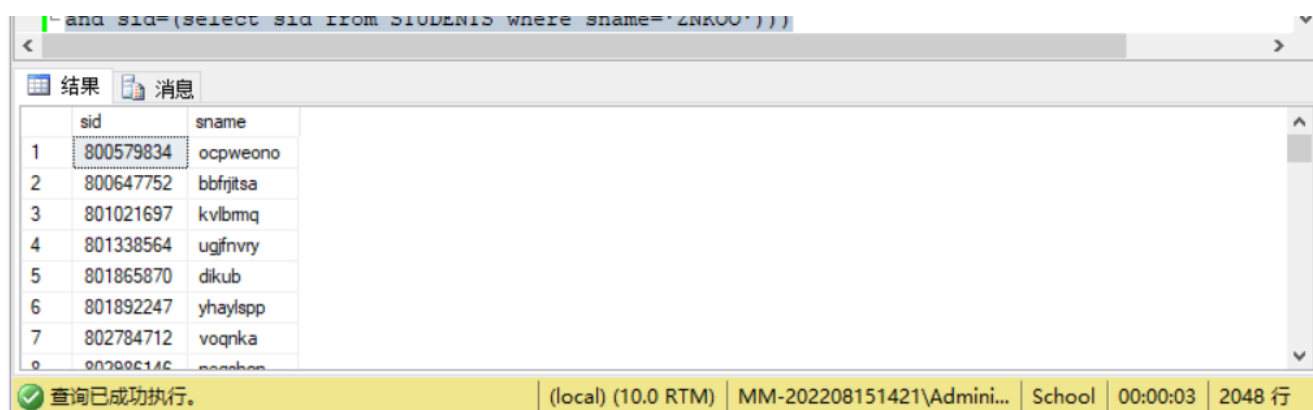| 姓名	学号
崔璨明	20337025

1.

查询选修C++课程的成绩比姓名为 ZNKOO的学生高的所有学生的编号和姓名。

```
select sid,sname
from STUDENTS
where sid in
(select sid from CHOICES where cid in
(select cid from COURSES where cname='c++')
and score> (select score from CHOICES
where cid in(select cid from COURSES where cname='c++')
and sid in (select sid from STUDENTS where sname='ZNKOO'))
)
```
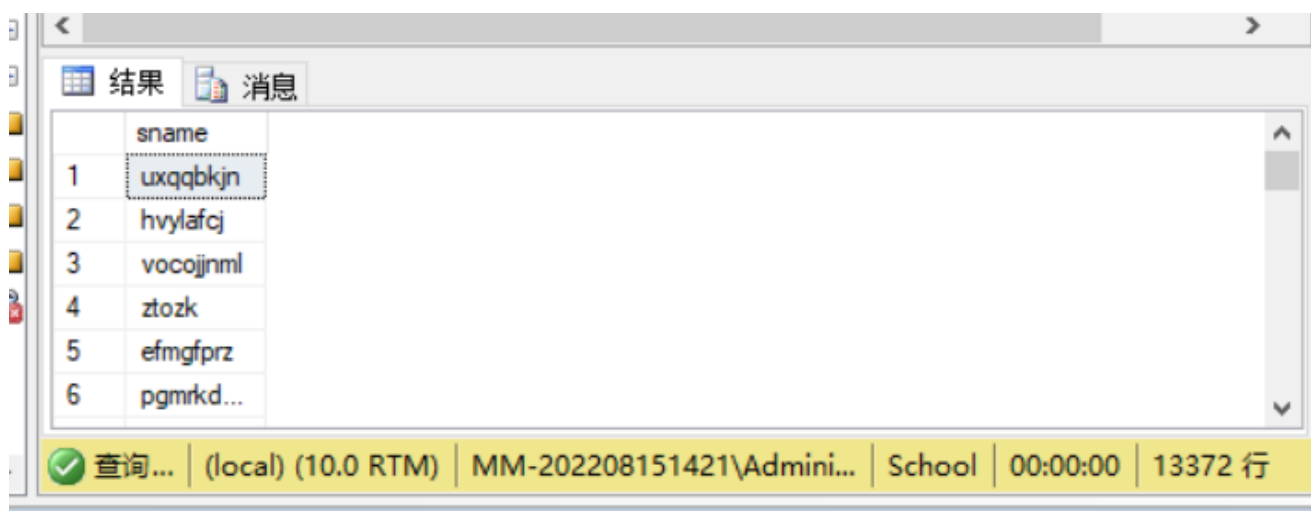

2.

