

## Re: sql CLR trigger causing havoc in Access linked table

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*Source:*

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.adp.sqlserver/2007-02/msg00052.html>

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- *From:* "Sylvain Lafontaine" <sylvain aei ca (fill the blanks, no spam please)>
  - *Date:* Sat, 17 Feb 2007 12:01:02 -0500
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Your problem has nothing to do with the fact that you are using CLR or not for your trigger and you will get the same effect if you are using classical T-SQL for your insert trigger. A possible solution is to reset the @@identity value at the end of the insert trigger, see:

[http://groups.google.com/group/microsoft.public.sqlserver.programming/browse\\_frm/thread/31c1dd4693ca321b/93ec3](http://groups.google.com/group/microsoft.public.sqlserver.programming/browse_frm/thread/31c1dd4693ca321b/93ec3)

For a strict point of view of performance, it might also be a better idea to use a pure T-SQL solution without any CLR because the latter is probably setting an heavy load on the sql server.

For complicated databases, you will have to leave ODBC linked tables behind and use passthrough queries and make your own updating or to use .NET technologies instead.

Finally, the correct newsgroup for this would be m.p.a.odbcclientsvr or m.p.a.externaldata .

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"Lew" <defretted@xxxxxxxx> wrote in message  
<news:%23Z0HTNpUHHA.5108@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Excuse if this is not the correct group -- I am not using an adp, but an upsized mdb file with linked tables. There seems to be no group made for Access-SQL Server discussions other than this one.

Have been running an Access front end (mdb) on a SQL Server back end for several years. Will soon be migrating to SQL2005. Have detected a showstopper of a problem.

Some background:

One reason to move to SQL05 is the use of CLR for a generic audit trigger

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(based on code made available by others). Trigger works well. For an example, see

<http://www.sqlservercentral.com/columnists/dziffer/creatingagenericaudittriggerwithsql2005clr.asp>

Here's the problem: when Access inserts a new row in a linked, audited table, SQL should return the ID (identity) of the new record, and then Access can refresh that row ? the ID field's value and field value with defaults should be available to the Access table. However, when the CLR trigger fires, SQL returns the ID of the row from the audit table, not the table where the original insert occurred. So, if I am inserted my 200th record into table1, and this creates a 49th record in my audit table, AND table1 contains a record where ID=49, then the Access table will change its current record to row where ID=49. The new record still gets inserted correctly; the trigger fires correctly; the problem is solely how Access represents the current/new record. I probably don't need to explain the danger of having the current record flip on a user without notice.

Anyway, am assuming this might be related to difference between @@identity and scope\_identity(), but am not able to tell. What's curiouser, if the id returned by the audit table is not found in table1, then Access behaves as it should.

Any advice on how to proceed? Or do I need to backtrack, and implement a purely SQL solution? Is anyone from Microsoft out there who understands why is occurring?

Lew