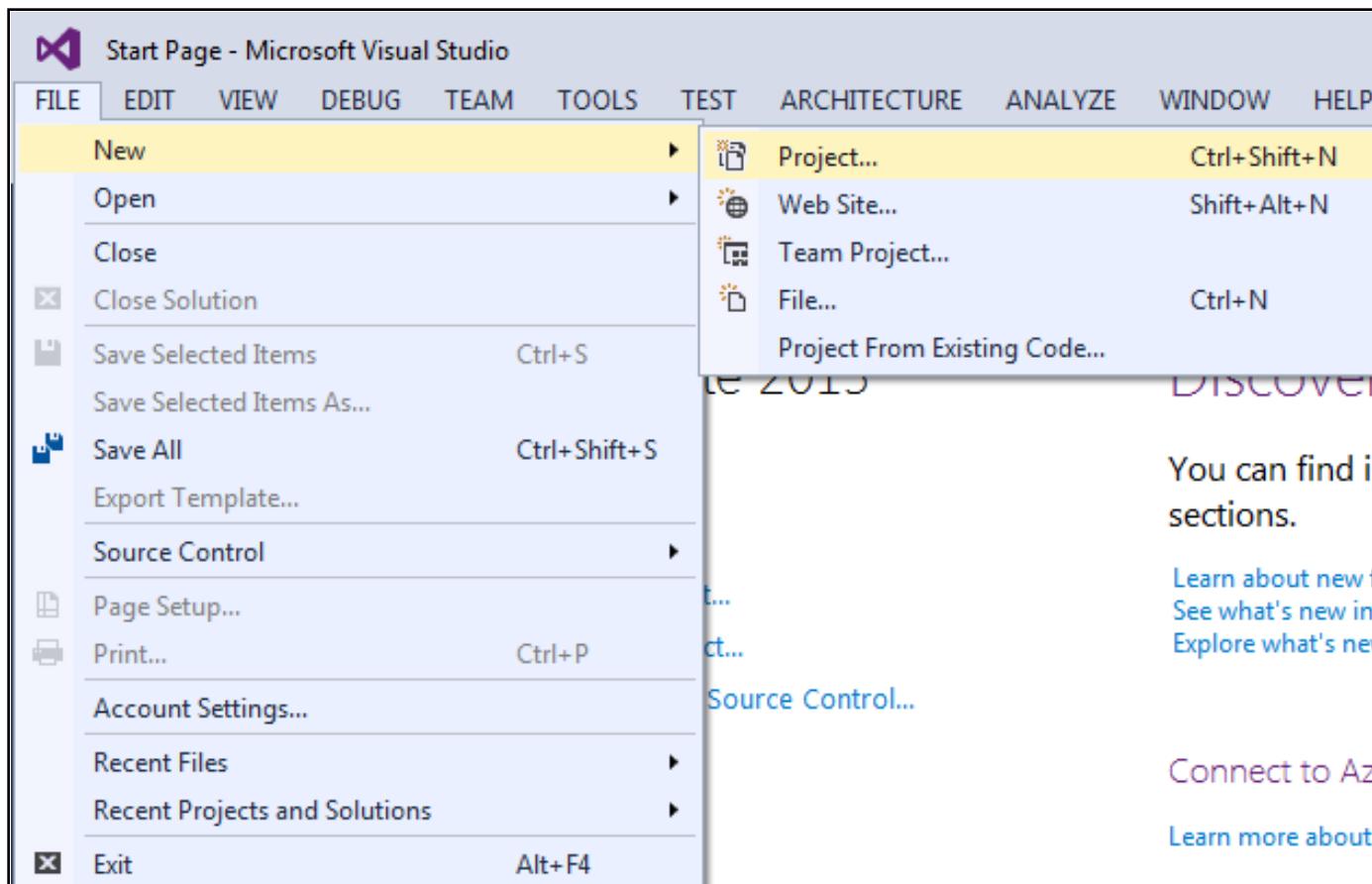
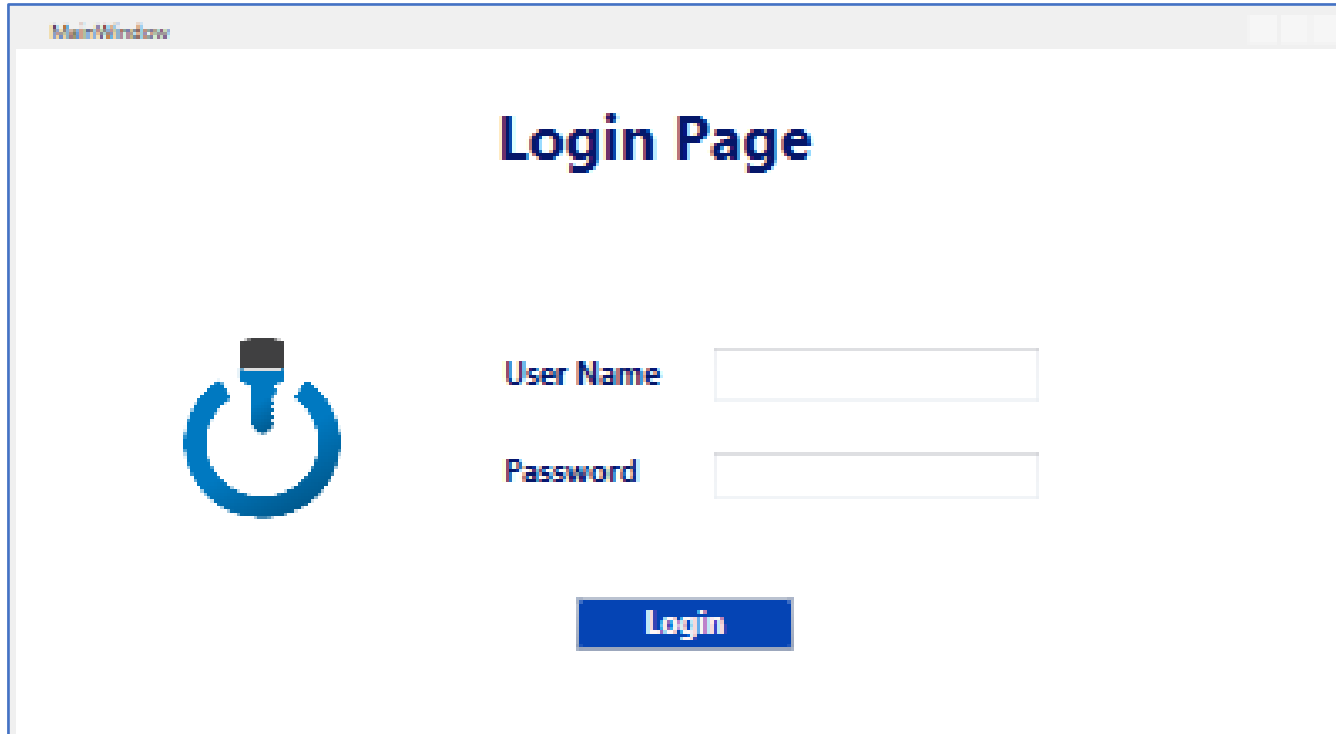


