

System Design

Sunshine State University Scholarship Fund Database – Visual Basic Code

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Student Information

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Partial Class _Default

Inherits System.Web.UI.Page

Private connectionString As String =
ConfigurationManager.ConnectionStrings("ids").ConnectionString

Protected Sub SubmitButton_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles SubmitButton.Click

Dim insertSQL As String

insertSQL = "INSERT INTO Student (SID, LName, FName, Address, City, State,
ZipCode, CurrentAmtAwarded)"

insertSQL &= "Values (@SID, @LName, @FName, @Address, @City, @State,
@ZipCode, @CurrentAmtAwarded)"

Dim con As New SqlConnection(connectionString)

Dim cmd As New SqlCommand(insertSQL, con)

cmd.Parameters.AddWithValue("@SID", StudentIDTextBox.Text)

cmd.Parameters.AddWithValue("@LName", LNameTextBox.Text)

cmd.Parameters.AddWithValue("@FName", FNameTextBox.Text)

```
cmd.Parameters.AddWithValue("@Address", StreetTextBox.Text)
cmd.Parameters.AddWithValue("@City", CityTextBox.Text)
cmd.Parameters.AddWithValue("@State", StateTextBox.Text)
cmd.Parameters.AddWithValue("@ZipCode", ZipCodeTextBox.Text)
cmd.Parameters.AddWithValue("CurrentAmtAwarded", "0")
```

```
InsertUpdateData(cmd)
```

```
MessageLabel.Text = "Successfully saved. Thank you."
```

```
End Sub
```

```
Public Function InsertUpdateData(ByVal cmd As SqlCommand) As Boolean
```

```
Dim con As New SqlConnection(connectionString)
```

```
cmd.CommandType = CommandType.Text
```

```
cmd.Connection = con
```

```
Try
```

```
con.Open()
```

```
cmd.ExecuteNonQuery()
```

```
Catch err As Exception
```

```
MessageLabel.Text = err.Message
```

Finally

con.Close()

con.Dispose()

End Try

End Function

Protected Sub ClearButton_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ClearButton.Click

StudentIDTextBox.Text = ""

LNameTextBox.Text = ""

FNameTextBox.Text = ""

StreetTextBox.Text = ""

CityTextBox.Text = ""

StateTextBox.Text = ""

ZipCodeTextBox.Text = ""

StudentIDTextBox.Focus()

End Sub

End Class

Student Application

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Partial Class StudentApp

Inherits System.Web.UI.Page

Private connectionString As String =
ConfigurationManager.ConnectionStrings("ids").ConnectionString

Protected Sub SubmitButton_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles SubmitButton.Click

Dim insertSQL As String

insertSQL = "INSERT INTO StudentApp (SID, AppYear, MajorCode, Residency,
FullTime, FinAidEligible, GradDate, CollegeCode, Rank, GPA, NumUnitsComp,
TuitionWaiver, AddtlComments)"

insertSQL &= "Values (@SID, @AppYear, @MajorCode, @Residency,
@FullTime, @FinAidEligible, @GradDate, @CollegeCode, @Rank, @GPA,
@NumUnitsComp, @TuitionWaiver, @AddtlComments)"

Dim con As New SqlConnection(connectionString)

Dim cmd As New SqlCommand(insertSQL, con)

