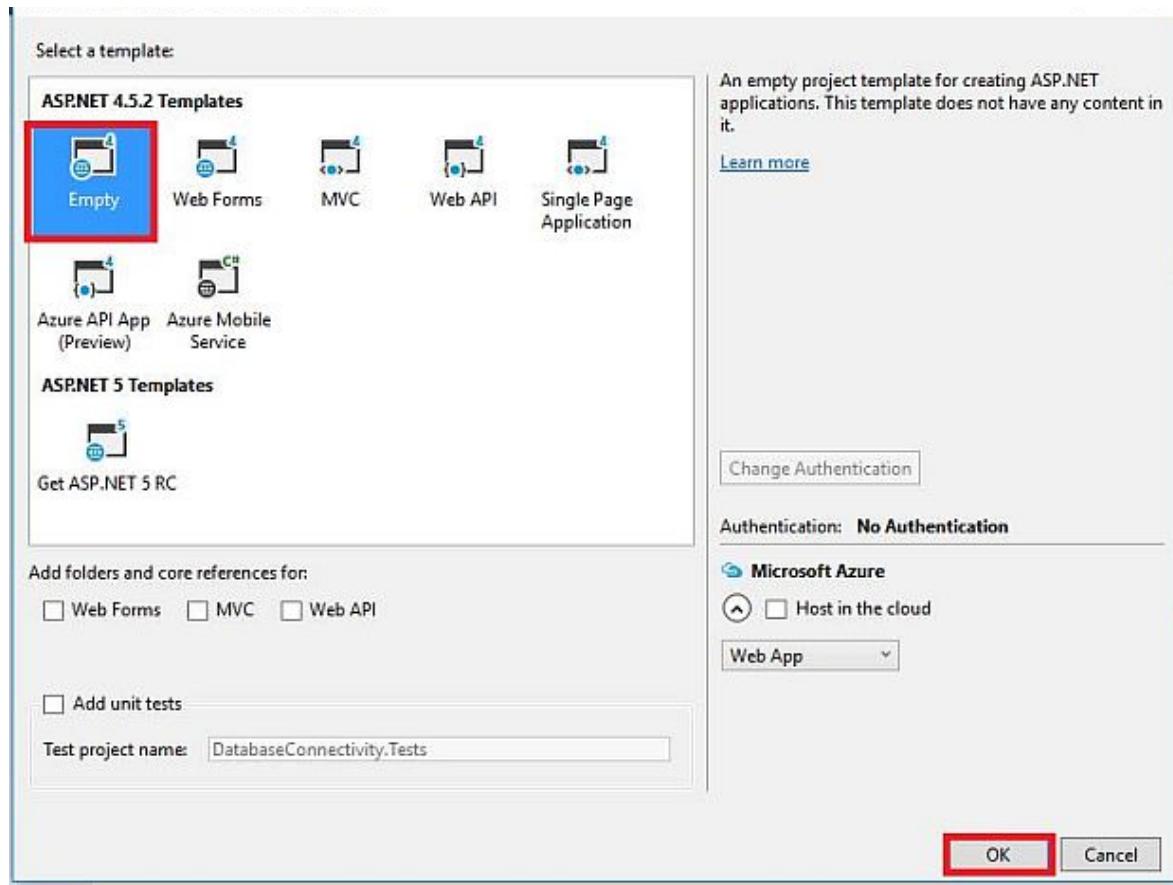
Step 2

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



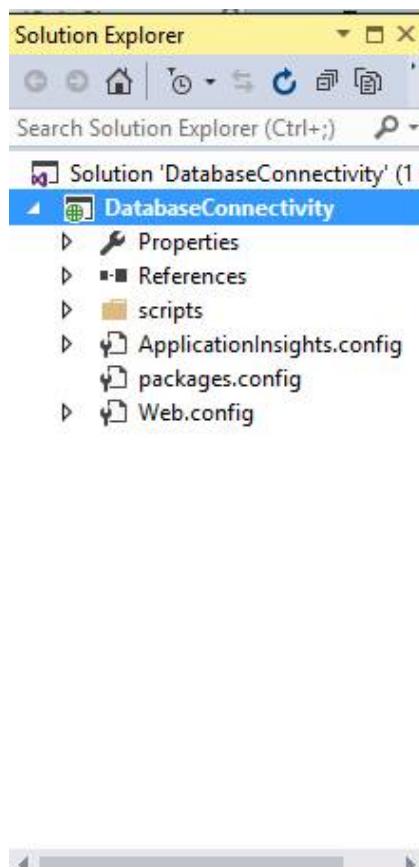
Step 3

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

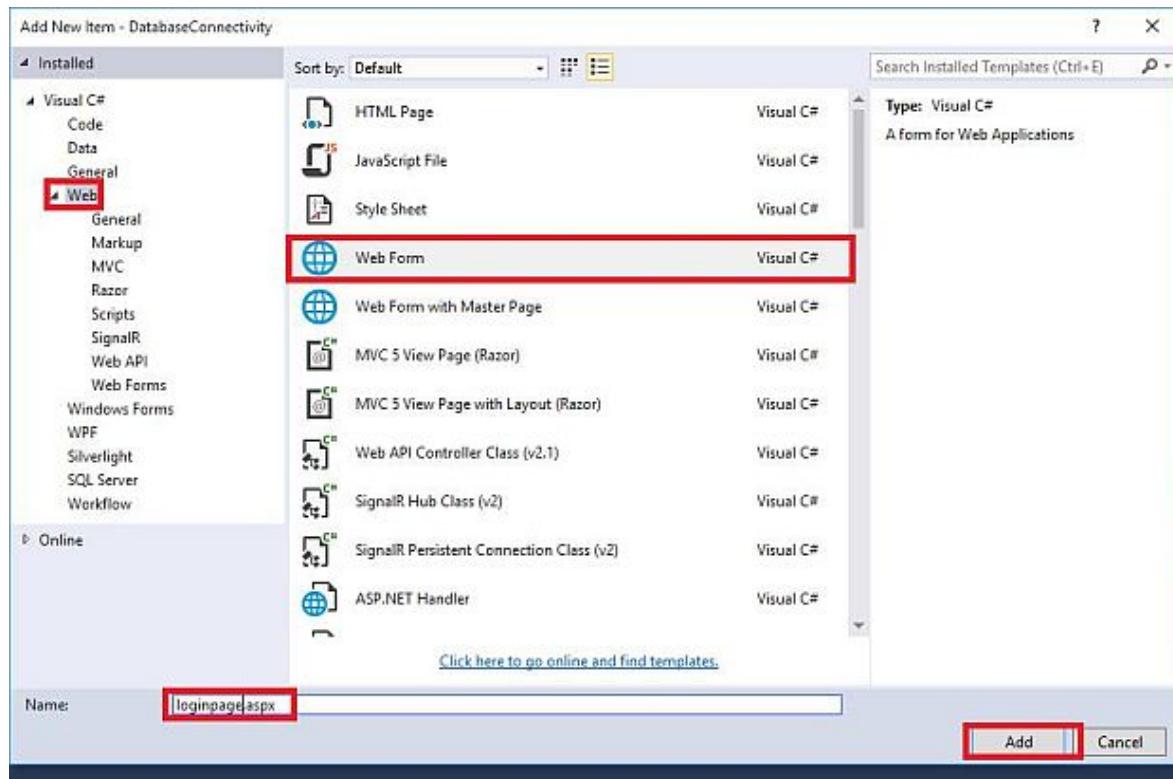


Step 4

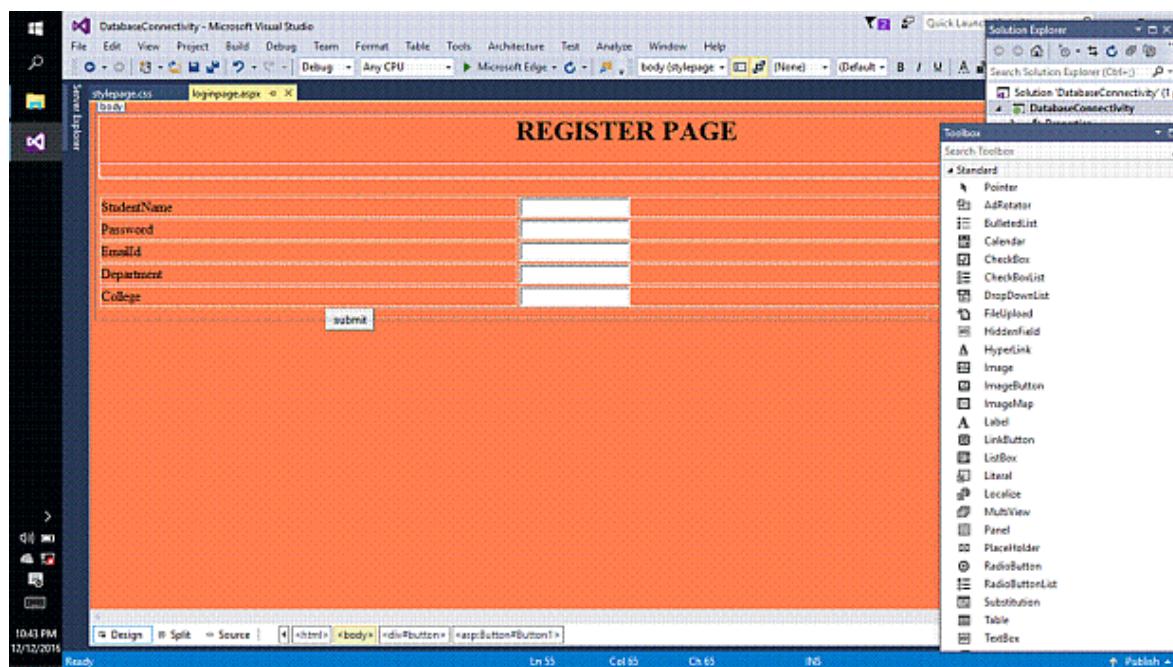
