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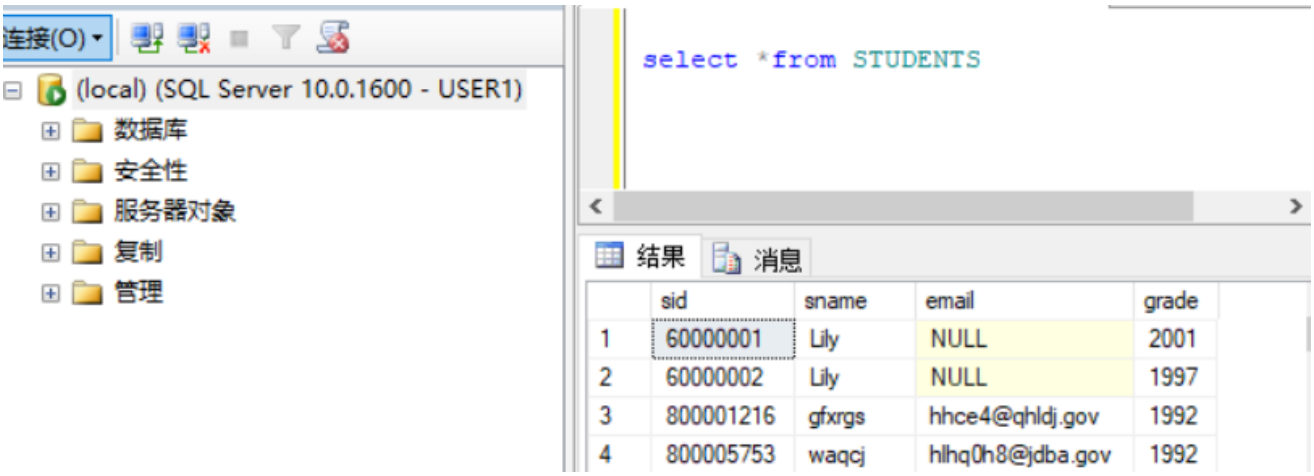
1.

授予所有用户对表 STUDENTS的查询权限

```
GRANT SELECT
ON STUDENTS
TO PUBLIC
WITH GRANT OPTION
```

实验结果：
执行后切换至用户USER1进行测试，此时USER1可以对STUDENTS表进行查询，USER2和USER3也是一样的结果：



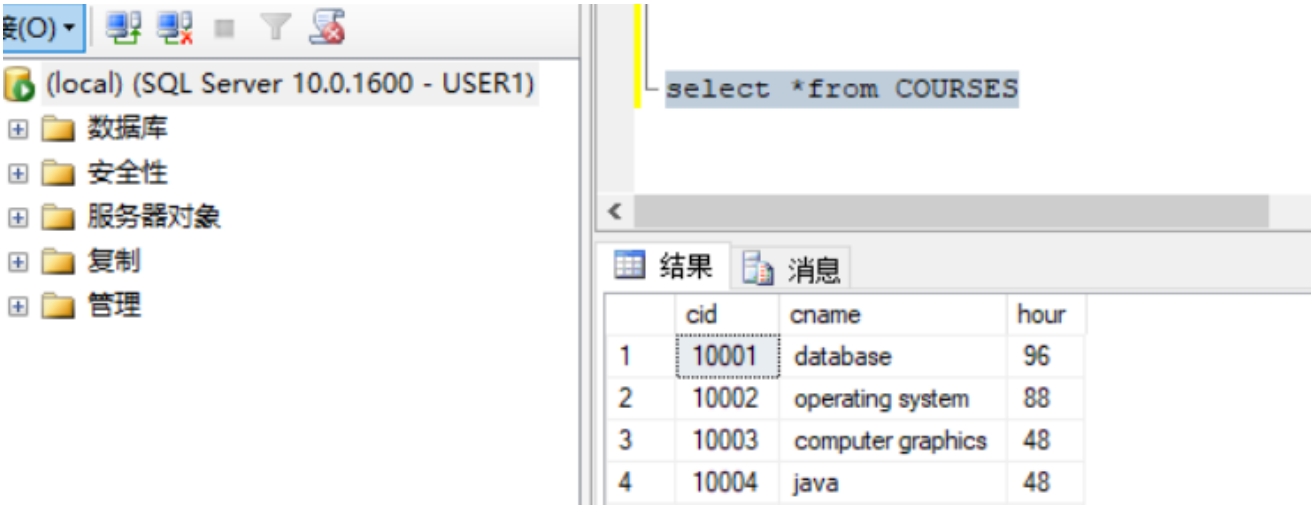
2.

