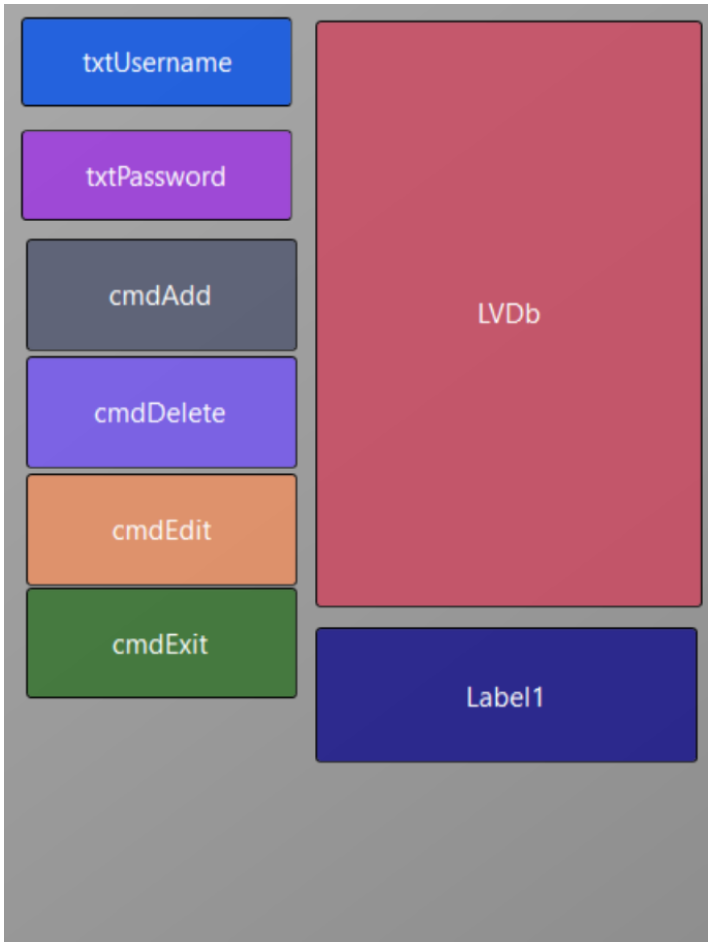
Step 1.

>> Open a new project and save it.

>> Open Designer, and follow the requirements.



Settings

Application Label
CRUD Exercise using SQLite

#SupportedOrientations: portrait

Files
db.sql

Package Name
bkt.com.crud1

Layout Name
main

EditText
txtUsername
txtPassword

Button
cmdAdd
cmdDelete
cmdEdit
cmdExit

ListView
LVDb

Label
Label1

Libraries
Core (version 5.8)
SQL (version 1.30)

Step 2.

```
'Activity module
Sub Process_Globals
	Dim SQL1 As SQL
	Dim cursor1 As Cursor
End Sub

Sub Globals
	Dim txtUsername As EditText
	Dim txtPassword As EditText
	Dim LVDb As ListView
	Dim cmdAdd As Button
	Dim cmdDelete As Button
	Dim cmdEdit As Button
	Dim ID As String

End Sub

Sub Activity_Create(FirstTime As Boolean)
	Activity.LoadLayout("main")
	If File.Exists(File.DirInternal,"db.sql") = False Then
		File.Copy(File.DirAssets,"db.sql",File.DirInternal,"db.sql")
	End If

	If SQL1.IsInitialized = False Then
		SQL1.Initialize(File.DirInternal, "db.sql", False)
	End If

	DBload
End Sub

Sub Activity_Resume

End Sub

Sub Activity_Pause (UserClosed As Boolean)

End Sub
```

```
Sub DBload
	LVDb.Clear'need to clear the list
	cursor1 = SQL1.ExecQuery("SELECT * FROM tblUsers")
	For i = 0 To cursor1.RowCount - 1
		cursor1.Position = i
		LVDb.AddSingleLine(cursor1.GetString("ID")& "|" &cursor1.GetString("Username")& " | " & cursor1.GetString("Password"))
		LVDb.SingleLineLayout.ItemHeight = 100
		LVDb.SingleLineLayout.Label.TextSize = 20
		LVDb.SingleLineLayout.label.TextColor = Colors.Black
		LVDb.SingleLineLayout.label.Color = Colors.White
	Next
End Sub

Sub cmdAdd_Click
	If txtUsername.Text = "" Or txtPassword.Text = "" Then
		Msgbox("You have to enter all fields","Missed data field")
	Else
	'Grab the last ID number which is the highest number
	cursor1 = SQL1.ExecQuery("SELECT ID FROM tblUsers")
	    If cursor1.RowCount > 0 Then
		For i = 0 To cursor1.RowCount - 1
			cursor1.Position = i
			Dim NewID As Int
			NewID = cursor1.GetInt("ID")
		Next
	    End If
	       NewID = NewID +1 ' add 1 to the ID number to make a new ID field
	       SQL1.ExecNonQuery("INSERT INTO tblUsers VALUES('" & NewID & "','" & txtUsername.Text & "','" & txtPassword.Text & "')")
	       DBload
	       txtUsername.Text = ""
	       txtPassword.Text = ""
	       txtUsername.RequestFocus
	End If
End Sub
```

```
Sub cmdDelete_Click
	SQL1.ExecNonQuery("DELETE FROM tblUsers where ID = '" &ID & "' ")
	DBload
	txtUsername.Text = ""
	txtPassword.Text =""
End Sub

Sub LVDb_ItemClick (Position As Int, Value As Object)' click on the entry in the list
	Dim idvalue As String
	Dim countIt As Int

	idvalue = Value
	countIt = idvalue.IndexOf("|") 'find location of sperator
	idvalue = idvalue.SubString2(0,countIt) 'find first part of label text
	ID = idvalue
	cursor1 = SQL1.ExecQuery("SELECT * FROM tblUsers where ID = '" & ID & "' ")

	For i = 0 To cursor1.RowCount - 1
		cursor1.Position = i
		txtUsername.text=cursor1.getString("Username")
		txtPassword.text=cursor1.getString("Password")
	Next
End Sub

Sub cmdEdit_Click
	If txtUsername.Text = "" Or txtPassword.Text = "" Then
		Msgbox("Select item to edit","Missed data item")
	Else
		SQL1.ExecNonQuery("UPDATE tblUsers set Username ='"& txtUsername.text &"',Password ='"& txtPassword.text &"' WHERE ID = " & ID)

		 DBload
	End If
End Sub

Sub cmdExit_Click
	Activity.finish
End Sub
```

XXXXXXXXXXXX