

Re: Problems with Delete Command

Source:

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.tablesdbdesign/2006-08/msg00707.html>

- *From:* "Graham Mandeno" <Graham.Mandeno@xxxxxxxxxxxxxx>
 - *Date:* Mon, 21 Aug 2006 11:00:32 +1200
-

Hi Bob

I'll give you a clue... it's called a "UNION query" :-)

The SQL could get fairly messy if you need to construct it in code, so I would create and save a union query with three columns: ContactName, ContactID, and WebComID, and create your on-the-fly SQL on that saved query, not on the base tables.

--

Good Luck!

Graham Mandeno [Access MVP]
Auckland, New Zealand

"Bob" <boblenders123@xxxxxxxxxx> wrote in message
news:1156085112.474939.103720@xx

Hi Graham,

Is it possible to modify your single query statement so that grabs the organisation name OR the firstname & lastname linked to the WebCom depending on the entity type?

eg something along the lines of:

```
"Select ((FirstName & ' ' & LastName as ContactName " _  
& "from Individuals inner join ContactWebComs " _  
& "on Individuals.ContactID = ContactWebComs.ContactID) " _  
& "OR (Organisations.Name" _  
& "from Organisations inner join ContactWebComs " _  
& "on Organisations.ContactID = ContactWebComs.ContactID)))"  
& "where WebComID=" & Me.ContactWebComs_WebComID _  
& " and Individuals.ContactID<>" & Me.ContactID
```

I've tried using the query designer in Access but I can't seem to construct a workable query.

I haven't got a clue how to join all the tables together to enable one

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query. Should I perform two separate queries in this instance?: One to check for a matching contactid in the individuals table and then a separate query against the organisations table?

Regards
Bob

Bob wrote:

Thanks alot Graham.

As a matter of fact it is working :-D

I just wasn't sure if there was a better way to do some of things I was doing. From the looks of the your comments, there's obviously room for improvement. Thanks for the tips.

Regards
Bob

Graham Mandeno wrote:

Hi Bob

Looks pretty good. You forgot to say if it's working or not :-)

A few comments:

1. There is nothing to be gained here by disabling warnings. Why are you using SetWarnings?

2. You are finding the names related to the WebComID using two queries – one to find the list of ContactIDs from the junction table, and another to find the list if individuals matching those ContactIDs using an IN clause.

It would be much easier and faster to run a single query:

```
"Select FirstName & ' ' & LastName as ContactName " _
```

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```
& "from Individuals inner join ContactWebComs " _
& "on Individuals.ContactID = ContactWebComs.ContactID
" _
& "where WebComID=" &
Me.ContactWebComs_WebComID _
& " and Individuals.ContactID<>" & Me.ContactID
```

Note that the concatenation of first and last name is happening in the query also.

3. The usual way to traverse a recordset is not to use RecordCount as a count loop limit, but instead to loop until the EOF condition is met:

