

KeepFormsSynchro

(Q) I can't put all the numerous fields of a table on one single form. I need several forms and will navigate thru them with buttons. Of course, when I navigate thru records, I want to keep all open forms synchronized with the active one. How can I get that ? tags: [HowTo](#)

(R) The synchronization will be obtained by using subforms and filters. However the challenge is to have one single concise code to do all the job.

Let's consider next tables:

- Orders table

Fields	Field Type	Primary
CustomerID	Text	
EmployeeID	Integer	
Freight	Number	
OrderDate	Date/Time	
OrderID	BigInt	Y
RequiredDate	Date/Time	
ShipAddress	Text	
ShipCity	Text	
ShipCountry	Text	
ShipName	Text	
ShippedDate	Date/Time	
ShipPostalCode	Text	
ShipRegion	Text	
ShipVia	Integer	

- Order Details table

Fields	Field Type	Primary
Discount	Float	
OrderID	BigInt	Y
ProductID	BigInt	Y
Quantity	Integer	
UnitPrice	Number	

- Customers table

Fields	Field Type	Primary
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Address	Text	
City	Text	
CompanyName	Text	
ContactName	Text	
Country	Text	
CustomerID	Text	Y
Fax	Text	
Phone	Text	
PostalCode	Text	
Region	Text	

- Products table

Fields	Field Type	Primary
CategoryID	BigInt	
ProductName	Text	
QuantityPerUnit	Text	
ReorderLevel	Integer	
SupplierID	BigInt	
UnitPrice	Number	
UnitsInStock	Integer	
UnitsOnOrder	Integer	
Discontinued	Boolean	
ProductID	BigInt	Y
Picture	Image	

- Employees table

Fields	Field Type	Primary
Address	Text	
BirthDate	Date/Time	
City	Text	
Country	Text	
Extension	text	
FirstName	text	
HireDate	Date/Time	
HomePhone	Text	
LastName	Text	
Notes	Text	
Photo	Text	
PostalCode	Text	
Region	Text	
ReportsTo	BigInt	

Title	Text	
TitleOfCourtesy	Text	
EmployeeID	BigInt	Y

We will use 4 forms:

- a *main* form and its subform for displaying Orders and their OrderDetails.
- 3 *auxiliary* forms for displaying on request more details about the concerned Customer, Product or Employee.
- 3 buttons (one for each of the 3 *auxiliary* forms) available from the *main* form activating the corresponding *auxiliary* form.

The trick is that when navigating among orders or order details, the open *auxiliary* forms remain synchronized with the *main* form and its subform.

Synchronize all forms

Link next code to next events:

- *After record change* in the form events list
- *Mouse button pressed* control events of each of the 3 buttons
- *After record change* in the **subform** events list

```
Sub SyncForms(poEvent As Object)

Dim ofForm As Object, oeEvent As Object, oTrigger As Object, oMainForm As Object
Dim sFilter As String, sEmployee As String, sCustomer As String, sProduct As String
Dim i As Integer, sForm As String
Const cstMainForm = "Orders_Details_Sync_Cust-Prod-Emp"
Const cstSuffix = "_Sync_Orders" ' Suffix of auxiliary form names

Set oeEvent = Events(poEvent)
Set oTrigger = oeEvent.Source ' Determine the trigger: one of
                               ' or record navigation in subform

Set oMainForm = AllForms(cstMainForm)
If Not oMainForm.IsLoaded Then Goto Exit_Sub ' May happen at form loading or

If Left(oTrigger.Name, Len("btn")) = "btn" Then ' Triggered by button
    sForm = Right(oTrigger.Name, Len(oTrigger.Name) - Len("btn")) & cstSuffix
    Set ofForm = AllForms(sForm) ' AllForms() collection
    If ofForm.IsLoaded Then ofForm.SetFocus() Else OpenForm(sForm)
End If

'Determine filters
sCustomer = "[CustomerID]=" & oMainForm.Controls("txtCustomerID").Value & ""
sProduct = "[ProductID]=" & oMainForm.Controls("SubForm").Form.Controls("SubFormID").Value & ""
sEmployee = "[EmployeeID]=" & oMainForm.Controls("fmtEmployeeID").Value & ""
For i = 0 To Forms().Count - 1 ' Iterate over all open forms
    Set ofForm = Forms(i)
    sFilter = ""
    Select Case Split(ofForm.Name, cstSuffix)(0)
        Case "Customers" : sFilter = sCustomer
        Case "Products" : sFilter = sProduct
        Case "Employees" : sFilter = sEmployee
        Case Else ' Ignore any other open form
    End Select
    If Len(sFilter) > 0 Then
        ofForm.Filter = sFilter
        ofForm.FilterOn = True
    End If
Next i

Exit_Sub:
```

```

        Set ofForm = Nothing
        Set oeEvent = Nothing
        Set oTrigger =Nothing
        Set oMainForm = Nothing
        Exit Sub
End Sub

```

To close all the forms simultaneously when the main form is closed

Link next Sub to the *Closed a sub component* event of the database file (Use the **Tools + Customize ... + Events** menu items).

```

Sub SyncCloseForms(poEvent As Object)

'        Fired at each component closure !!

Dim oEvent As Object
Const acForm = 2
Const cstMainForm = "Orders_Details_Sync_Cust-Prod-Emp"
        Set oEvent = Events(poEvent)
        If UCase(oEvent.SubComponentName) <> UCase(cstMainForm) Then Exit Sub
        DoCmd.mClose acForm, "Customers_Sync_Orders"
        DoCmd.mClose acForm, "Employees_Sync_Orders"
        DoCmd.mClose acForm, "Products_Sync_Orders"
        Exit Sub

End Sub

```

See also

AllForms

Close (method)

Event

Filter

FilterOn

Forms

Refer to ...

Basic module	Database event	Form	Form event	SubForm	SubForm event	Control	Control event	Comments
Synchro	Closed a sub-component	Orders_Details_Sync_Cust-Prod-Emp Customers_Sync_Orders Employees_Sync_Orders Products_Sync_Orders	After record change	SubForm	After record change	btnCustomers btnEmployees btnProducts	Mouse button pressed	

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