



ISE 211 - Industrial Information Systems Databases and Analysis

Lecture 9 - Chapter 6 - 2

Design Of

User / Machine Interface



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2011, İzmir



Agenda

- Adding Some code to Login Button (Lecture 8)
- Implementing Data Integrity Requirements
- Form Navigation
- Implementing The Password
- Adding Titles in the Header Area
- Single Table Form - Summary
- Project Discussions



Adding Some Code to Login

Start By Downloading -> Design view -> OnClick

The screenshot shows the Microsoft Access design view for a table named "VENDOR". The table structure is as follows:

Field Name	Field Type
VENDOR_ID	VENDOR_ID
V_NAME	V_NAME
ADDRESS	V_STREET
V_CITY	V_CITY
V_STATE	V_STATE
V_ZIP	V_ZIP
PHONE	V_PHONE
FAX	V_FAX
V_CONTACT	V_CONTACT

Below the table, there are four buttons: "Insert Record", "Delete Record", "Save Record", and "Login". The "Login" button is highlighted with a yellow border. On the right side, the "Property Sheet" for the "Login" button is open, showing the "Events" tab. A context menu is open over the "Click" event, with the "Oluştur..." (Create...) option highlighted by a red arrow.



Adding Some Code to Login

VENDOR

VENDOR_ID	VENDOR_ID		
V_NAME	V_NAME	PHONE:	V_PHONE
ADDRESS	V_STREET	FAX:	V_FAX
V_CITY:	V_CITY	V_CONTACT:	V_CONTACT
V_STATE	V_ZIP		
V_ST			

Insert Record Delete Record Save Record Login

```
Private Sub BtnLogin_Click()  
    Form_VENDOR.BtnInsert.Visible = True  
    Me.BtnDelete.Visible = True  
    Me.BtnSave.Visible = True  
  
    Me.lblDelete.Visible = True  
    Me.lblInsert.Visible = True  
    Me.lblSave.Visible = True  
  
    Me.VENDOR_ID.Locked = False  
    Me.V_NAME.Locked = False  
    Me.V_STREET.Locked = False  
    Me.V_CITY.Locked = False  
    Me.V_STATE.Locked = False  
    Me.V_ZIP.Locked = False  
    Me.V_PHONE.Locked = False  
    Me.V_FAX.Locked = False  
    Me.V_CONTACT.Locked = False  
  
End Sub
```



Try This (Exercise 6.7)

Insert - Save

1. With the **VENDOR** form in Form View, click the Login button to expose the other functions and unlock the data fields (textboxes).
2. Click on the **Insert Record** button. This action will navigate the form to a new record position, leaving blank fields in the text boxes.
3. Insert the following new record into the appropriate fields.

VENDOR_ID	V300
V_NAME	Finest Poultry
V_STREET	20 Farm Lane
V_CITY	Farmington
V_STATE	NJ
V_ZIP	08828
V_PHONE	732-321-3000
V_FAX	732-321-3111
V_CONTACT	Robert Tyson
4. After inserting the record on the form, click on the **Save Record** button. This will insure that the record is saved to the database.
5. Without closing the VENDOR form, go to the database window and click on the Tables Tab. Open the **VENDOR** table. Check to see that the new record has indeed been inserted. Close the table.



Try This (Exercise 6.8)

Change - Save

1. With the *VENDOR form* in Form View, move to the record that was inserted in Access Exercise 6.7.
2. Insert the cursor into the text box labeled FAX.
3. Change the Fax number to 732-321-3001. At this point the fax number is updated on the form.
4. Click on the *Save Record* button to commit the update. At this point the updated record is saved to the database.
5. Without closing the VENDOR form, go to the database window and click on the Tables Tab. Open the *VENDOR table*. Check to see that the updated record has indeed been saved. Close the table.



Try This (Exercise 6.9)

Delete - Save

1. With the *VENDOR* form in Form View, move to the record that was inserted in Access Exercise 6.7.
2. Click on the *Delete Record* button.
3. A prompt will appear informing you that the delete operation is irreversible. Select "yes". At this point the record should be erased from the form.
4. Click on the *Save Record* button and the deletion will be committed to the database.
5. Without closing the *VENDOR* form, go to the database window and click on the Tables Tab. Open the *VENDOR* table. Check to see that the deleted record has indeed been removed. Close the table.



Implementing (6.10) Data Integrity Requirements

- Complete Data Validation is **only possible** by special input devices as Barcode or magnetic or wireless readers.
- But we have some validation mechanism in forms.