```
Do Until rstTemp.EOF
' do something with record
rstTemp.MoveNext
Loop
```

Then you don't need to do a MoveLast/MoveFirst to ascertain the RecordCount.

4. This is a style/readability thing: if you are going to use string variables to construct messages and SQL strings and suchlike, set their values just before you use them, otherwise someone trying to read the code has to scroll back and forth to remember what's in the string.

--
Good Luck!

Graham Mandeno [Access MVP]
Auckland, New Zealand

"Bob" <boblanders123@xxxxxxxx> wrote in message
news:1155916894.905489.203080@xx

Thanks Graham.

Sorry for the delayed response. I wanted to see if I could cobble something together myself without asking for help everytime. The fruits of my labour appear below. Again, any suggestions for

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improvement would be appreciated.

Private Sub

txtWebComType_BeforeUpdate(Cancel As Integer)

'Prevent user warnings
DoCmd.SetWarnings False

If IsNull(Me.txtWebComType) Then

' Dimension variables

Dim strMsg_Del As String ' First delete confirmation

Dim strTitle_Del As String ' Title for first delete confirmation

Dim strMsg_Contacts As String ' Second delete confirmation (record relates to other contacts)

Dim strTitle_Contacts As String ' Title for second delete confirmation

Dim strSQL_Contacts As String ' SQL string to check if record relates to other Contacts

Dim strSQL_ScrollBars As String ' SQL string to determine if vertical scrollbars are required

Dim strSQL_DeleteMain As String ' SQL string to delete entry in main (not junction) table

Dim strSQL_ContactNames As String ' SQL string to get names of related contacts

Dim rstTemp As DAO.Recordset ' Recordset to store details of other Contacts related to existing record

' Initialise variables

strMsg_Del = "Would you like to delete this entry?"

strTitle_Del = "Delete WebCommunication Record"

strMsg_Contacts = "This record relates to the other Contacts listed

below. " & vbCrLf

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```
strMsg_Contacts = strMsg_Contacts & "Do  
you want to want to delete  
the record for these Contacts too?"  
strTitle_Contacts = "Multi-Contact Record"  
  
strSQL_Contacts = "SELECT * FROM  
ContactWebComs " & _  
"WHERE  
([ContactWebComs].[WebComID]=" &  
Me.ContactWebComs_WebComID & ") " &  
_  
"AND NOT  
([ContactWebComs].[ContactID] = " &  
Me.ContactID & ")"  
  
strSQL_DeleteMain = "Delete * from  
WebComs where WebComID=" &  
Me.ContactWebComs_WebComID & ""  
  
strSQL_ContactNames = "SELECT  
Individuals.FirstName,  
Individuals.LastName FROM Individuals  
WHERE Individuals.ContactID IN  
"  
  
' Undo changes to existing row  
Me.Undo  
Cancel = True  
  
' Make sure that the user is not simply trying  
to delete an empty  
row  
If  
IsNull(Me.ContactWebComs_WebComID)  
Then  
  
' Row did not relate to an existing record –  
no need to access  
database  
' Just remove the empty row on the form  
Me.AllowAdditions = False  
  
' Row relates to an existing record  
Else  
  
' Does user want to proceed with delete?  
If MsgBox(strMsg_Del, vbQuestion Or  
vbYesNo Or  
vbDefaultButton2, strTitle_Del) _  
= vbYes Then
```

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```
' Delete command confirmed – now assess
the user's options
' First: Check whether entry relates to other
Contacts in
the Junction Table
Set rstTemp =
CurrentDb.OpenRecordset(strSQL_Contacts)

' Make sure the recordset is not empty
If Not rstTemp.EOF Then

' record relates to other Contacts
Dim fld As Field
Dim strFields As String
Dim strContactIDS As String
Dim strContactNames As String

strContactIDS = "("
strContactNames = ""

rstTemp.MoveLast
rstTemp.MoveFirst

' Enumerate related ContactIDs
For i = 1 To rstTemp.RecordCount
strContactIDS = strContactIDS &
rstTemp.Fields("ContactID").Value
strContactIDS = strContactIDS & ","
rstTemp.MoveNext
Next i

' Remove last comma
strContactIDS = Mid(strContactIDS, 1,
(Len(strContactIDS) – 1))
strContactIDS = strContactIDS & ")"

' Clear existing recordset variable
rstTemp.Close
Set rstTemp = Nothing

' reset recordset variable
Set rstTemp =
CurrentDb.OpenRecordset(strSQL_ContactNames
& strContactIDS)

rstTemp.MoveLast
rstTemp.MoveFirst

' Enumerate related Contact Names
For i = 1 To rstTemp.RecordCount
strContactNames = strContactNames &
```

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```
rstTemp.Fields("FirstName").Value & " "  
strContactNames = strContactNames &  
rstTemp.Fields("LastName").Value &  
vbCrLf  
rstTemp.MoveNext  
Next i  
  
' Query user: delete the underlying record or  
just  
the Junction Table entry?  
Select Case MsgBox(strMsg_Contacts &  
vbCrLf &  
vbCrLf & _  
"Related Contacts: " & vbCrLf &  
strContactNames, _  
vbQuestion + vbYesNoCancel +  
vbDefaultButton2,  
strTitle_Contacts)  
  
Case vbYes  
MsgBox ("Confirmed delete underlying  
table.")  
GoTo Delete_Main  
Case vbNo  
MsgBox ("Confirmed delete junction table  
entries only." & _  
vbCrLf & vbCrLf & "strSQL_DeleteMain: "  
&  
strSQL_DeleteMain)  
GoTo Delete_Junction  
Case vbCancel  
Exit Sub  
Case Else  
Stop  
End Select  
  
Else  
' If recordset is empty, record relates to this  
Contact only  
GoTo Delete_Main  
End If  
  
End If ' User has cancelled delete command  
– No need to for  
extra Undo and Cancel  
  
End If ' Close second If ... Then statement  
(IsNull(Me.ContactWebComs_WebComID))  
  
End If ' Close first If ... Then statement  
(IsNull(Me.txtWebComType))
```