Connect SQL Server Database with Visual Studio C#

- In Microsoft Visual Studio,
- File -> New -> Project

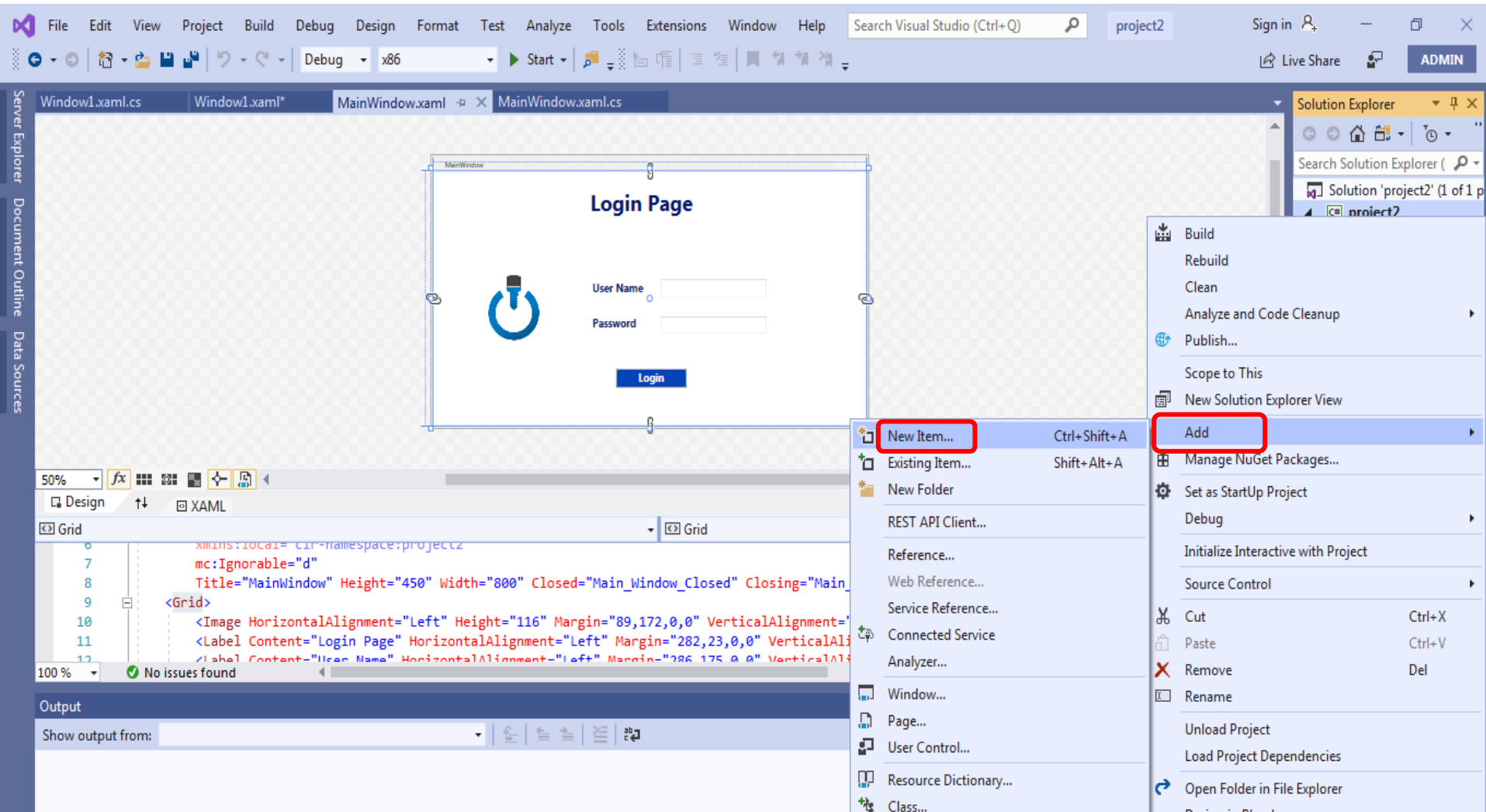


MainWindow.xaml

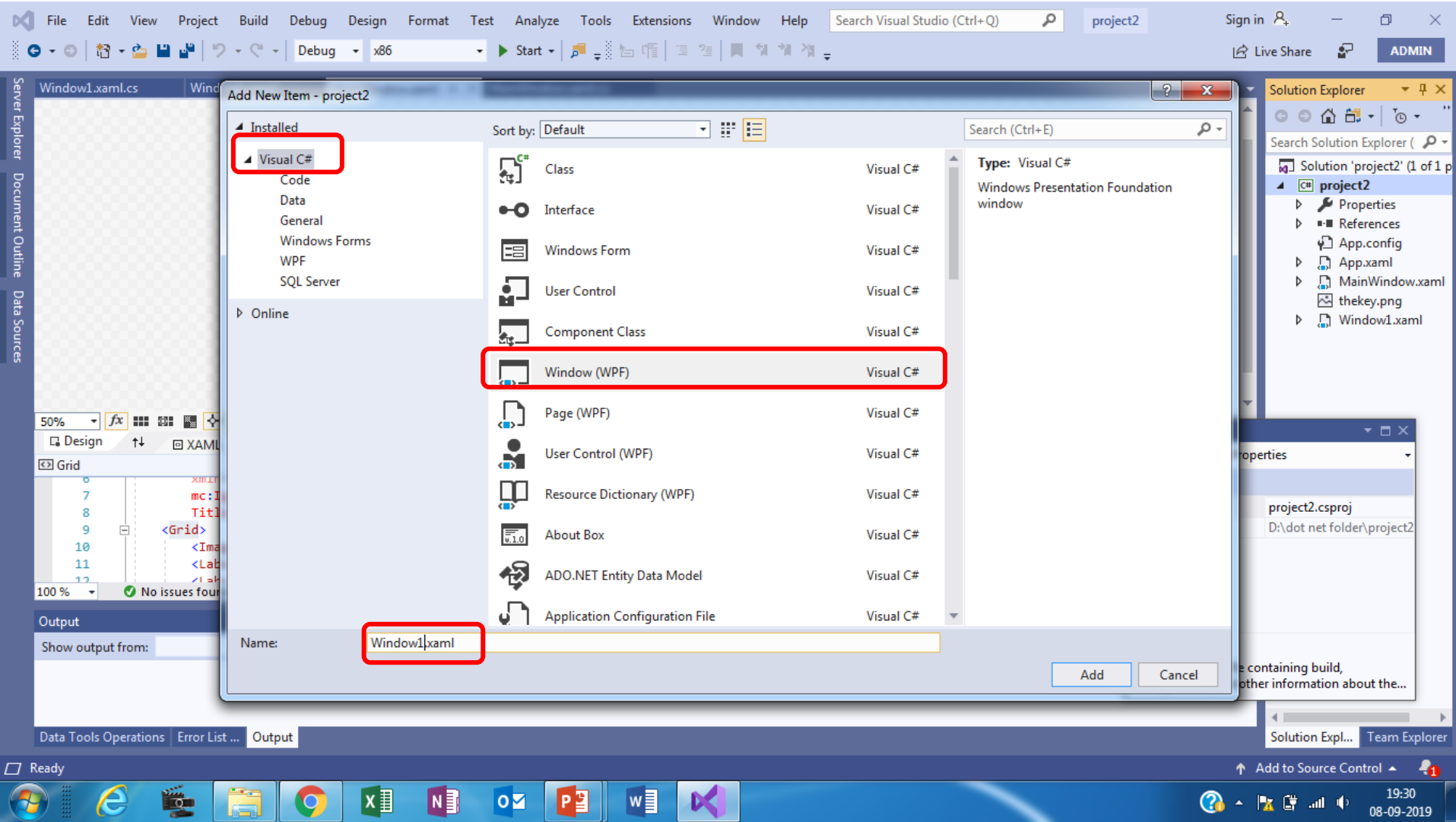


1. Right click on window.
2. Select properties.
3. You can set background color, foreground color, font color, font size etc.

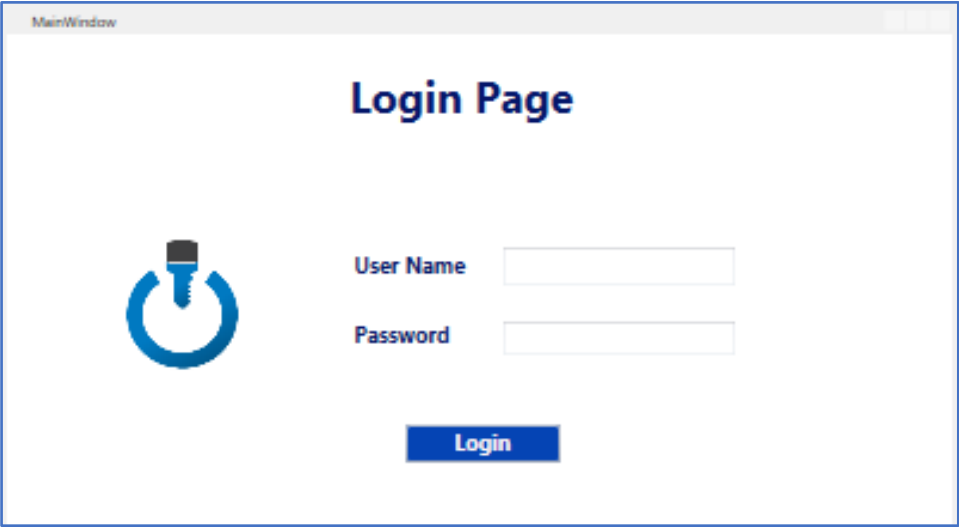
Create another Window – Window1



Create another Window – Window1

