

Contacts Management System in VB.Net and MySQL using Visual Studio 2022 Community Edition

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Download Mysql Server from www.wampserver.com

Open Mysql Console

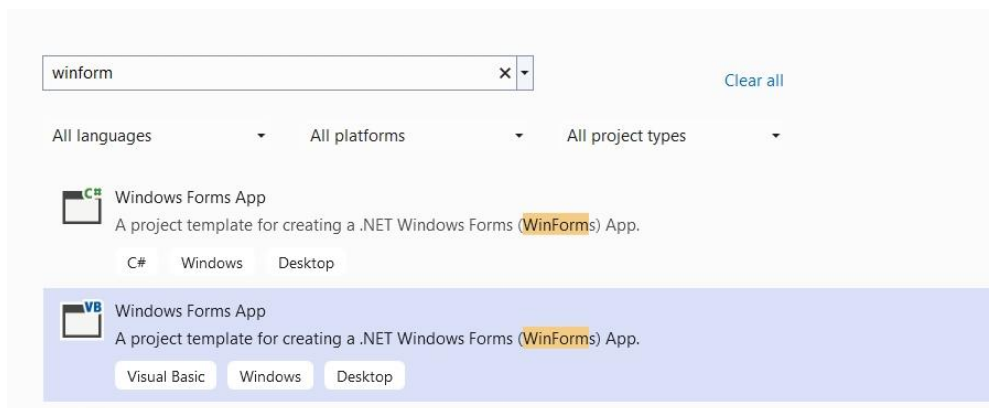
Create database contacts using following query

Create database contacts;

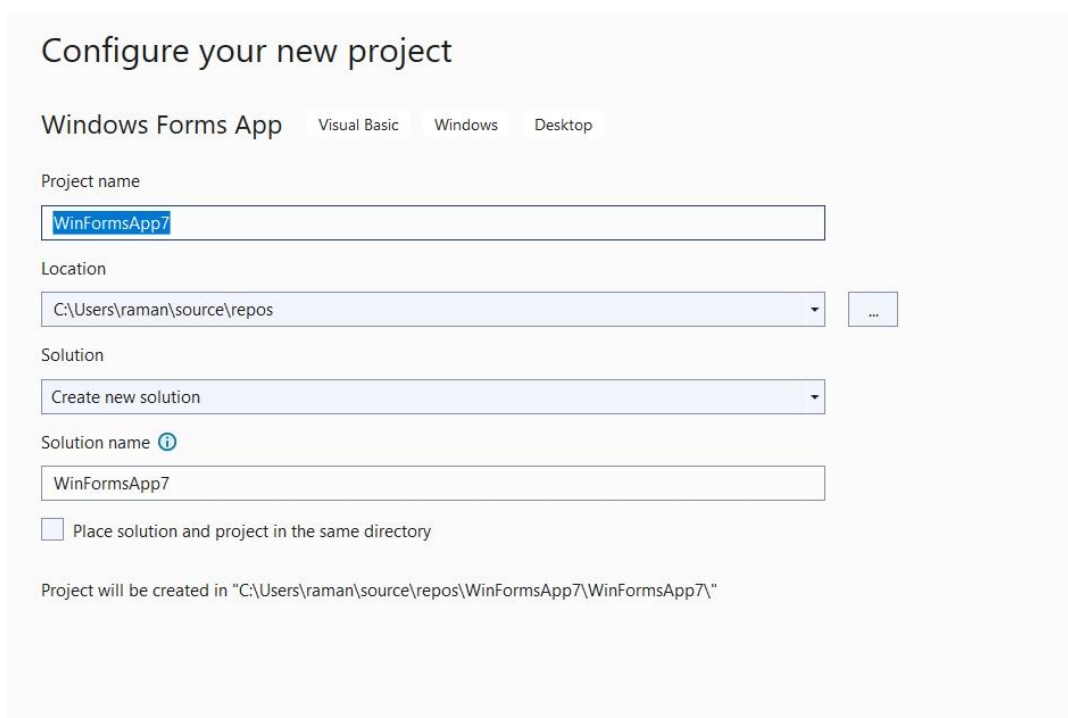
Use contacts;

