

Re: DBD::Sybase and auto commit

Source: <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2004-07/0153.html>

From: Matthew O. Persico (matthew.persico_at_verizon.net)

Date: 07/15/04

To: <dbi-users@perl.org>
Date: Wed, 14 Jul 2004 19:26:23 -0400

On Wed, 14 Jul 2004 08:18:27 +0200, Michael Pepler typed:
> *On Wed, 2004-07-14 at 02:46, Matthew O. Persico wrote:*
>> *I have code that connects to a Sybase database and sets*
>> *AutoCommit to*
>> *0. Subsequent statements all make that assumption and call*
>> *explicit*
>> *commits and rollbacks as needed.*
>> *One of those statements was a stored proc that turned out to be*
>> *useful*
>> *when accessed outside my Perl code. Since the transaction code in*
>> *the*
>> *Perl would not be accessed, we shoved a begin tran, commit and*
>> *rollbacks into the stored proc.*
>> *When the stored proc detects an error condition, my Perl code*
>> *gets this:*
>> *Failed to obtain Portia Operator:*
>> *DBD::Sybase::st execute failed:*
>> *Server message number=99999 severity=16 state=1 line=92*
>> *server=A2SI procedure=am_batch_ctrl_get_oper_out*
>> *text=am_batch_ctrl_get_oper_out - no process found for BATCHER,*
>> *yet logged_on is non-zero in opf*
>> *Server message number=266 severity=10 state=1 line=12 server=A2SI*
>> *procedure=am_batch_ctrl_get_oper text=Transaction count after*
>> *EXECUTE indicates that a COMMIT or ROLLBACK TRAN is missing.*
>> *Previous count = 1, Current count = 0.*
>> *at /am/clrpt/lib/site_perl/5.6.1/CLRPT.pm line 1361*
>> *Now, the first server message is expected. The second is not. I am*
>> *wondering if we could get rid of the second message by setting*
>> *AutoCommit = 1 before the prepare for the stored proc and then*
>> *setting*
>> *it back to zero right after so as not to disturb all the other*
>> *statements. What is the scope of an AutoCommit setting? Is the*
>> *current*
>> *value in the \$dbh accessed at execution time or is the value*
>> *copied to*
>> *the \$sth at prepare time and used as such at execution time,*
>> *regardless of what the \$dbh value is set to?*

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> *The first thing you can do in your stored proc is to use a*
> *savepoint –*
> *that should fix the immediate problem.*
> *Something like:*
> *create proc foo*
> *..*
> *begin tran*
> *save tran foo_tran*
> *..*
> *if @@error*
> *begin*
> *rollback tran foo_tran*
> *commit tran*
> *return some_error_value*
> *end*
> *commit tran foo_tran*
> *would probably work, and would be sure to rollback only the code in*
> *the*
> *proc, and not the rest of the transaction.*

Hmm. I don't quite understand it, but I'll read the docs and then try it.

> *That being said, DBD::Sybase supports two AutoCommit "off" modes.*
> *One*
> *using explicit transactions, and the other using "chained" mode. In*
> *the*
> *"chained" mode we let the server start the implicit transaction as*
> *needed, and that's the mode that *should* be the default for*
> *DBD::Sybase*
> *(but hasn't been up to now, for various reasons). I will probably*
> *change*
> *that in an upcoming release.*

Wow, that's going to require a boat-load of testing, isn't it? Will there be a way to change the default at installation time back to the way it was?

> *Michael*
> *--*
> *Michael Pepler Data Migrations, Inc.*
> *mpepler@pepler.org <http://www.pepler.org/>*
> *Sybase T-SQL/OpenClient/OpenServer/C/Perl developer available for*
> *short*
> *or long term contract positions – <http://www.pepler.org/resume.html>*

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Matthew O. Persico