جامعة بغداد/ كلية التربية للعلوم الصرفة ابن الهيثم/قسم علوم الحاسبات المرحلة الثالثة صباحي / مسائي (نظري) للعام الدراسي ٢٠٢٤-٢٠٠٥ اساتذة المادة: م.د. شـهلاء طالب

# Visual Programming Lecture 5 – How to Connect Access Database in VB.Net

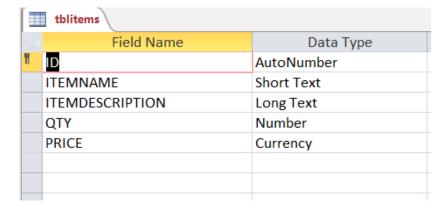
Step 1: Create an MS Access Database. Open an MS Access Database in

your Computer and Create a Blank Database and Save it

as "inventorydb.accdb".

**Step 2: Create a Database Table.** 

To create a table, follow the image below and save it as "tblitems".



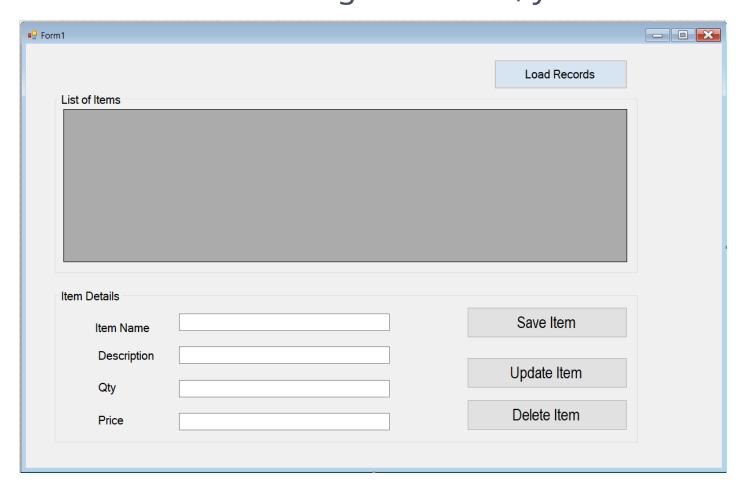
**Step 3: Populate the table.** Add sample records in the table. follow the sample records in the image below.

	tblitems						
4	ID ▼	ITEMNAME -	ITEMDESCRII -	QTY -	PRICE +	Click to Add	w
	1	MONITOR	COMPUTER MO	5	\$60.00		
	2	MOTHERBOARD	COMPUTERMO <sup>*</sup>	10	\$200.00		
	3	KEYBOARD	KEYBOARD CON	10	\$150.00		
	4	laptop	sony laptop	10	\$1,500.00		
*	(New)			0	\$0.00		

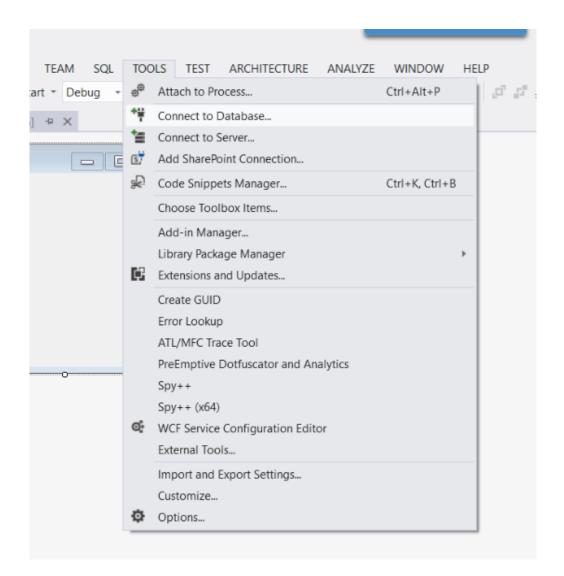
**Step 4: Create a VB.Net Application.** Open Visual Studio and Create a Visual Basic Application project and Save it as *"connectvbaccess"*.

Step 5: Design the user interface. To design the form, you need to follow the

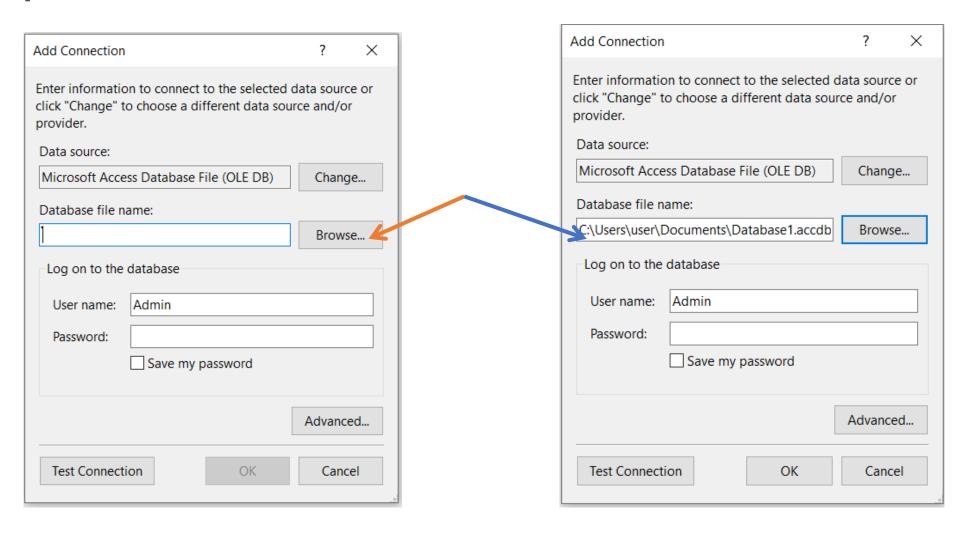
image below.



