

Re: Multiple table in dataset query

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.adonet/2007-02/msg00027.html>

- *From:* "RobinS" <RobinS@xxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 1 Feb 2007 14:13:50 -0800
-

When you call Update on the data adapter, it will iterate through the rows. If a row is marked as Modified, it will run your query defined in the Update Command object. If it is marked as deleted, it will run the query defined in the Delete Command object. If it is marked as Added, it will run the query defined in the Insert Command object.

Hope this helps.

Robin S.

"Microsoft" <lee.clements.nospam@xxxxxxxxxxxxxxxxxx> wrote in message news:eGOLfsiRHHA.1860@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Thanks Kerry for the pointers on the combobox, I will look into this in the future once I have the basic data stuff sorted. I have come a little bit unstuck actually, I have modified my SaveChanges proc to reflect the new Update command and its parameters, but I am a bit lost in actually performing the update. I have multiple rows that have been modified so do I have to execute the DataAdapter.Update(x,x) multiple times for each row?

The code I have so far is :-

```
Private Sub SaveChanges()  
Dim UpdateStaffCmd As New OleDb.OleDbCommand  
Dim lngRetVal As Long  
Dim dsChanges As DataSet  
Dim dtTable As DataTable  
Dim myDataRow As DataRow  
  
' create a parameterized query to perform the update  
UpdateStaffCmd.CommandType = CommandType.Text  
  
' the '?' represent the parameters  
UpdateStaffCmd.CommandText = "Update tblStaff Set staff_id = ?,  
staff_initials = ?, staff_name = ?, staff_title = ?, staff_active = ?,  
staff_office_id = ? WHERE staff_id = ?"
```

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```
' add the parameters in the same order as indicated the commandtext
UpdateStaffCmd.Parameters.Add("staff_id", OleDb.OleDbType.Integer, 4)
UpdateStaffCmd.Parameters.Add("staff_initials", OleDb.OleDbType.VarChar,
4)
UpdateStaffCmd.Parameters.Add("staff_name", OleDb.OleDbType.VarChar, 50)
UpdateStaffCmd.Parameters.Add("staff_title", OleDb.OleDbType.VarChar, 50)
UpdateStaffCmd.Parameters.Add("staff_active", OleDb.OleDbType.Binary)
```

' The datagrid would display LONDON but the ID value is actually 1, so do I need another datatable to hold this information and use a datarelation object? this is much harder than the old ADO!!!

```
UpdateStaffCmd.Parameters.Add("staff_office_id", OleDb.OleDbType.Integer)
```

```
' assign the update command to the data adapter
daStaff.UpdateCommand = UpdateStaffCmd
```

```
' get the changed datarows and store in new dataset
dsChanges = dsStaff.GetChanges(DataRowState.Modified)
```

```
' get the datatable so that I can access the datarow
dtTable = dsChanges.Tables("Staff")
```

```
For Each myDataRow In dtTable.Rows
Console.WriteLine(myDataRow.Item)
Next
```

```
lngRetVal = daStaff.Update(dsChanges, "Staff")
```

```
If lngRetVal > 0 Then
dsStaff.AcceptChanges()
End If
```

```
End Sub
```

Sorry – this probably seems very trivial, but I cannot seem to find a comprehensive example in any documentation, just bits and pieces which I am trying to tie together. At least I am learning how to do it properly. I am reading an article on Data concurrency at the minute, very interesting – not something I had even considered yet. Oh boy – its going to be a long night.

Thank you all for any assistance.
Lee

"Kerry Moorman" <KerryMoorman@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:9DC8D049-F072-44C4-8271-A92CFADBA983@xxxxxxxxxxxxxxxxxxxx

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Lee,

Here is some information on placing a combobox into a datagrid in .Net 1.1:

http://www.syncfusion.com/FAQ/WindowsForms/FAQ_c44c.aspx#q480q

Also, keep in mind that the code that Robin showed you does not handle concurrency issues. If your program will be used by multiple users all hitting a central database then you must deal with concurrency in your SQL update and delete statements.

Kerry Moorman

"Microsoft" wrote:

Yes I think I understand where your coming from, effectively I need to create a new parameterized query for the update and insert command which is then assigned to the dataadapter.

I have found some articles on doing this so I will have a play around with it. The other problem I've recognised in doing this is that ideally I need a combobox in the dataqgrid for the user to select from the fields in the other table – which isn't supported with the datagrid in 1.1, not sure about 2.0. I will get to this later, for now I will concentrate on getting the updates working.

Thanks for your help.
Lee

"RobinS" <RobinS@xxxxxxxxxxxxxxxx> wrote in message news:DIednU8aQKZ3h1zYnZ2dnUVZ_r-onZ2d@xxxxxxxxxxxxxxxx

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First of all, be aware that the
CommandBuilder is only effective for
really simple updates, like if you have a list
of fields with a
primary
key.

You can **not** do updates using the
CommandBuilder if you have a join
in
your SQL statement.

You will have to write your own SQL for the
update, insert, and
delete
commands, so they update only the one
table.

Example:

