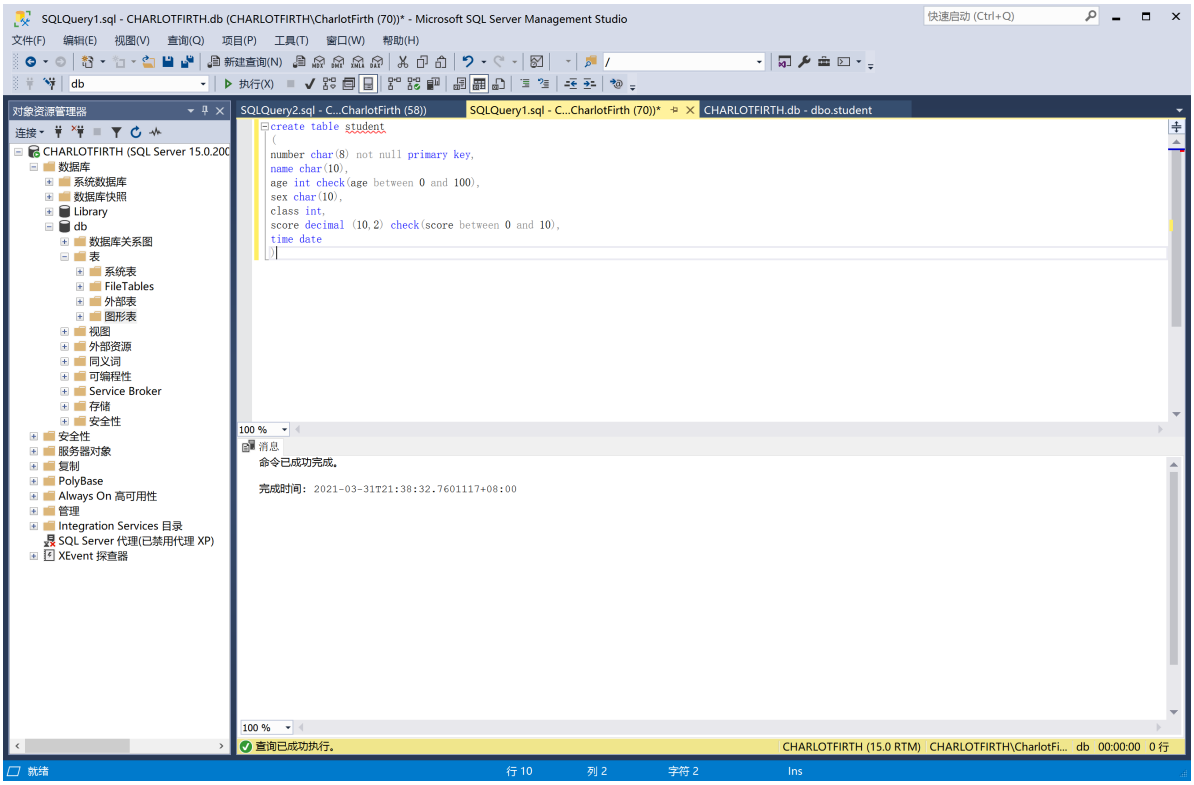
TASK 1

Q1

执行SQL语句

```
create table student
(
number char(8) not null primary key,
name char(10),
age int check(age between 0 and 100),
sex char(10),
class int,
score decimal (10,2) check(score between 0 and 10),
time date
)
```