**Step 6:** Select TOOLS from Menu Bar → Connect to Database

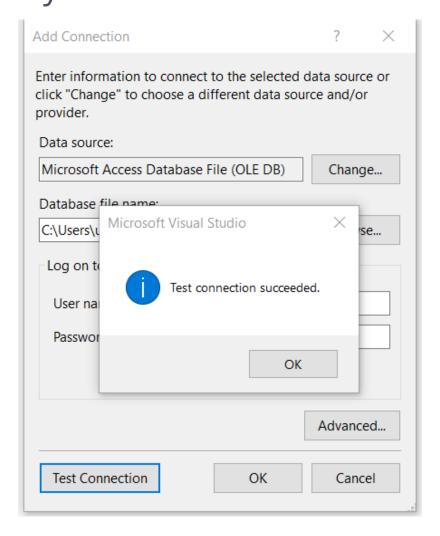


**Step 7:** Select the database name from Add Connection dialog box.

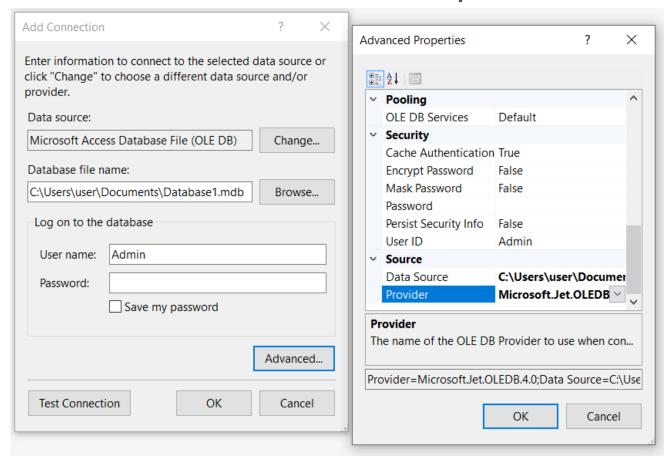


**Step 8: Test Connection** To test the connection, click the "Test Connection" button, finally click "OK" button at the side of

the "Cancel" button.



**Step 9: Copy the Connection String.** Copy the connection string so that we can use this in our next step.



#### Code To Connect Access Database in VB.Net

- Add Imports System.Data.OleDb before Public class Form1
- Add the following code under "Public Class Form1".

**Dim con As New OleDbConnection** 

Dim c As String = "Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\lenovo 1\Documents\Database6.accdb"

Double Click on the Form1 and add the following code con.ConnectionString = c

The Code above started with a **Declaration of Variable** name "con" with an **Ole Object Type OledbConnection**.

Inside OledbConnection, we pasted the connection string we copied from the "Step 9" instructions.

#### Test the Connection of Access database in VB.Net

To test the **Connection between ms access database and VB.Net**, Double click the **form1** add the following code under "Form1\_Load" events.

```
con.ConnectionString = c
       Try
            con.Open()
            If con.State = ConnectionState.Open Then
               MsgBox("connected")
            Else
                MsgBox("not connected")
            End If
       Catch ex As Exception
           MsgBox("ex.message")
       Finally
            con.Close()
       End Try
```

#### Test the Connection of Access database in VB.Net

- •We use try-catch to the exceptions that may occur during runtime.
- open the connection
- check using if statement if the connection is open
- Display a message box if successfully connected or Not
- close the connection

Press "F5" to run the Project.

When you run the project it will give you this my



# How to Load Record from Access Database to Datagridview In VB.Net

```
Try
            Dim sql As String
            Dim cmd As New OleDbCommand
            Dim dt As New DataTable
            Dim dp As New OleDbDataAdapter
            con.Open()
            sql = "Select * from tblitems"
            cmd.Connection = con
            cmd.CommandText = sql
            dp.SelectCommand = cmd
            dp.Fill(dt)
            DataGridView1.DataSource = dt
        Catch ex As Exception
            MsgBox("ex.message")
        Finally
            con.Close()
        End Try
```

After adding the code, you may press **F5** or click the Start debugging button to test the code. The output should look like as shown below.