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```
'Reset original settings  
DoCmd.SetWarnings True
```

```
Exit Sub
```

```
Delete_Main:
```

```
' Delete entries in the primary table (cascade  
delete will delete  
junction table entries)  
CurrentDb.Execute strSQL_DeleteMain,  
dbFailOnError
```

```
Me.Requery
```

```
' Make sure there is no empty "add new  
record" row  
Me.AllowAdditions = False
```

```
Exit Sub
```

```
Delete_Junction:
```

```
' WebCom relates to other Contacts, delete  
Junction Table entries  
only  
Set rstTemp2 = Me.RecordsetClone
```

```
' Make sure recordset is not empty  
If Not Me.RecordsetClone.EOF Then
```

```
With Me.RecordsetClone  
.Bookmark = Me.Bookmark  
.Delete  
End With
```

```
' Make sure there is no empty "add new  
record" row  
Me.AllowAdditions = False
```

```
' Clean Up  
rstTemp2.Close  
Set rstTemp2 = Nothing
```

```
Exit Sub
```

```
End If
```

```
End Sub
```

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Regards
Bob

Graham Mandeno wrote:

Hi Bob

I see your misunderstanding.
RecordsetClone should be used only to delete the junction record that is currently displayed in your subform, simply to avoid the #Deleted display. You could do a SQL delete followed by Me.Requery if you prefer (remembering the Me.Undo first, of course!)

To delete the record in WebComs, do a SQL delete:

```
CurrentDb.Execute "Delete  
* from tblWebComs where  
WebComID=" _  
& lngID, dbFailOnError
```

If you ALWAYS want to delete ALL the related junction table records, then forget the RecordsetClone.Delete and just execute the SQL delete followed by Me.Requery. (The cascade deletes will take care of the rest.)

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--

Good Luck!

Graham Mandeno [Access
MVP]
Auckland, New Zealand

"Bob"

<boblanders123@xxxxxxxx>

wrote in message

news:1155634546.940035.82070@xx

Hi Graham,

I have
cascade
deletes set
at the
moment.
But how do
I get
recordsetclone
to point to
one table
rather than
the other to
facilitate
switching
between
options? (ie
to delete
from
WebComs
and
the junction
table for
option 3,
but only
from the
junction
table
if
the record
in
WebComs
is required
for other
relationships
as per
option
2).

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Do I need to
fiddle with
the select
query that I
am
currently
using as
the record
source for
the subform
(see my first
post) to
enable
recordsetclone
to achieve
this? Or is
recordsetclone
not able to
be
used where
you have a
many to
many
relationship?

Regards
Bob

Hi
Bob

Yes
–
basically
the
user
has
four
choices
(you
may
not
wish
to
offer
all

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of
them):

1.
Do
nothing
and
undo
the
change
to
the
record.
2.
Delete
the
junction
record
and
leave
the
WebComs
record
intact
3.
Delete
the
junction
record
and
the
WebComs
record
if
it
is
no
longer
referenced.
4.
Delete
all
related
junction
records
AND
the
WebComs
record

Currently

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you
are
offering
only
1
or
2.

You
can
facilitate
4
by
setting
Cascade
Deletes
on
the
relation
between
WebComs
and
the
junction
table.

--
Good
Luck!

Graham
Mandeno
[Access
MVP]
Auckland,
New
Zealand

"Bob"
<fakeemail@xxxxxxxx>
wrote
in
message
[news:44e0d94a\\$0\\$19634\\$5a62ac22@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:44e0d94a$0$19634$5a62ac22@xxxxxxxxxxxxxxxxxxxxxxxx)

Hi
Graham,

Yes,
there
is

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meant
to
be
a
many
to
many
relationship
here.
I
am
surprised
that
the
recordsetclone
property
doesn't
delete
the
entries
in
both
tables
at
the
same
time
since
the
form's
recordsource
contains
an
inner
join.

As
for
"lights
out"
code
you
mentioned,
to
be
honest
I
hadn't
even
thought
of

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that.
Conceptually,
then,
I
take
it
that
the
code
has
to
follow
the
following
procedure:

1.
Allow
user
to
invoke
delete
(by
clearing
text
box)
2.
Get
user
confirmation
to
delete
3.
Lookup
the
ContactWebComs
table
to
check
if
current
WebCom
is
linked
to
any
other
entries
4.
If
other

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entries
exist,
advise
user
-
and
delete
the
relevant
junction
table
entries
only
(ie
leave
entry
in
WebComs
alone)
5.
Else,
delete
entries
in
both
tables.

Is
this
the
way
it's
normally
done?

Thanks
Bob

"Graham
Mandeno"
<Graham.Mandeno@xxxxxxxxxxxxxxxx>
wrote
in
message
news:OY54NT5vGHA.724@xxxxxxxxxxxxxxxxxxxxxxxx

But
the
fact

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that
you
have
a
junction
table
suggests
a
many-to-many
relationship.
One
contact
has
many
WebComs
and
one
WebCom
can
be
shared
by
many
contacts.

Is
this
the
case?

If
not,
then
you
need
to
change
your
design.
If
one
WebCom
cannot
be
shared
by
many
contacts
then
you
don't

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need
a
junction
table
–
you
just
need
a
ContactID
field
in
tblWebComs
and
a
ONE-to-many
relationship.

If
it
truly
is
many-to-many,
then
perhaps
you
want
to
have
additional
code
that
says,
"If
this
guy
is
the
last
to
leave
then
turn
out
the
lights".
In
other
words,
if
no

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further
ContactWebComs
records
refer
to
this
WebComs
record,
then
delete
it.

--

Graham
Mandeno
[Access
MVP]
Auckland,
New
Zealand

"Bob"
<boblanders123@xxxxxxxx>
wrote
in
message
news:1155540093.550085.288790@xxxxxxxx

Hi
Graham,

Just
in
case
I've
got
part
of
this
wrong,
this
is
what
I
now
have
in
my
BeforeUpdate
event:

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```
If
IsNull(Me.txtWebComType)
Then
Dim
strMsg
As
String
Dim
strTitle
As
String
Dim
strSQL
As
String
strMsg
=
"Would
you
like
to
delete
this
entry?"
strTitle
=
"Delete
WebCommunication
Record"
Me.Undo
'
do
this
unconditionally
Cancel
=
True
If
MsgBox(strMsg,
vbQuestion
Or
vbYesNo
Or
vbDefaultButton2,
strTitle)
=
vbYes
Then
```

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```
With  
Me.RecordsetClone  
.Bookmark  
=  
Me.Bookmark  
.Delete  
End  
With
```

```
End  
If  
End  
If
```

This certainly works without have to requery the database after the delete. Unfortunately, the code is only deleting the entries in my junction table (ContactWebComs) – not the entries in my linked table (WebComs).

Regards

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Bob

Graham
Mandeno
wrote:

Hi
Bob

Instead
of
Me.Recordset.Delete
try
With
Me.RecordsetClone
.Bookmark
=
Me.Bookmark
.Delete
End
With

The
method
using
RecordsetClone
should
work
with
all
versions
of
Access
and
not
require
a
Requery.
Opening
a
separate
Recordset
will
still
require
a
requery
(as
will

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a
SQL
delete)
because
the
form's
recordset
is
not
being
used.

And
no,
you
do
not
require
the
second
Undo/Cancel.
If
txtWebComType
has
been
cleared
then
the
Undo/Cancel
must
happen
in
any
case
—
either
because
the
user
does
not
want
to
delete
the
record,
or
because
the
lock
on

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the
record
must
be
released
so
it
can
be
deleted.
That's
why
I
moved
it
up
before
the
If
MsgBox...

The
reason
the
code
does
not
work
in
AfterUpdate
is
that
only
the
FIELD
has
been
updated
at
that
point,
not
the
entire
record,
so
the
record
is
still
in

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the
process
of
being
edited.

--
Good
Luck!

Graham
Mandeno
[Access
MVP]
Auckland,
New
Zealand

"Bob"
<boblanders123@xxxxxxxx>
wrote
in
message
<news:1155514105.836503.12>