



# **AMIT ACADEMY**

**for Computer Education**

**SUBJECT – Desktop Application Development-II**

**Faculty Name – Ankit Rami**

## **Unit- 4**

### **DATA INTERACTION USING ADO.NET**

**AMIT ACADEMY FOR COMPUTER EDUCATION**

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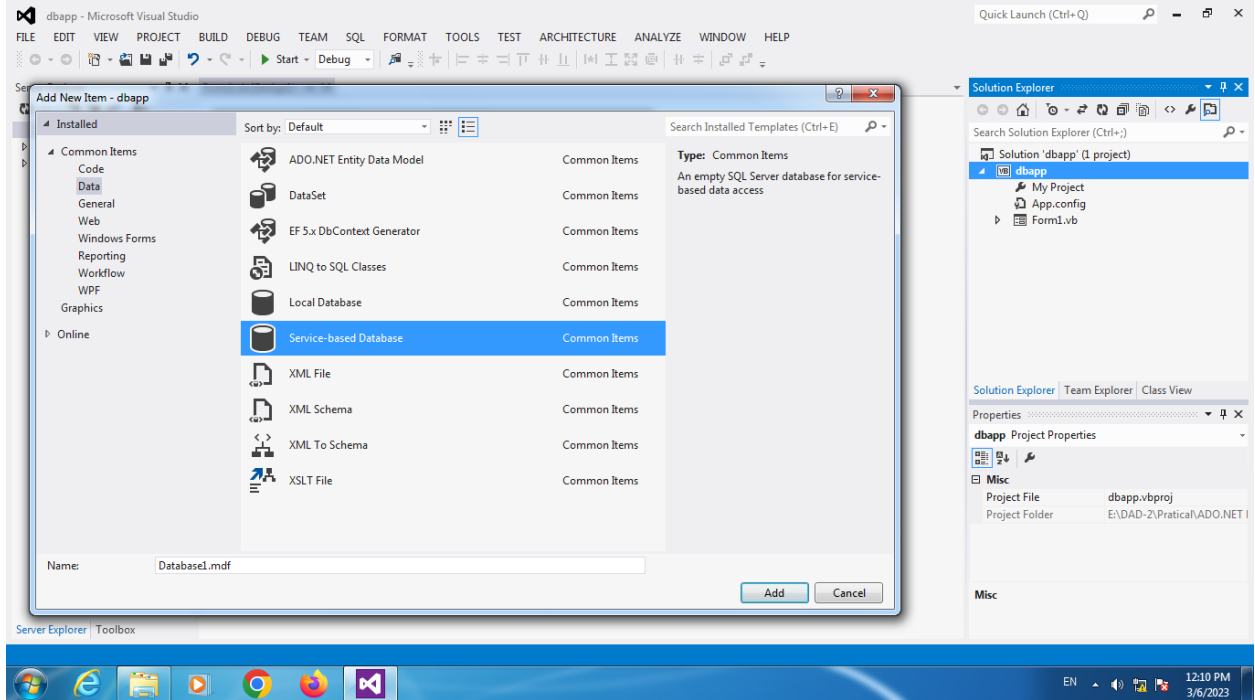
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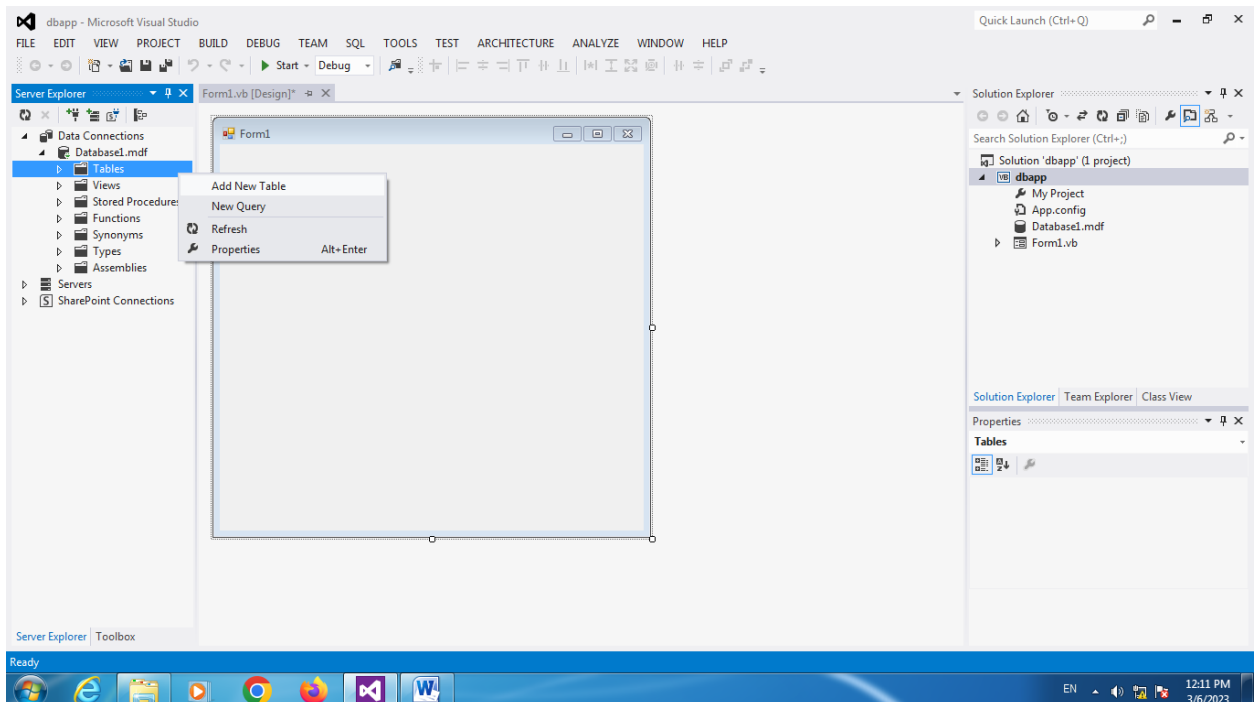
## ADO.NET perform Insert, Update, Delete

✓ Step-1 Create New Project Windows Application.

