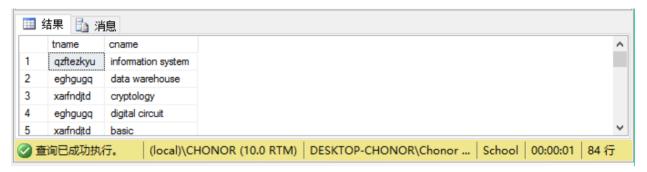
```
CREATE TABLE CARD (
    cid CHAR(10) not null UNIQUE,
    sid CHAR(10) not null,
    money decimal(10,2),
    PRIMARY KEY(cid),
    FOREIGN KEY(sid) REFERENCES STUDENTS ON DELETE CASCADE
    )
    SELECT * from card
   🎹 结果 🛅 消息
       cid sid money
   ☑ 查询已成功执行。
                       (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
2.
    ALTER TABLE CARD ADD bank CHAR(20)
    SELECT * from card
   🎹 结果 🛅 消息
       cid sid money bank
   ☑ 查询已成功执行。
                       (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
3.
    ALTER TABLE CARD DROP column bank
    SELECT * from card
   🎹 结果 🚹 消息
       cid sid money
  查询已成功执行。
                       | (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
                                                                                         ▲ 1 Χ
```

```
select TEACHERS.tname,COURSES.cname
from TEACHERS,COURSES,CHOICES
WHERE TEACHERS.tid=CHOICES.tid AND CHOICES.cid=COURSES.cid
AND TEACHERS.salary>=ALL(
SELECT salary
FROM TEACHERS
WHERE salary IS NOT NULL
)
```



```
select cname
from COURSES
where hour=(select hour from COURSES where cname='uml') OR
hour=(select hour from COURSES where cname='c++')
```



```
SELECT sid

FROM CHOICES

WHERE cid IN(

SELECT cid FROM COURSES WHERE COURSES.cname='C++'
)

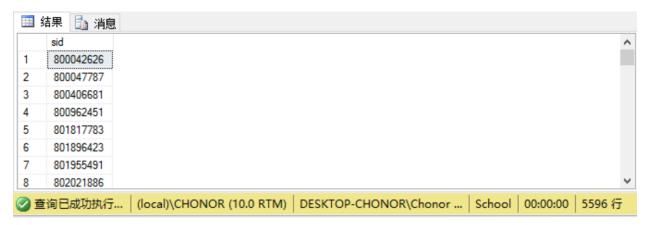
EXCEPT

SELECT sid

FROM CHOICES

WHERE cid IN(

SELECT cid FROM COURSES WHERE COURSES.cname='database'
)
```



```
SELECT DISTINCT STUDENTS.sid

FROM CHOICES,STUDENTS,COURSES

WHERE CHOICES.cid=COURSES.cid

AND COURSES.cname='database'

AND CHOICES.sid=STUDENTS.sid

AND CHOICES.score>(

SELECT CHOICES.score

FROM CHOICES,STUDENTS,COURSES

WHERE STUDENTS.sname='ruvldjlm'

AND CHOICES.sid=STUDENTS.sid

AND COURSES.cname='database'

AND CHOICES.cid=COURSES.cid

)
```

```
sid
    807171972
2
     821480217
3
     821925838
4
     838427337
5
    838626877
6
    839258458
7
     839719799
8
     840242537
☑ 查询已成功执行... | (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:01 | 1044 行
```

```
SELECT MAX(CHOICES.score) as maxs,AVG(CHOICES.score) as avgs
From CHOICES,COURSES
WHERE CHOICES.cid = COURSES.cid AND COURSES.cname='database'
```



```
SELECT STUDENTS.sname

FROM CHOICES,STUDENTS,COURSES

WHERE CHOICES.sid=STUDENTS.sid

AND CHOICES.cid=COURSES.cid

AND COURSES.cname='database'

AND CHOICES.score>=ALL(

SELECT CHOICES.score

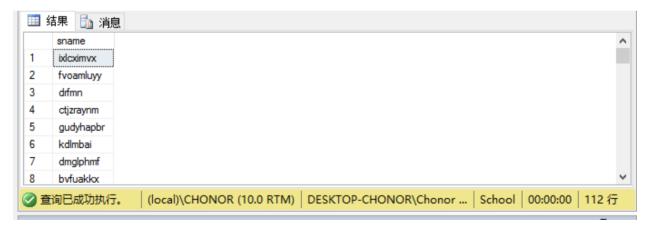
FROM CHOICES,COURSES

WHERE COURSES.cname='database'

AND CHOICES.cid=COURSES.cid

AND CHOICES.score IS NOT NULL

)
```



```
SELECT sname

FROM STUDENTS

WHERE sname NOT IN(

SELECT STUDENTS.sname

FROM COURSES,STUDENTS,CHOICES

WHERE COURSES.cname='database'

AND CHOICES.cid=COURSES.cid

AND STUDENTS.sid=CHOICES.sid

)
```



SELECT STUDENTS.sname

FROM CHOICES,STUDENTS

WHERE CHOICES.sid = STUDENTS.sid

GROUP BY CHOICES.sid ,STUDENTS.sname

HAVING COUNT(CHOICES.sid)>2

ORDER BY CHOICES.sid



12.

