

Re: Database Engine Tuning Advisor suggestion to replace syntax.

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*Source:*

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.tools/2008-08/msg00071.html>

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- *From:* "Russell Fields" <[RussellFields@xxxxxxxxxxx](mailto:RussellFields@xxxxxxxxxxx)>
  - *Date:* Thu, 28 Aug 2008 20:56:07 -0400
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Erland,

Actually, what I said was "IF this code is running in a stored procedure", not "BECAUSE this code is running in a stored procedure". (Then I recommended that it should be in a stored procedure.)

However, I appreciate your comments on the reuse. What you said was what I first planned to say, but then I read the Books Online which implies that the batch is indeed reused, so I held back from saying that.

<http://msdn.microsoft.com/en-us/library/ms188001.aspx> "Being able to substitute parameters in sp\_executesql offers the following ... the query optimizer will probably match the Transact-SQL statement in the second execution with the execution plan generated for the first execution. Therefore, SQL Server does not have to compile the second statement."

If that is true, Mike's code would benefit from reuse, but only if he fully specified the table name. (Because the Books Online also comment "If object names in the statement string are not fully qualified, the execution plan is not reused.")

So, are the Books Online comments incorrect? Or did I just misunderstand them?

RLF

"Erland Sommarskog" <[esquel@xxxxxxxxxxxxxxxx](mailto:esquel@xxxxxxxxxxxxxxxx)> wrote in message [news:Xns9B09349D5FDDYazorman@xxxxxxxxxxxxxxxx](mailto:news:Xns9B09349D5FDDYazorman@xxxxxxxxxxxxxxxx)

Mike ([mssql@xxxxxxxxxxxxxxxx](mailto:mssql@xxxxxxxxxxxxxxxx)) writes:

SQL Server 2005 Database Engine Tuning Advisor informs me that I should replace query 1 below with the syntax in query 2 below. I'm just not seeing the reason since both the ?SELECT? statements optimization plans are stored for reuse. Am I missing something?

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Mike.

Query 1

```
EXEC sp_executesql N'SELECT FirstName, LastName, Company,
StreetAddress,
City, State, ZIP5, ZIP4
FROM Customers
WHERE City = @P1
AND State = @P2',
N'@P1 char(32), @P2 varchar(32)', 'Poedunk', 'Iowa'
```

Query 2

```
DECLARE @P1 varchar(32)
DECLARE @P2 varchar(32)
SET @P1 = 'Poedunk'
SET @P2 = 'Iowa'
SELECT FirstName, LastName, Company, StreetAddress, City, State, ZIP5,
ZIP4
FROM Customers
WHERE City = @P1
AND State = @P2
```

Russell seemed to assumed that query 2 is a stored procedure. I may be missing something, but I cannot see any SP.

And as a loose query batch, it's a poor choice. If you change the parameter values, it will be a new query text, and there will be no cache it. On top of that, since SQL Server does not know the parameter values, it will not "sniff" the parameters on the first invocation but make some standard assumption.

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Links for SQL Server Books Online:

SQL 2008: <http://msdn.microsoft.com/en-us/sqlserver/cc514207.aspx>

SQL 2005: <http://msdn.microsoft.com/en-us/sqlserver/bb895970.aspx>

SQL 2000:

<http://www.microsoft.com/sql/prodinfo/previousversions/books.mspx>