Create table contacts(cname varchar(20),caddress varchar(20),cemail varchar(20),cmobile varchar(20));

Create a new project in Visual Studio 2022 Community Edition



Click Next



Click Next

Additional information

Windows Forms App

Visual Basic

Windows

Desktop

Framework 

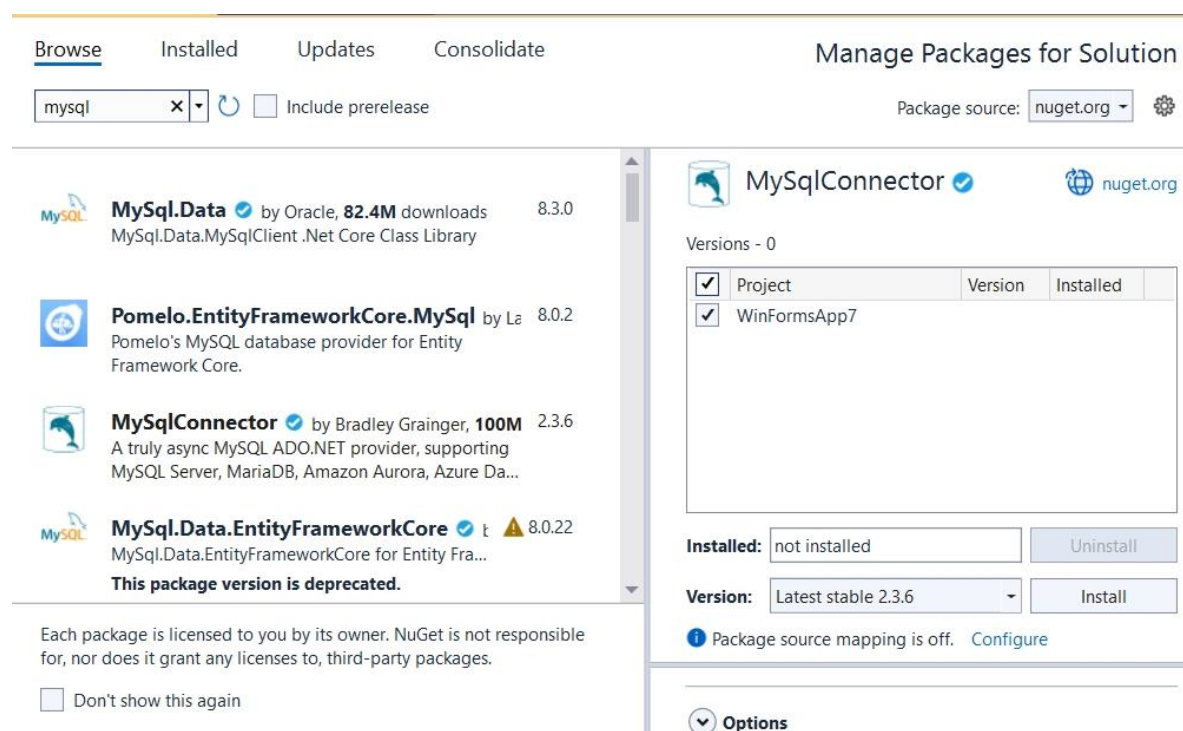
.NET 8.0 (Long Term Support)

Click Create and new Project will be created

Now add Mysql Connector Package to the project using NuGet Package Manager

Go to Tools -> NuGet Packager Manager -> Manage NuGet Packages For Solution

Following window will appear





The screenshot shows the 'Manage Packages for Solution' window in Visual Studio. The 'Browse' tab is active, and the search bar contains 'mysql'. The package list on the left includes 'MySQL.Data', 'Pomelo.EntityFrameworkCore.MySql', 'MySQLConnector', and 'MySQL.Data.EntityFrameworkCore'. The 'MySQLConnector' package is selected, and its details are shown on the right. The 'WinFormsApp7' project is listed under 'Versions - 0'. The 'Installed' status is 'not installed', and the 'Version' is 'Latest stable 2.3.6'. The 'Install' button is visible.