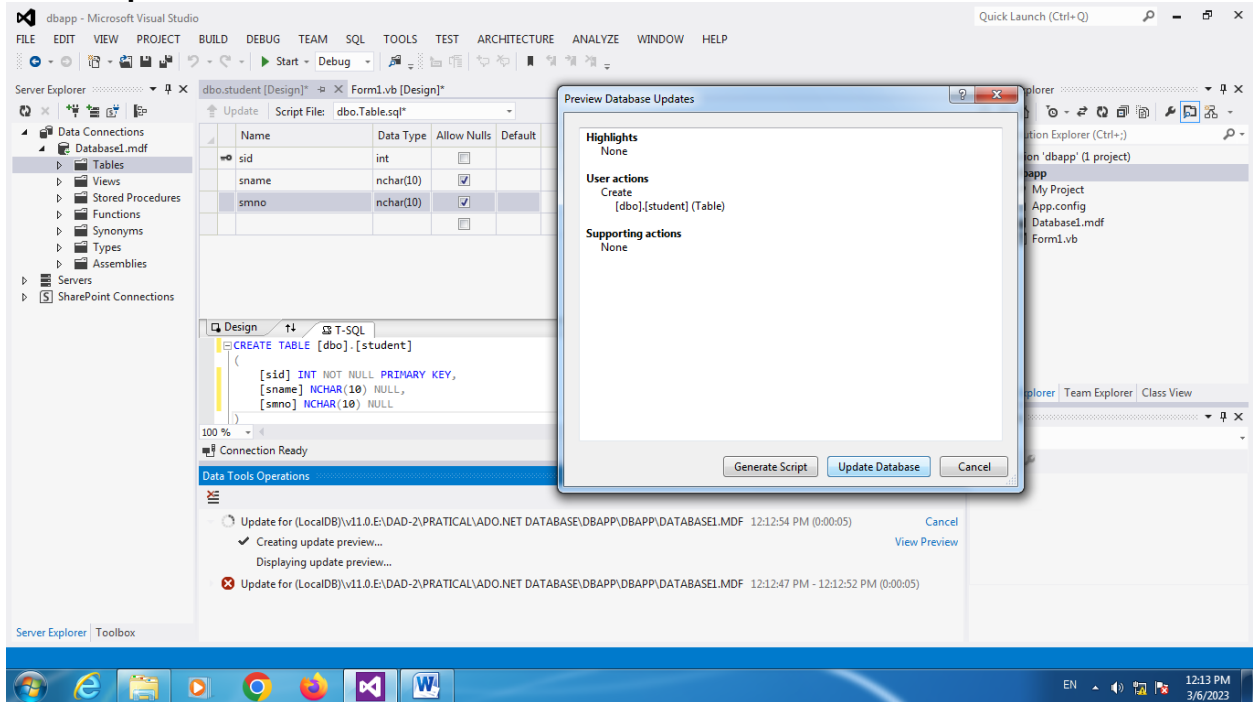
✓ Step-2 Create Database in Project



✓ Step-3 Create Table in Database

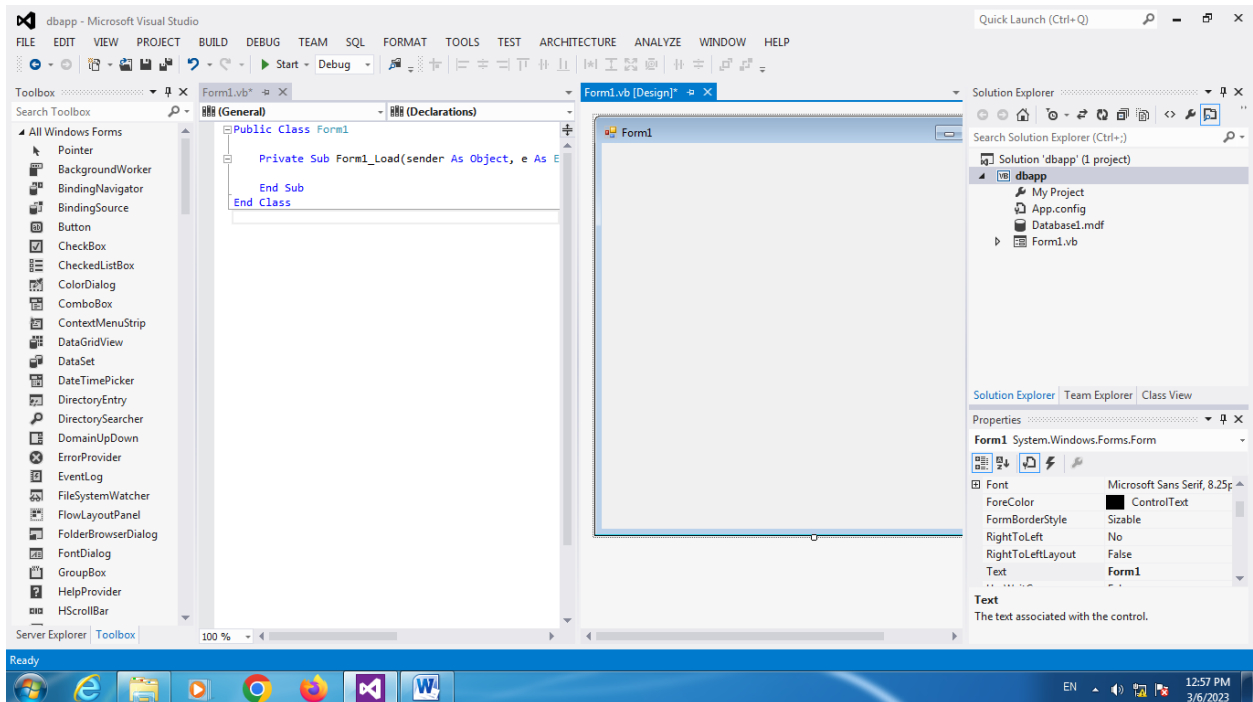


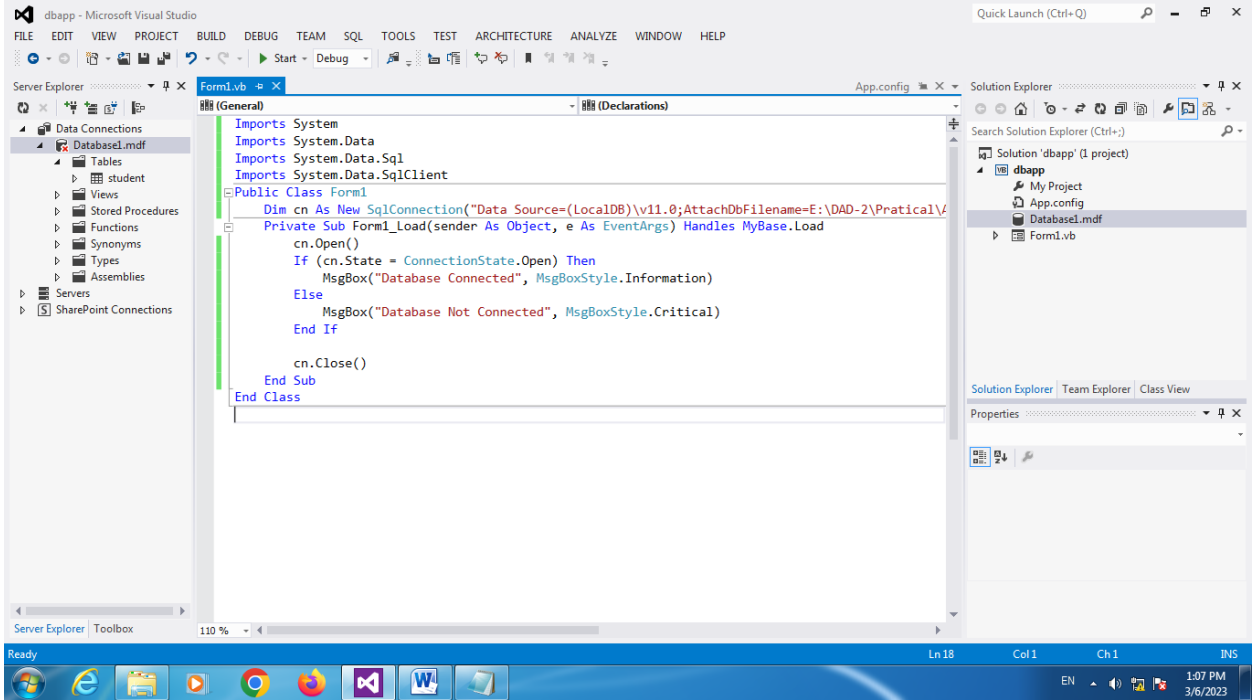
## ✓ Step-4 Set field and Table Name



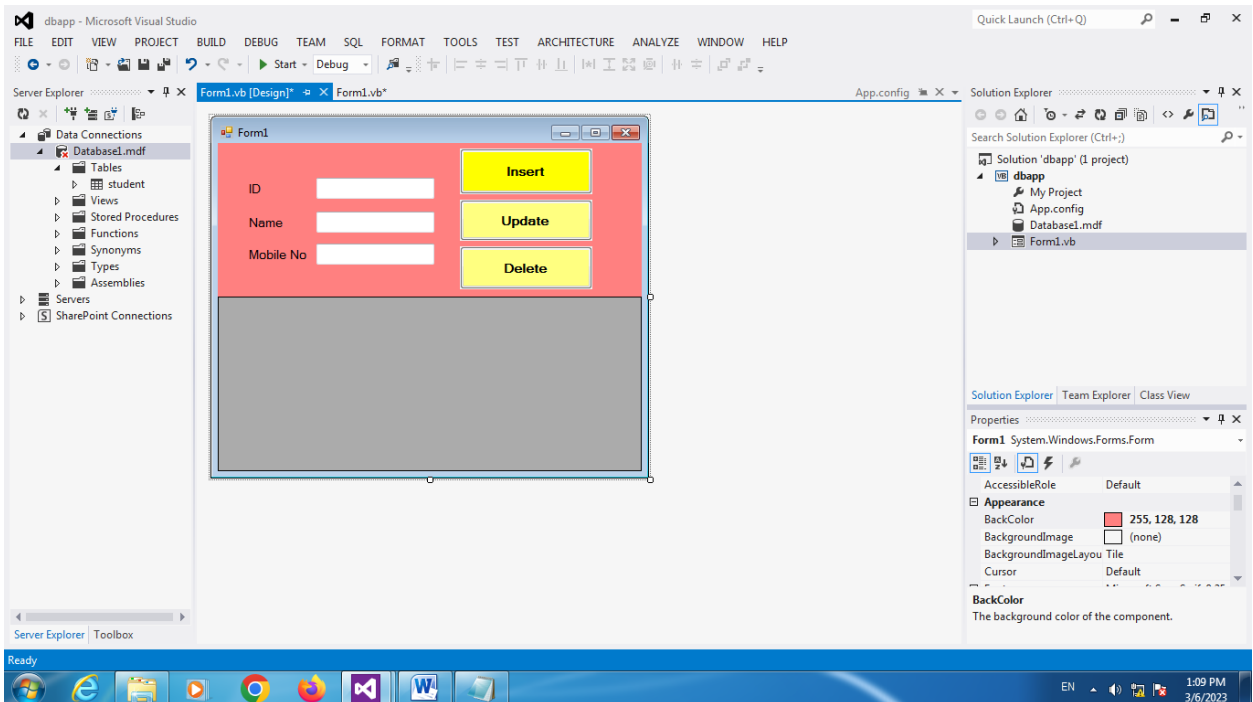
## ✓ Step-5 Database Connection & Library Import in Project

- Double Click on Form Load Event and Write Code





✓ Step-6 Design Form Using Textbox, Lable, Gridview and Button



## ✓ Step-7 Code for Get Database Table Value in Gridview

```

Imports System
Imports System.Data
Imports System.Data.Sql
Imports System.Data.SqlClient

Public Class Form1
    Dim cn As New SqlConnection("Data Source=(LocalDB)\v11.0;AttachDbFilename=E:\DAD-2\Practical\ADO.NET De
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        cn.Open()
        If (cn.State = ConnectionState.Open) Then
            MsgBox("Database Connected", MsgBoxStyle.Information)