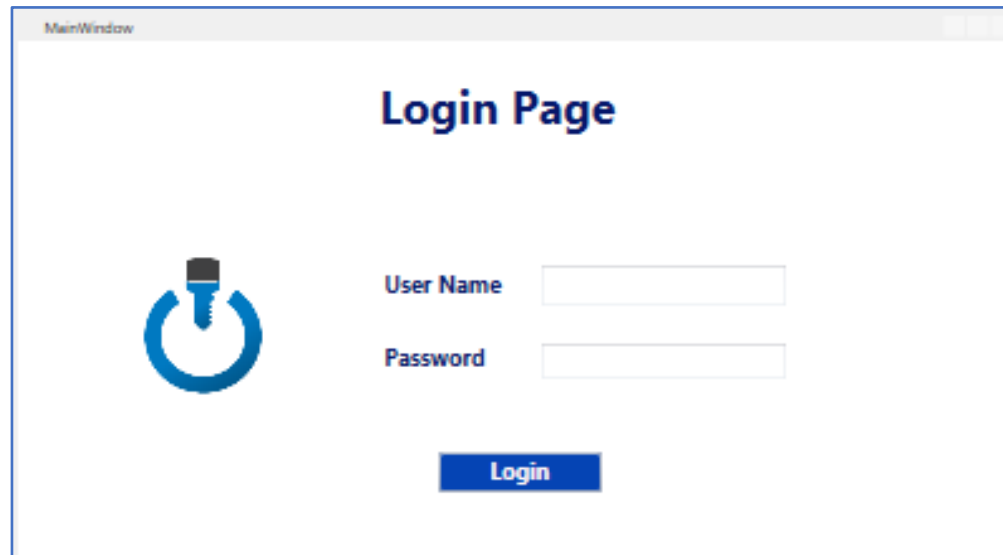


MainWindow.xaml



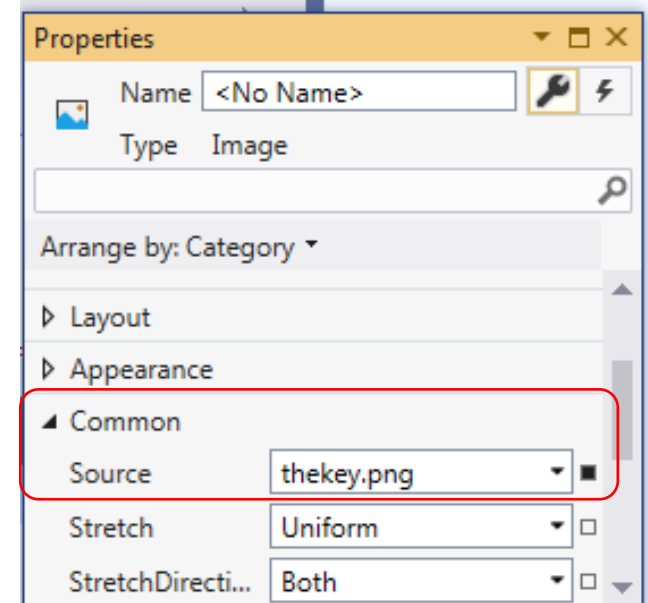
Tool	Content	Name (ID)
Label	Login Page	-
Label	User Name	-
Label	Password	-
TextBox		user
Password Box		pass
Button	Login	login

MainWindow.xaml



To insert image

- Drag and drop **Picture Box** from toolbox on to the Window.
- Right click picture Box.
- Click the common->Source
- Select the desired image.