执行结果：

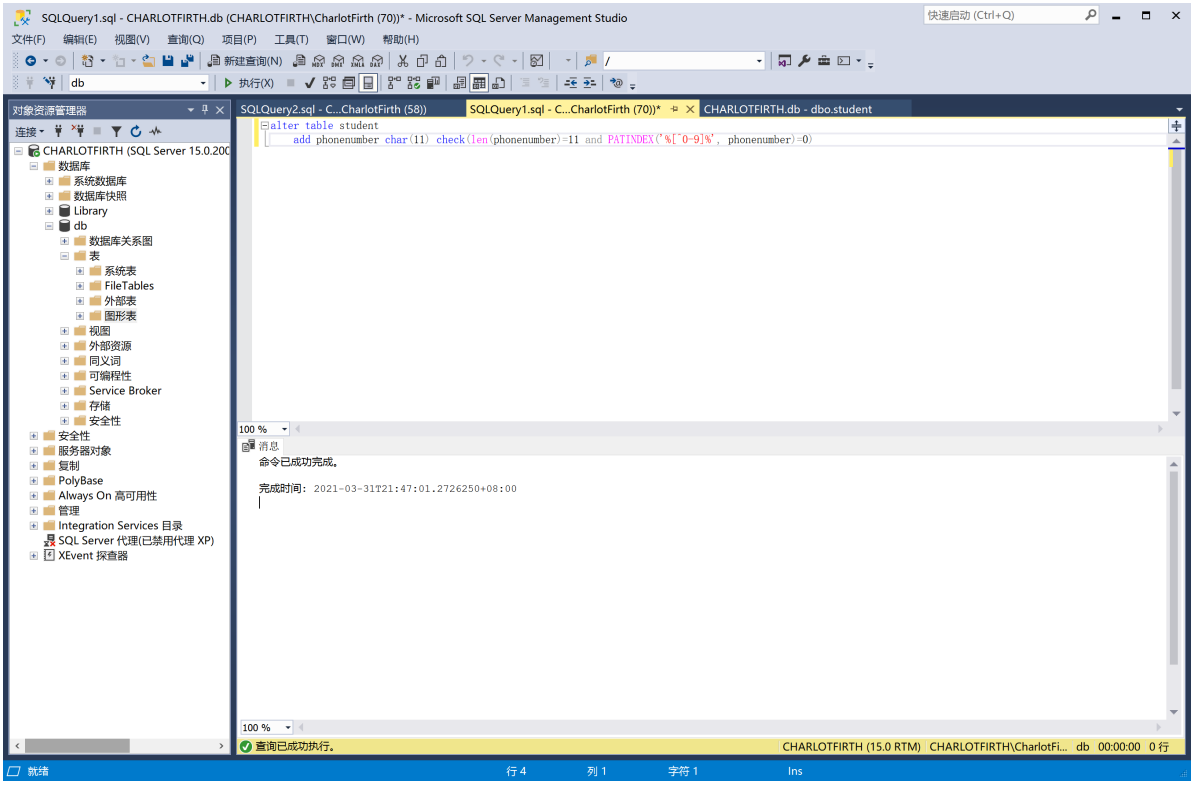


Q2

执行SQL语句

```
alter table student
    add phonenumber char(11) check(len(phonenumber)=11 and PATINDEX('%[^0-9]%',
phonenumber)=0)
```