        Else
            MsgBox("Database Not Connected", MsgBoxStyle.Critical)
        End If
        ar()
    End Sub
    Sub ar()

        Dim da As New SqlDataAdapter("select * from student", cn)
        Dim ds As New DataSet
        da.Fill(ds, "student")
        DataGridView1.DataSource = ds.Tables("student")
        cn.Close()

    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        cn.Open()
        Dim cmd As New SqlCommand("insert into student(sid,sname,smno)values('" & tb1.Text & "','" & tb2.T
        cmd.ExecuteNonQuery()
        MsgBox("Student Data Insert Successfully")
    End Sub
End Class
    
```

## ✓ Step-7 Code for Insert

```

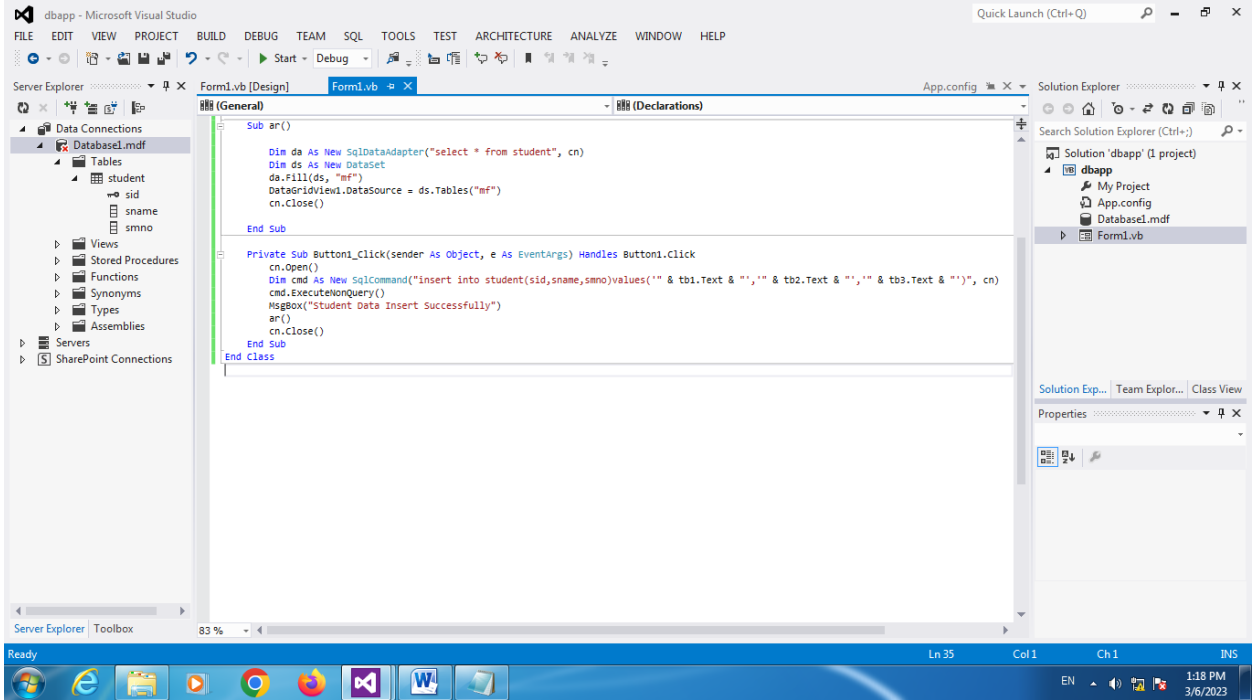
Imports System
Imports System.Data
Imports System.Data.Sql
Imports System.Data.SqlClient

Public Class Form1
    Dim cn As New SqlConnection("Data Source=(LocalDB)\v11.0;AttachDbFilename=E:\DAD-2\Practical\ADO.NET De