1. Go to the Design View of the *VENDOR Form*. Click on the text box for *VENDOR_ID*. Open the properties window. One of the "Data" properties is the "Validation Rule" property (*see Figure 6.12*). Click on the panel and enter the rule *Like "V*"*. Click on the "Validation Text" panel and enter *This is not a legitimate Vendor_ID. The Vendor_ID must begin with "V"*. Close the property window.
2. Click on the text box for *V_STATE*. Place the cursor in the "Validation Rule" property panel. Enter the "*In*" expression containing the legal state abbreviations defined previously. Click on the Validation Text panel and enter *This is not a legitimate state code. Use the capital letter abbreviation for the state.* Close the property window.
3. Complete the validation rules and Validation Text properties for *V_Phone* and *V_Fax* as follows. Validation Rule: *Like "???-??-????"*. Validation Text: *This is not a valid entry. A valid entry is of the form xxx-xxx-xxxx.* Close the properties window.
4. Go to the Forms View and test the validation rules by trying to enter a new record that does not conform to the validation rules.

Implementing Data Integrity Requirements

- Complete Data Validation is **only possible** by special input devices as Barcode or magnetic or wireless readers.
- But we have some validation mechanism in forms.

Wizard

The screenshot shows a web application window titled 'VENDOR'. The main form contains the following fields:

- VENDOR_ID: V110
- V_NAME: Je Co.
- ADDRESS: 2 Main St. Patterson NJ 07055
- PHONE: 912-555-2300
- FAX: 912-555-2396
- V_CONTACT: Paul Caudel

A 'Login' button is located at the bottom of the form. At the bottom of the window, there is a status bar with 'Kayıt: 1 / 5', 'Filtre Yok', and 'Ara'.

On the right side, a 'Özellik Sayfası' (Property Page) is open for 'Seçim türü: Metin Kutusu'. It shows a table of properties for the 'VENDOR_ID' field:

Biçim	Veri	Olay	Diğer	Tümü
Denetim Kaynağı	VENDOR_ID			
Metin Biçimi	Düz Metin			
Giriş Maskesi				
Varsayılan Değer				
Geçerlilik Kuralı	Like "V*"			
Geçerlilik Metni				
Filtre Arama	Veritabanı Varsayılanı			
Etkin	Evet			
Kilitli	Evet			
Akıllı Etiketler				

A red arrow points to the 'Geçerlilik Kuralı' (Validation Rule) property, and a blue arrow points to the 'Özellik Sayfası' title bar.



Form Navigation

Pick List may Make Life Easy (6.11)

- Prefer simple and functional to make users Life Easy
- Always use a logical tree structure in basic navigation


1. Go to the Design View of the Vendor Form. Allow some room on the “Detail” portion of the form as shown in Figure 6.13.
2. Open the Toolbox. Select a “Combo Box” and put it in the upper right of the Detail portion of the form (*see Figure 6.14*). The “Combo Box Wizard” will then appear.
3. In the Combo Box Wizard, choose the option: ***“Find a record on my form based on the value I selected in my Combo Box”***. Then click on “Next”.
4. The Wizard will then allow you to select the fields for the Combo Box. Choose **VENDOR_ID** and **V_NAME**. Then click on the “Next” button.
5. The Wizard will display how the Combo Box will appear. Since the user is interested in the **V_NAME** to make the selection, the primary key (**VENDOR_ID**) should be hidden from the user. It will be used in the search to return the appropriate record. Click on “Next”.
6. The Wizard asks you to give a name to the caption next to the Combo Box. Type: ***Vendor pick list***. Click on “Finish”.
7. Go to the forms view and run the form. Experiment with the Combo Box. If the label or text box is not large enough, return to the design view, select the label or text box, and enlarge it.



Form Navigation

Pick List may Make Life Easy (6.11)

VENDOR

 **VENDOR**

Select Vendor Name

VENDOR_ID:

V_NAME:

ADDRESS:

PHONE:

FAX:

V_CONTACT:

Kayıt: 1 / 5



Implementing The Password

Authorization For A Group



Authentication



Forms Level



DBMS Level





Implementing The Password VBA Input Box in Access

```
VariableName = InputBox("User prompt string", "Title bar")
```

```
Private Sub BtnLogin_Click()  
    MyInput = InputBox("Enter Your Password", "PASSWORD REQUEST")  
  
    Form_VENDOR.BtnInsert.Visible = True  
    Me.BtnDelete.Visible = True
```

The screenshot shows a Microsoft Access form with a modal dialog box titled "PASSWORD REQUEST". The dialog box has a text input field containing "Enter Your Password" and two buttons: "OK" and "Cancel". The background form is partially visible, showing fields for address and contact information:

_ID:	:	:
:	2 Main St.	FAX: 912-555-2396
:	Patterson	V_CONTACT: Paul Caudel
	NJ	07055



Implementing The Password

VBA Message Box in Access

```
VariableName = MsgBox("Message", ICON number, "Title bar")
```

```
MyMessageBox = MsgBox("You have read only permission", vbOKOnly, "PERMISSION DENIED")  
Form.VENDOR.BtnInsert.Visible = True
```





