

## Re: Correct way of using OleDbAdapter and DataSet to update Access database?

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- *From:* "JoWilliam" <[XjohnXwilliams\\_Xesq@xxxxxxxxxxxxxx](mailto:XjohnXwilliams_Xesq@xxxxxxxxxxxxxx)>
  - *Date:* Tue, 9 Jan 2007 13:45:23 -0000
- 

I've finally sussed it.

The Update command and parameters as generated by the designer were:

```
Me.OleDbUpdateCommand1.CommandText = "UPDATE Table1 SET Reference =
?, Name = ? WHERE (Reference = ?) AND (Name = ? OR " & _
"? IS NULL AND Name IS NULL)"
Me.OleDbUpdateCommand1.Connection = Me.OleDbConnection1
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Reference",
System.Data.OleDb.OleDbType.VarWChar, 10, "Reference"))
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Name",
System.Data.OleDb.OleDbType.VarWChar, 50, "Name"))
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Original_Reference",
System.Data.OleDb.OleDbType.VarWChar, 10,
System.Data.ParameterDirection.Input, False, CType(0, Byte), CType(0, Byte),
"Reference", System.Data.DataRowVersion.Original, Nothing))
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Original_Name",
System.Data.OleDb.OleDbType.VarWChar, 50,
System.Data.ParameterDirection.Input, False, CType(0, Byte), CType(0, Byte),
"Name", System.Data.DataRowVersion.Original, Nothing))
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Original_Name1",
System.Data.OleDb.OleDbType.VarWChar, 50,
System.Data.ParameterDirection.Input, False, CType(0, Byte), CType(0, Byte),
"Name", System.Data.DataRowVersion.Original, Nothing))
```

I changed the command and deleted 3 of the parameters:

```
Me.OleDbUpdateCommand1.CommandText = "UPDATE Table1 SET Name = ?
WHERE (Reference = ?)"
Me.OleDbUpdateCommand1.Connection = Me.OleDbConnection1
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Name",
```

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```
System.Data.OleDb.OleDbType.VarWChar, 50, "Name"))
Me.OleDbUpdateCommand1.Parameters.Add(New
System.Data.OleDb.OleDbParameter("Original_Reference",
System.Data.OleDb.OleDbType.VarWChar, 10,
System.Data.ParameterDirection.Input, False, CType(0, Byte), CType(0, Byte),
"Reference", System.Data.DataRowVersion.Original, Nothing))
```

and now the OleDbDataAdapter.Update method works successfully when updating an existing record.

"JoWilliam" <XjohnXwilliams\_Xesq@xxxxxxxxxxxx> wrote in message  
[news:envuc3\\$3ef\\$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:envuc3$3ef$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

I've got a little further and think I need to use the DataTable.Rows.Find method to determine whether the record exists or not. If it doesn't, add a new record, otherwise update the existing record.

Here is the test code:

```
Dim myDataRow As DataRow
Dim myDataTable As DataTable

OleDbDataAdapter1.Fill(DataSet11, "Table1")
myDataTable = DataSet11.Tables("Table1")

myDataRow = myDataTable.Rows.Find("1")

If myDataRow Is Nothing Then

'Add new record

myDataRow = myDataTable.NewRow
myDataRow("Reference") = "1"
myDataRow("Name") = "A"
myDataTable.Rows.Add(myDataRow)

Else

'Record already exists, so just update the name

myDataRow("Name") = myDataRow("Name") + "B"

End If

Try
OleDbDataAdapter1.Update(DataSet11, "Table1")
Catch ex As Exception
Debug.WriteLine(ex.ToString)
End Try
```

Adding the new record works successfully. However updating fails at the

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OleDbDataAdapter Update call with:

System.Data.DBConcurrencyException: Concurrency violation: the UpdateCommand affected 0 records.  
at System.Data.Common.DbDataAdapter.Update(DataRow[] dataRows, DataTableMapping tableMapping)  
at System.Data.Common.DbDataAdapter.Update(DataSet dataSet, String srcTable)

thanks,

"Garry" <garrygrolman@xxxxxxxx> wrote in message  
[news:OOD6Xc9MHHA.3312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:OOD6Xc9MHHA.3312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Perhaps you can post some of the code otherwise it is very difficult to try to help.

Garry

"JoWilliam" <XjohnXwilliams\_Xesq@xxxxxxxx> wrote in message  
[news:enrn2c\\$ilc\\$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:enrn2c$ilc$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Hi,

I've written a VB .Net program (written in Visual Studio .Net 2003) which scrapes data from a web site and stores it in an Access database. The database has 1 table with 11 columns, one of which is the primary key (not an auto-increment field).

The program first calls OleDbDataAdapter.Fill to populate a DataSet with 6 of the columns from the Access db. It then adds data from the web page to this DataSet, using DataTable.Rows.Add. When it has parsed the whole page (20 records), it calls OleDbDataAdapter.Update with the DataSet and then continues with the next web page.

This works fine when I start with an empty Access database. However, when I run the program again (on the same web page and the data on it hasn't changed), each call to the Update method causes an exception

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which I trap:

System.Data.OleDb.OleDbException: The changes you requested to the table were not successful because they would create duplicate values in the index, primary key, or relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.  
at System.Data.Common.DbDataAdapter.Update(DataRow[] dataRows, DataTableMapping tableMapping)  
at System.Data.Common.DbDataAdapter.Update(DataSet dataSet, String srcTable)

I'd rather than not use a Try... Catch... End Try block to prevent this exception from crashing my program, and reckon that the Update method should be able to work out which rows have changed and which haven't. Starting with an empty database, on the 2nd run of the program the dataset contains 158 records. The first 79 of these are the ones read from the Access db using the initial .Fill call and have a RowState of Unchanged; the next 79 are the ones read from the web site (identical to the first 79) and have a RowState of Added. This is obviously where the problem originates and I think the DataSet should only contain 79 records since the primary keys of the first 79 are identical to the second 79, but somehow maybe I haven't told the DataAdapter which is the primary key column so it can't resolve the dataset.

I must have missed something or coded something incorrectly (this is my first OleDb program!), so would appreciate any advice.

thanks, JW

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