

Re: Query performance MS-Access vs. SQL-server 2000

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.programming/2005-01/2153.html>

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In addition to Dan's advice I would encourage you to watch the activity against SQL using Profiler. You'll find that Access sometimes doesn't issue the queries you think it is doing.

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"Marco Lorenz" <Marco.Lorenz@discussions.microsoft.com> wrote in message news:0AD1E269-1B89-48A5-8EF4-FDEFD7BF58D7@microsoft.com...

> I am evaluating SQL server and therefore I made a benchmark comparing the
> search speed between Access (which we are using up to now) and SQL-Server.
>

> I created 2 identical tables on the same Server, once as Access database
> file, once in SQL-Server with one Counter as Primary Key and Index and one
> string*255

> The tables have 2.700.000 entries each.

>

> Then I benchmarked 5000 arbitrary searches on both tables

>

> The results of this benchmark are so strange and surprising, so I would
like

> to find out, if there is a major error in my application!!!

>

> Searching the MS-Access table takes about 3 seconds

> !!!!!!!!!Searching the table with SQL server takes 60-70 seconds!!!!!!!!!!!!!!

> The primary index in the SQL-table is existing and working, I checked with
> the SQL profiler and the index optimizer wizard.

> Am I doing anything absolutely wrong?????

> I would be happy for any hints.

>

> I am using this code:

>

> Alternative 1 with MS-Access and DAO:

> Dim Test_DB As DAO.Recordset, DB As Database

> Dim I as Long, J as LongSet DB =

> DBEngine.Workspaces(0).OpenDatabase("G:\CADBDat.mdb")

> Set Test_DB = DB.OpenRecordset("Test", DB_OPEN_TABLE)

> Test_DB.Index = "PrimaryKey"

> For J = 1 To 5000

> I = CLng(Rnd() * 2791680)

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```
> Test_DB.Seek "=", I
> Next J
>
> Alternative 2 with SQL-Server and ADO:
> Dim SQLConn As New ADODB.Connection
> SQLConn.ConnectionTimeout = 25
> SQLConn.Provider = "sqloledb"
> SQLConn.Properties("Data Source").Value = "W2SERVER"
> SQLConn.Properties("Initial Catalog").Value = "CADBase"
> SQLConn.Properties("Integrated Security").Value = "SSPI"
> SQLConn.Open
> Dim Test_SQL As New ADODB.Recordset
> For J = 1 To 5000
> I = CLng(Rnd() * 2791680)
> Test_SQL.Open "SELECT * FROM Test WHERE ID=" & CStr(I) & ";", SQLConn,
> adOpenStatic, adLockOptimistic
> Next J
>
```