找出和学生883794999或学生850955252的年级一样的学生的姓名

```
select sname
from STUDENTS
where grade=(select grade from STUDENTS where sid=883794999)
or grade=(select grade from STUDENTS where sid=850955252)
```
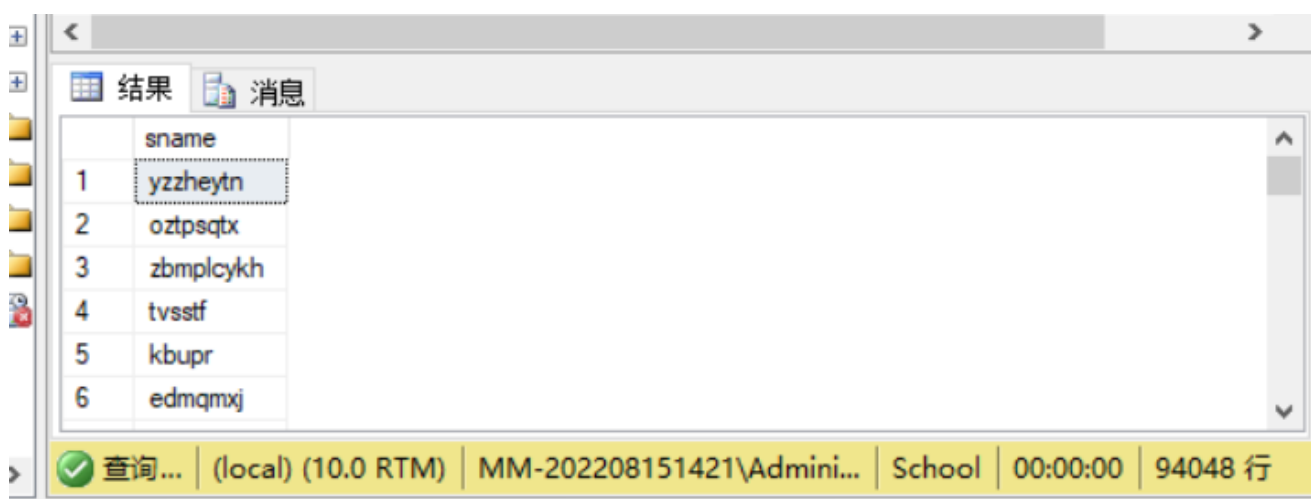
	sname
1	uxqqbkjn
2	hvylafcj
3	vocojjnml
4	ztozk
5	efmgfprz
6	pgmrkd...

查询... | (local) (10.0 RTM) | MM-202208151421\Admini... | School | 00:00:00 | 13372 行

3.

查询没有选修Java的学生名称

```
select sname
from STUDENTS
where sid not in
(select sid from CHOICES
where cid =(select cid from COURSES where cname ='java')
)
```