Now, open the project and look for the Solution Explorer.



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



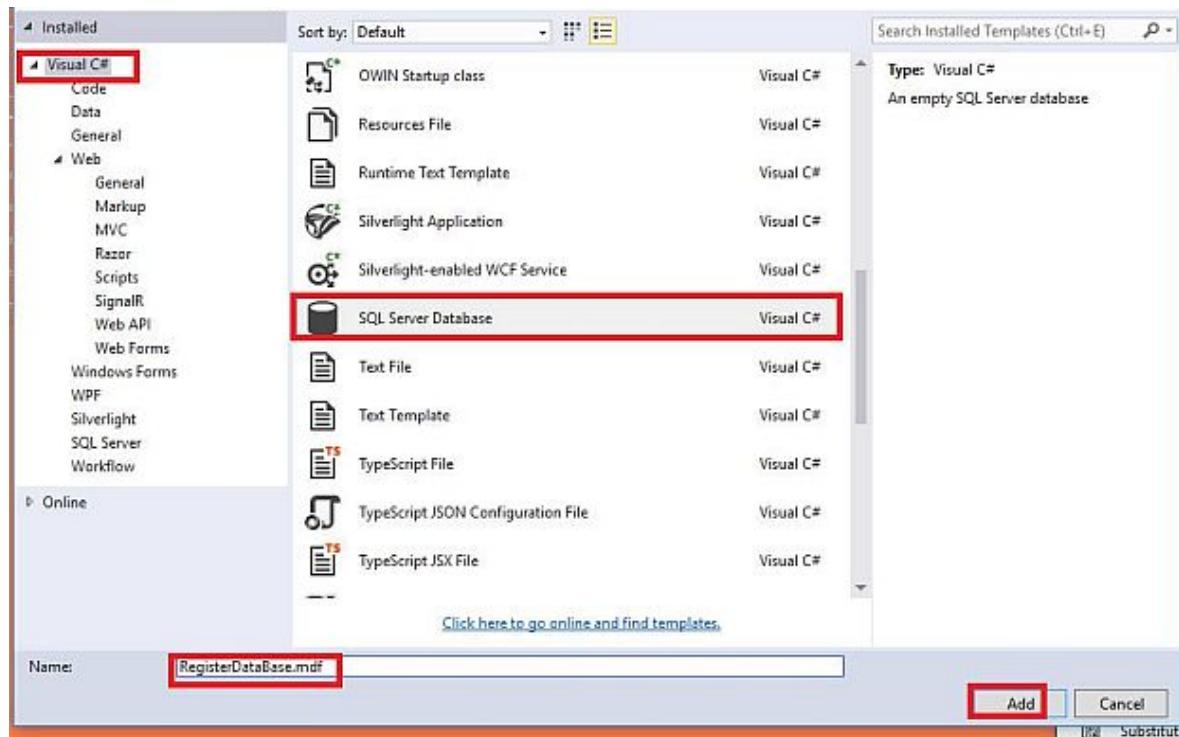
Now, we can create a login page, using ASP.NET code. You need to follow the drag and drop method. Here, we already created the login page.