授予所有用户对表 COURSES的查询和更新权限

```
GRANT SELECT,UPDATE
ON COURSES
TO PUBLIC
```

实验结果：
同样，管理员执行后切换至用户USER1进行测试，此时USER1可以对STUDENTS表进行查询，

USER2和USER3也是一样的结果：

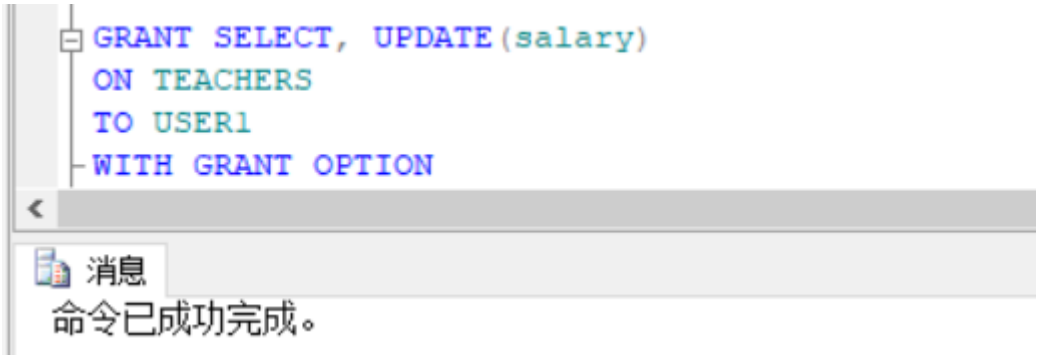


3.

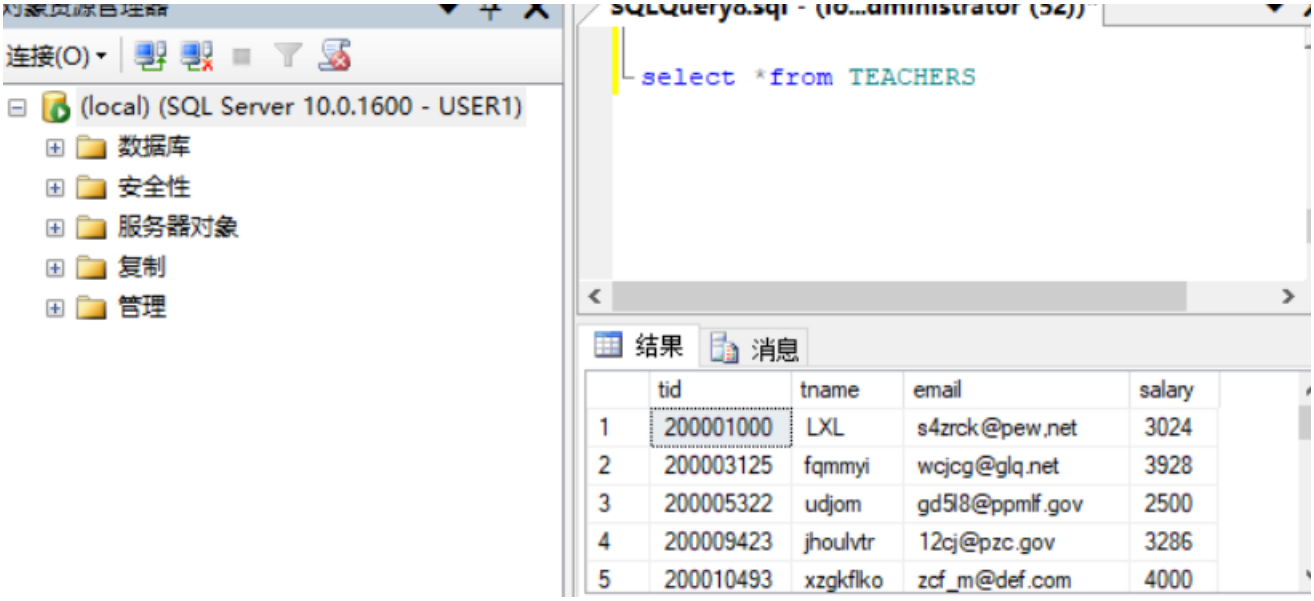
授予USER1对表 TEACHERS的查询,更新工资的权限,且允许 USERI1可以传播这些权限

```
GRANT SELECT,UPDATE(salary)
ON TEACHERS
TO USER1
WITH GRANT OPTION
```