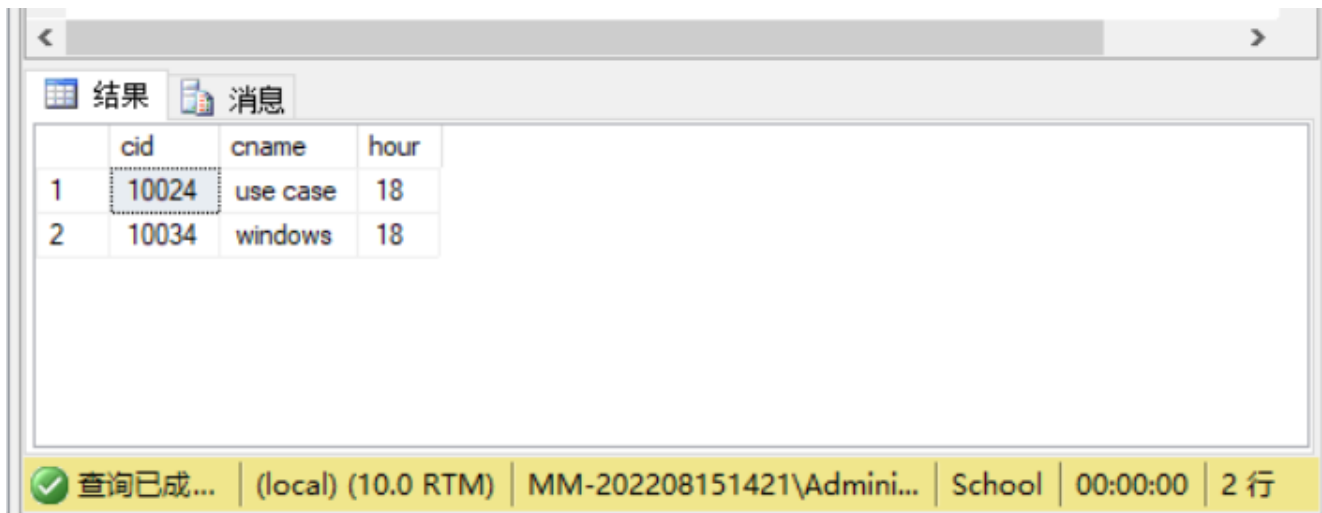|	sname
1	yzzheytn
2	oztpsqtx
3	zbmplcykh
4	tvsstf
5	kbupr
6	edmqmxj

查询... | (local) (10.0 RTM) | MM-202208151421\Admini... | School | 00:00:00 | 94048 行

4.

找出课时最少的课程的详细信息

```
select *
from COURSES
```

```
where hour<=all(select hour from COURSES)
```


5.

查询工资最高的教师的编号和开设的课程号

```
select TEACHERS.tid,CHOICES.cid
from TEACHERS join CHOICES on teachers.tid=CHOICES.tid
where TEACHERS.tid in
(select tid from TEACHERS
where salary = (select max(salary) from TEACHERS))
```


6.

找出选修课程ERP成绩最高的学生编号

```
select sid
from CHOICES
where cid in(select cid from COURSES where cname='ERP')
and score in(select max(score) from CHOICES where cid in (select cid from
COURSES where cname='ERP'))
```
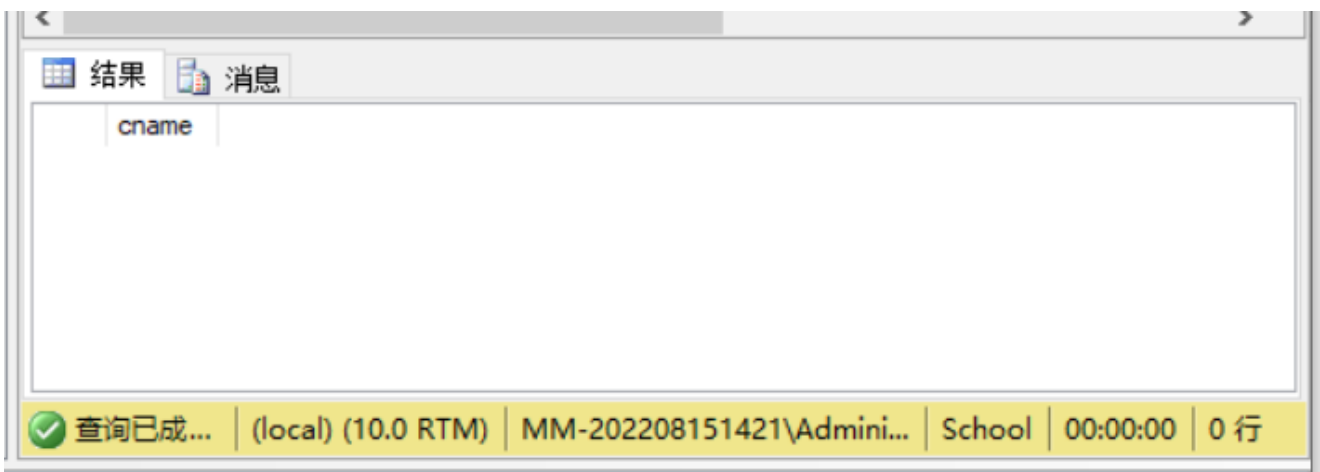
	sid
1	831163985
2	862976650
3	840891316
4	844440501
5	883884237
6	862654622