CREATE VIEW VIEW\_SC(sname,cname,score)

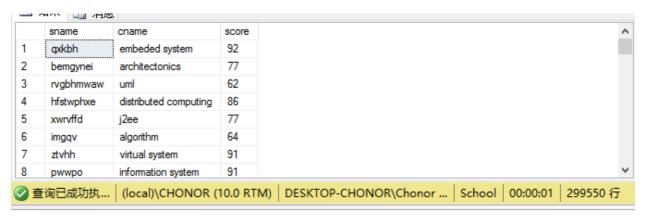
AS SELECT

STUDENTS.sname,COURSES.cname,CHOICES.score

FROM CHOICES,COURSES,STUDENTS

WHERE CHOICES.cid = COURSES.cid AND CHOICES.sid= STUDENTS.sid

SELECT \* FROM VIEW\_SC





14.

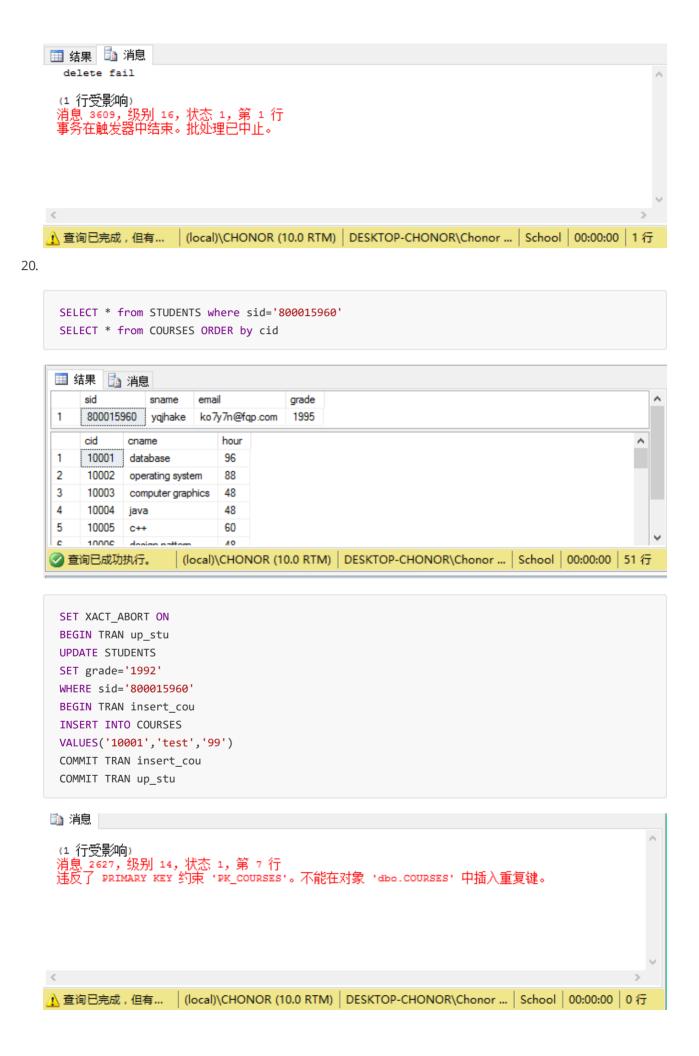


此时插入全新的数据会影响到多个表比如 STUDENTS,COURSES,CHOICES,因为他们的主键都不能为null,而我们没有插入主键,所以不能插入。

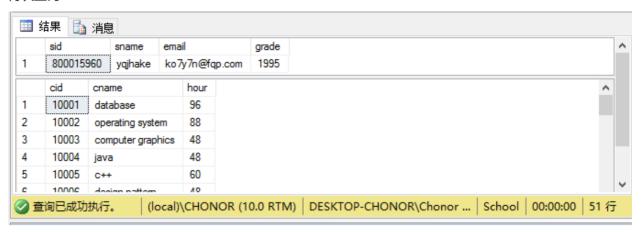
```
G0
     CREATE RULE R1 AS @money >0
     EXEC sp_bindrule R1, 'CARD.[money]'
   ⅓ 消息
    已将规则绑定到表的列。
   📝 查询已成功执行。
                        (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
16.
     insert into CARD values ('1000','807171972','-0.1')
     🛅 消息
     消息 513, 级别 16, 状态 0, 第 1 行
列的插入或更新与先前的 CREATE RULE 语句所指定的规则发生冲突。该语句已终止。冲突发生于数据库
语句已终止。
    ⚠ 查询已完成,但有...
                        | (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
17.
     EXEC sp_unbindrule 'CARD.[money]'
   動 消息
    已解除了表列与规则之间的绑定。
                       (local)\CHONOR (10.0 RTM) | DESKTOP-CHONOR\Chonor ... | School | 00:00:00 | 0 行
   🗾 查询已成功执行。
```

```
go
create trigger T1 on STUDENTS
for delete
as
if (select sid from deleted)='800015960'
begin
print ' delete fail '
Rollback transaction
end
```

```
delete from choices where sid='800015960'
delete from STUDENTS where sid='800015960'
```



## 再次查询



此时我们发现没有插入回滚了。