在管理员账号上的执行结果：



切换至USER1进行验证，可以看到USER1可以对TEACHERS表进行查询：

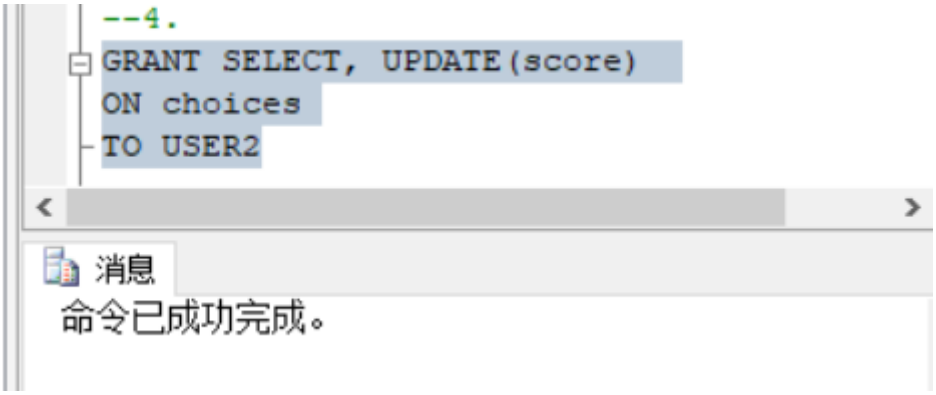


4.

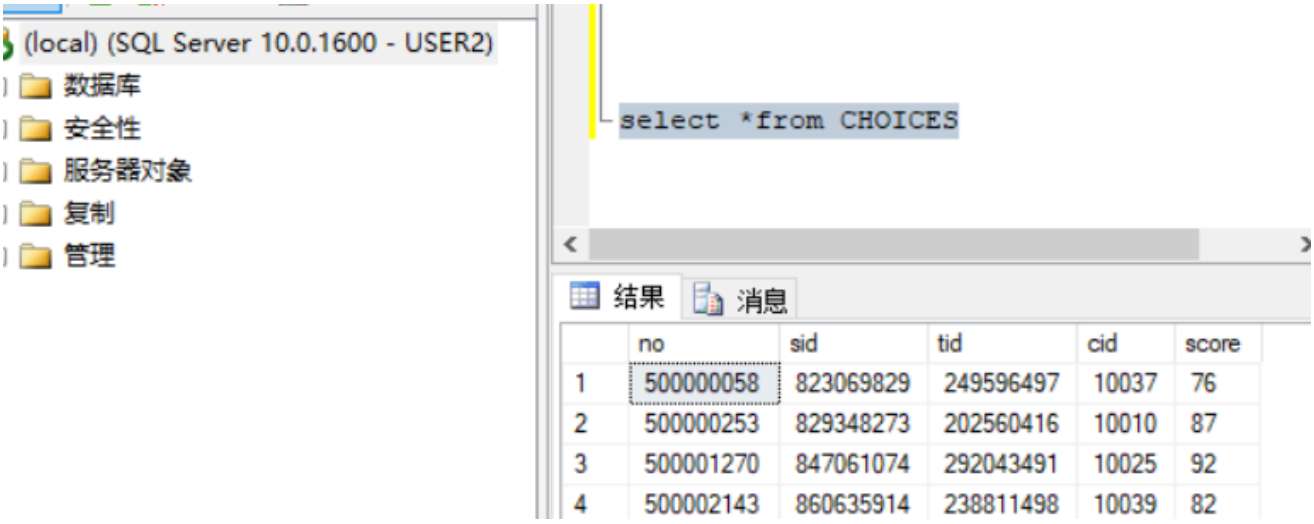
授予USER2对表 CHOICES的查询,更新成绩的权限

```
GRANT SELECT,UPDATE(score)
ON choices
TO USER2
```