✅ 查询已... | (local) (10.0 RTM) | MM-202208151421\Admini... | School | 00:00:00 | 95 行

7、

查询没有学生选修的课程名称

```
select cname
from COURSES
where cid not in (select cid from CHOICES)
```
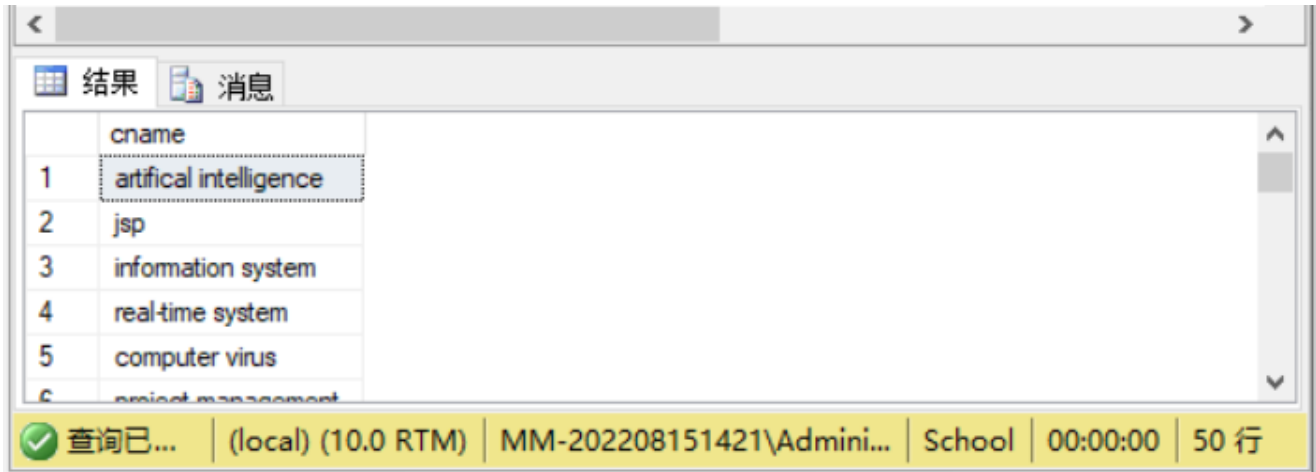
cname

✅ 查询已成... | (local) (10.0 RTM) | MM-202208151421\Admini... | School | 00:00:00 | 0 行

8.