执行结果：

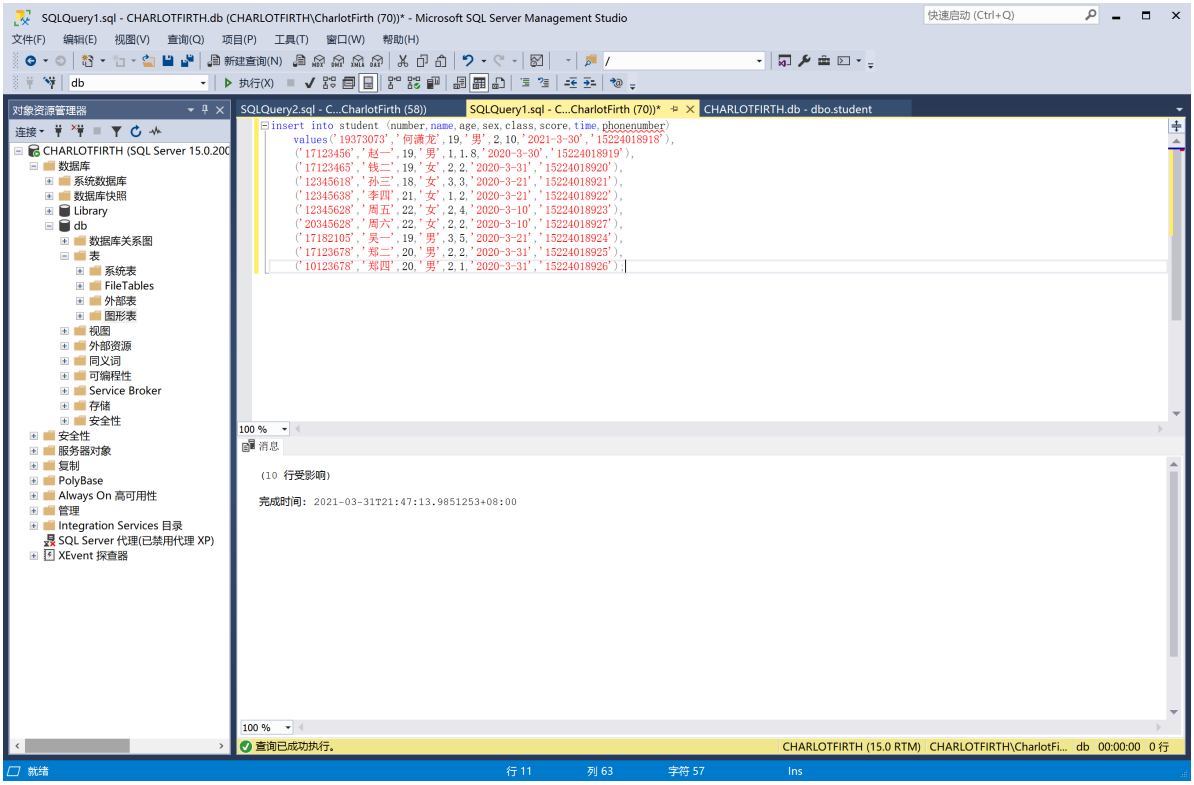


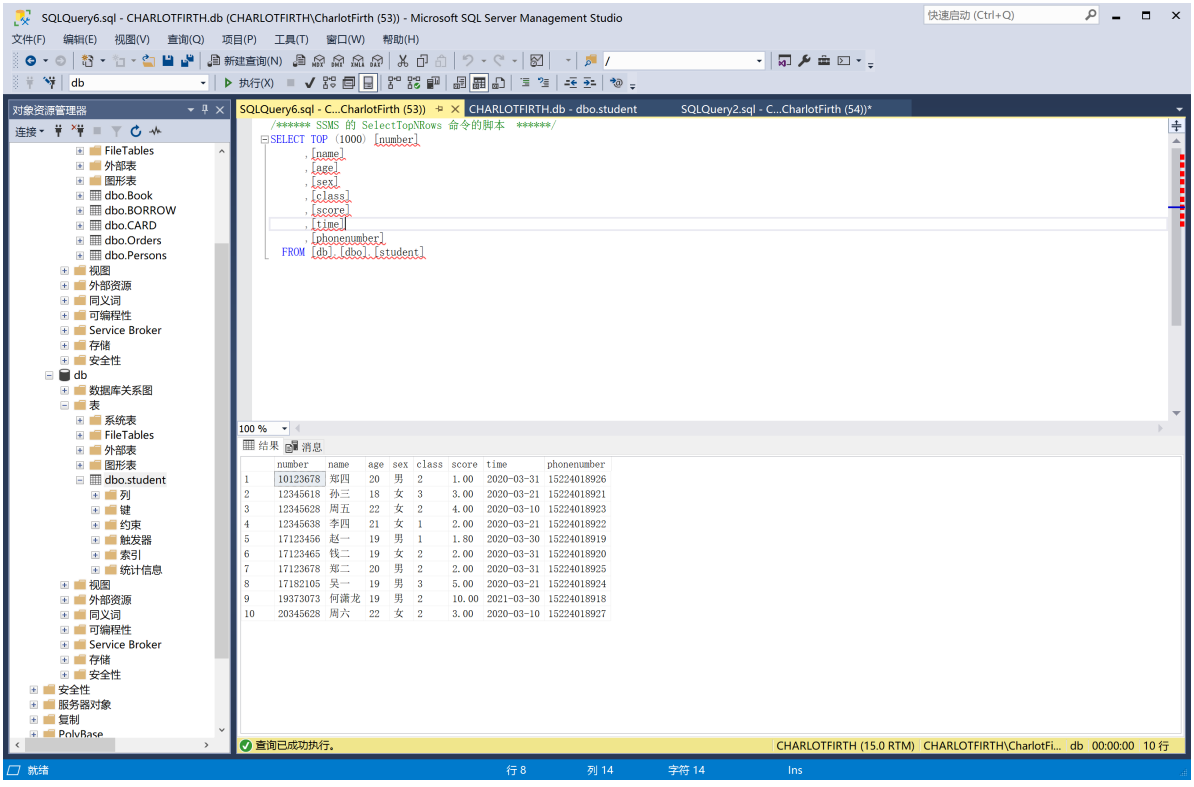
Q3

执行SQL语句

```
insert into student (number,name,age,sex,class,score,time,phonenumber)
    values('19373073','何潇龙',19,'男',2,10,'2021-3-30','15224018918'),
    ('17123456','赵一',19,'男',1,1.8,'2020-3-30','15224018919'),
    ('17123465','钱二',19,'女',2,2,'2020-3-31','15224018920'),
    ('12345618','孙三',18,'女',3,3,'2020-3-21','15224018921'),