在管理员账号上的执行结果：



切换至USER2进行验证，可以看到USER2可以对CHOICES表进行查询：

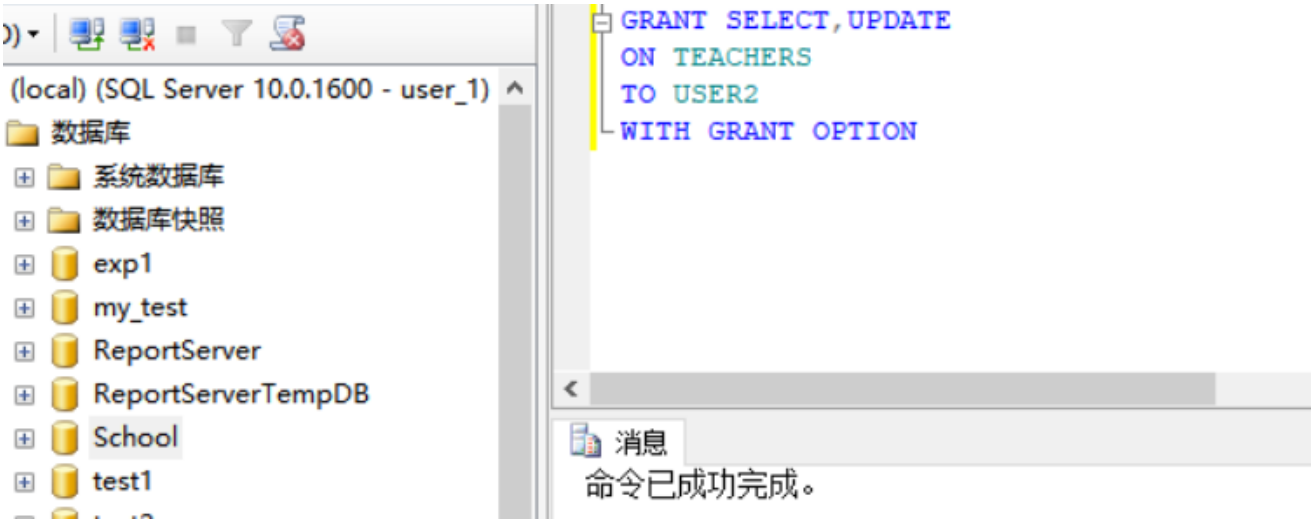


5.

