

Transactions and Scope_Identity

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I use code like this to Insert a row into a table which has an Identity. Notice that a running transaction is passed in to the method as the variable tr. The insert command runs and then next command is SELECT Scope_Identity().

```
Protected Overridable Sub InsertData(ByVal tr As IDbTransaction)
DAL.ExecuteNonQuery(tr, CommandType.Text, SQL.Insert(mName, ...))
```

```
'retrieve the newly generated Identity and update the PK in the BO so
the child records will save correctly.
mIdentitykey = CDec(DAL.ExecuteScalar(tr, CommandType.Text, "SELECT
Scope_Identity()"))
End Sub
```

Someone suggested there might be a problem with this code because the 2 commands are not in the same batch.

Is there an issue? The code has worked reliably for a long time – but I am slightly concerned there could be an issue that I am not aware of.

Would it also work if I just passed a cmd object instead of a transaction?

If I created a 2nd command object and used 2 different cmds to run the 2 statements I would not expect them to work.

But the term "scope" never seems to include the same command object or transaction.

"SQL Statements that are contained in the same batch, stored procedure, or trigger are considered to be in the same scope."

OK – but is the same connection considered the same batch? Or is the same transaction the same scope?

—

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