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        cn.Open()
        If (cn.State = ConnectionState.Open) Then
            MsgBox("Database Connected", MsgBoxStyle.Information)
        Else
            MsgBox("Database Not Connected", MsgBoxStyle.Critical)
        End If
        ar()
    End Sub
    Sub ar()

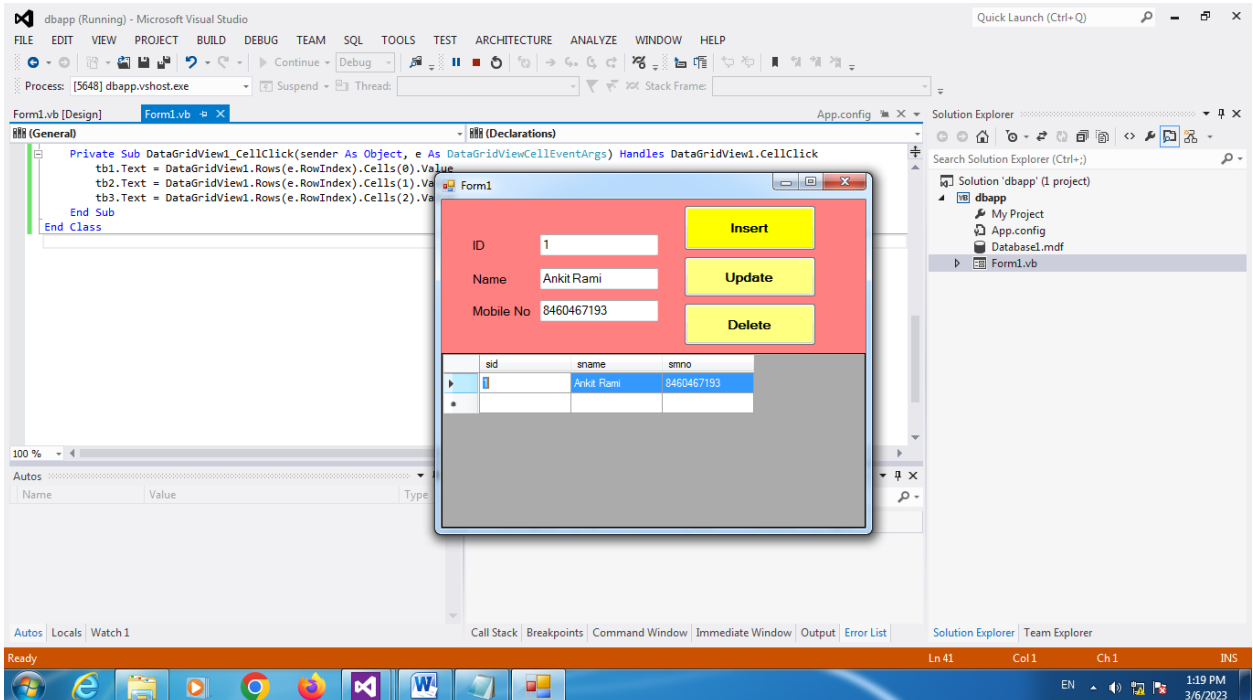
        Dim da As New SqlDataAdapter("select * from student", cn)
        Dim ds As New DataSet
        da.Fill(ds, "student")
        DataGridView1.DataSource = ds.Tables("student")
        cn.Close()

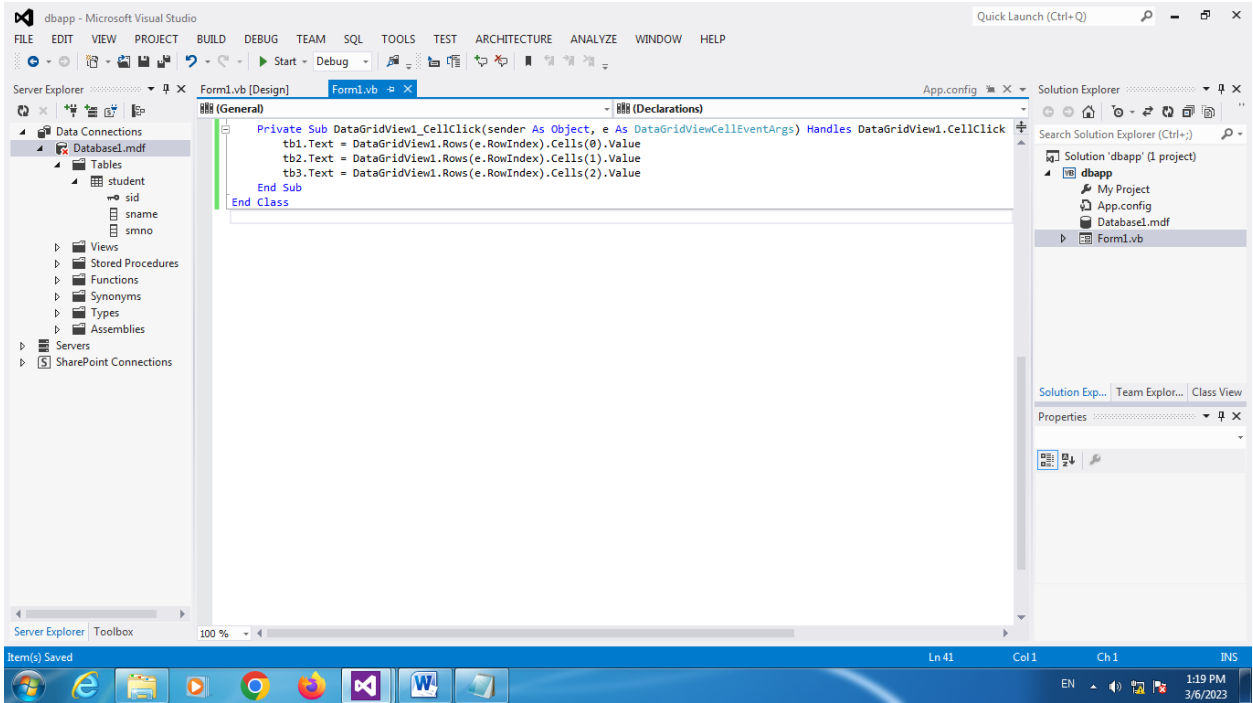
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        cn.Open()
        Dim cmd As New SqlCommand("insert into student(sid,sname,smno)values('" & tb1.Text & "','" & tb2.T
        cmd.ExecuteNonQuery()
        MsgBox("Student Data Insert Successfully")
    End Sub
End Class
    
```