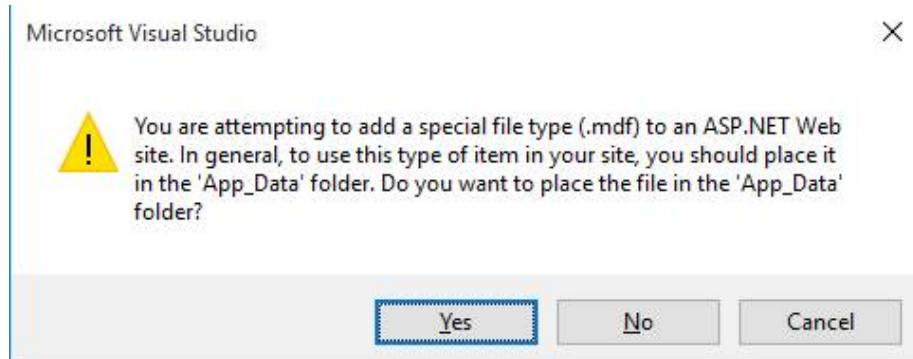
Step 5

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).

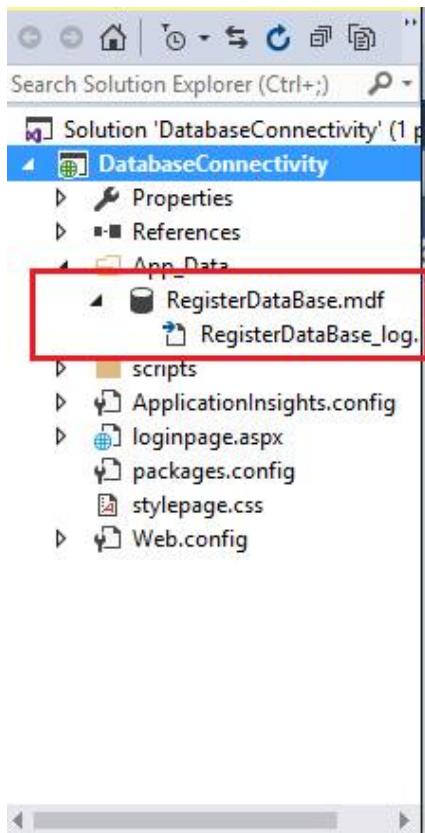
Here, you can select Visual C# and choose SQL Server database. Afterwards, click "OK" button..



Here, open the new Window and click YES button.

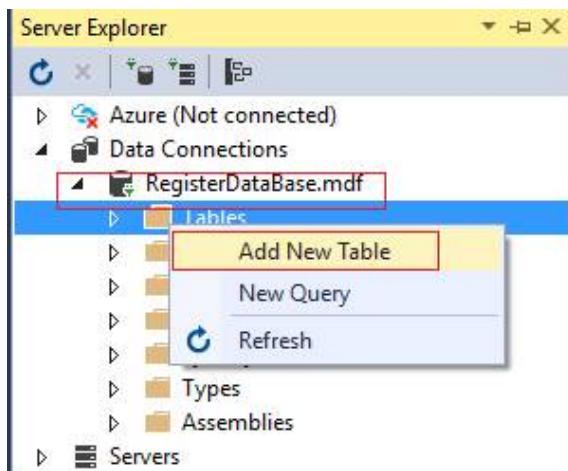


Now, add this to the database in our project.

