

Re: Command object and batching stored procedure calls

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- *From:* "Michael Viking" <TheViking@xxxxxxxxxx>
 - *Date:* Tue, 19 Feb 2008 17:56:12 -0800
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I'm using SQL Server. For example, the books online do not list a semi-colon as a delimiter in the help for the 'CommandText' property of the ADO Command object. For example here: [http://msdn2.microsoft.com/en-us/library/ms675958\(VS.85\).aspx](http://msdn2.microsoft.com/en-us/library/ms675958(VS.85).aspx). What should I be reading if not that?

22 separate statements is the most I've been able to get in one CommandText, but I've seen as few as 15 be the maximum. It doesn't seem to be related exactly to the length of CommandText, either, because I've tried cutting them off by string length. As I've said, it appears to be magic formula. I'd appreciate it if you could point me to the Books Online where it's documented how many can be sent via a Command object, or what the maximum length is or something.

Perhaps ADO isn't the best tool...If I need to run a stored procedure on the DB every time a line of data comes in over a port, what do you recommend? Naively it's safe and easy to use a command object and execute the stored procedure every time a line comes in. Easy to understand, program and it's safe. Performance: dismal. Obvious answer: queue them up somehow and batch process them. I'm posting to get ideas...What's the best tool?

"Bob Barrows [MVP]" <reb01501@xxxxxxxxxxxxxxxxxxxx> wrote in message news:%23bD6Gr1cIHA.2000@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

What database are you using that you have never seen semicolon-delimited batched sql statements documented? It is certainly documented in SQL

Server

Books OnLine.

How many statements are you thinking of batching? Perhaps ADO is not the best tool for what you are doing ...

Michael Viking wrote:

Re: Command object and batching stored procedure calls

Hi, thanks for the response.

We want to batch them up because connection-pooling or not, there's still network latency. We're finding that when operating in a WAN environment, every single SQL call is expensive and it's not due to the number of bytes sent, it's due to a fixed cost of encryption, hand-shaking, etc. for each network round-trip. Two calls bundled into one network packet of size X is a lot faster than two separate roundtrip calls of size X/2.

Am I missing something or misinterpreting what I'm seeing?

Also, I have seen batching being mentioned in newsgroups and using a semicolon as a delimiter, like you've listed. That seems to be undocumented and I don't understand how it works. I've investigated this method and it clearly has a limit to how many statements it will accept and I'm not sure if it's "length of string", "number of statements" or some combination. At any rate, the algorithm is unknown and therefore I can't really trust this method. Many times only some subset of the calls actually show up in the database – and no errors are ever thrown. It appears to work but rows will be missing.

Thanks in advance for any input you can provide,
–Michael Viking

"Bob Barrows [MVP]" <reb01501@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:%23xXCekwcIHA.3572@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Michael Viking wrote:

Greetings,
I've tried searching online for what I think must be easy to do, but so far no luck. I have to call a stored procedure over and over as data comes in. I'd like to queue the calls up on the client side and send them in one batch to avoid all the network traffic but I can't figure out how.

That's because there is no way without using dynamic sql to concatenate all the procedure calls into a single string

```
sql="exec proc 'parm1';...;exec proc 'parmN'"  
cmd.commandtype=adCmdText  
cmd.commandtext = sql  
cmd.execute ,adExecuteNoRecords
```

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Of course, doing so loses the value provided by using parameters: security, strong datatyping, etc. Also, not all dbrms support batched calls.

I'm not sure what you think you would be gaining by batching the statements up. Session pooling should guarantee connection re-use if you are worried about spawning too many connections.

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Microsoft MVP – ASP/ASP.NET

Please reply to the newsgroup. This email account is my spam trap so I don't check it very often. If you must reply off-line, then remove the "NO SPAM"