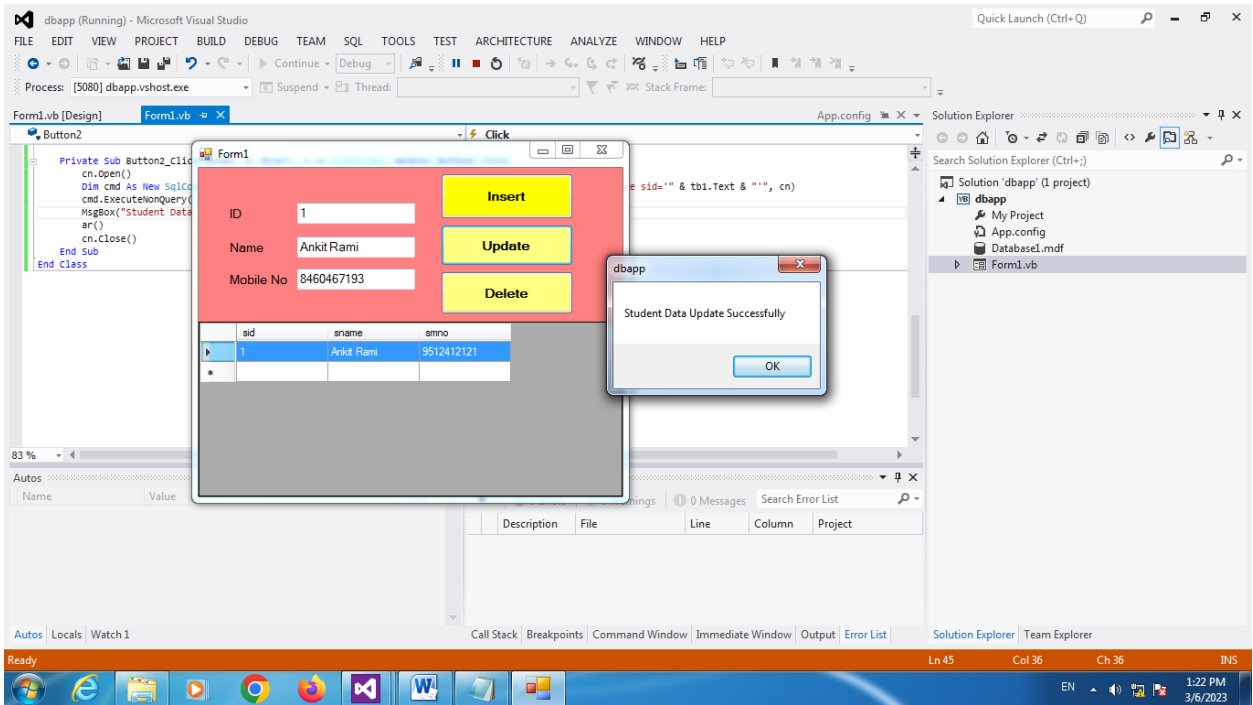


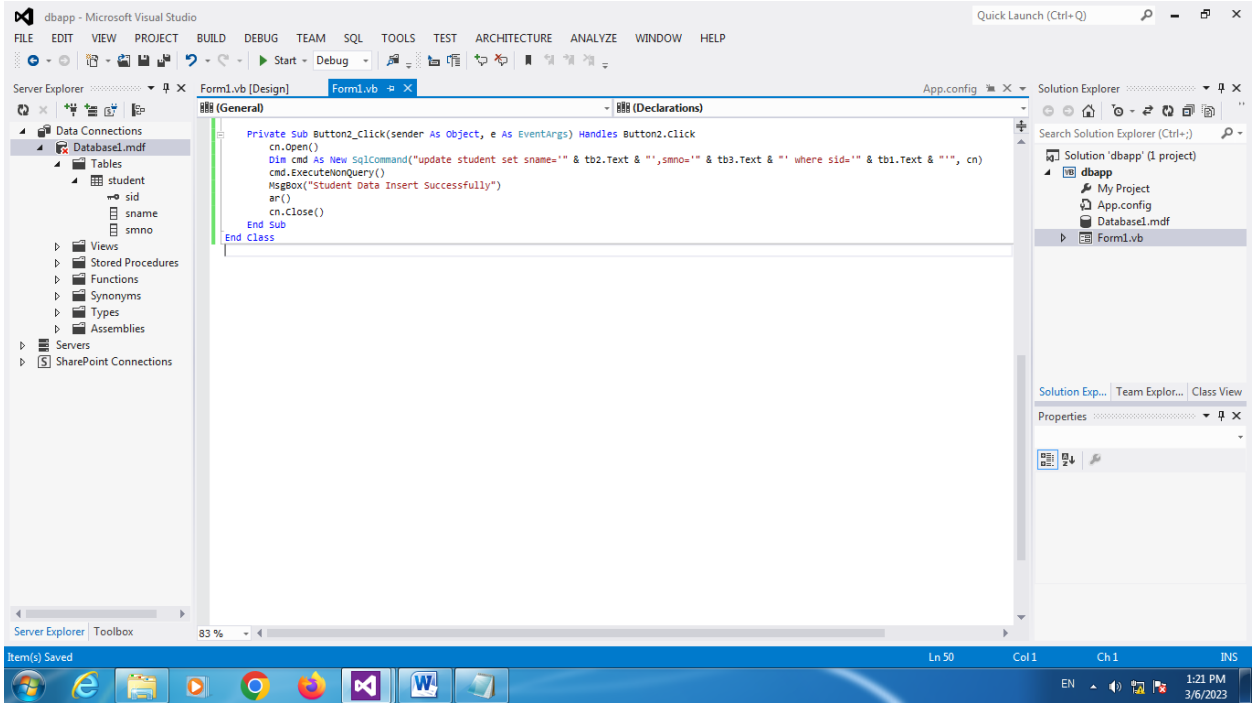
## ✓ Step-8 Code for Get Gridview Value Automatic Select in Textbox