查询讲授课程UML的教师所讲授的所有课程名称

```
select cname
from COURSES
where cid in
(select cid from CHOICES where tid in(select tid from CHOICES
where cid in (select cid from COURSES where cname='UML') ))
```
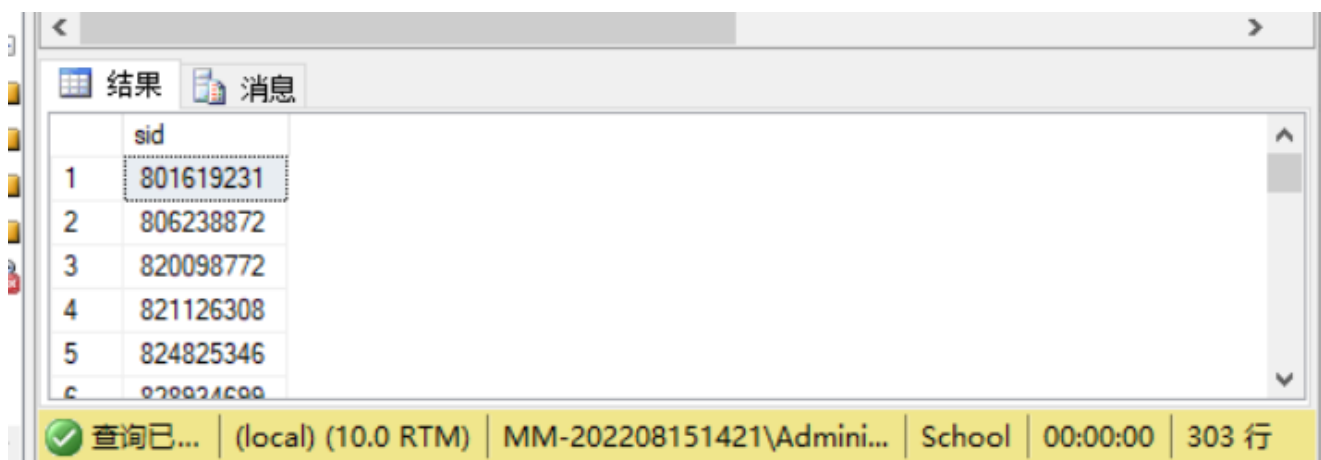

9.

使用集合交运算，查询既选修了database又选修了UML课程的学生编号

```
(select sid
from CHOICES where cid in(select cid from COURSES where cname='database'))
INTERSECT
(select sid
from CHOICES where cid in(select cid from COURSES where cname='UML'))
```
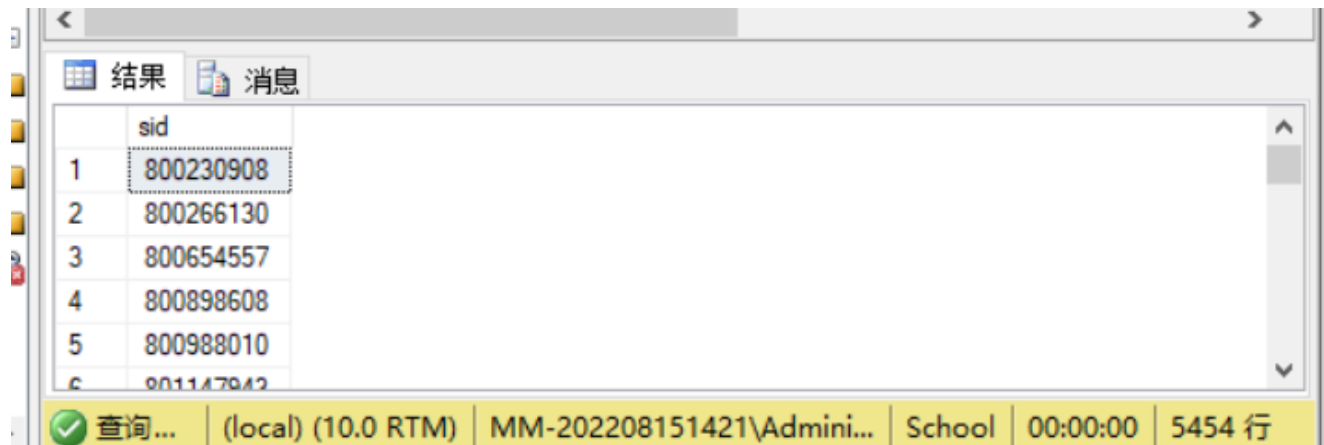

10.

使用集合减运算，查询选修了database却没有选修UML课程的学生编号

```
(select sid
from CHOICES where cid in(select cid from COURSES where cname='database'))
EXCEPT
(select sid
from CHOICES where cid in(select cid from COURSES where cname='UML'))
```

	sid
1	800230908
2	800266130
3	800654557
4	800898608
5	800988010
6	801147942

结果 | 消息

查询... | (local) (10.0 RTM) | MM-202208151421\Admini... | School | 00:00:00 | 5454 行