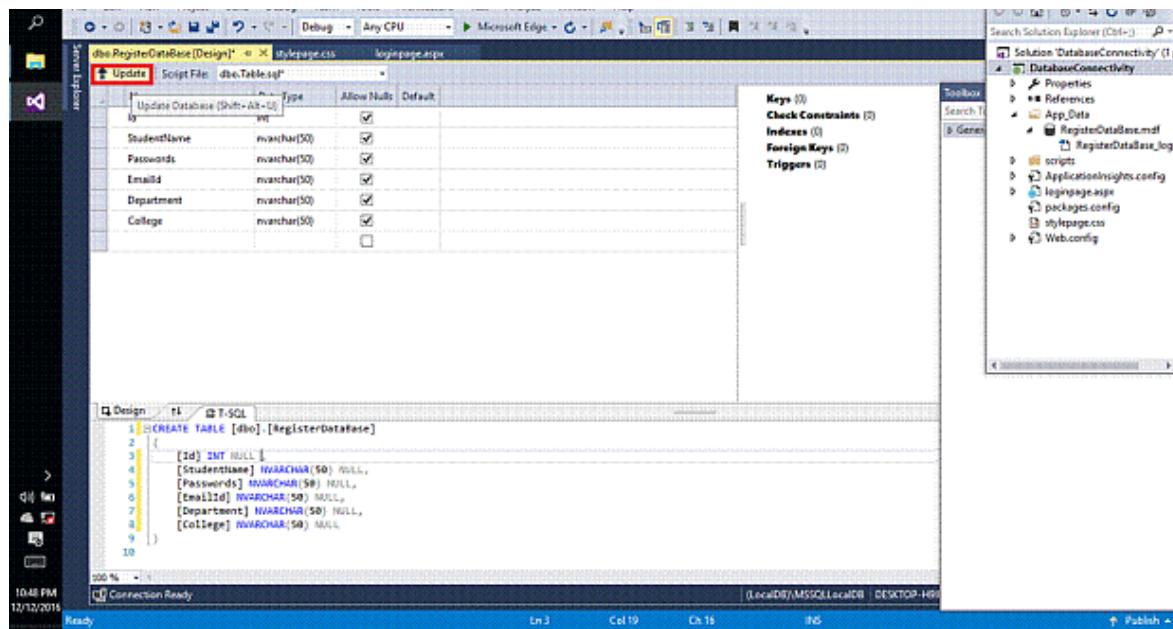


Step 6

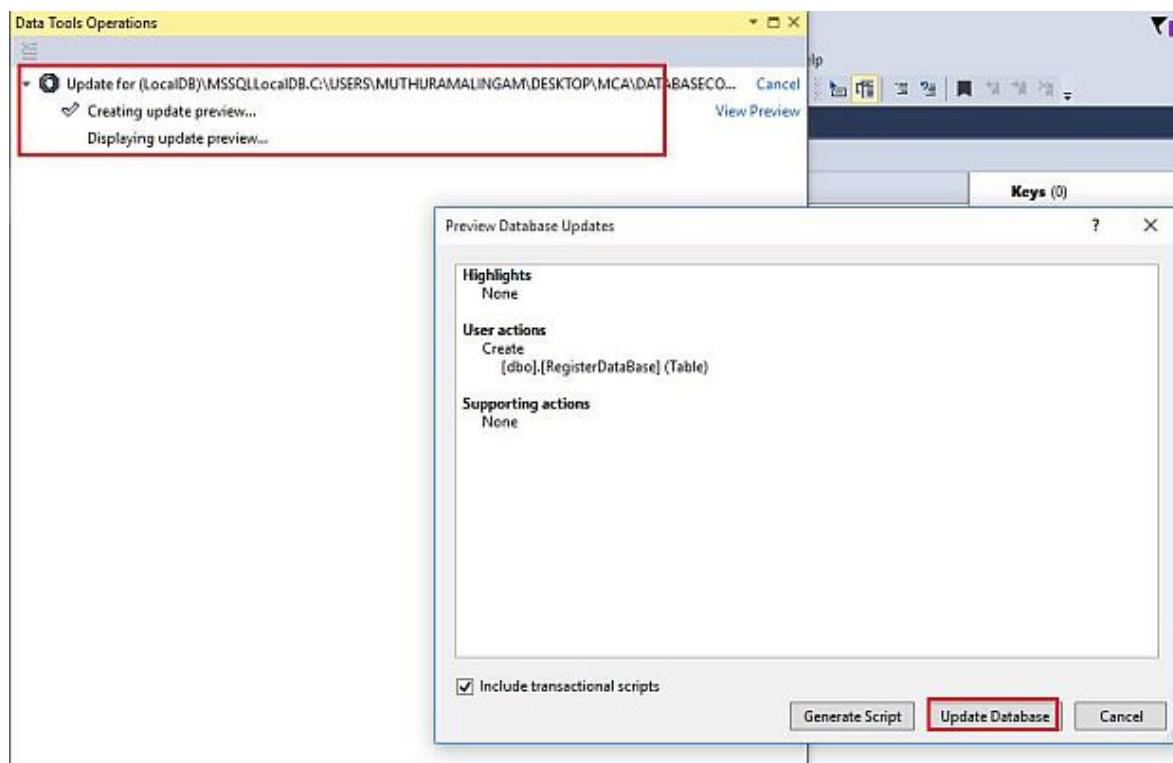
Now, we can go to the Server Explorer and add your database. You can click the Tables and afterwards, click Add New Table.



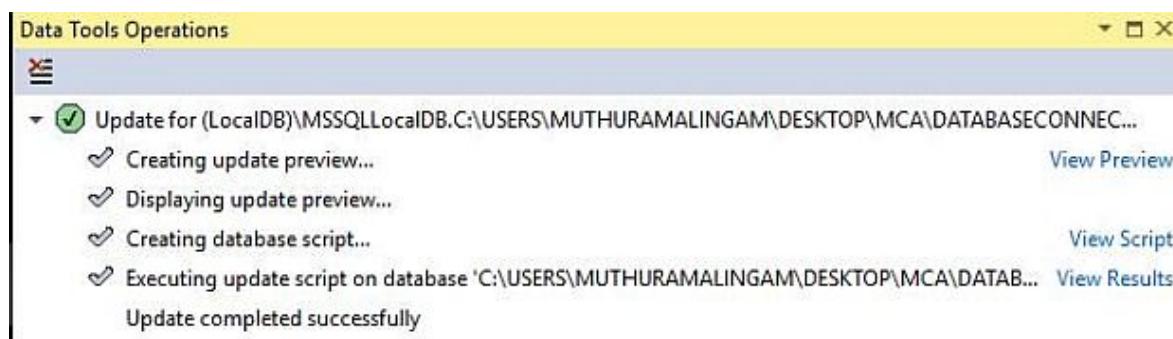
Now, open the new table and you can fill the data, which is like (studentname, password) and afterwards, you click the Update .

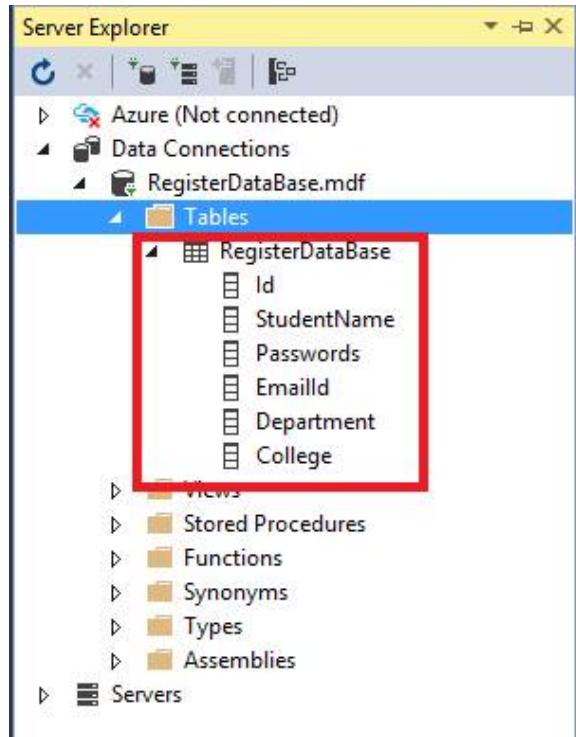


Here, click database in update and subsequently click update the database.

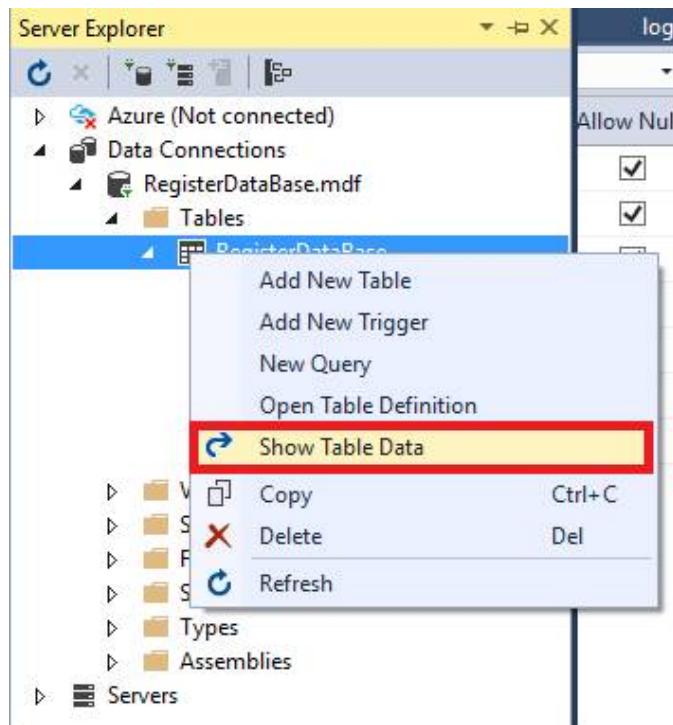


Here, the database is updated.





