

Re: SQLCE 3.0 losing data after transaction

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.ce/2009-02/msg00061.html>

- *From:* "Laxmi Narsimha Rao Oruganti [MSFT]" <laxmi.online@xxxxxxxxxxx>
 - *Date:* Fri, 13 Feb 2009 19:35:42 +0530
-

As specified above in the thread,

In SQL CE changes are flushed to disk at an interval of 10 milliseconds (and on close). You might want to alter this period or use CommitMode.Immediate, but this is not recommended as comes at the cost of performance.

You can also control the flush scheduling time using Connection String Option "flush interval".

Thanks,
Laxmi

"Pablo Barros" <PabloBarros@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:23A8B217-94D7-4D50-B60D-6F1249E9BDDA@xxxxxxxxxxxxxxxxxxx

Ginny,

We have a dataAccess component that implements a Singleton. This component also allow to conect to multiple databases, so also implement a connection pooling.

The database is created by de Replication object When it not exists in a previous moment (the app. sync with a Sql server 2005).

We do not use dataset, only SqlCeResultSet to get data from the database.

This problem occur since I implement the connection pooling (before the component only conect to one database) so I think keep multiple active connection cause the problem.

Code to create de database

```
mReplication = New SqlCeReplication
mReplication.SubscriberConnectionString = "Data Source=" & dataBasePath &
";Password=" & dataBasePassword & ";Max Database Size=128;Default Lock
Escalation=100;"
```

```
If Not File.Exists(dataBasePath ) Then
mReplication.AddSubscription(AddOption.CreateDatabase)
Else
'Se controla que la suscripción exista en la base
```

Re: SQLCE 3.0 losing data after transaction

```
existPublication = Me.ExistPublication(mReplication.Publication)
```

```
If Not existPublication Then
```

```
mReplication.AddSubscription(AddOption.ExistingDatabase)
```

```
End If
```

```
End If
```

```
*****
```

Piece of code of component to access multiple databases

```
*****
```

```
Public Class clsDataAccessComponent
```

```
Implements IDisposable
```

```
Private Shared mobjAccess As clsDataAccessComponent
```

```
Private Shared mMutex As New Mutex
```

```
Private Shared mConnection As SqlCeConnection
```

```
Private Shared mConnectionPool As Hashtable = New Hashtable()
```

```
Private Sub New()
```

```
End Sub
```

```
'SINGLETON
```

```
Public Shared Function GetInstance(ByVal databaseId As String ) As
```

```
clsDataAccessComponent
```

```
mMutex.WaitOne()
```

```
If mobjAccess Is Nothing Then
```

```
'Retorna una nueva instancia de la clase
```

```
mobjAccess = New clsDataAccessComponent()
```

```
End If
```

```
mobjAccess.Connect(databaseId)
```

```
mMutex.ReleaseMutex()
```

```
Return mobjAccess
```

```
End Function
```

```
Private Sub Connect(ByVal databaseId As String)
```

```
'Se busca la conexión en el pool de conexiones, si existe se setea  
como activa
```

```
If mConnectionPool.ContainsKey(databaseId) Then
```

```
mConnection = CType(mConnectionPool.Item(databaseId),
```

```
SqlCeConnection)
```

```
Else
```

```
'Si no existe, se crea, se agrega y se setea como la activa
```

Re: SQLCE 3.0 losing data after transaction

```
Dim connection As New
SqlCeConnection(clsDataAccessUtils.ConnectionString(databaseId))
connection.Open()

mConnectionPool.Add(databaseId, connection)

mConnection = connection
End If

Public Sub Disconnect(ByVal databaseId As String)

'Se busca la conexión en el pool de conexiones
If mConnectionPool.ContainsKey(databaseId) Then

mConnection = CType(mConnectionPool.Item(databaseId),
SqlCeConnection)

If mConnection.State = ConnectionState.Open Then

mConnection.Close()
End If

'Se elimina la conexión del pool
mConnectionPool.Remove(databaseId)

mConnection = Nothing

End If

End Sub

Private Function GetCommand(ByVal Query As String, Optional ByVal
Transaction As SqlCeTransaction = Nothing, _
Optional ByVal Type As CommandType =
CommandType.Text) As SqlCeCommand

Dim SqlCommand As SqlCeCommand
Try
'Si es una transacción la abre
If Transaction IsNot Nothing Then
SqlCommand = CType(Transaction.Connection.CreateCommand(),
SqlCeCommand)
SqlCommand.Transaction = Transaction
Else
SqlCommand = mConnection.CreateCommand()
End If

'Asigna la consulta y el tipo de la misma, pueden ser 3 (Texto,
TableDirect o StoredProcedure)
SqlCommand.CommandText = Query
SqlCommand.CommandType = Type
```

Re: SQLCE 3.0 losing data after transaction

```
'Retorna el comando
Return SqlCommand

Catch ex As Exception
Throw ex
End Try
End Function

Public Sub Execute(ByVal Query As String, Optional ByVal Parameters As
List(Of SqlCeParameter) = Nothing, _
Optional ByVal Transaction As SqlCeTransaction =
Nothing, _
Optional ByVal Type As CommandType =
CommandType.Text)

Dim SqlCommand As SqlCeCommand
Try
'Se crea el comando
SqlCommand = GetCommand(Query, Transaction, Type)

GetParameters(SqlCommand.Parameters, Parameters)

'Ejecuta
SqlCommand.ExecuteNonQuery()

SqlCommand.Dispose()

Catch ex As Exception
Throw ex
End Try
End Sub
*****
```

"Ginny Caughey MVP" wrote:

Pablo,

Do you have a *small* code sample that illustrates this issue including code to create the database?

How much memory is available on the device you're using? Are you using DataSet or something less memory hungry like SqlCeResultSet?

Thanks,

--

Ginny Caughey

Re: SQLCE 3.0 losing data after transaction

Device Application Development MVP

"Pablo Barros" <Pablo Barros@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:5D679B61-5EC3-4881-A279-4EBF594F7E5F@xxxxxxxxxxxxxxxxxxxx

Hi, I have the same problem, after some rows are inserted in various tables and we read the data, the data inserted (not all some rows) disappeared.
Do you find a resolution for the problem?
Thks

"ErusGladius" wrote:

Hi,
We are having difficulties on our mobile application. We were using CE 2.0 and it was working perfect. Now that we upgraded to 3.0 , problems occur every day. We are using Singleton Connection and transaction.

We are having difficulty on memory usage, after some work and inserting many rows to the database we get a "not enough memory" exception. And we can not go anywhere after that. Closing the connection and opening again does not work.Only solution is to close the application.

Our 2nd problem is , sometime we lose data. After some rows are inserted and we succesfully read the data , there is a chance to lose the data thats being inserted. We lose not all the rows but some rows. And it occurs like there is a huge transaction and its roll backed. But there is no such transaction. We commit our transaction after each succesful insert.

Any help will be appreciated

Re: SQLCE 3.0 losing data after transaction