MainWindow.xaml

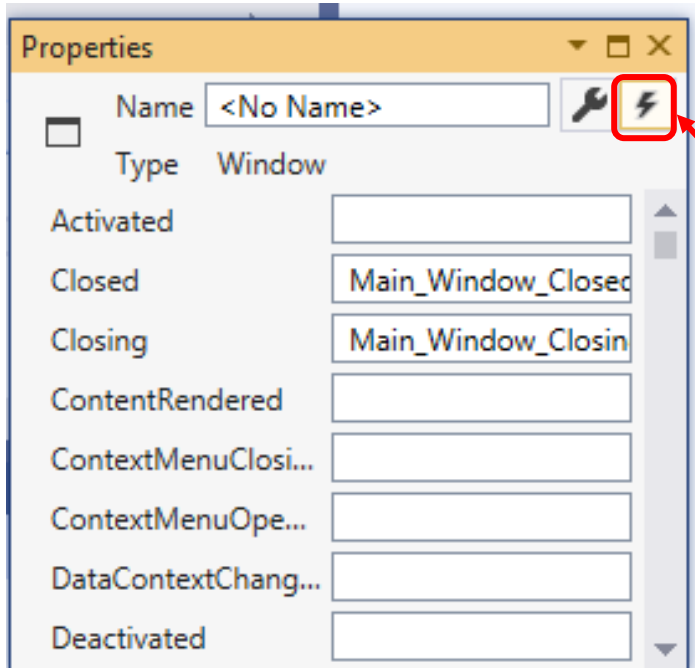
```
xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
xmlns:local="clr-namespace:project2"
mc:Ignorable="d"
Title="MainWindow" Height="450" Width="800" Closed="Main_Window_Closed" Closing="Main_Window_Closing" >|
<Grid>
```

In XAML section, add the following in <window> tag

Closed="Main_Window_Closed" Closing="Main Window_Closing"

MainWindow.xaml

```
xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
xmlns:local="clr-namespace:project2"
mc:Ignorable="d"
Title="MainWindow" Height="450" Width="800" Closed="Main_Window_Closed" Closing="Main_Window_Closing" >
<Grid>
```



- Select properties of MainWindow
- Select Events
- Select Closed
- Press Enter
- Method will be opened.

MainWindow.xaml.cs

```
private void Main_Window_Closed(object sender, EventArgs e)
{
    Application.Current.Shutdown();
}
```

Similarly

```
private void Main_Window_Closing(object sender, System.ComponentModel.CancelEventArgs e)
{
    System.Diagnostics.Process.GetCurrentProcess().Kill();
}
```

MainWindow.xaml.cs

```
private void Login_Click(object sender, RoutedEventArgs e)
{
    string n1, n2;
    n1 = user.Text;
    n2 = pass.Password;
    if (n1 == "admin" && n2 == "admin")
    {
        MessageBox.Show("Logged in successfully");
        Window1 f2 = new Window1();
        this.Hide();
        f2.ShowDialog();
    }
    else
    {
        MessageBox.Show("Invalid username/password");
        this.Hide();
        System.Diagnostics.Process.GetCurrentProcess().Kill();
    }
}
```

