

Re: Lock MSSQL Table Row?

Source:

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I am using OleDb to connect to MSSQL. I am also using it to connect to PostgreSQL and Access 2003 and Visual FoxPro 9.0.

In my data store (let's just use MSSQL 2000 in this example), I have a parent table with a "lock" column containing a GUID. The application reads the parent table and 2 child tables into a DataSet. Data is modified in all DataTables in the DataSet.

When a save happens, I want to lock the parent row, compare the "lock" column in the data store to the "lock" column of the DataSet, and if there is a match make changes in the parent and all children, change the "lock" column in the dataset to reflect the change, and then issue an "unlock". If another user/thread attempts to do the same save, they are blocked until the lock on the parent table is released, and then their save will fail because the "lock" column does not match the DataSet "lock" column.

So....

Are you saying that I can do this:

1. Open OleDbConnection to my data store.
2. Create OleDbCommand and set connection.
3. Set OleDbCommand text to "select * from parenttable where...."
4. Do OleDbTransaction lockTrans = connection.BeginTransaction();
5. Do lockTrans.IsolationLevel = IsolationLevel.Serializable;
6. Do OleDbCommand.ExecuteScalar(), which will lock the row of the parent table.
7. Use the existing OleDbConnection with new OleDbCommands to do updating from the DataSet/DataTables->database.
8. Use the old OleDbCommand to "update parenttable where...." to set the "lock" column GUID to something new.
9. Close the connection, which will unblock the database parent row from others trying to update?

Please let me know, this is very interesting.

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The VS.NET 2003 help says:

" A range lock is placed on the System.Data.DataSet, preventing other users from updating or inserting rows into the dataset until the transaction is complete. "

I'm not using a DataSet as far as locking is concerned, am I?

Thanks.

On Tue, 04 Oct 2005 08:36:47 GMT, v-kevy@xxxxxxxxxxxxxxxxxxxxxx (Kevin Yu [MSFT]) wrote:

>Hi xenophon,

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>First of all, I would like to confirm my understanding of your issue. From

>your description, I understand that you need to lock a certain row that

>one user is modifying on it. If there is any misunderstanding, please feel

>free to let me