```
Update tblStaff Set staff_id = ?, staff_initials  
= ?, staff_name = ?,  
staff_title = ?, staff_active = ? WHERE  
staff_id = ?
```

and then add parameters for those (in that
order) from the data row
in
your dataset.

Does that make sense?

Robin S.

"Microsoft"

<lee.clements.nospam@xxxxxxxxxxxxxxxx>

wrote in message

[news:%2380X%23\\$VRHHA.4448@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%2380X%23$VRHHA.4448@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Hi everyone,

Before I begin I should
point out that I am quite
new to programming
and
VB.net and am using
VS2003 with SQLExpress
2005.

I have two data tables a staff
table and an office table, the

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linking
field is office_id. I have
created a form and added a
datagrid, when
the
form loads I create a new
DataAdapter, Connection
and DataSet and
select
the records from the staff
table linking with the office
table to
display
the office name rather than
the ID.

```
Private Sub  
frmStaff_Load(ByVal  
sender As System.Object,  
ByVal e As  
System.EventArgs) Handles  
MyBase.Load
```

```
Dim dcConn as New  
OleDb.OleDbConnection("Integrated  
Security=SSPI;Packet  
Size=4096;Data  
Source='SERVER\INSTANCE';Initial  
Catalog=Planner;Persist  
Security  
Info=False;Provider="SQLOLEDB.1")
```

```
Dim daStaff = New  
OleDb.OleDbDataAdapter("SELECT  
a.staff_id,  
a.staff_initials,  
a.staff_name, a.staff_title,  
a.staff_active,  
b.office_name FROM  
tblStaff a, tblOffice b  
WHERE a.staff_office_id =  
b.office_id", dcConn)
```

```
Dim dsStaff as New  
System.Data.DataSet  
daStaff.Fill(dsStaff,  
"tblStaff")
```

```
' set the binding context  
currManager =  
CType(Me.BindingContext(dsStaff.Tables("Staff")),
```

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CurrencyManager)

```
' Set the databindings  
DataGrid1.DataSource =  
dsStaff.Tables("Staff")
```

....

Here I create all the
DataGridViewTextBoxColumn
and set the mapping to
the
relevant field, etc.

....

End Sub

```
' The procedure for saving  
the changes is:-  
Private Sub SaveChanges()  
Dim cmdBuilder As New  
OleDb.OleDbCommandBuilder(daStaff)  
Dim lngRetVal As Long
```

```
lngRetVal =  
daStaff.Update(dsStaff,  
"Staff")  
If lngRetVal > 0 Then  
dsStaff.AcceptChanges()  
End If  
End Sub
```

The form loads ok and the
grid is populated, however
when I call the
update command on the
DataAdapter I get an error
saying that I
cannot use
the commandbuilder to
update multiple tables. So
my question is how
the
hell do I do this? I prefer to
manually code it rather than
using
the
wizards to really understand
it. Plus the wizards don't
actually
work
SQLExpress 2005. I have

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read several tutorials but
none seem to
cover
what I want, my MCSD
book I bought doesn't really
explain how to do
this
in real terms.

Any help, pointers, guidance
or links to useful articles
would be
very
much appreciated. I'm
completely lost and
don't know where to go from
here.

Thank you in advance for
taking the time to read my
query!
Cheers
Lee