

# audit tables, delete triggers and sql server authentication

**Source:**

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i'm in a bit of a bind at work. if anyone could help, i'd greatly appreciate it.

i have a web app connecting to a sql server using sql server authentication. let's say, for example, my login/password is dbUser/dbUser. the web app however, is using windows authentication. so if I am logged into the network as 'DOMAIN\Eric', when I access my web app, my web app knows that I am 'DOMAIN\Eric'. but to the sql server db, I am user 'dbUser'.

now, i for each table i have, i need to implement an audit table to record all updates, inserts, deletes that occur against it. i was going to do so with triggers. this is all fine for selects, inserts, and updates. for each table, i have an updatedby and an updatedate.

for example, let's say i have a table:

```
create table blah
(
  id int,
  col1 varchar(10),
  updatedby varchar(30),
  updatedate datetime
)
```

and corresponding audit table:

```
create audit_blah
(
  id int,
  blah_id int,
  blah_col1 varchar(10),
  blah_updatedby varchar(1),
  blah_updatedate datetime
)
```

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for update and insert triggers, i can know what to insert into the updatedby column of audit\_blah because it's in a corresponding row in blah. my web app knows what user is accessing the application, and can insert that name into blah. blah's trigger will then insert that name into audit\_blah.

however, in the case of a delete, i'm not passing in an 'updatedby', because i'm deleting. in this situation, how can the trigger know what user is deleting? the db only knows that sql user 'dbUser' is deleting, but doesn't know that 'dbUser' is deleting on behalf of 'DOMAIN\Eric'. is there any way for my app to inform the trigger to access my windows identity without having a corresponding row in the table from which to pull that info?

obviously, i could have each of my app's users log into SQL server through Windows authentication; then i could just use SYSTEM\_USER. but let's say, for performance's sake, it'd be better for me to use one sql server login. (i believe one user works better for connection pooling purposes.) is there a way to get around this?

(i'm hoping a built-in function exists that solves all my problems.)

suggestions? resources?

any help would be great appreciated.

happy turkeys.

Eric