Window1.xaml

Window1.xaml

Employee Database

EMP ID

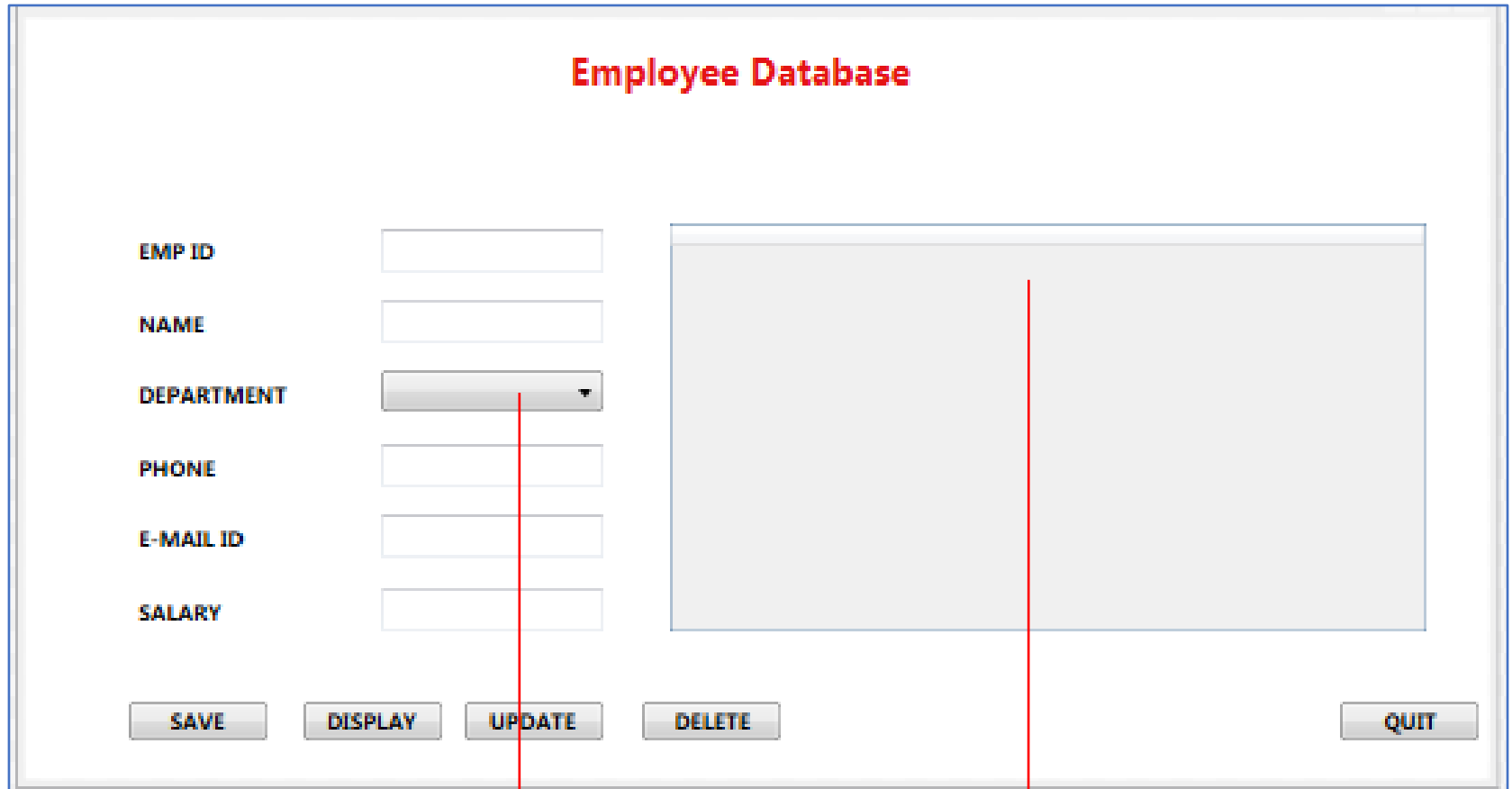
NAME

DEPARTMENT

PHONE

E-MAIL ID

SALARY



ComboBox

Data Grid View

Used to display table contents

Window1.xaml

Employee Database

EMP ID

NAME

DEPARTMENT

PHONE

E-MAIL ID

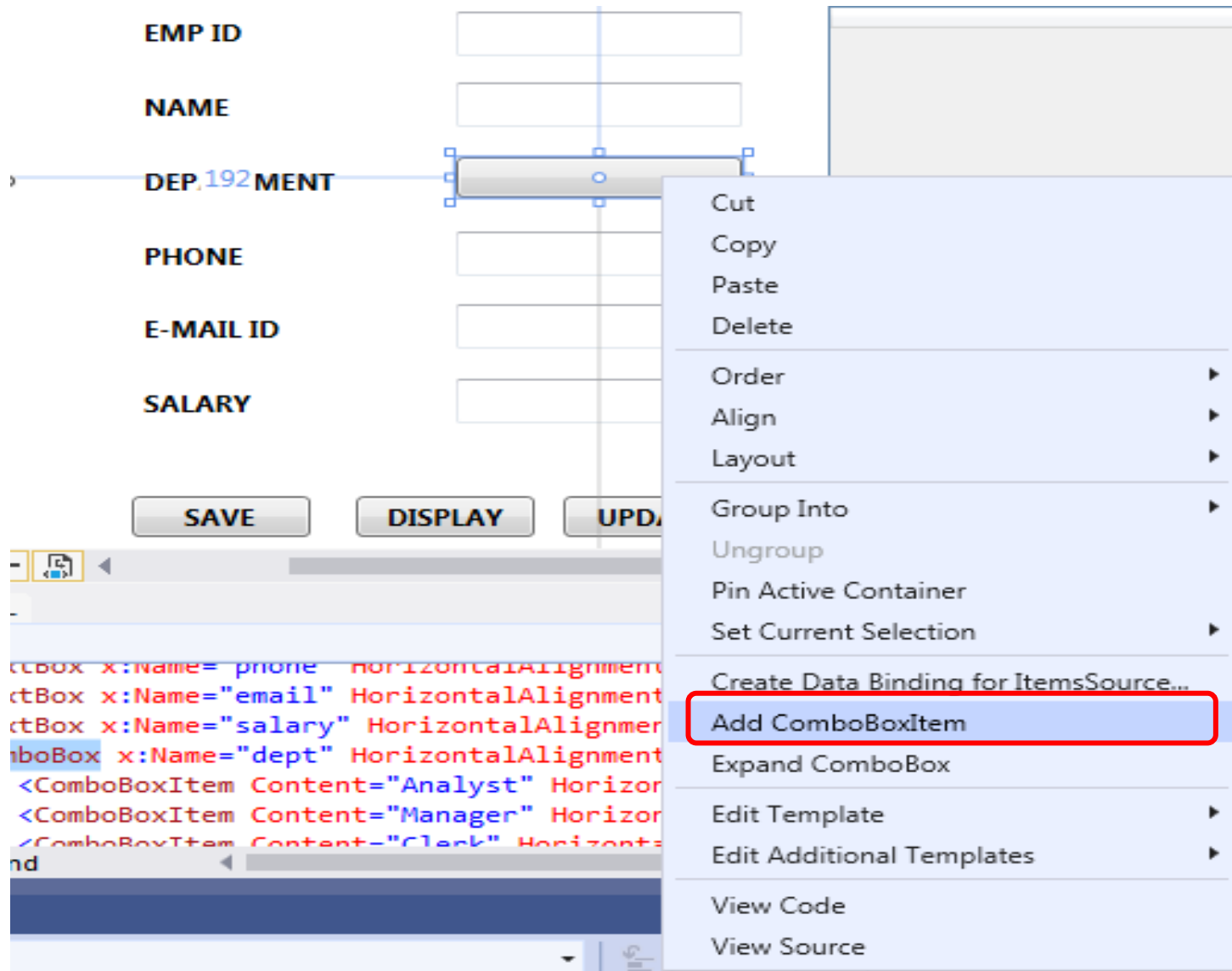
SALARY

Tool	Content
Label	Employee Database
Label	EMP ID
Label	NAME
Label	DEPARTMENT
Label	PHONE
Label	EMAIL-ID
Label	SALARY

Tool	Content	Name (ID)
DataGrid		grid
TextBox		name
ComboBox		dept
TextBox		phone
TextBox		email
TextBox		salary

Tool	Content	Name (ID)
Button	SAVE	save
Button	DISPLAY	display
Button	UPDATE	update
Button	DELETE	delete
Button	QUIT	quit