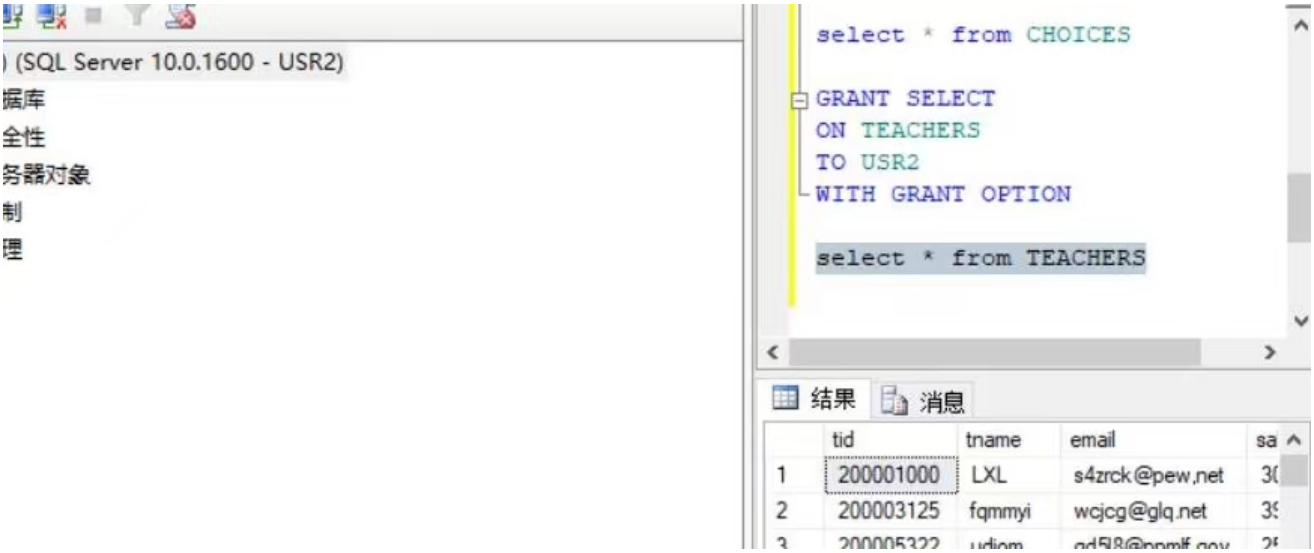
由USER1授予USER2对表 TEACHERS的查询权限和传播的此项权限的权利

```
--user 1
GRANT SELECT,UPDATE
ON TEACHERS
TO USER2
WITH GRANT OPTION
```

实验结果：



在USER2上的查询结果：



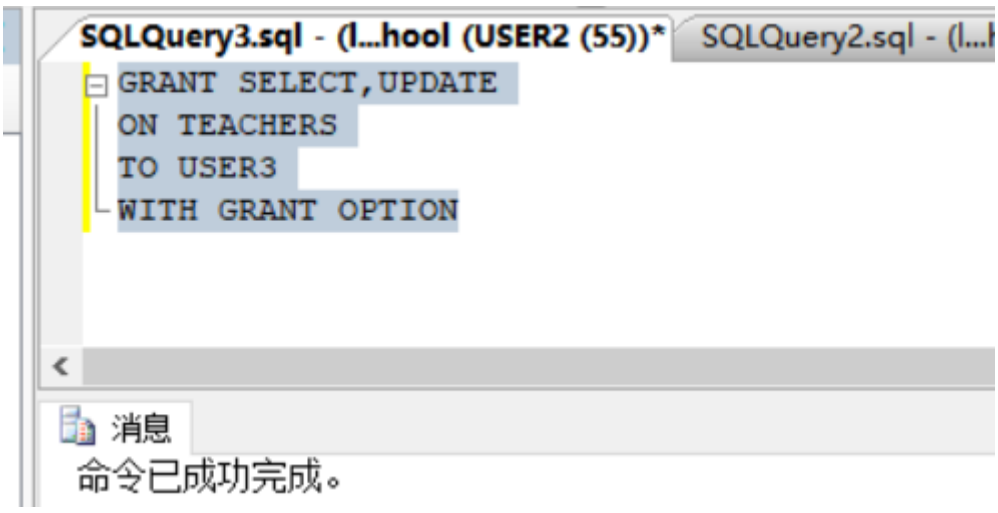
6.

由USER2授予USER3对表 TEACHERS的查询权限,和传播的此项权限的权利。再由USER3授予USER2上述权限,这样的SQL语句能否成功得到执行?