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

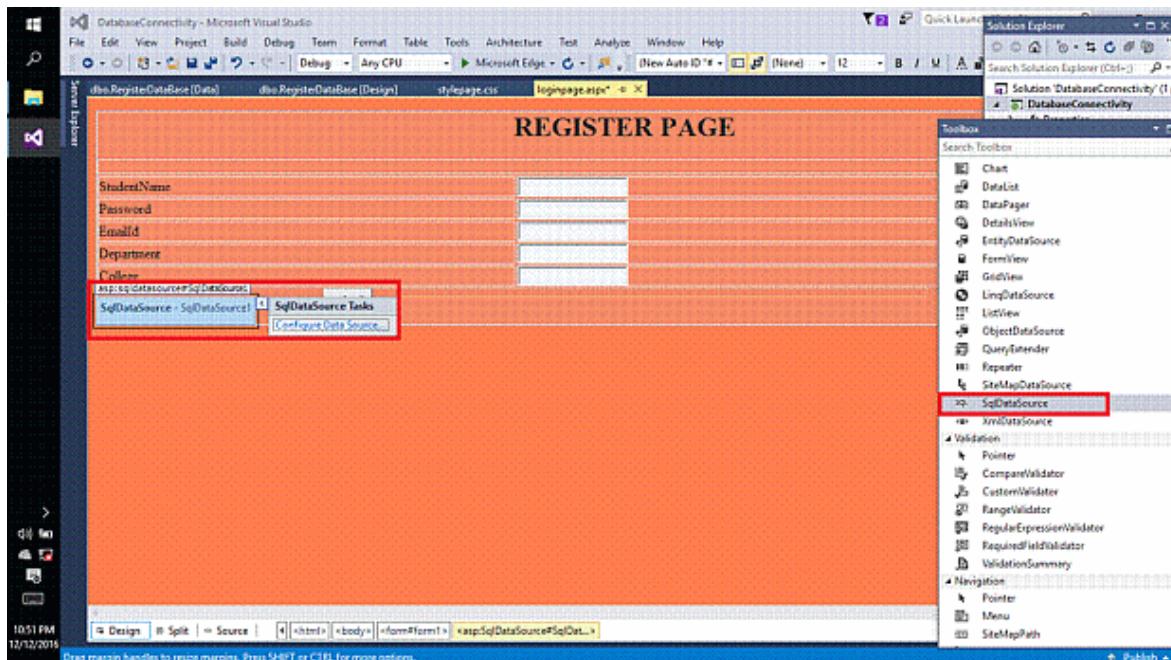


Now, the data is stored.

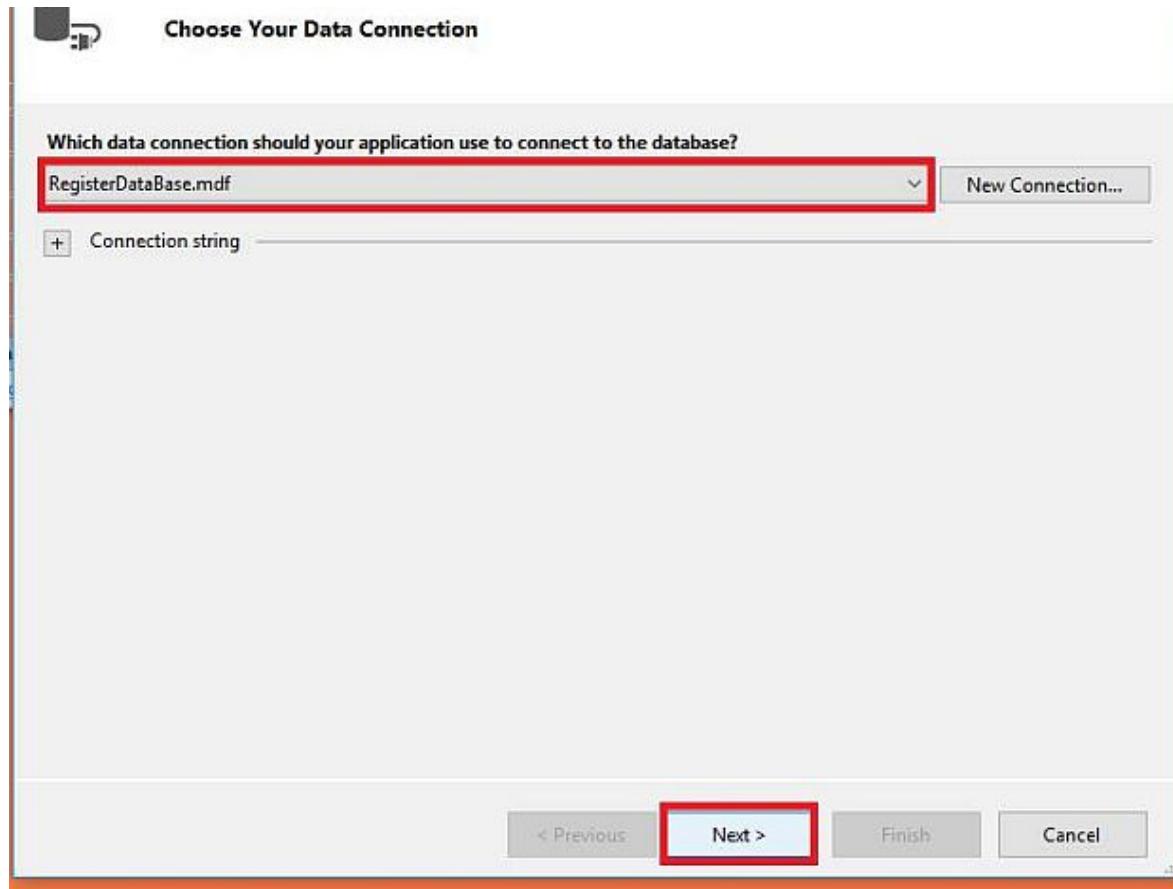
	Id	StudentName	Passwords	EmailId	Department	College
	1	Muthuramaling...	muthu	ramdurai25@g...	MCA	Paavai
	NULL	NULL	NULL	NULL	NULL	NULL