Project	Version	Installed
WinFormsApp7		

Installed: not installed [Uninstall](#)

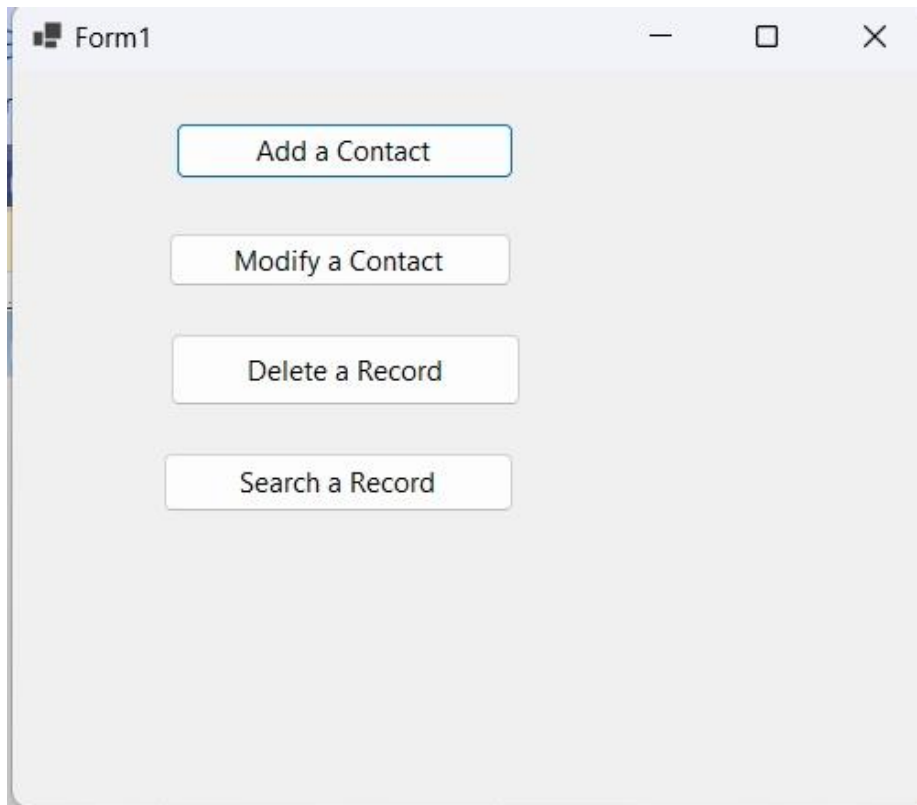
Version: Latest stable 2.3.6 [Install](#)

 Package source mapping is off. [Configure](#)

 Options

Click Install and Package will be installed for MySQL Connector

Now add following controls to form1



Code for Form1 is

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As New AddRecord
    a.Show()
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    Dim a As New ModifyRecord
    a.Show()
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    Dim a As New DeleteRecord
    a.Show()
End Sub
```

```
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
    Dim a As New SearchRecord
    a.Show()
End Sub
```

Now Add a New Form with name as AddRecord through right click on Project and Add Form (Give name of form as AddRecord.vb)

The screenshot shows a Windows Form titled "Form2". It has a light gray background and a standard Windows title bar with minimize, maximize, and close buttons. The form contains four text boxes arranged vertically, each with a label to its left: "Contact Name", "Contact Address", "Contact Email", and "Contact Mobile". Below these text boxes is a single button labeled "Add Contact".

Code for AddRecord Form is

Following is the Imports for AddRecord.vb

Imports MySQLConnector

