FIT1013 – Digital Futures: IT for Business Tutorial 9 – Modularisation, Structure Charts and Connecting to External Data

Objectives

- Discuss program design approaches
- Design modules using structure charts
- Import data from external files

Reminder:

- 1. Ensure the Developer tab is visible on the Ribbon (If not, go to **File->Options-** >**Customize Ribbon**, and select **Developer** in the **Main Tabs** list).
- 2. Save your file as *Excel Macro-Enabled Workbook* (*.xlsm) type. Save your file as *Tute9.xlsm*
- 3. Open the VBE (Visual Basic editor) by selecting the **Developer** tab, then clicking the **Visual Basic** button on the **Code group** (or by pressing **<Alt>** and **<F11>**).

Exercise 1

- Use the downloaded copy of Tute9.accdb.
- Insert a user form and add the following controls.

Properties for the user form

Property	Value
Name	frmSelProducts
Caption	Select Product

CommandButton1

Property	Value
Name	cmdProductId
Caption	Product ID

CommandButton2

Property	Value
Name	cmdProductName
Caption	Product Name

ListBox control:

Property	Value
Name	IstProducts

- To extract data from Access and use it to populate the list box.
- Use the following code in click event of the cmdProductId.

Code:

Use the following code in click event of the cmdProductName

Save your work and test your application.

Note

If you get an error "user defined object not defined" you have to set references to the relevant object library.

Go to Tools>References and select "Microsoft ActiveX Data Objects 2.5 Library"

Exercise 2

- Use the downloaded copy of Tute9.accdb.
- Insert a user form and add the following controls.

Properties for the user form

Property	Value
Name	frmExportCustomer
Caption	Export Customers

Label1

Property	Value
Caption	Customer ID:

Label2

Property	Value
Caption	Name:

TextBox1

Property	Value
Name	txtCustomerID
Text	<blank></blank>

TextBox2

Property	Value
Name	txtName
Caption	<blank></blank>

CommandButton1

Property	Value
Name	cmdExport
Caption	Export

CommandButton2

Property	Value
Name	cmdClose
Caption	Close

Use the following code in click event of the cmdExport

Dim rstExport As ADODB.Recordset

Dim strOrderDatabase As String, strConnectionString As String

strOrderDatabase = ActiveWorkbook.Path & "\Tute9.accdb" strConnectionString = "Provider=Microsoft.Ace.OLEDB.12.0;Data Source=" & _ strOrderDatabase & ";Persist Security Info=False"

' (1) Create a Recordset (2) Delete all Records in Customer table Set rstExport = New ADODB.Recordset rstExport.Open "Delete * from tblCustomer", strConnectionString, adOpenStatic Set rstExport = Nothing

'(1) reCreate same Recordset again (2) Open up Interface Connection for Data Transfer Set rstExport = New ADODB.Recordset

rstExport.Open Source:="tblCustomer", ActiveConnection:=strConnectionString, _
CursorType:=adOpenDynamic, LockType:=adLockOptimistic, _
Options:=adCmdTable

With rstExport
.AddNew
.Fields![CustomerID] = txtCustomerID.Text
.Fields![CustomerName] = txtName.Text
.Save 'save Record
End With

'destroy the record set
rstExport.Close
Set rstExport = Nothing

Exercise 3 Please use the rest of the time to work on your assignment 2.