cmd.Parameters.AddWithValue("@SID", StudentIDTextBox.Text)

```
cmd.Parameters.AddWithValue("@AppYear", AppYearTextBox.Text)
cmd.Parameters.AddWithValue("@MajorCode",
DeptDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@Residency", ResidentCheckBox.Checked)
cmd.Parameters.AddWithValue("@FullTime", FullTimeCheckBox.Checked)
cmd.Parameters.AddWithValue("@FinAidEligible", FinAidCheckBox.Checked)
cmd.Parameters.AddWithValue("@GradDate", GradDateTextBox.Text)
cmd.Parameters.AddWithValue("@CollegeCode",
CollegeDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@Rank", RankDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@GPA", GPATextBox.Text)
cmd.Parameters.AddWithValue("@NumUnitsComp",
NumUnitsCompTextBox.Text)
cmd.Parameters.AddWithValue("@TuitionWaiver",
TuitionWaiverCheckBox.Checked)
cmd.Parameters.AddWithValue("@AddtlComments",
AddtlCommentsTextBox.Text)
```

```
InsertUpdateData(cmd)
```

```
MessageLabel.Text = "Successfully saved. Thank you."
```

```
End Sub
```

```
Public Function InsertUpdateData(ByVal cmd As SqlCommand) As Boolean
```

```
Dim con As New SqlConnection(connectionString)
```

```
cmd.CommandType = CommandType.Text
```

```
cmd.Connection = con
```

```
Try
```

```
con.Open()
```

```
cmd.ExecuteNonQuery()
```

```
Catch err As Exception
```

```
MessageLabel.Text = err.Message
```

```
Finally
```

```
con.Close()
```

```
con.Dispose()
```

```
End Try
```

```
End Function
```

```
Protected Sub ClearButton_Click(ByVal sender As Object, ByVal e As  
System.EventArgs) Handles ClearButton.Click
```

```
StudentIDTextBox.Text = ""
```

```
AppYearTextBox.Text = ""
```

```
DeptDropDownList.SelectedIndex = 0
```

```
ResidentCheckBox.Checked = False
```

```
FullTimeCheckBox.Checked = False
```

```
FinAidCheckBox.Checked = False
```

```
GradDateTextBox.Text = ""  
CollegeDropDownList.SelectedIndex = 0  
RankDropDownList.SelectedIndex = 0  
GPATextBox.Text = ""  
NumUnitsCompTextBox.Text = ""  
TuitionWaiverCheckBox.Checked = False  
AddtlCommentsTextBox.Text = ""
```

```
StudentIDTextBox.Focus()
```

```
End Sub
```

```
End Class
```


Awards

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Partial Class Awards

Inherits System.Web.UI.Page

Private connectionString As String =
ConfigurationManager.ConnectionStrings("ids").ConnectionString

Protected Sub SubmitButton_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles SubmitButton.Click

Dim insertSQL As String

insertSQL = "INSERT INTO Award (AwardName, TotalFundsAvail, Guidelines,
Duration, NumofEligiblePeriods, Dept, College, InternalFunds, UnitsReqd, MaxStudAmt,
TuitionOnly, UniWide)"

insertSQL &= "Values (@AwardName, @TotalFundsAvail, @Guidelines,
@Duration, @NumofEligiblePeriods, @Dept, @College, @InternalFunds, @UnitsReqd,
@MaxStudAmt, @TuitionOnly, @UniWide)"

Dim con As New SqlConnection(connectionString)

Dim cmd As New SqlCommand(insertSQL, con)

cmd.Parameters.AddWithValue("@AwardName", AwardNameTextBox.Text)

