

```
Private Sub cmdAdd_Click()  
    'Insure that required fields have entries.  
    'Also insure that entries are not longer than defined.  
    Select Case Len(txtPerson.Text)  
        Case Is = 0  
            MsgBox "Name is required!", vbOKOnly, "Invalid name!"  
            txtPerson.SetFocus  
            Exit Sub  
        Case Is > 40  
            MsgBox "Name is too long!", vbOKOnly, "Invalid name!"  
            txtPerson.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtAddress1.Text)  
        Case Is = 0  
            MsgBox "Address is required!", vbOKOnly, "Invalid address!"  
            txtAddress1.SetFocus  
            Exit Sub  
        Case Is > 25  
            MsgBox "Address is too long!", vbOKOnly, "Invalid address!"  
            txtAddress1.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtAddress2.Text)  
        Case Is > 25  
            MsgBox "Address is too long!", vbOKOnly, "Invalid address!"  
            txtAddress2.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtCity.Text)  
        Case Is = 0  
            MsgBox "City is required!", vbOKOnly, "Invalid city!"  
            txtCity.SetFocus  
            Exit Sub  
        Case Is > 20  
            MsgBox "City is too long!", vbOKOnly, "Invalid city!"  
            txtCity.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtState.Text)  
        Case Is = 0  
            MsgBox "State is required!", vbOKOnly, "Invalid state!"  
            txtState.SetFocus  
            Exit Sub  
        Case Is > 2  
            MsgBox "State is too long! (abbreviate)", vbOKOnly, "Invalid state!"  
            txtState.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtZipCode.Text)  
        Case Is > 5  
            MsgBox "Zip code is too long!", vbOKOnly, "Invalid zip code!"  
            txtZipCode.SetFocus  
            Exit Sub  
    End Select  
    Select Case Len(txtAreaCode.Text)  
        Case Is > 3  
            MsgBox "Area code is too long!", vbOKOnly, "Invalid area code!"  
            txtAreaCode.SetFocus  
            Exit Sub  
    End Select
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Select Case Len(txtPhone.Text)
  Case Is = 0
    MsgBox "Phone number is required!", vbOKOnly, "Invalid phone number!"
    txtPhone.SetFocus
    Exit Sub
  Case Is > 8
    MsgBox "Phone number is required!", vbOKOnly, "Invalid phone number!"
    txtPhone.SetFocus
    Exit Sub
End Select
frmMain.datPhone.Recordset.AddNew
frmMain.datPhone.Recordset.Fields("Person").Value = Trim(txtPerson.Text)
frmMain.datPhone.Recordset.Fields("Street1").Value = Mid(Trim(txtAddress1.Text), 1, 25)
frmMain.datPhone.Recordset.Fields("Street2").Value = Trim(txtAddress2.Text)
frmMain.datPhone.Recordset.Fields("City").Value = Trim(txtCity.Text)
frmMain.datPhone.Recordset.Fields("State").Value = Trim(txtState.Text)
frmMain.datPhone.Recordset.Fields("Zip").Value = Trim(txtZipCode.Text)
frmMain.datPhone.Recordset.Fields("AreaCode").Value = Trim(txtAreaCode.Text)
frmMain.datPhone.Recordset.Fields("Area").Value = Trim(txtAreaCode.Text)
'Not necessary to update PhoneNo as it is a foreign key
'frmMain.datPhone.Recordset.Fields("PhoneNo").Value = Trim(txtPhone.Text)
frmMain.datPhone.Recordset.Fields("PhoneNum").Value = Trim(txtPhone.Text)
frmMain.datPhone.UpdateRecord
frmMain.datPhone.Refresh
Unload frmAddRecords
End Sub

Private Sub cmdReturn_Click()
  Unload frmAddRecords
End Sub
```

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Dim strSQL As String

Private Sub cmdAdd_Click()

 frmAddRecords.Show vbModal

End Sub

Private Sub cmdDelete_Click()

 Dim answer As Integer

 If dblPhone.Text = "" Then

 MsgBox "Must choose a record to delete!", vbOKOnly, "Delete error!"

 Exit Sub

 Else

 answer = MsgBox("Are you sure?", vbYesNo, "Delete entry!")

 If answer = vbNo Then

 Exit Sub

 End If

 End If

 'Delete the currently displayed record

 datPhone.Recordset.Delete

 'Move so that user sees deleted record disappear

 datPhone.Recordset.MoveNext

 If datPhone.Recordset.EOF Then

 datPhone.Recordset.MovePrevious

 End If

 datAddress.Recordset.Delete

 datAddress.Recordset.MoveNext

 If datAddress.Recordset.EOF Then

 datAddress.Recordset.MovePrevious

 End If

 Unload frmMain

 frmMain.Show

End Sub

Private Sub cmdExit_Click()

 End

End Sub

Private Sub cmdRecordChanges_Click()

 Select Case Len(txtPerson.Text)

 Case Is = 0

 MsgBox "Name is required!", vbOKOnly, "Invalid name!"

 txtPerson.SetFocus

 Exit Sub

 Case Is > 40

 MsgBox "Name is too long!", vbOKOnly, "Invalid name!"

 txtPerson.SetFocus

 Exit Sub

 End Select

 Select Case Len(txtAddress1.Text)

 Case Is = 0

 MsgBox "Address is required!", vbOKOnly, "Invalid address!"

 txtAddress1.SetFocus

 Exit Sub

 Case Is > 25

 MsgBox "Address is too long!", vbOKOnly, "Invalid address!"

 txtAddress1.SetFocus

 Exit Sub

 End Select

 Select Case Len(txtAddress2.Text)

 Case Is > 25

 MsgBox "Address is too long!", vbOKOnly, "Invalid address!"