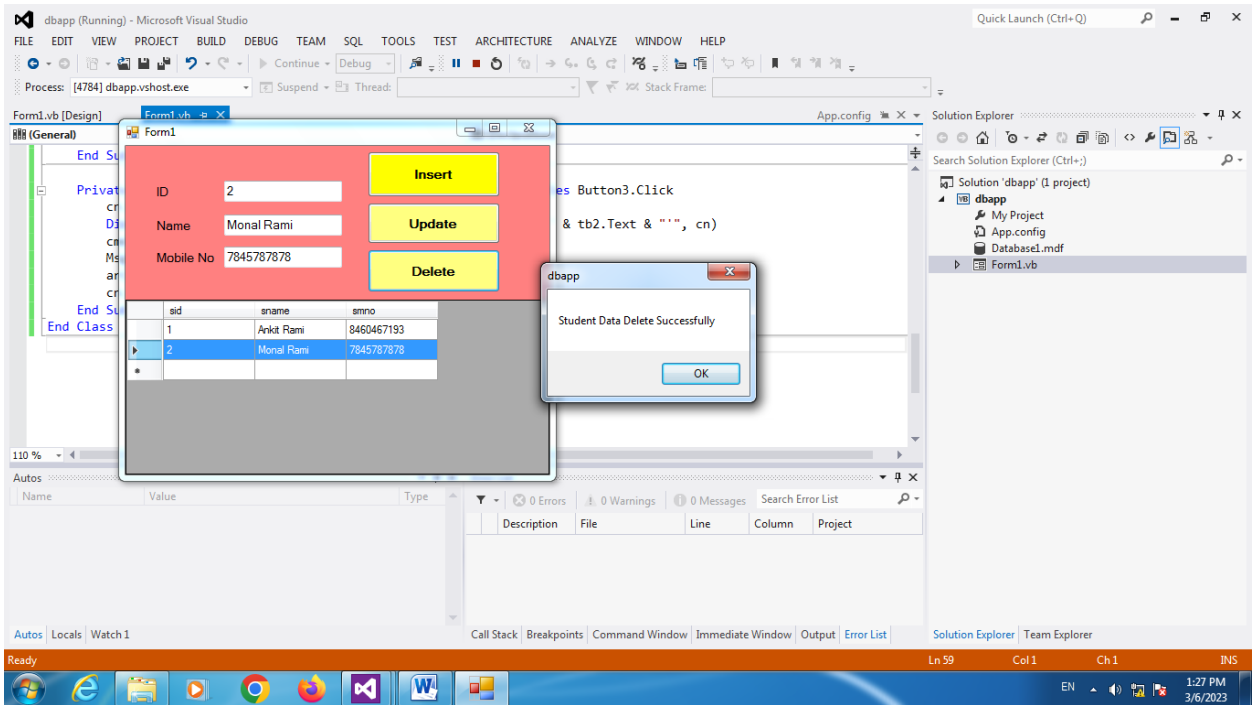


## ✓ Step-9 Code for Update

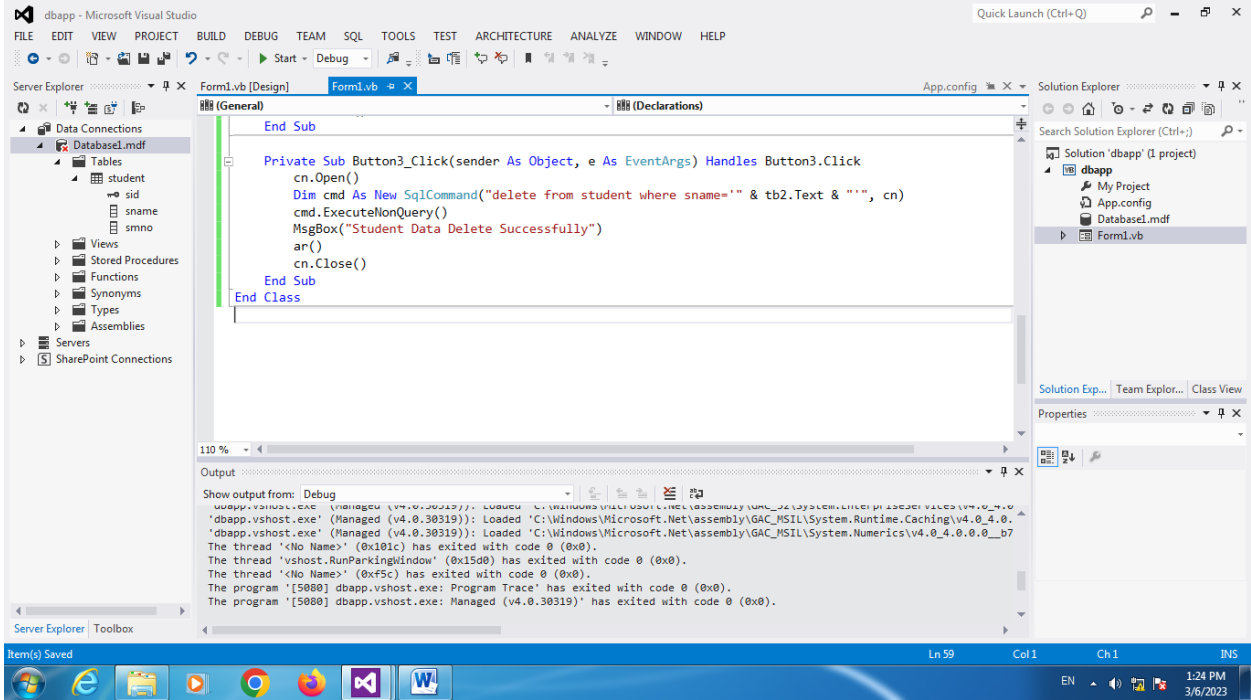




## ✓ Step-10 Code for Delete

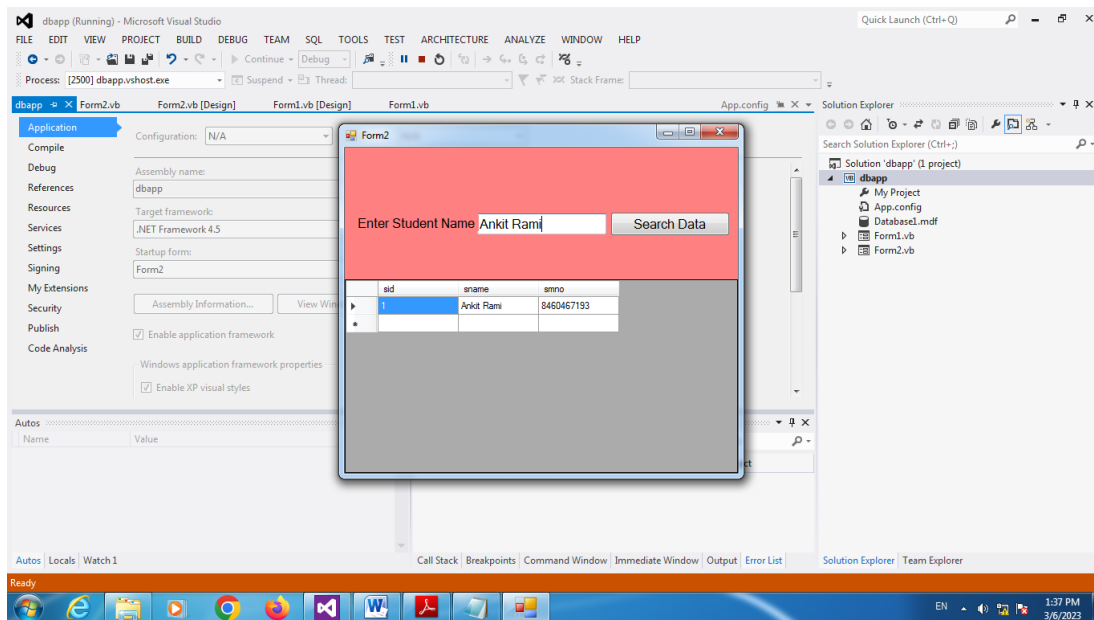




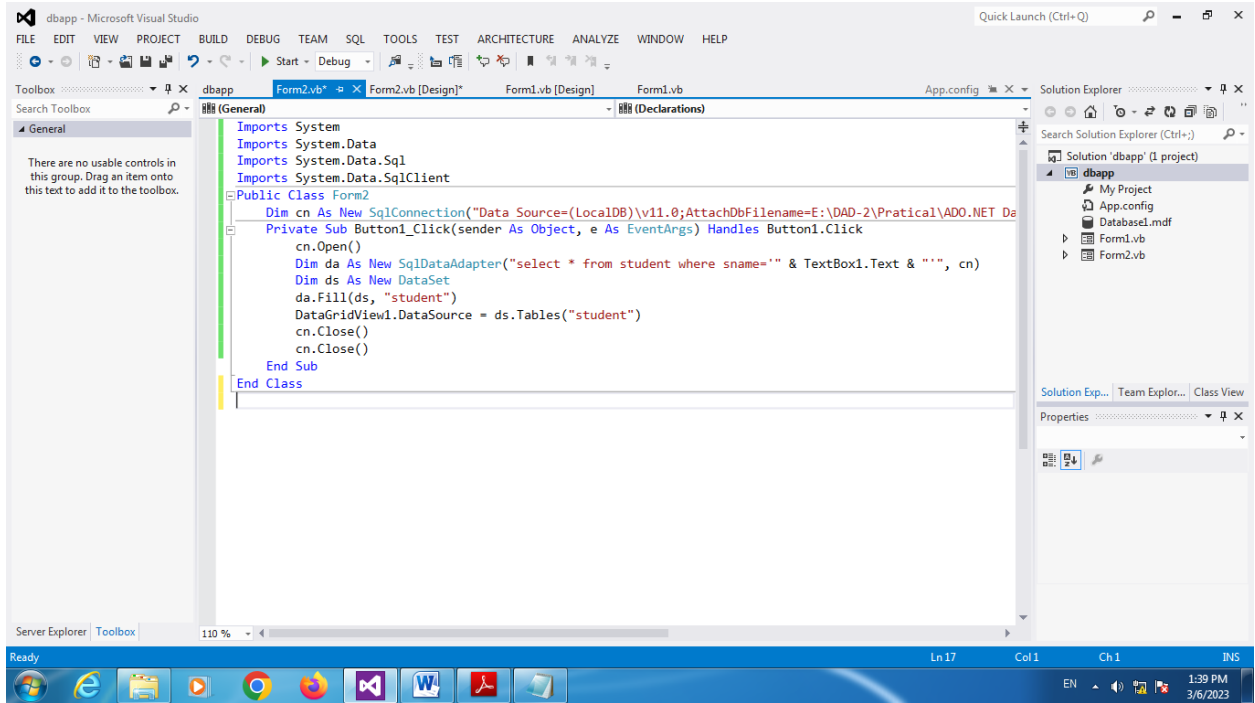


## ADO.NET perform Searching Data

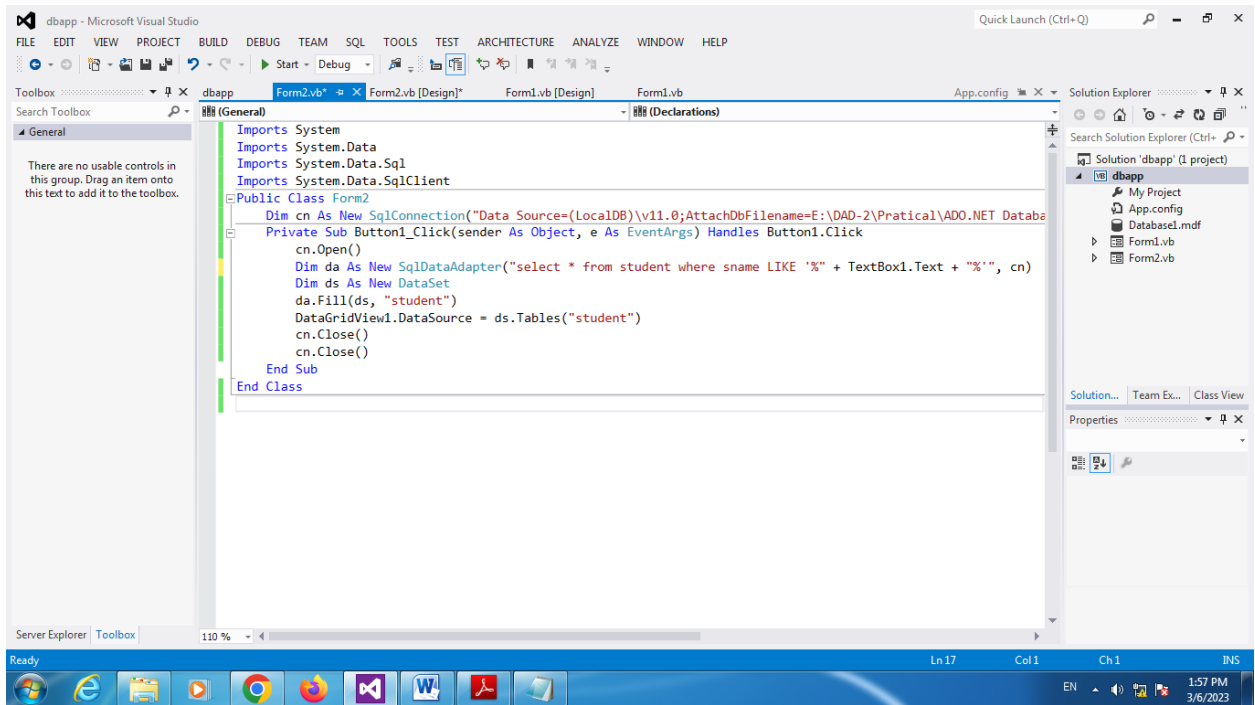
- ✓ Step-1 Add New Form in Windows Application.
- ✓ Step-2 Design Form using Textbox and Gridview in VB.Net