由USER2向USER3授权：

```
GRANT SELECT,UPDATE
ON TEACHERS
TO USER3
WITH GRANT OPTION
```

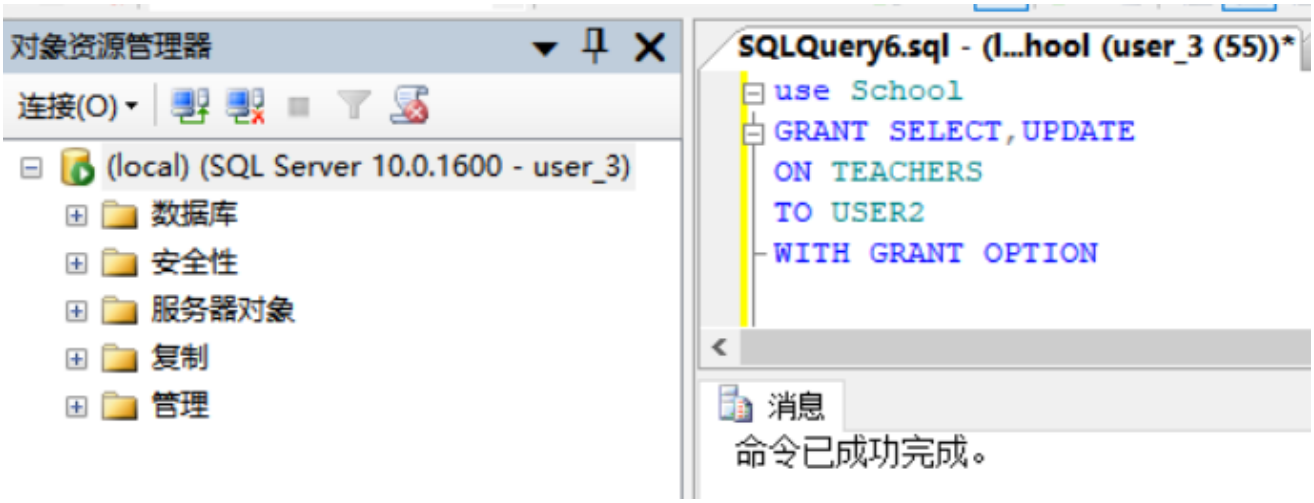
实验结果：



由USER3向USER2授权：

```
GRANT SELECT,UPDATE
ON TEACHERS
TO USER2
WITH GRANT OPTION
```

实验结果：



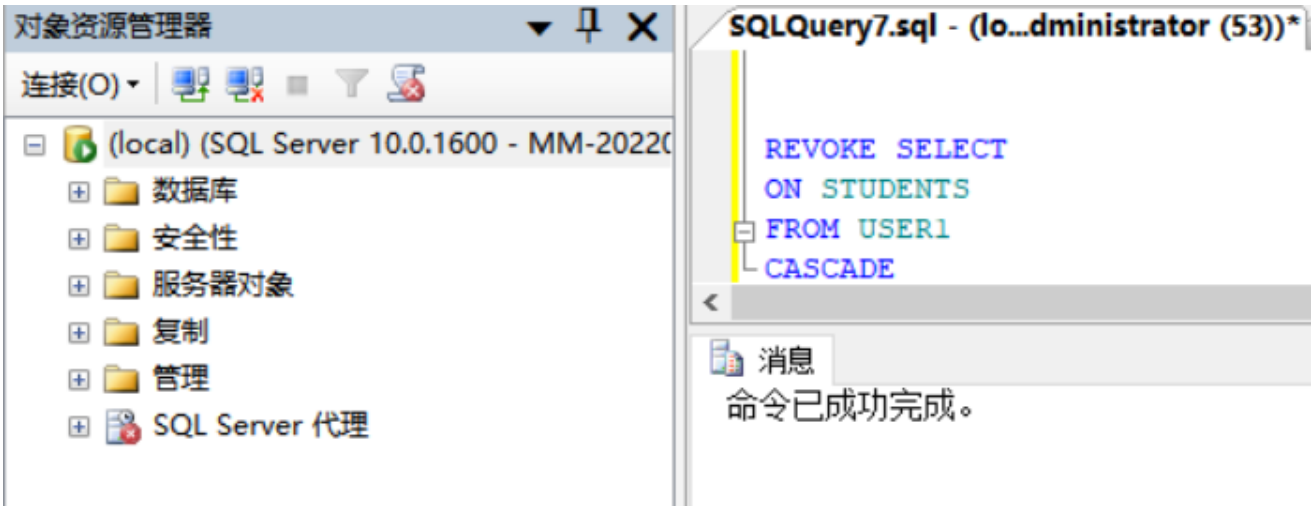
SQL语句可以执行，授权循环被允许的。

7.

