' Michael Voell

' College Majors

' 2/26/2016

' Purpose: To see the percentage of students in a specific major

Option Strict On

Public Class frmCollegeMajors

Private Sub CollegeMajorsBindingNavigatorSaveItem\_Click(sender As System.Object, e As System.EventArgs) Handles CollegeMajorsBindingNavigatorSaveItem.Click

Me.Validate()

Me.CollegeMajorsBindingSource.EndEdit()

Me.TableAdapterManager.UpdateAll(Me.CollegesDataSet)

End Sub

Private Sub frmCollegeMajors\_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load

'TODO: This line of code loads data into the 'CollegesDataSet.CollegeMajors' table. You can move, or remove it, as needed.

Try

Me.CollegeMajorsTableAdapter.Fill(Me.CollegesDataSet.CollegeMajors)

Catch ex As Exception

MsgBox("Cannot connect to database. Please try again.", , "Database Connection Error")

End Try

End Sub

Private Sub btnFindTotal\_Click(sender As System.Object, e As System.EventArgs) Handles btnFindTotal.Click

' Database Connection

Dim strSql As String = "SELECT \* FROM CollegeMajors"

Dim strPath As String = "Provider=Microsoft.ACE.OLEDB.12.0;" & "Data Source=E:\Advanced VB\CollegeMajors\CollegeMajors\colleges.accdb"

Dim odaColleges As New OleDb.OleDbDataAdapter(strSql, strPath)

Dim datCollegeInfo As New DataTable

odaColleges.Fill(datCollegeInfo)

odaColleges.Dispose()

' Calculation Variables

Dim decTotal As Decimal

' Counting number of students in all majors

For intCount = 0 To datCollegeInfo.Rows.Count - 1

decTotal = decTotal + Convert.ToDecimal(datCollegeInfo.Rows(intCount)("Number in Degree"))

Next

' Displaying number of students in all majors

lblTotalStudents.Text = "Total Amount of Students in Majors: " & decTotal.ToString()

' Getting selected item from Combo Box

Dim intDegreeRow As Integer = DegreeComboBox.SelectedIndex

' Calculation variables

Dim decStudentsInMajor As Decimal

Dim decPercentage As Decimal

Dim strSelectedMajor As String

' Getting the amount in the selected major and the name of the selected major (from combobox selection)

decStudentsInMajor = CDec(datCollegeInfo.Rows(intDegreeRow)("Number in Degree"))

strSelectedMajor = CStr(datCollegeInfo.Rows(intDegreeRow)("Degree"))

' Calculating percentage in the selected major)

decPercentage = decStudentsInMajor / decTotal

' Outputting the percentage to "Percentage of Students in \_\_\_\_\_\_: 00%" label

lblStudentsInSelectedMajor.Text = "Percentage of Students in " & strSelectedMajor & ": " & decPercentage.ToString("P")

End Sub

End Class

