

microsoft.public.sqlserver.security: Re: security permissions of roles\users on table rows

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Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2002-07/1127.html>

From: Russell Fields (rlfields@sprynet.com)

Date: 07/05/02

From: "Russell Fields" <rlfields@sprynet.com>

Date: Fri, 5 Jul 2002 13:35:53 -0400

Panagiotis,

The classic method of providing row level access to contents of a table is to create a view that filters the rows and provide access to the view. E.g.

```
Create View OnlyLowPay
as
Select Name, Salary
>From Employee
Where Salary <= 15000
```

If you want to dynamically filter rows in a single view rather than managing many views a couple of ways exist.

One is to create a mapping table for Users to data, such as:

```
Create Table UserRowRights
(UserName sysname,
Value money)
```

```
Insert into UserRowRights ('UserOne',15000)
```

```
Create View LimitPayAccess
as
Select Name, Salary
from Employee Join UserRowRights
on Salary <= Value
Where UserName = Current_User
```

Another way to do the same thing is to use IS_MEMBER or IS_SRVROLEMEMBER to filter rows.

Russell Fields

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"Panagiotis Konstantinidis" <panagiotis@melonweb.gr> wrote in message news:OqiDkuAJCHA.2748@tkmsftngp13...

> *We want to be able to grant permissions to roles and/or users on table rows*

> *(not on columns). For example, when user A selects all rows, only those rows*

> *should be returned that user A has been granted permission to see. User A*

> *may have another set of rows from the same table, that user A will be able*

> *to update, another set for deletion, etc.*

>

> *However, some of the rows of the above mentioned table will be able to be*

> *selected by other users as well, according to each user's individual*

> *permissions on each row.*

>

> *Can the above mentioned system be implemented with the help of the built-in*

> *role\user system of SQL2K and how? I know that permissions may be assigned*

> *to roles and users with respect to tables and table columns. But what*

> *happens with table rows?*

>

> *If the built-in permissions system cannot be employed, any ideas about how to*

> *do it, i.e. have groups and users with individual permissions on table*

> *rows*

> *(like the NTFS file system)?*

>

> *Thanks in advance for any replies.*

>

> *Regards,*

> *Panagiotis*

>

>

>