取消USER1对表 STUDENTS的查询权限,考虑由USER2的身份对表 STUDENTS进行查询,操作能否成功?为什么？

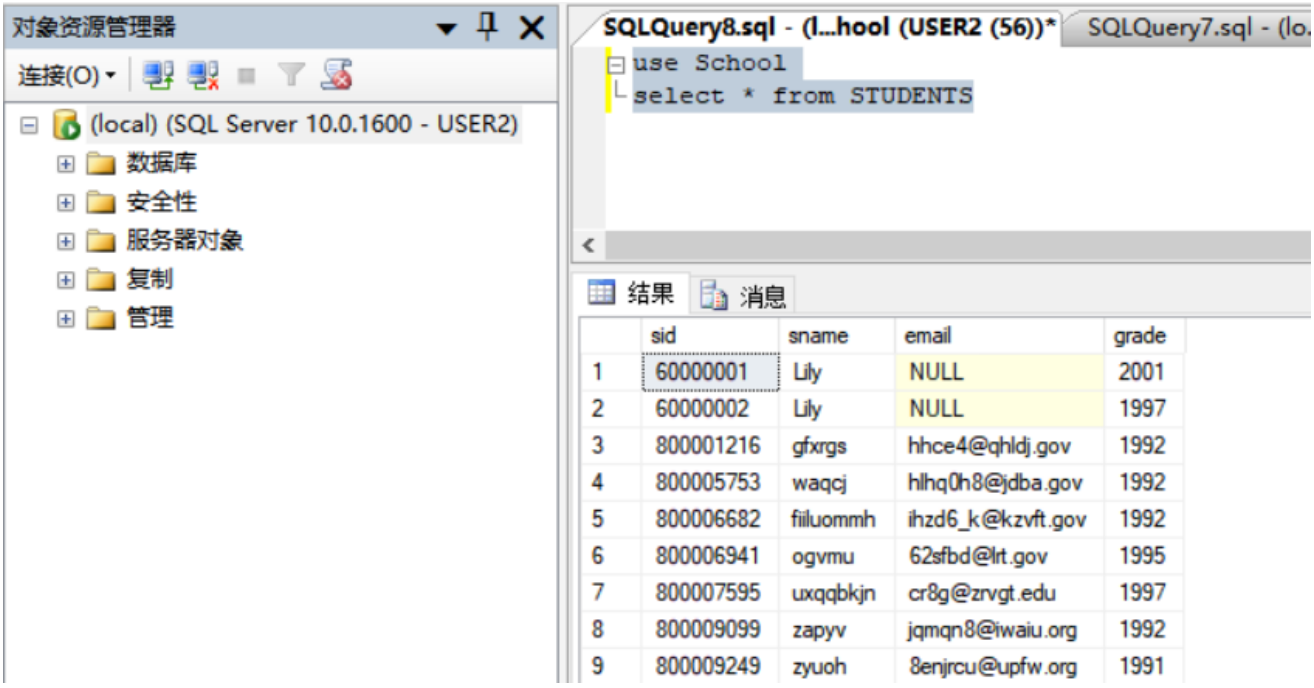
```
REVOKE SELECT
ON STUDENTS
FROM USER1
CASCADE
```

实验结果：



由USER2的身份对表STUDENTS进行查询的操作，查询成功，因为取消了USER1的查询权限，

USER2的还在：



8、

取消USER1和USER2的关于表 COURSES的权限

```
REVOKE SELECT,UPDATE
ON courses
FROM USER1,USER2
CASCADE
```

实验结果：