Implementing The Password Retrieving a Database Record in Access

```
Private Sub BtnLogin_Click()  
    Dim Flag  
    Flag = 0  
    Dim Request As String  
    Dim Allowed As String  
  
    Dim MyDB As Database  
    Dim MyRec As Recordset  
    Dim MyFld As Field  
    Set MyDB = DBEngine.Workspaces(0).Databases(0)  
    Set MyRec = MyDB.OpenRecordset("PASSWORD")  
    Set MyFld = MyRec.Fields("PASSWD")  
  
    MyInput = InputBox("Enter Your Password", "PASSWORD REQUEST")  
  
    Do While Not MyRec.EOF  
        If MyInput = MyFld Then  
            Flag = 1  
        Else  
            End If  
        MyRec.MoveNext  
    Loop
```

Sorry
There is an unresolved bug



Implementing The Password Retrieving a Database Record in Access

Loop

If Flag = 1 Then

Form_VENDOR.BtnInsert.Visible = True

Me.BtnDelete.Visible = True

Me.BtnSave.Visible = True

Me.lblDelete.Visible = True

Me.lblInsert.Visible = True

Me.lblSave.Visible = True

Me.VENDOR_ID.Locked = False

Me.V_NAME.Locked = False

Me.V_STREET.Locked = False

Me.V_CITY.Locked = False

Me.V_STATE.Locked = False

Me.V_ZIP.Locked = False

Me.V_PHONE.Locked = False

Me.V_FAX.Locked = False

Me.V_CONTACT.Locked = False

Else

MyMessageBox = MsgBox("You have read only permission", vbOKOnly, "PERMISSION DENIED")

End If

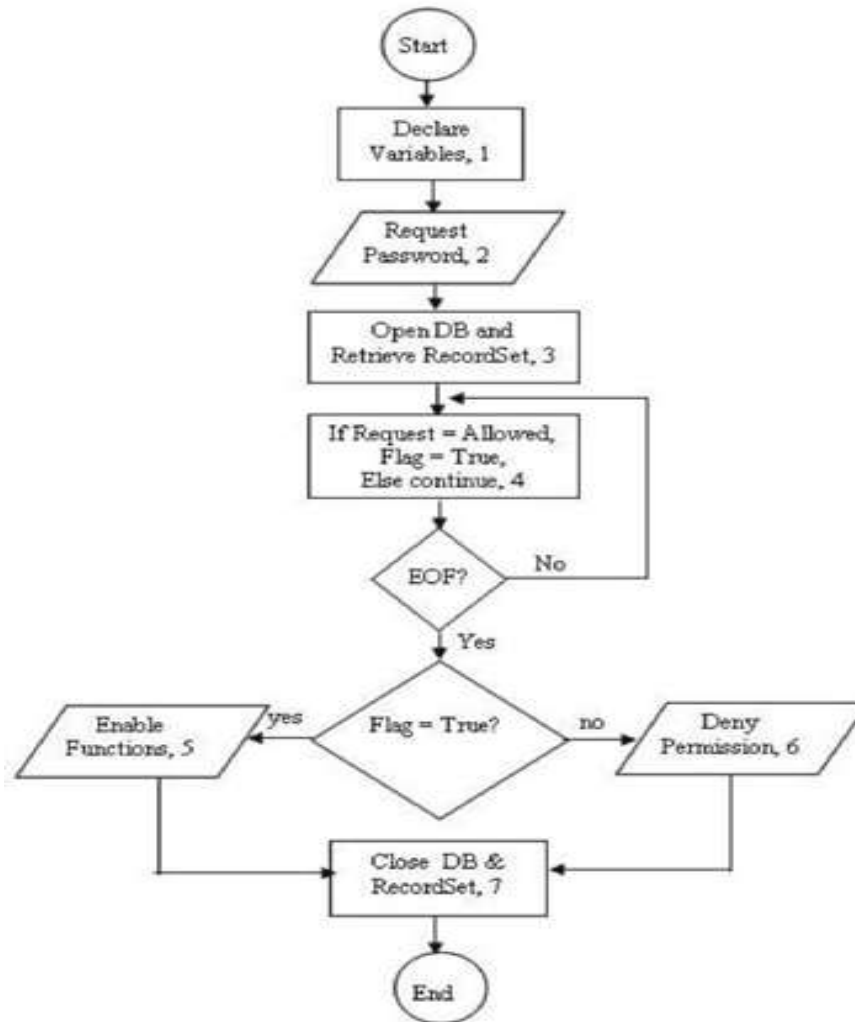
MyRec.Close

MyDB.Close

End Sub




Implementing The Password



Adding Title

VENDOR

The University Food Company
Balçova - İzmir

 VENDORS

Select Vendor Name

VENDOR_ID:

V_NAME:

ADDRESS:

PHONE:

FAX:

V_CONTACT:

Login

Kayıt: 1 / 5 Filtre Yok



Questions

[03~Material Manager2.accdb](#)

Next Week – Multi Table Forms

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