- ✓ Step-3 Code for Data Searching



## ✓ Search Data Using Like Operator



# Desktop Application Development-II

## ADO.NET perform Authentication and Authorization in Front-End and Back-End with signup and login process

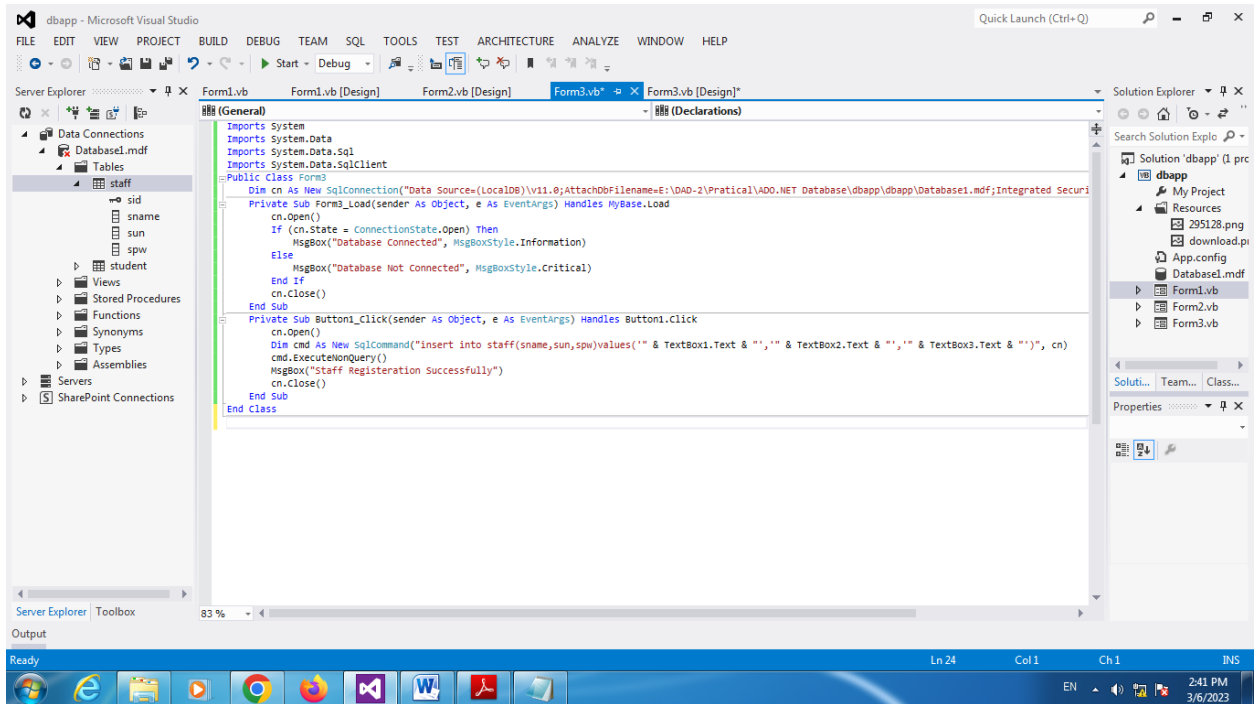
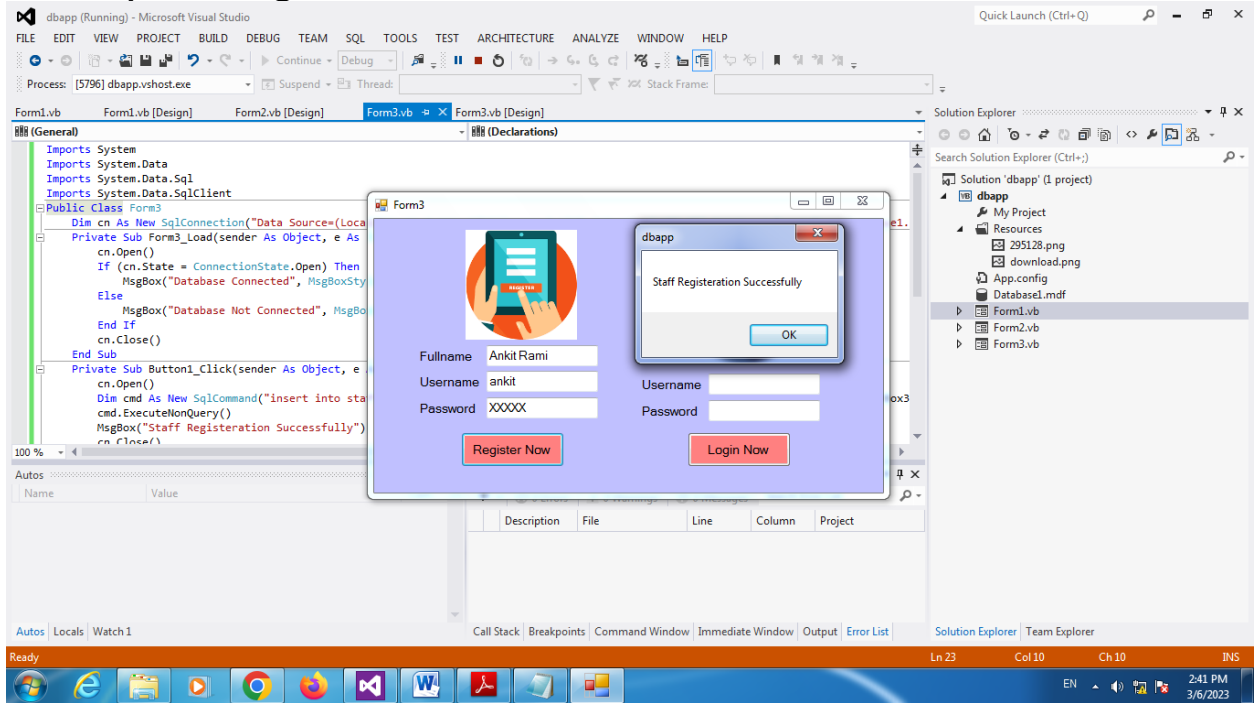
- ✓ Step-1 Add New Form in Windows Application.
- ✓ Step-2 Design Form using Textbox and Gridview in VB.Net and Database

The image displays two screenshots from Microsoft Visual Studio. The top screenshot shows the design view of a Windows Form named 'Form3'. The form has a light blue background and contains two columns of input fields. The left column has fields for 'Fullname', 'Username', and 'Password', followed by a 'Register Now' button. The right column has fields for 'Username' and 'Password', followed by a 'Login Now' button. There are also two circular icons: one showing a hand holding a smartphone and another showing a person with a padlock. The bottom screenshot shows the SQL Server Enterprise Edition interface. The 'Tables' folder is expanded to show a table named 'staff'. The table has columns: sid (int, primary key), sname (nvarchar(50)), sun (nvarchar(50)), and spw (nvarchar(50)). The 'Columns' folder is expanded to show the 'spw' column, which is of type nvarchar and has 'Allow Nulls' set to True. The 'Script File' pane shows the T-SQL code for creating the table: 