cmd.Parameters.AddWithValue("@TotalFundsAvail",
TotalFundsAvailTextBox.Text)

```
cmd.Parameters.AddWithValue("@Guidelines", GuidelinesTextBox.Text)
cmd.Parameters.AddWithValue("@Duration", DurationTextBox.Text)
cmd.Parameters.AddWithValue("@NumofEligiblePeriods",
NumofEligiblePeriodsTextBox.Text)
cmd.Parameters.AddWithValue("@Dept", DeptDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@College", CollegeDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@InternalFunds",
InternalFundsCheckBox.Checked)
cmd.Parameters.AddWithValue("@UnitsReqd", UnitsReqdTextBox.Text)
cmd.Parameters.AddWithValue("@MaxStudAmt", MaxStudAmtTextBox.Text)
cmd.Parameters.AddWithValue("@TuitionOnly", TuitionOnlyCheckBox.Checked)
cmd.Parameters.AddWithValue("@UniWide", UniWideCheckBox.Checked)
```

```
InsertUpdateData(cmd)
```

```
MessageLabel.Text = "Successfully saved. Thank you."
```

```
End Sub
```

```
Public Function InsertUpdateData(ByVal cmd As SqlCommand) As Boolean
```

```
Dim con As New SqlConnection(connectionString)
```

```
cmd.CommandType = CommandType.Text
```

```
cmd.Connection = con
```

```
Try
```

```
con.Open()
```

```
cmd.ExecuteNonQuery()
```

```
Catch err As Exception
```

```
MessageLabel.Text = err.Message
```

```
Finally
```

```
con.Close()
```

```
con.Dispose()
```

```
End Try
```

```
End Function
```

```
Protected Sub ClearButton_Click(ByVal sender As Object, ByVal e As  
System.EventArgs) Handles ClearButton.Click
```

```
AwardNameTextBox.Text = ""
```

```
TotalFundsAvailTextBox.Text = ""
```

```
GuidelinesTextBox.Text = ""
```

```
DurationTextBox.Text = ""
```

```
NumofEligiblePeriodsTextBox.Text = ""
```

```
DeptDropDownList.SelectedIndex = 0
```

```
CollegeDropDownList.SelectedIndex = 0
```

```
InternalFundsCheckBox.Checked = False
```

```
UnitsReqdTextBox.Text = ""
```

```
MaxStudAmtTextBox.Text = ""
```

```
TuitionOnlyCheckBox.Checked = False
```

```
UniWideCheckBox.Checked = False
```

```
AwardNameTextBox.Focus()
```

```
End Sub
```

```
End Class
```

Student Awards

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Partial Class AwardNum

Inherits System.Web.UI.Page

Private connectionString As String =
ConfigurationManager.ConnectionStrings("ids").ConnectionString

Protected Sub SubmitButton_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles SubmitButton.Click

Try

Dim insertSQL As String

insertSQL = "INSERT INTO AwardNum (AwardName, Recipient, AwardAmt,
AwardDate)"

insertSQL &= "Values (@AwardName, @Recipient, @AwardAmt,
@AwardDate)"

Dim con As New SqlConnection(connectionString)

Dim cmd As New SqlCommand(insertSQL, con)

cmd.Parameters.AddWithValue("@AwardName",
AwardNameDropDownList.SelectedValue)

```
cmd.Parameters.AddWithValue("@Recipient",
RecipientDropDownList.SelectedValue)

cmd.Parameters.AddWithValue("@AwardAmt", AwardAmtTextBox.Text)
cmd.Parameters.AddWithValue("@AwardDate", AwardDateTextBox.Text)

InsertUpdateData(cmd)

Catch ex As Exception

    MessageLabel.Text = "Amount entered exceeds maximum allowed."

End Try

MessageLabel.Text = "Successfully saved. Thank you."

End Sub
```

```
Public Function InsertUpdateData(ByVal cmd As SqlCommand) As Boolean
```

```
    Dim con As New SqlConnection(connectionString)
    cmd.CommandType = CommandType.Text
    cmd.Connection = con
```

```
    Try
        con.Open()
        cmd.ExecuteNonQuery()
```

```
    Catch err As Exception
        MessageLabel.Text = err.Message
```

Finally

con.Close()

con.Dispose()

End Try

End Function

Protected Sub ClearButton_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ClearButton.Click

AwardNameDropDownList.SelectedIndex = 0

RecipientDropDownList.SelectedIndex = 0

AwardAmtTextBox.Text = ""

AwardDateTextBox.Text = ""

AwardNameDropDownList.Focus()

End Sub

Protected Sub UpdateStudent_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles UpdateStudent.Click

```
Dim updateStudentSQL As String
updateStudentSQL = "Update Student set CurrentAmtAwarded +=
@CurrentAmtAwarded WHERE SID = " & RecipientDropDownList.SelectedValue & ""
Dim con As New SqlConnection(connectionString)
Dim cmd As New SqlCommand(updateStudentSQL, con)

cmd.Parameters.AddWithValue("@CurrentAmtAwarded", AwardAmtTextBox.Text)

InsertUpdateData(cmd)

MessageLabel.Text = "Account Updated."

End Sub
```