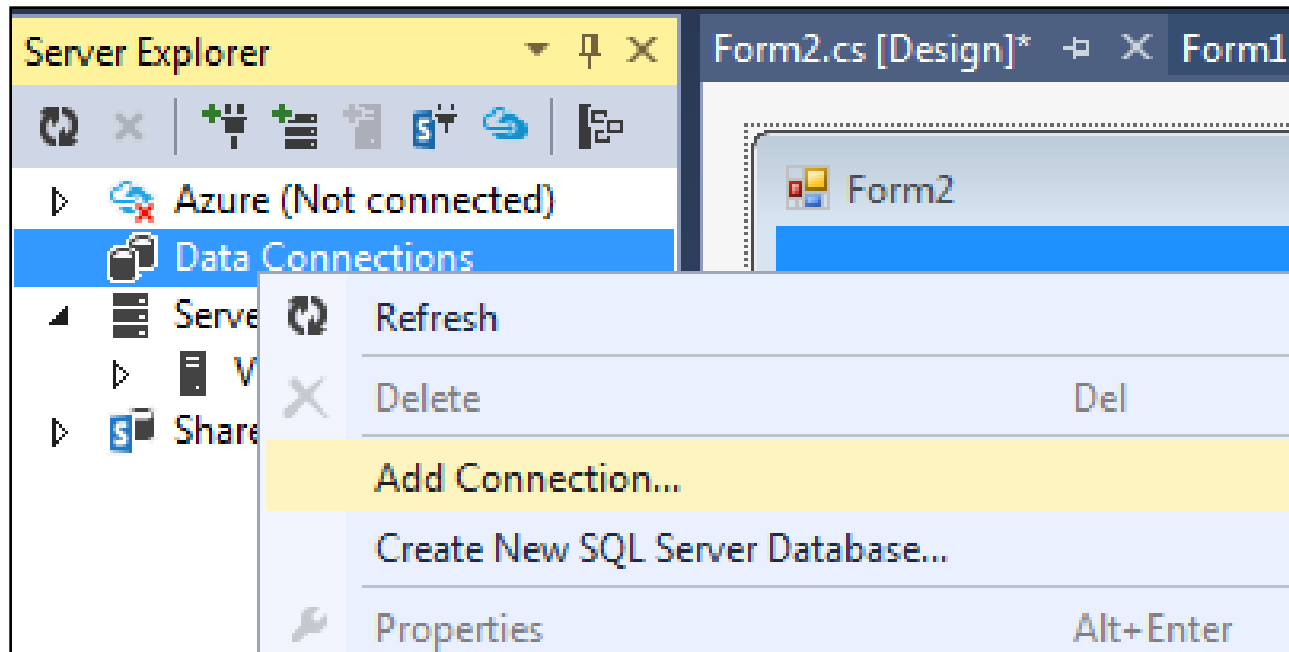
To add items to ComboBox



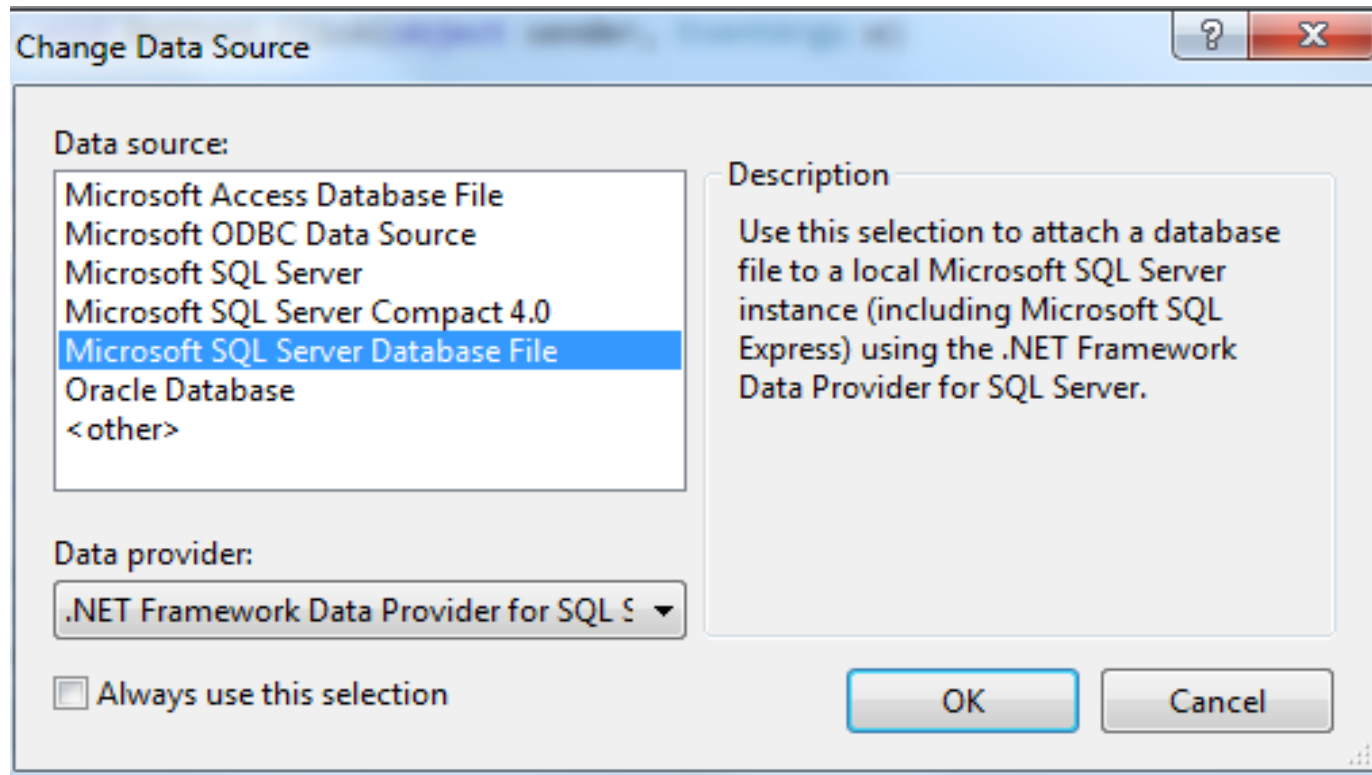
Connect to database

Connect to database

- Click View, **Server Explorer**
- Right click on Data Connections, select **Add connection.**



Connect to database

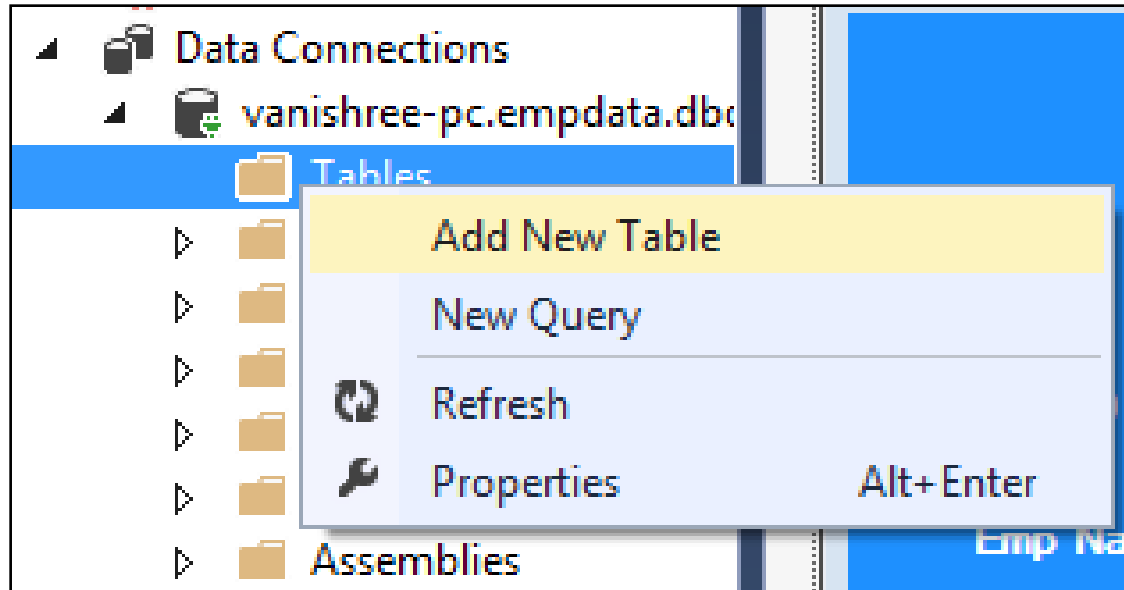


Select or enter database name :