Step 7

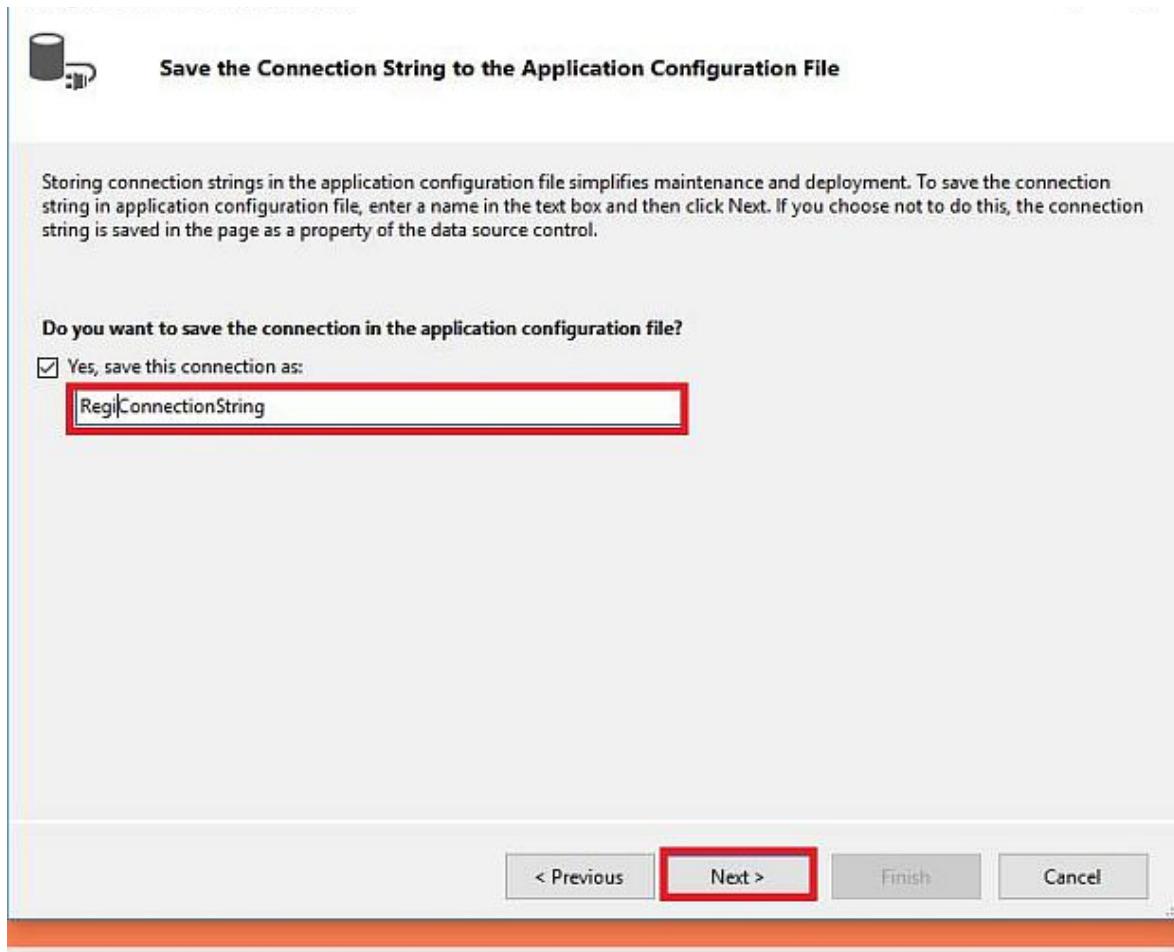
Now, you can add SQL Data Source. Drag and drop method. Here, click Configure Data Source



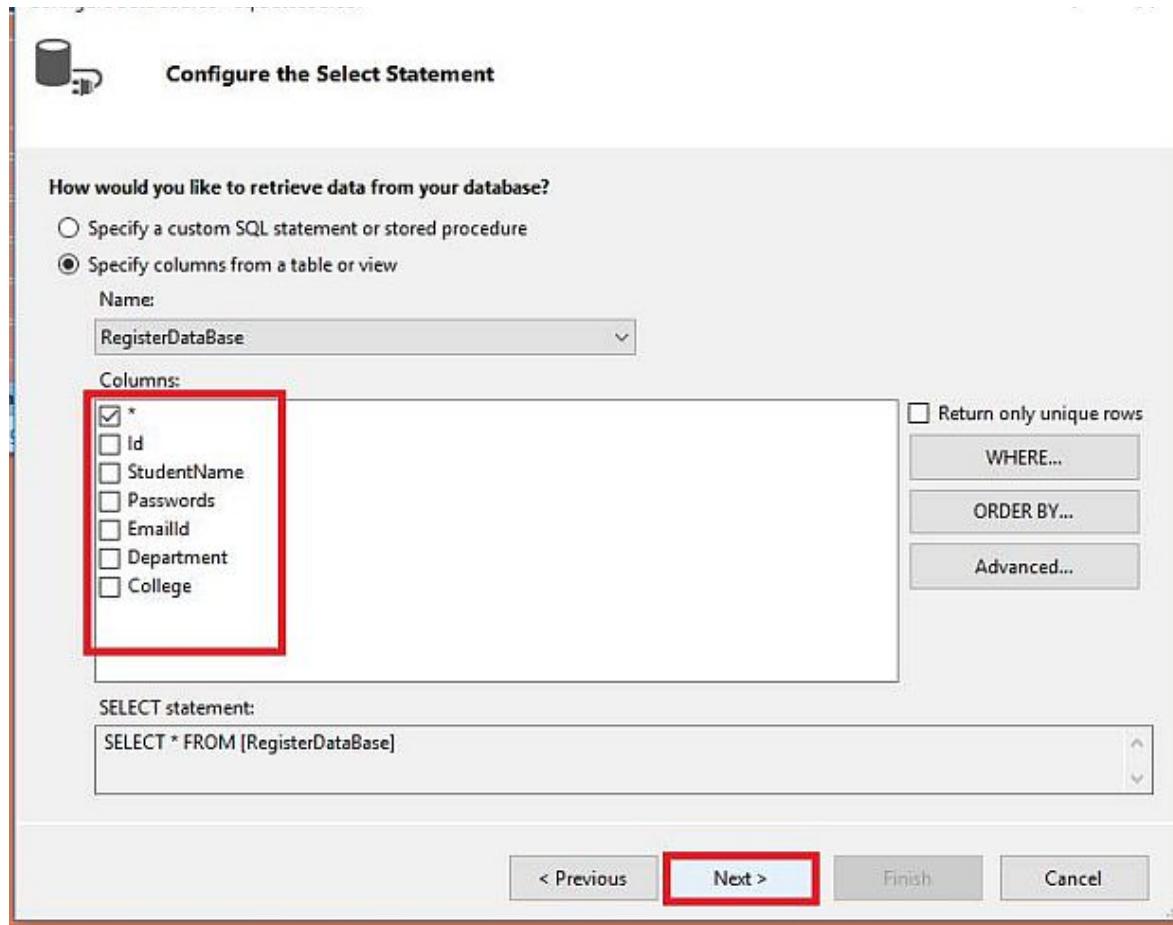
Now, we can choose your database and click NEXT button.