```

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
    Dim cname, caddress, cemail, cmobile As String
    cname = TextBox1.Text
    caddress = TextBox2.Text
    cemail = TextBox3.Text
    cmobile = TextBox4.Text
    Dim rs As Integer
    rs = 0
    Dim constr As String
    constr = "Server=localhost;User ID=root;Password=;Database=contacts"
    Dim connection = New MySqlConnection(constr)
    connection.Open()
    Dim mysqlcmd = New MySqlCommand("insert into
contacts(cname,caddress,ceail,cmobile) values('" + cname + "','" + caddress +
"',','' +
cmobile + "','" + cemail + "')", connection)
    rs = mysqlcmd.ExecuteNonQuery()
    If rs > 0 Then
        MessageBox.Show("Record Inserted")
    Else
        MessageBox.Show("Record Can't be Inserted")
    End If
End Sub

```

Now Add Another form ModifyRecord.vb through right click on project and Add Form

Code for ModifyRecord.vb is

Following is the Imports for ModifyRecord.vb

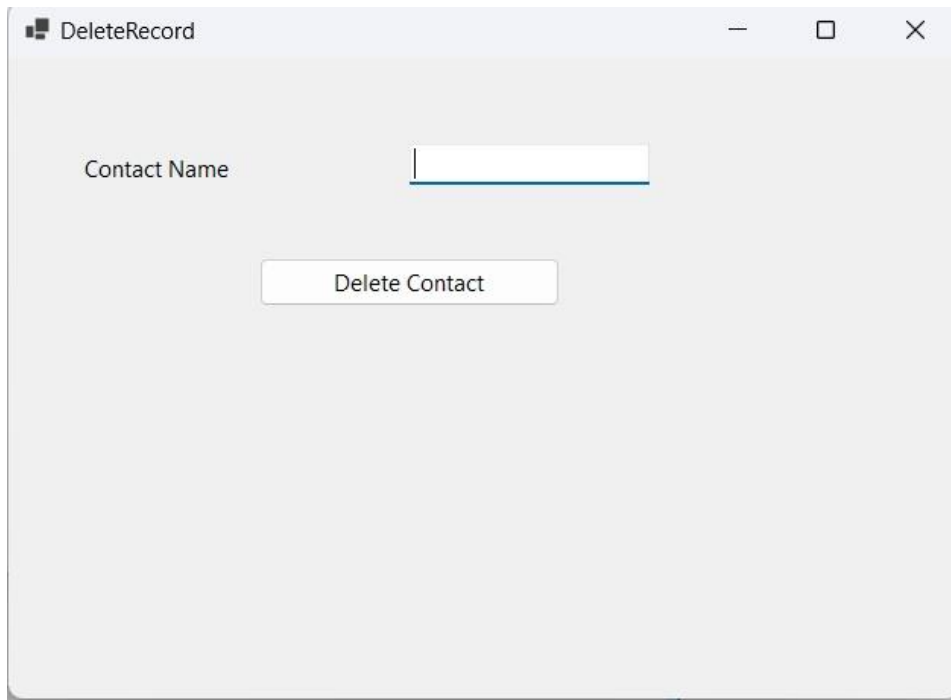
Imports MySqlConnection

