

# Re: 3 Simple Security SQL Statements

---

*Source:* <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2007-06/msg00102.html>

---

- *From:* "Kalen Delaney" <[replies@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:replies@xxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Sun, 24 Jun 2007 10:48:24 -0700
- 

Alex

Sorry, I hadn't finished my coffee yet, and my mind was not completely in gear.

The procedure I meant to reference was `xp_executeresultset` that executed the `RESULT` of a query, which is what you would need to actually run the `GRANT` statements generated by the `SELECT`.

Unfortunately, `xp_executeresultset` was in 2000 and is not available in 2005 (it was undocumented, so MS is under no obligation to provide ongoing support)...

Fortunately, MVP Adam Machanic has created a replacement which you can read about here:

[http://sqlblog.com/blogs/adam\\_machanic/archive/2006/10/19/replacing-xp-execresultset-in-sql-server-2005.aspx](http://sqlblog.com/blogs/adam_machanic/archive/2006/10/19/replacing-xp-execresultset-in-sql-server-2005.aspx)

--

HTH

Kalen Delaney, SQL Server MVP

[www.insidesqlserver.com](http://www.insidesqlserver.com)

<http://sqlblog.com>

"Kalen Delaney" <[replies@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:replies@xxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message [news:ejNmjLotHHA.3356@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:ejNmjLotHHA.3356@xxxxxxxxxxxxxxxxxxxxxxxx)

Hi Alex

If you run the `SELECT` in a query window, it generates the list of commands in the result window. You then would copy and paste it back to the query window and execute.

There is procedure called `sp_executesql` that will take a string and execute it. You can try reading about that and see if it works for you.

--

HTH

Re: 3 Simple Security SQL Statements

Kalen Delaney, SQL Server MVP  
www.InsideSQLServer.com  
<http://sqlblog.com>

"Alex Maghen" <AlexMaghen@xxxxxxxxxxxxxxxxxxxx> wrote in message  
<news:405CFA89-6C80-4EFD-87D4-8622F94D024C@xxxxxxxxxxxxxxxxxxxx>

Erland –

One more thing, if I may ask: You last example:

```
SELECT 'GRANT EXECUTE ON ' + quotename(name) + ' TO
WebUserRole'
FROM sys.objects
WHERE type = 'P'
AND schema_name(scbema_id) = 'dbo'
```

Builds a list of text commands. Forgive me for not knowing how to do this, but how do I actually get Transact-SQL to "execute" each of those commands? Is there something like "Evaluate" or something that allows me to pass a text string of a SQL command inside a stored procedure that SQL Server will then execute? Otherwise, I don't really understand how I can use the SELECT statement you gave me to execute the changes.

Alex

"Erland Sommarskog" wrote:

Alex Maghen (AlexMaghen@xxxxxxxxxxxxxxxxxxxx) writes:

Okay, let's take a deep breath. First of all, sorry if I overreacted. Just really didn't like the tone. Second, SQL Server 2005. Third, oh, my friends, if \*only\* I were still in school! :) It may \*sound\* like a class question, but it is, in reality, something I need in order to simply the process of publishing an entire database file from one system to

## Re: 3 Simple Security SQL Statements

another  
on a repeated basis during the development  
cycle. Each time I do, I  
need  
to reset a bunch of settings that it is  
impossible for me to have in  
place on the development machine, but  
which are required on the  
staging  
server. Until now I have been doing this all  
manually in the  
Management  
Studio and it's making me nuts.

And, obliquely or not, he \*did\*, in fact, tell  
me to read the manual.  
:)

OK, lets look at your questions again, now that we know  
which version of  
SQL Server you are working with. This is necessary to know  
for the first  
question, and it has an implication for the third as well.

I'm sorry if I took your questions for a class assignment.  
Maybe you  
are so fresh out of school, that you keep asking questions that  
way. :-)

```
1.  
CREATE  
A  
USER  
"WebUser"  
in  
current  
database  
which  
uses  
a  
Windows  
Login,  
"SERVER\IUSR_XYZ"
```

The command is CREATE USER. You need to first to run  
CREATE LOGIN to  
create  
the login.

## Re: 3 Simple Security SQL Statements

```
CREATE LOGIN [SERVER\IUSR_XYZ] FROM  
WINDOWS;  
go  
USE yourdb  
go  
CREATE USER WebUser FROM [SERVER\IUSR_XYZ]
```

I types these commands from memory. If there are syntax errors, please check in Books Online. (Yes, I'm referring you to the manual again. But either you look in the manual or I do. And you are the one who has the problem.)

```
2.  
Give  
the  
above  
user  
"WebUser"  
ROLE  
membership  
in  
a  
database  
Role  
names  
"WebUsersRole"
```

```
EXEC sp_addrolemember 'WebUsersRole', 'WebUser'
```

If this fails, swap the paramerers. (There are two addrole procedures, one for database roles and one for server roles, and they have their two parameters in different order.)

```
3.  
GRANT  
Execute  
permissions  
to  
the  
ROLE  
"WebUsersRole"  
for
```

## Re: 3 Simple Security SQL Statements

ALL  
Stored  
Procedures  
in  
the  
database  
which  
start  
with  
the  
name  
"HM\_"

Had you had a schema HM, it would have been easy.

```
GRANT EXECUTE ON SCHEMA::HM TO WebUserRole
```

Now you need to grant right for every procedure, and if new procedures are added, WebUserRole will not automatically get the right to execute these.

A simple way to do this is:

```
SELECT 'GRANT EXECUTE ON ' + quotename(name) + '  
TO WebUserRole'  
FROM sys.objects  
WHERE type = 'P'  
AND schema_name(schema_id) = 'dbo'
```

I've here assumed that all procedures are in the dbo schema, and that you don't have stored procedures written in the CLR. In that case, you need to add one more type, which I think is PA, but you should look it up in Books Online under sys.objects to make sure.

--

Erland Sommarskog, SQL Server MVP,  
esquel@xxxxxxxxxxxxx

Books Online for SQL Server 2005 at  
<http://www.microsoft.com/technet/prodtechnol/sql/2005/downloads/books.msp>  
Books Online for SQL Server 2000 at

Re: 3 Simple Security SQL Statements

<http://www.microsoft.com/sql/prodinfo/previousversions/books.msp>