

Re: About Design Requirements for Replication across different DBMS's...

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.replication/2004-04/0129.html>

From: Hilary Cotter (*hilaryk_at_att.net*)

Date: 04/02/04

Date: Fri, 2 Apr 2004 08:34:48 -0500

you can do snapshot and transactional replication to mysql through an odbc datasource.

SQLCE only supports merge replication.

Are you trying to replicate from SQLCE to MySQL using merge? This isn't supported by Microsoft.

Not only do you have connection problems but other problems with database consistency. You replicate to SQLCE using an isapi extension. Your going to have to write something in Visual C++ to connect the two database.

Addressing your sync statement.

You can use identity columns instead of GUIDs, MySQL does support identity.

There are a lot of problems with you approach. The main problem is how do you handle conflicts? You are only replicating new records, but what about updated records or inserted records?

Suppose you delete a record on the CE device, then you read records on MySQL, the deleted record is still on MySQL so its sent back to the SQL CE device.

I think you are trying to roll your own merge replication. Good luck.

"Sky" <forums@xact-solutions.removethis.com> wrote in message news:ehtSzCKGEHA.2876@TK2MSFTNGP09.phx.gbl...

> Hello:

>

> I've been musing about the requirements of making a CE port of an application I wrote so that the data (a classic tasks/project set of tables)

> can be carried on a CE.

>

- > *My questions are... I know that CE and MSDE have a replication feature,*
- but
- > *what about replicating to other database systems (MySQL in this case).*
- >
- > *I've been trying to think of what needs to be modified in the schema*
- design*
- > *to allow this to work correctly.*
- >
- > *My first observations are that*
- > *a) Autoincrement ID columns are probably a dead-end as they will get out*
- of*
- > *sequence if they are generated on both the CE and the desktop. Therefore a*
- > *GUID Primary Key column seems to be more in order.*
- > *b) The tables all need some form of LastEdited datetime column*
- > *c) I believe that in NET you can connect to two different providers and*
- the*
- > *following would work (real rough proxycode -- I never can write INNER JOIN*
- > *statements on the fly without trial and error, but here goes):*
- >
- > *Step 1: Get New records on Server:*
- > *SELECT ServerConnection.MyTable.GUID*
- > *FROM ServerConn.MyTable,*
- > *ServerConn.MyTable.GUID*
- > *INNER JOIN*
- > *ON CEConn.MyTable.GUID*
- > *WHERE CEConn.MyTable.GUID=NULL*
- >
- > *These we write to the CE client.*
- >
- > *Step 2: Reverse Step 1 to write any NEW records on CE to Server*
- >
- > *Step 3: Then get any records on server that were edited later than the*
- CE's:*
- >
- > *SELECT ServerConnection.MyTable.GUID*
- > *FROM ServerConn.MyTable, CEConn.MyTable*
- > *WHERE ServerConn.MyTable.GUID=CEConn.MyTable.GUID*
- > *AND (ServerConn.MyTable.LastEdited > CEConn.MyTable.LastEdited)*
- >
- > *Step 4: Reverse the process to write any new records from the CE to the*
- > *server.*
- >
- >
- > *I think that about covers it...Any changes made on the CE done at a*
- earlier*
- > *date than changes also done on the server are crushed by the Server who*
- has*
- > *higher priority...*
- >
- >
- >

microsoft.public.sqlserver.replication: Re: About Design Requirements for Replication across different DBMS's...

- > *What I would like to know is whether anybody has dealt with this kind of*
- > *mess before and can give pointers on how to do it.*
- > *For example -- does anybody have a fair idea of how Palm Pilot synchronizes*
- > *their records?*
- >
- > *Is there an ODBC schema field that exists per row, cross-platform, that is*
- > *the equivalent of DateLastModified so that I don't have to add it to each*
- > *table?*
- >
- > *As you can see -- I'm at the preliminary stages of this, and any advice,*
- > *tips, articles, code samples that you can point me to would be greatly*
- > *appreciated.*
- >
- > *Thank you!*
- >
- >
- >