



```
create table hw5.book
(
   id int identity primary key,
   bookName nvarchar(30),
   yearPublish int,
   authorName nvarchar(40),
   QTY int,
)
```

```
create trigger noChange on hw5.book
   instead of insert
   as
        begin
        print 'No changes was done'
   end

insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book1', 2000, 'Author1', 10)

master> insert into hw5.book (bookName, yearPublish, authorName, QTY) values ('Book1', 2000, 'Author1', 10)
No changes was done
[2024-05-28 06:07:48] 1 row affected in 20 ms
```

```
create table hw5.book_audit
(
   ins_or_del int,
   bookName nvarchar(30),
   yearPublish int,
   authorName nvarchar(40),
   QTY int,
)

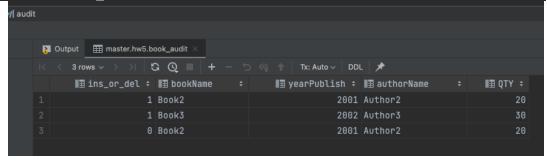
disable trigger noChange on hw5.book

create trigger audit on hw5.book
   after insert, delete
   as
        declare @ins_or_del int
        select @ins_or_del = 1
        insert into hw5.book_audit (ins_or_del, bookName, yearPublish,
authorName, QTY) select @ins_or_del, bookName, yearPublish, authorName, QTY
from inserted
        select @ins_or_del = 0
        insert into hw5.book audit (ins or del, bookName, yearPublish,
```

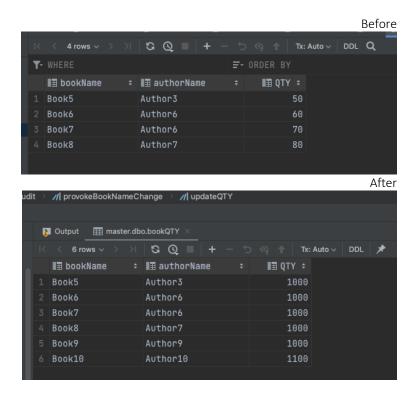
## بردیا اردکانیان - ۹۸۳۱۰۷۲

```
authorName, QTY) select @ins_or_del, bookName, yearPublish, authorName, QTY
from deleted

insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book2', 2001, 'Author2', 20)
insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book3', 2002, 'Author3', 30)
delete from hw5.book where id = 1
select * from hw5.book audit
```



```
insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book5', 2003, 'Author3', 50)
insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book6', 2004, 'Author6', 60)
insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book7', 2005, 'Author6', 70)
insert into hw5.book (bookName, yearPublish, authorName, QTY) values
('Book8', 2006, 'Author7', 80)
```



```
create or alter trigger preventBookDrop
on database
for DROP_TABLE
as
begin
    declare @EventData XML;
    set @EventData = EVENTDATA();

if @EventData.value('(/EVENT_INSTANCE/ObjectName)[1]', 'SYSNAME') =
```

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```
'book'
    begin
        print 'Cannot drop the book table'
        rollback transaction
    end
end

drop table hw5.book
    moster> drop table hw5.book
    [2024-05-28 07:13:04] [S0002][3609] Line 1: The transaction ended in the trigger. The batch has been aborted.
    Cannot drop the book table
```