Protected Sub UpdateAwardButton_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles UpdateAwardButton.Click

```
Dim updateAwardSQL As String
updateAwardSQL = "Update Award set TotalFundsAvail -= @TotalFundsAvail
WHERE AwardName = " & AwardNameDropDownList.SelectedValue & ""
Dim con As New SqlConnection(connectionString)
Dim cmd As New SqlCommand(updateAwardSQL, con)

cmd.Parameters.AddWithValue("@TotalFundsAvail", AwardAmtTextBox.Text)

InsertUpdateData(cmd)
```



```
MessageLabel.Text = "Account Updated."
```

```
End Sub
```

```
End Class
```

Committee Members

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Partial Class CommitteeMember

Inherits System.Web.UI.Page

Private connectionString As String =
ConfigurationManager.ConnectionStrings("ids").ConnectionString

Protected Sub SubmitButton_Click(ByVal sender As Object, ByVal e As
System.EventArgs) Handles SubmitButton.Click

Dim insertSQL As String

insertSQL = "INSERT INTO CommitteeMember (EmpID, LName, FName, Phone,
Ext, MailCode, OfficeNum, TermStart, TermEnd, College, Dept, EmpType)"

insertSQL &= "Values (@EmpID, @LName, @FName, @Phone, @Ext,
@MailCode, @OfficeNum, @TermStart, @TermEnd, @College, @Dept, @EmpType)"

Dim con As New SqlConnection(connectionString)

Dim cmd As New SqlCommand(insertSQL, con)

cmd.Parameters.AddWithValue("@EmpID", EmpIDTextBox.Text)

cmd.Parameters.AddWithValue("@LName", LNameTextBox.Text)

```
cmd.Parameters.AddWithValue("@FName", FNameTextBox.Text)
cmd.Parameters.AddWithValue("@Phone", PhoneTextBox.Text)
cmd.Parameters.AddWithValue("@Ext", ExtTextBox.Text)
cmd.Parameters.AddWithValue("@MailCode", MailCodeTextBox.Text)
cmd.Parameters.AddWithValue("@OfficeNum", OfficeNumTextBox.Text)
cmd.Parameters.AddWithValue("@TermStart", TermStartTextBox.Text)
cmd.Parameters.AddWithValue("@TermEnd", TermEndTextBox.Text)
cmd.Parameters.AddWithValue("@College", CollegeDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@Dept", DeptDropDownList.SelectedValue)
cmd.Parameters.AddWithValue("@EmpType", EmpTypeTextBox.Text)
```

```
InsertUpdateData(cmd)
```

```
MessageLabel.Text = "Successfully saved. Thank you."
```

```
End Sub
```

```
Public Function InsertUpdateData(ByVal cmd As SqlCommand) As Boolean
```

```
Dim con As New SqlConnection(connectionString)
```

```
cmd.CommandType = CommandType.Text
```

```
cmd.Connection = con
```

```
Try
```

```
con.Open()
```

```
cmd.ExecuteNonQuery()
```

Catch err As Exception

 MessageLabel.Text = err.Message

Finally

 con.Close()

 con.Dispose()

End Try

End Function

Protected Sub ClearButton_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ClearButton.Click

 EmpIDTextBox.Text = ""

 LNameTextBox.Text = ""

 FNameTextBox.Text = ""

 PhoneTextBox.Text = ""

 ExtTextBox.Text = ""

 MailCodeTextBox.Text = ""

 OfficeNumTextBox.Text = ""

 TermStartTextBox.Text = ""

 TermEndTextBox.Text = ""

 DeptDropDownList.SelectedIndex = 0

 CollegeDropDownList.SelectedIndex = 0

```
EmpTypeTextBox.Text = ""
```

```
EmpIDTextBox.Focus()
```

```
End Sub
```

```
End Class
```