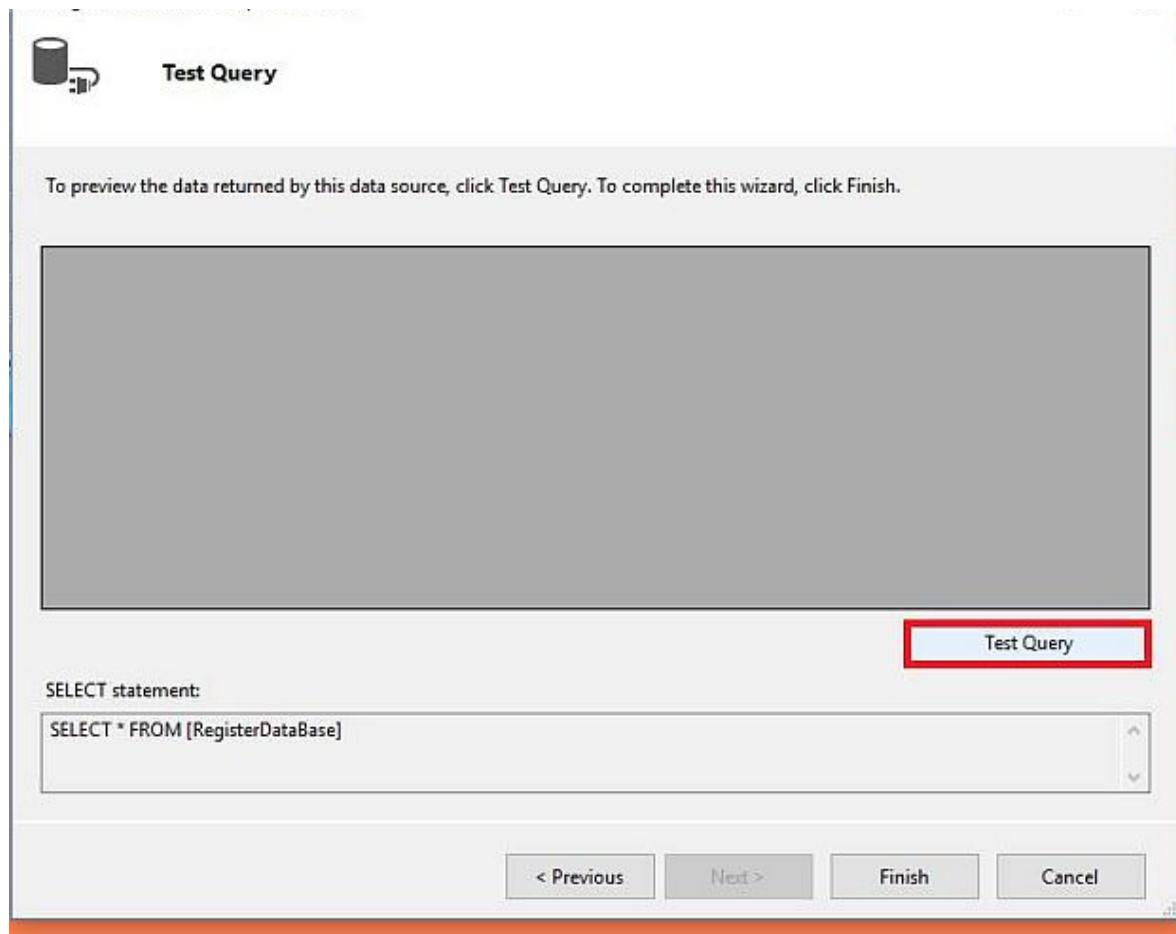
Now, you can select the ConnectionString and Click NEXT button



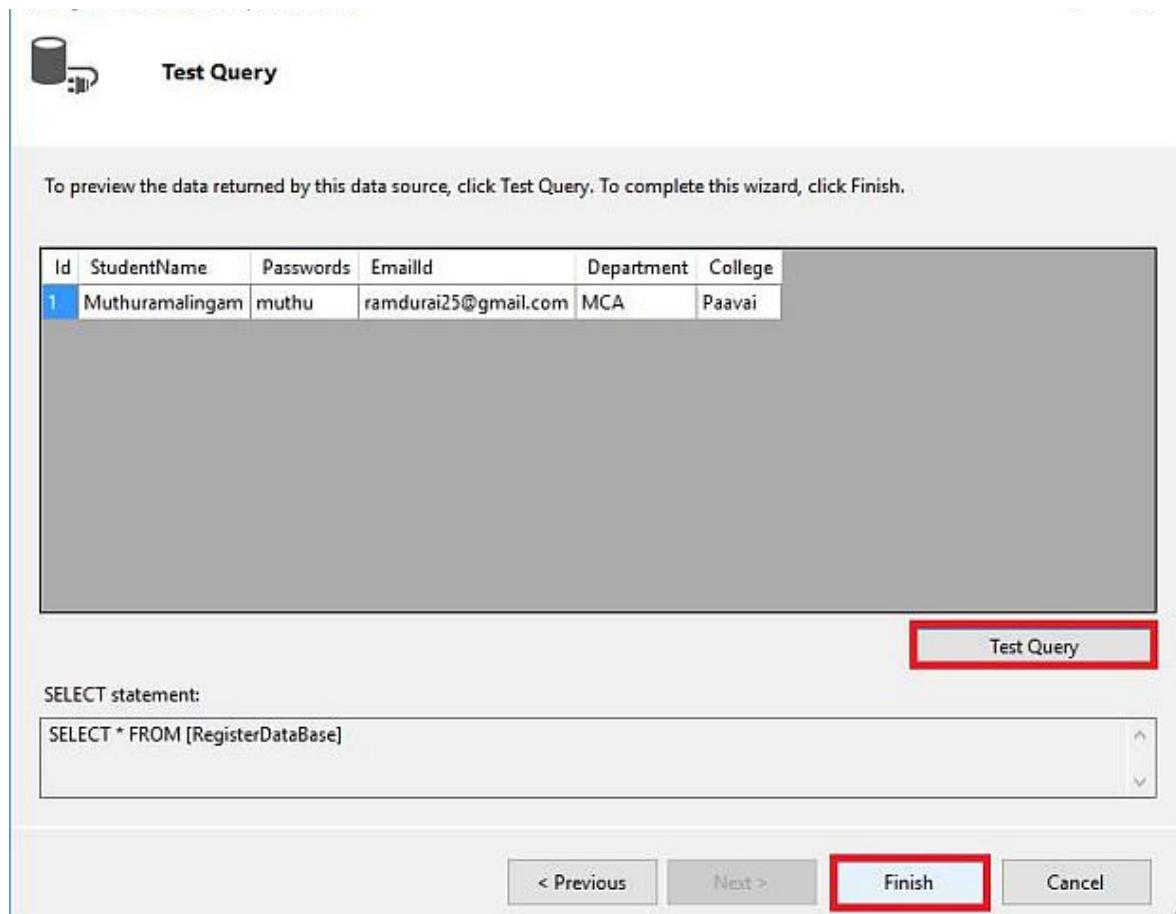
Now, we can choose Specify columns from a table or view and afterwards, click Next button.