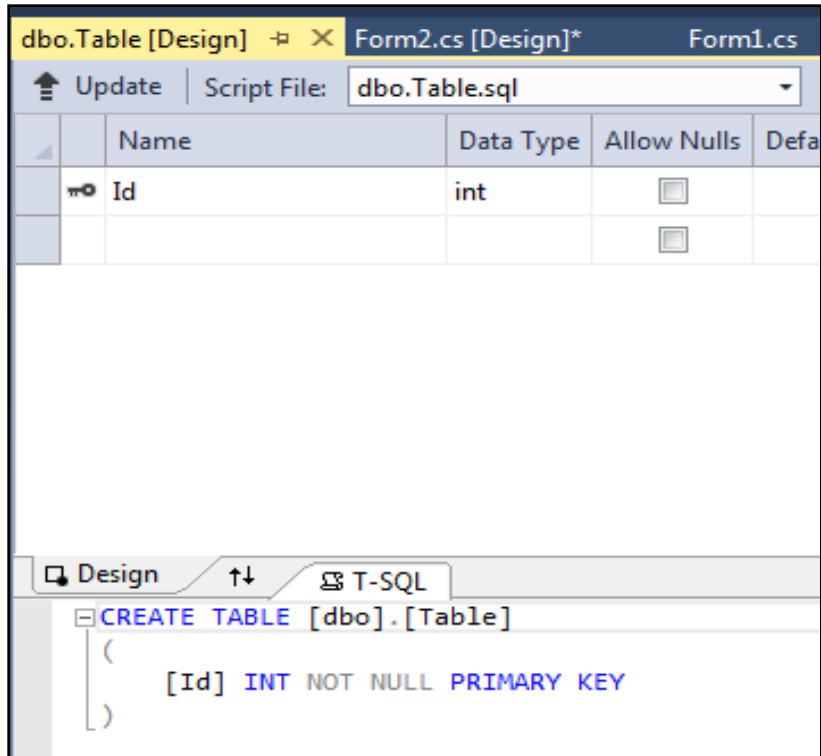
empdata

Click OK

Connect to database



Connect to database

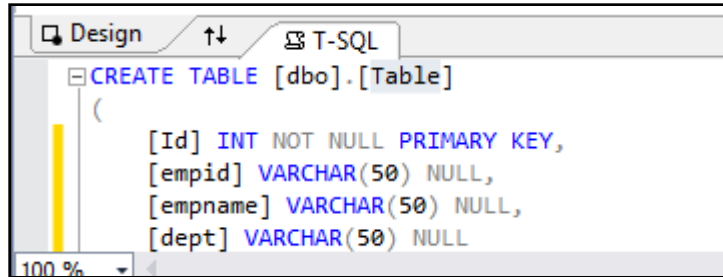


Add Columns and data types.

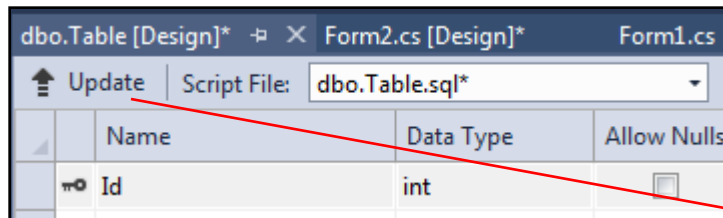
	Name	Data Type	Allow Nulls	Default
PK	Id	int	<input type="checkbox"/>	
	empid	varchar(50)	<input checked="" type="checkbox"/>	
	empname	varchar(50)	<input checked="" type="checkbox"/>	
	dept	varchar(50)	<input checked="" type="checkbox"/>	
			<input type="checkbox"/>	

1. Delete ID Row.
(Right click ID, select delete)
2. Select empid as primary key.
(Right click empid, select set as primary key)