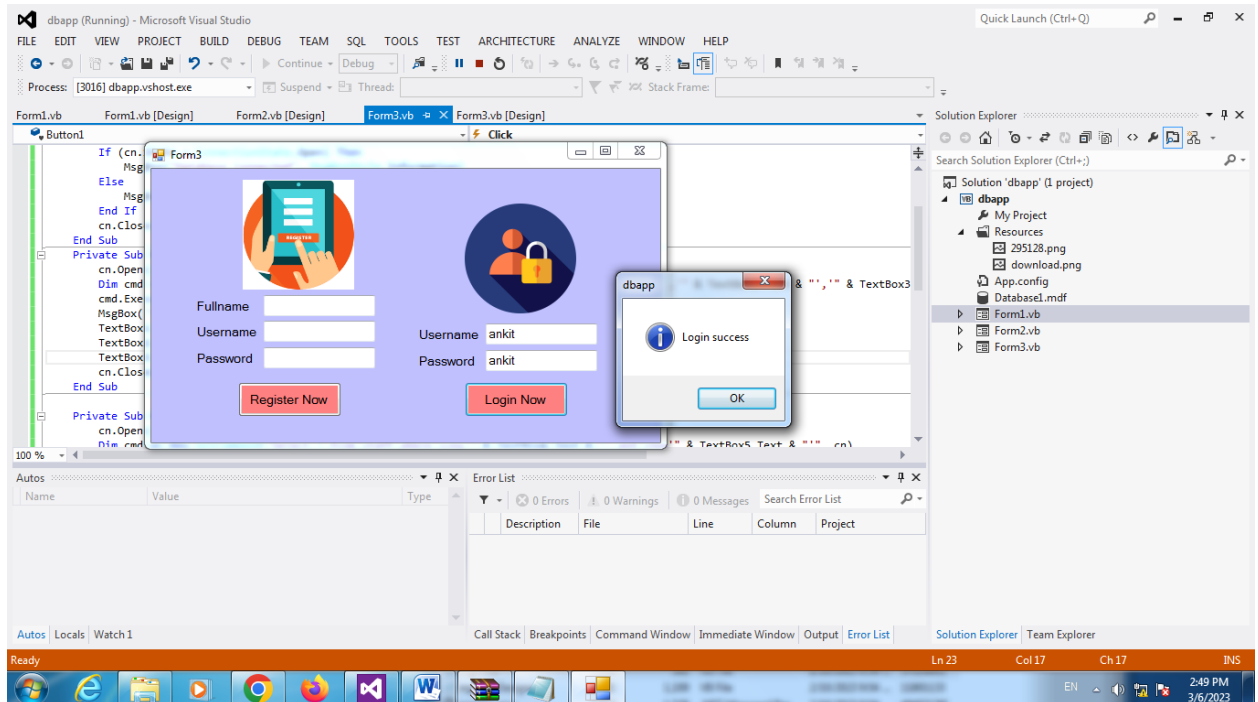
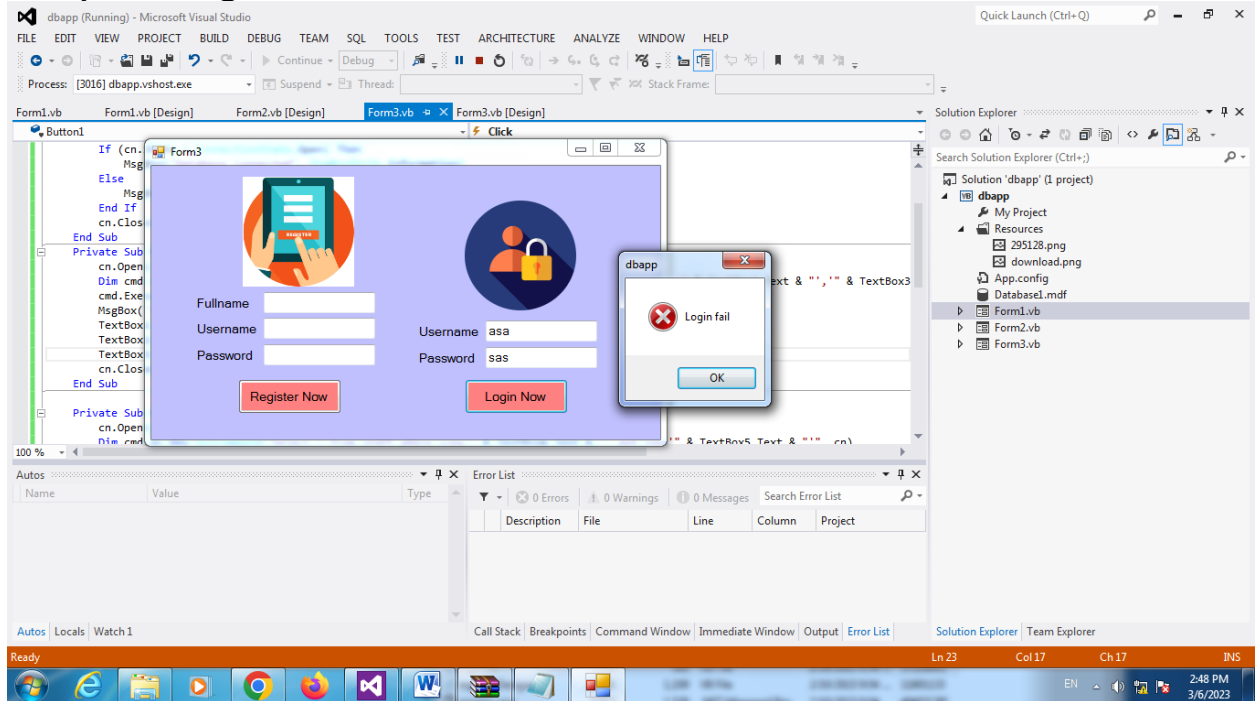
```
CREATE TABLE [dbo].[staff] ([sid] INT NOT NULL PRIMARY KEY, [sname] NVARCHAR(50), [sun] NVARCHAR(50) NULL, [spw] NVARCHAR(50) NULL);
```

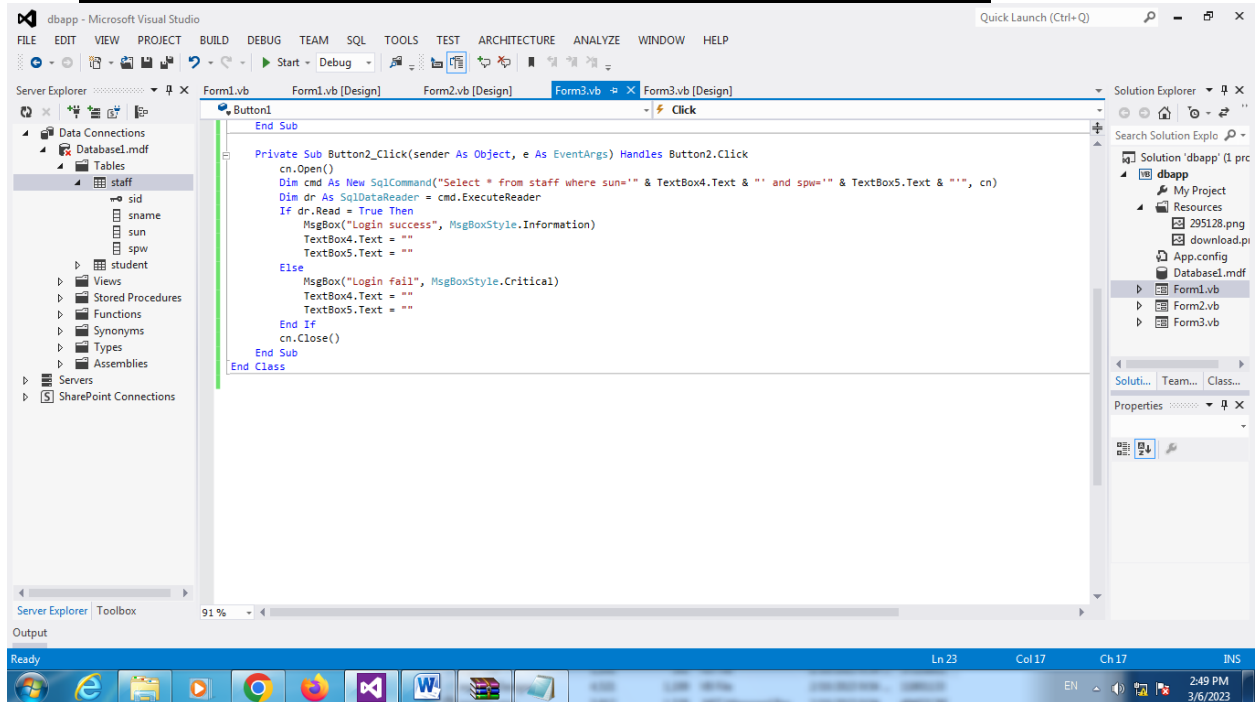
 The 'Data Tools Operations' pane shows a successful update operation for the database.

## ✓ Step-3 Registration Code in VB.Net



## ✓ Step-4 Login Code in VB.Net





 **Any Query Contact Us**

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