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        txtAddress2.SetFocus
    Exit Sub
End Select
Select Case Len(txtCity.Text)
    Case Is = 0
        MsgBox "City is required!", vbOKOnly, "Invalid city!"
        txtCity.SetFocus
        Exit Sub
    Case Is > 20
        MsgBox "City is too long!", vbOKOnly, "Invalid city!"
        txtCity.SetFocus
        Exit Sub
End Select
Select Case Len(txtState.Text)
    Case Is = 0
        MsgBox "State is required!", vbOKOnly, "Invalid state!"
        txtState.SetFocus
        Exit Sub
    Case Is > 2
        MsgBox "State is too long! (abbreviate)", vbOKOnly, "Invalid state!"
        txtState.SetFocus
        Exit Sub
End Select
Select Case Len(txtZipCode.Text)
    Case Is > 5
        MsgBox "Zip code is too long!", vbOKOnly, "Invalid zip code!"
        txtZipCode.SetFocus
        Exit Sub
End Select
Select Case Len(txtAreaCode.Text)
    Case Is > 3
        MsgBox "Area code is too long!", vbOKOnly, "Invalid area code!"
        txtAreaCode.SetFocus
        Exit Sub
End Select
datPhone.Recordset.Edit
datPhone.Recordset.Fields("Person").Value = Trim(txtPerson.Text)
datPhone.Recordset.Fields("Street1").Value = Mid(Trim(txtAddress1.Text), 1, 25)
datPhone.Recordset.Fields("Street2").Value = Trim(txtAddress2.Text)
datPhone.Recordset.Fields("City").Value = Trim(txtCity.Text)
datPhone.Recordset.Fields("State").Value = Trim(txtState.Text)
datPhone.Recordset.Fields("Zip").Value = Trim(txtZipCode.Text)
datPhone.Recordset.Fields("AreaCode").Value = Trim(txtAreaCode.Text)
datPhone.Recordset.Fields("Area").Value = Trim(txtAreaCode.Text)
datPhone.UpdateRecord
datPhone.Refresh
cmdAdd.Enabled = True
cmdExit.Enabled = True
cmdUpdate.Enabled = True
cmdRecordChanges.Visible = False
cmdDelete.Enabled = True
txtPerson.Visible = False
txtAddress1.Locked = True
txtAddress2.Locked = True
txtCity.Locked = True
txtState.Locked = True
txtZipCode.Locked = True
txtAreaCode.Locked = True
End Sub

Private Sub cmdUpdate_Click()
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If dblPhone.Text = "" Then
    MsgBox "Select an entry prior to update!", vbOKOnly, "Update an entry!"
    Exit Sub
End If
cmdAdd.Enabled = False
cmdExit.Enabled = False
cmdUpdate.Enabled = False
cmdDelete.Enabled = False
cmdRecordChanges.Visible = True
txtPerson.Visible = True
txtAddress1.Locked = False
txtAddress2.Locked = False
txtCity.Locked = False
txtState.Locked = False
txtZipCode.Locked = False
txtAreaCode.Locked = False
txtAreaCode.Text = Mid(txtAreaCode.Text, 2, 3)
End Sub
```

```
Private Sub dblPhone_Click()
    datPhone.Recordset.FindFirst "Person =" & "'" & dblPhone.Text & "'"
    txtPerson.Text = datPhone.Recordset.Fields("person").Value
    txtAddress1.Text = datPhone.Recordset.Fields("street1").Value
    txtAddress2.Text = datPhone.Recordset.Fields("street2").Value
    txtCity.Text = datPhone.Recordset.Fields("city").Value
    txtState.Text = datPhone.Recordset.Fields("state").Value
    txtZipCode.Text = datPhone.Recordset.Fields("zip").Value
    txtAreaCode.Text = "(" & datPhone.Recordset.Fields("areacode").Value & ")"
    txtPhone.Text = datPhone.Recordset.Fields("phonenumber").Value
End Sub
```

```
Private Sub Form_Load()
    'Open database
    datPhone.DatabaseName = App.Path & "\phone.mdb"
    datAddress.DatabaseName = App.Path & "\phone.mdb"
    strSQL = "SELECT phone.Person,phone.AreaCode, phone.phoneno, " & _
    "address.street1,address.street2,address.city,address.state, " & _
    "address.zip, address.PhoneNum,address.Area " & _
    "FROM phone INNER JOIN address " & _
    "ON phone.PhoneNo=address.PhoneNum " & _
    "ORDER BY phone.Person ASC"
    datPhone.RecordSource = strSQL
    datPhone.Refresh
    cmdRecordChanges.Visible = False
    txtPerson.Visible = False
End Sub
```

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Option Explicit