```

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
    Dim cname, address, cemail, cmobile As String
    cname = TextBox1.Text
    address = TextBox2.Text
    cemail = TextBox3.Text
    cmobile = TextBox4.Text
    Dim rs As Integer
    rs = 0
    Dim constr As String
    constr = "Server=localhost;User ID=root;Password=;Database=contacts"
    Dim connection = New MySqlConnection(constr)
    connection.Open()
    Dim mysqlcmd = New MySqlCommand("update contacts set address='" & address
& "',ceail='" & cemail & "',cmobile='" & cmobile & "'", connection)
    rs = mysqlcmd.ExecuteNonQuery()
    If rs > 0 Then
        MessageBox.Show("Record Updated")
    Else
        MessageBox.Show("Record Can't be Updated")
    End If
End Sub

```

Now Add another form DeleteRecord.vb



Following is the code for DeleteRecord.vb

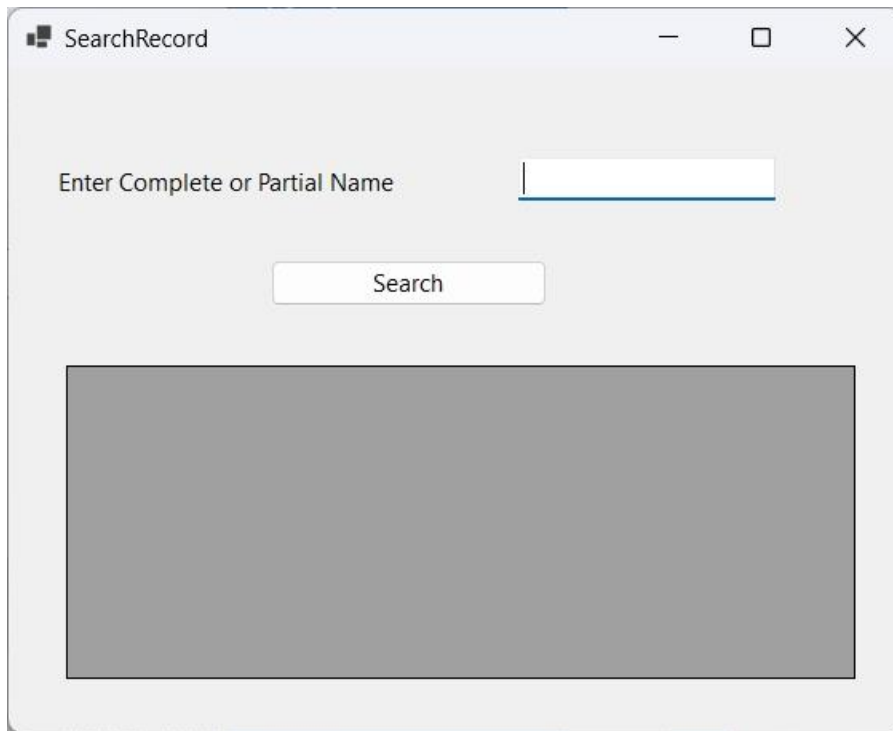
Following is the Imports for DeleteRecord.vb

Imports MySQLConnector

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim cname As String
    cname = TextBox1.Text

    Dim rs As Integer
    rs = 0
    Dim constr As String
    constr = "Server=localhost;User ID=root;Password=;Database=contacts"
    Dim connection = New MySqlConnection(constr)
    connection.Open()
    Dim mysqlcmd = New MySqlCommand("delete from contacts where cname='" & cname
    & "'", connection)
    rs = mysqlcmd.ExecuteNonQuery()
    If rs > 0 Then
        MessageBox.Show("Record Deleted")
    Else
        MessageBox.Show("Record Can't be Deleted")
    End If
End Sub
```

Now Add Another form SearchRecord.vb through right click on project and Add Form
Also add a DataGridView Control from Data Controls



Following is the code for SearchRecord.vb

Following are the Imports for SearchRecord.vb

Imports MySQLConnector

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

    Dim namestr As String
    namestr = TextBox1.Text
    Dim constr As String
    constr = "Server=localhost;User ID=root;Password=;Database=contacts"
    Dim connection = New MySqlConnection(constr)
    connection.Open()
    Dim a As New MySqlDataAdapter("SELECT * FROM contacts where cname like '%" +
namestr + "%'", connection)
    Dim t As New DataTable
    a.Fill(t)
    DataGridView1.DataSource = t
End Sub
```

Now Build the Project