Now, click Test Query.



Here, add the data and click Finish button.



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\l
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(StudentNa
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 y
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 ="table"></div>
21.         <table class="auto-style1">
22.             <tr>

```

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

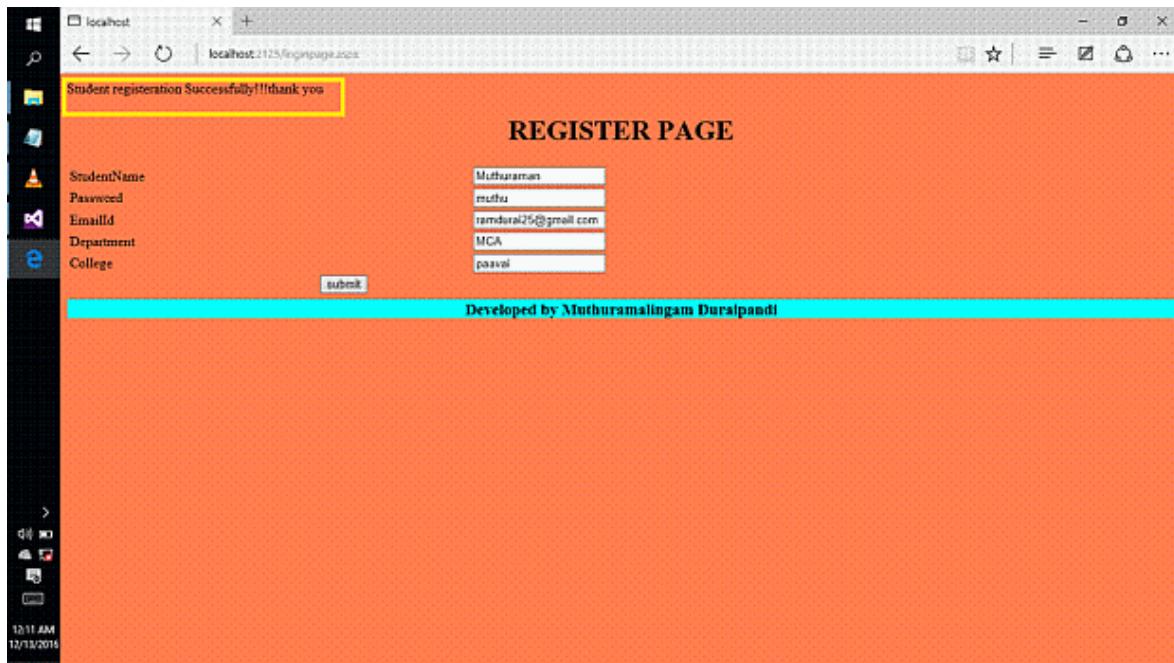
```

12.          <HeaderStyle BackColor="#5D995D" - 
Bold="True" ForeColor="White" />
73.          <PagerStyle BackColor="#284775" ForeColor="White" HorizontalAlign="Center" 
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>

```

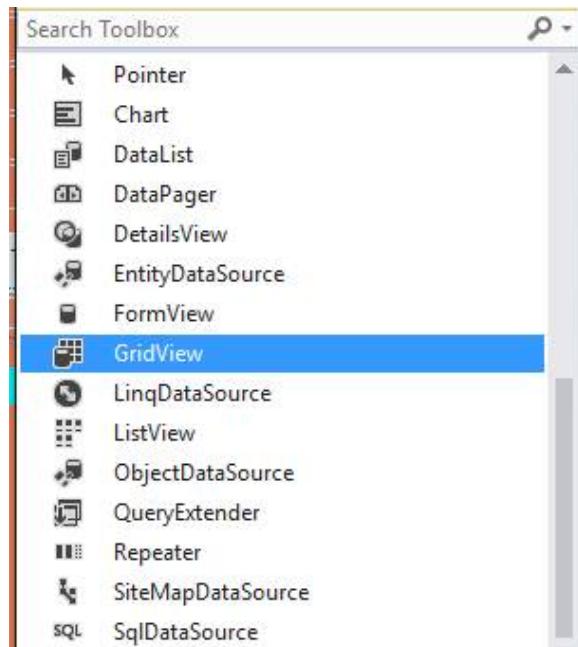
Step 9

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.

The screenshot shows the Visual Studio design surface with a GridView control. The 'Choose Data Source:' dropdown menu is open, and 'SqlDataSource1' is selected, highlighted with a red box. The GridView displays five rows of data with columns labeled Column0, Column1, and Column2, all containing the value 'abc'.

Here, the database data is added to GridView.

The screenshot shows the Visual Studio design surface with a GridView control. The 'Choose Data Source:' dropdown menu is open, and 'SqlDataSource1' is selected. The GridView displays ten rows of data from a database table, with columns labeled Id, StudentName, Passwords, EmailId, Department, and College, all containing the value 'abc'. The 'GridView Tasks' panel on the right shows checkboxes for Enable Paging, Enable Sorting, and Enable Selection, with the first two checked.

Step 11

view the data.

The screenshot shows a web browser window with the URL `localhost:2125/loginpage.aspx`. The page title is "REGISTER PAGE". A success message "Student registration Successfully!!!thank you" is displayed. Below it is a data grid showing student registration details:

ID	StudentName	Password	EmailId	Department	College
1	Muthuramalingam	muthu	ramdurai25@gmail.com	MCA	paavai
	kartthy	lop	io@gmail.com	hr	paavai
	Muthuraman	muthu	ramdurai25@gmail.com	MCA	paavai
	vineth	vino	vineth@gmail.com	MCA	paavai

A footer banner at the bottom of the page reads "Developed by Muthuramalingam Duraipandi".

ASP.NET C# Database SQL Visual Studio 2015

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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

Feb 27, 2021

[7353 BALIRAM](#)

2062 2 0

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

Dec 06, 2019

[Eric Hart](#)

2056 8 0

0 0 Reply



You can view the detail steps here <https://www.youtube.com/watch?v=azfrqlI2VQ6U>
[sushil saini](#)

Dec 05, 2019

2053 11 0

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

Mar 29, 2019

[Sakshi Kaul](#)

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

Mar 26, 2019

[Sakshi Kaul](#)

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

Mar 13, 2019

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1959 105 0

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Asp TextBox Validation (Xhtml5), Element is not supported

Mar 13, 2019

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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

Mar 13,

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Database folder in note show table create option

PARMAR MEGHRAJ

2062 2 0

Feb 06, 2019

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