Connect to database

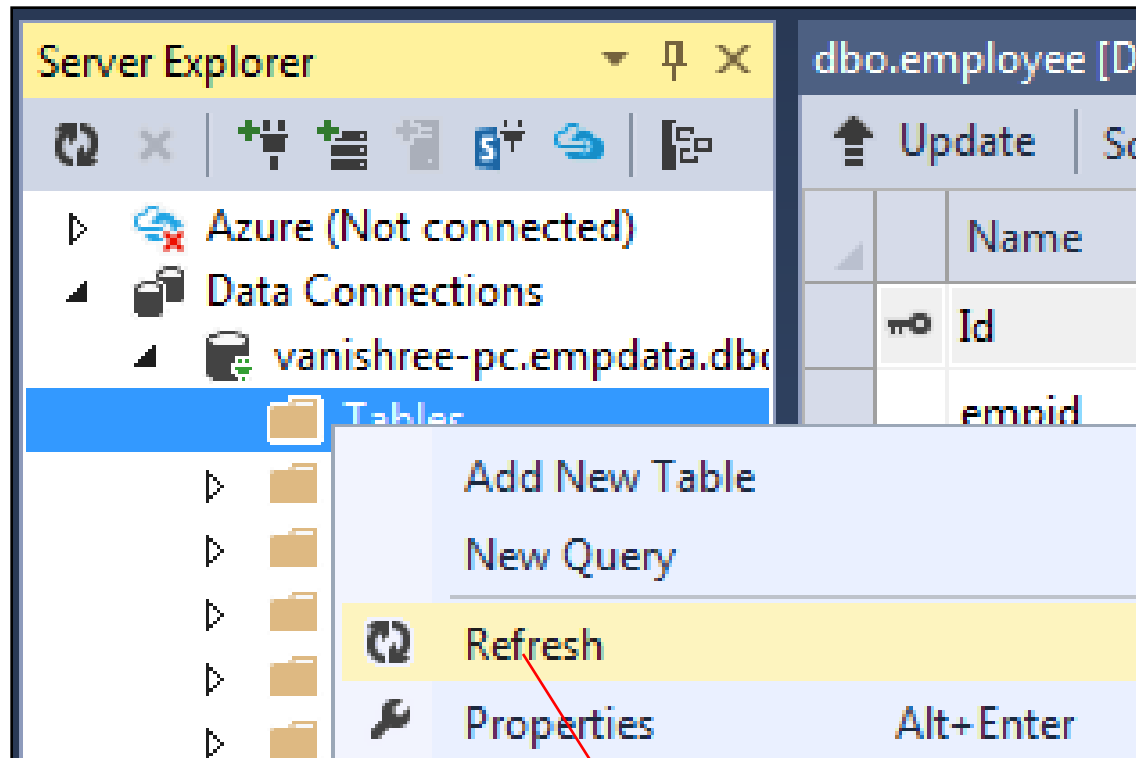


Change Table as
employee



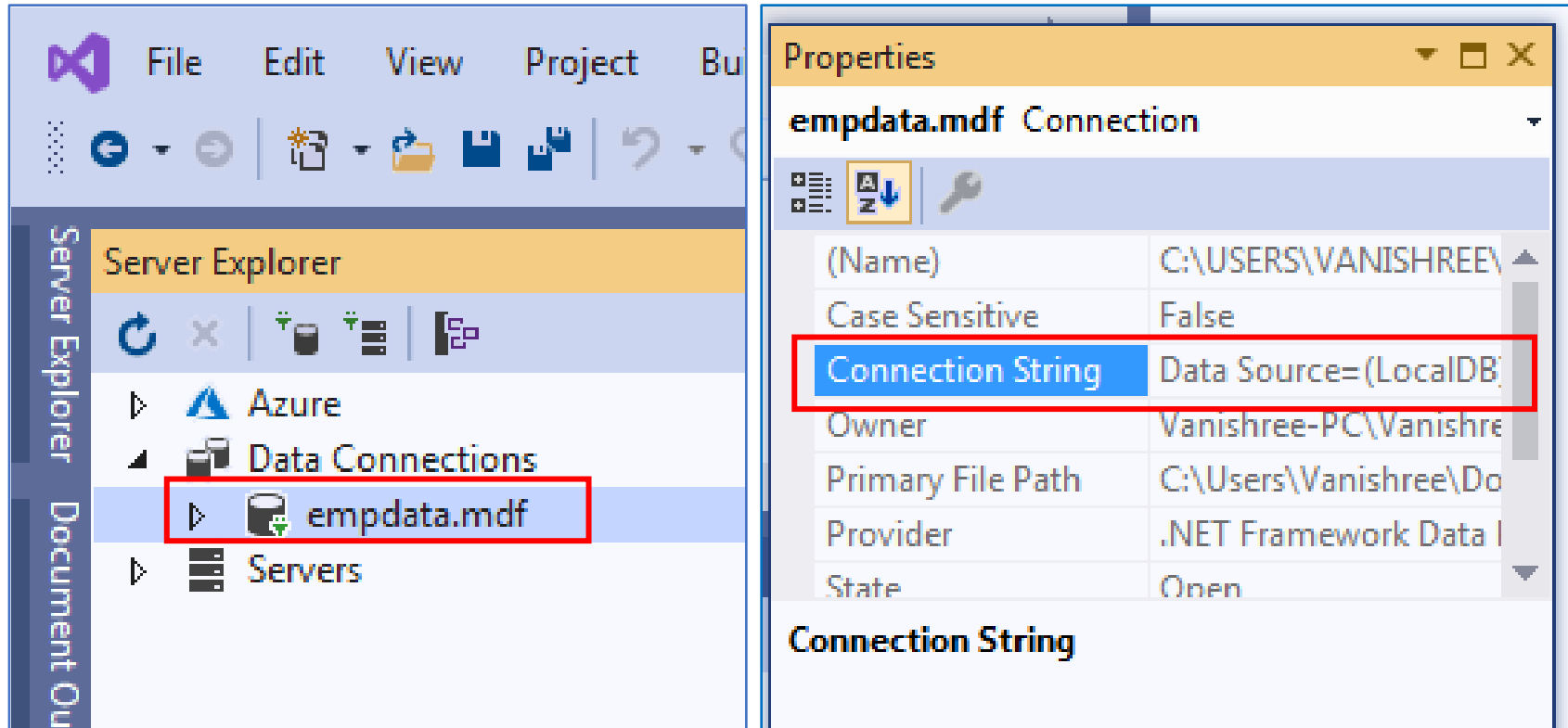
Click on **update**

Connect to database



Click on refresh

Connection String



Click on Connection String :
Copy the string

“Data Source

=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Vanishree\Documents\empdata.mdf;Integrated Security=True;Connect Timeout=30”

And paste it in Window1.xaml.cs

Window1.xaml.cs

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

```
public partial class Window1 : Window  
{
```

```
    SqlConnection con = new SqlConnection(@"Data  
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Vanishree\Documents\empdata.mdf;Integrated Security=True;Connect Timeout=30");
```

```
.....
```

```
.....
```

```
}
```

Window1.xaml

Double Click on SAVE Button



```
private void Save_Click(object sender, RoutedEventArgs e)
{
    try
    {
        con.Open();
        SqlCommand cmd = con.CreateCommand();
        cmd.CommandType = CommandType.Text;
        cmd.CommandText = "insert into employee values('" + empid.Text + "','"
+ name.Text + "','" + dept.Text + "','" + phone.Text + "','" + email.Text + "','" +
salary.Text + "')";
        cmd.ExecuteNonQuery();
        con.Close();
        displayall();
        MessageBox.Show("Record inserted successfully");
    }
}
```


Window1.xaml

Double Click on SAVE Button



Continued.....

```
catch (Exception ex)
{
    MessageBox.Show(ex.Message);
}
}
```

Window1.xaml

Double Click on SAVE Button

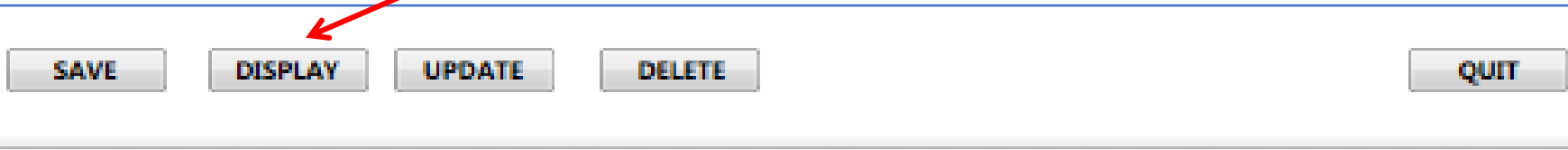


Continued.....

```
public void displayall()
{
    con.Open();
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "select * from employee";
    cmd.ExecuteNonQuery();
    DataTable dt = new DataTable();
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    da.Fill(dt);
    grid.ItemsSource = dt.DefaultView;
    con.Close();
}
```

Window1.xaml

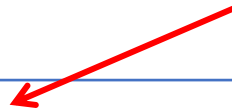
Double Click on DISPLAY Button



```
private void Display_Click(object sender, RoutedEventArgs e)
{
    displayall();
}
```

Window1.xaml

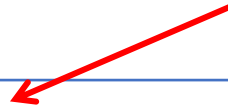
Double Click on UPDATE Button



```
private void Update_Click(object sender, RoutedEventArgs e)
{
    con.Open();
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "update employee set empname='" + name.Text + "', dept='"
+ dept.Text + "', phone='" + phone.Text + "', salary='" + salary.Text + "' where empid='" +
empid.Text + "'";
    cmd.ExecuteNonQuery();
    con.Close();
    displayall();
    MessageBox.Show("Record updated successfully");
}
```

Window1.xaml

Double Click on DELETE Button



```
private void Delete_Click(object sender, RoutedEventArgs e)
{
    con.Open();
    SqlCommand cmd = con.CreateCommand();
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "delete from employee where empid='" + empid.Text + "'";
    cmd.ExecuteNonQuery();
    con.Close();
    displayall();
    MessageBox.Show("Record deleted successfully");
}
```

Window1.xaml

Double Click on QUIT Button



```
private void Quit_Click(object sender, RoutedEventArgs e)
{
    System.Diagnostics.Process.GetCurrentProcess().Kill();
}
```

Project is ready to execute !!!

1. Build the solution
2. Start without Debugging