

microsoft.public.sqlserver.security: Re: one SQL DB getting info from another – user setup?

## Re: one SQL DB getting info from another – user setup?

**Source:** <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2003-06/0083.html>

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Date: Wed, 11 Jun 2003 21:01:43 -0500

In order for a user to select from a view without permissions on the referenced tables, the ownership chain needs to be unbroken. This means that all of the objects involved need to have the same owner. This is pretty straightforward when all of the objects are in the same database – the owners are the same as long as the owner names are the same.

This is a little tricky with inter-database object references. The owning users must map to the same login in order for the ownership chain to be unbroken. If your objects are owned by 'dbo', all 3 databases need to have the same owner so that the 'dbo' user maps to the same login. It appears from your narrative that the Main and DB1 databases have the same owner but DB2 has a different database owner. You can verify this with `sp_helpdb`:

```
EXEC sp_helpdb 'Main'  
EXEC sp_helpdb 'DB1'  
EXEC sp_helpdb 'DB2'  
GO
```

You can then use `sp_changedbowner` so that the owner of all 3 databases is the same:

```
USE DB2  
EXEC sp_changedbowner 'YourCommonDatabaseOwner'  
GO
```

Note that cross-database ownership chaining is a configurable option in SQL 2000 SP3 and is turned off by default. You can enable it for selected databases with `sp_dboption` (like the example below) or via Enterprise Manager. Alternatively, you can turn it on at the server level with `sp_configure 'Cross DB Ownership Chaining'`. In either case, you should turn on cross-database chaining only if you fully trust members of the `db_owner` and `db_ddladmin` roles.

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```
EXEC sp_dboption 'Main', 'db chaining', true
EXEC sp_dboption 'DB1', 'db chaining', true
EXEC sp_dboption 'DB2', 'db chaining', true
GO
```

See the SQL Server 2000 SP3 Books Online

<"adminsqli.chm:/ad\_config\_8d7m.htm"> for more information.

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Hope this helps.

Dan Guzman

SQL Server MVP

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SQL FAQ links (courtesy Neil Pike):

<http://www.ntfaq.com/Articles/Index.cfm?DepartmentID=800>

<http://www.sqlserverfaq.com>

<http://www.mssqlserver.com/faq>  
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"Pete Ruby" <pete.ruby@carris.net> wrote in message

news:Oulu5hCMDHA.2480@TK2MSFTNGP10.phx.gbl...

> I have 3 SQL DB's. The first one, called "Main", has a procedure that pulls

> tables from our accounting package into the Main DB. In doing so, it

> deletes the old tables, and recreates the new ones. This procedure

runs

> nightly. One of the tables it updates is called ITEMMAST.

>

> I have 2 other databases, call them DB1 and DB2. They are both used in

> separate web based apps. Both have views that reference

Main.ITEMMAST. DB1

> has user assigned to it called (you guessed it) USER1; DB2, USER2.

Both

> users are SQL type users, listed in the Security\Logins folder in SQL, as

> Standard, with Permit access, with DB1, DB2 as their Default database.

They

> both have no server roles, and both have access to their own DB, and

Main,

> with Public Roles.

>

> In the permissions for Main, USER1 and USER2 are listed, but have NO

> permissions set (all option boxes are BLANK) for any of the tables in

Main,

> including ITEMMAST. DB1 and USER1 run fine w/out having any

permissions set

> for ITEMMAST. DB2 and USER2 have to have the "SELECT" option for

ITEMMAST

> selected to be able to run the associated views in DB2.

>

> The problem is when we run the procedure to update that table, the

> permissions are also lost. i realize we can change the procedure to

just

> delete the records and then append....

>

> The real question is: does USER1 and USER2 need specific permission to

> ITEMMAST? If so, any ideas why USER1 has no problems running views

from DB1

> that reference ITEMMAST?

>

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- > Thanx
- > Pete
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