    ('12345638','李四',21,'女',1,2,'2020-3-21','15224018922'),
    ('12345628','周五',22,'女',2,4,'2020-3-10','15224018923'),
    ('20345628','周六',22,'女',2,2,'2020-3-10','15224018927'),
    ('17182105','吴一',19,'男',3,5,'2020-3-21','15224018924'),
    ('17123678','郑二',20,'男',2,2,'2020-3-31','15224018925'),
    ('10123678','郑四',20,'男',2,1,'2020-3-31','15224018926');
```

执行结果：



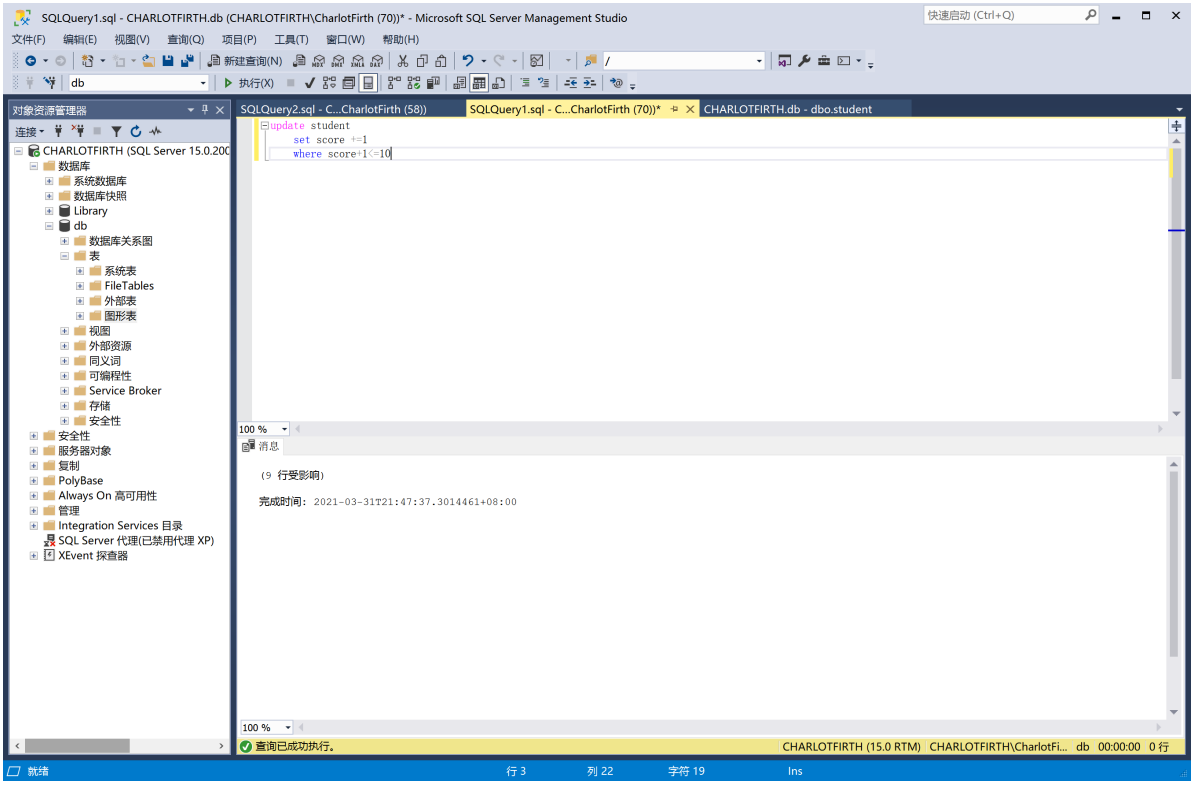


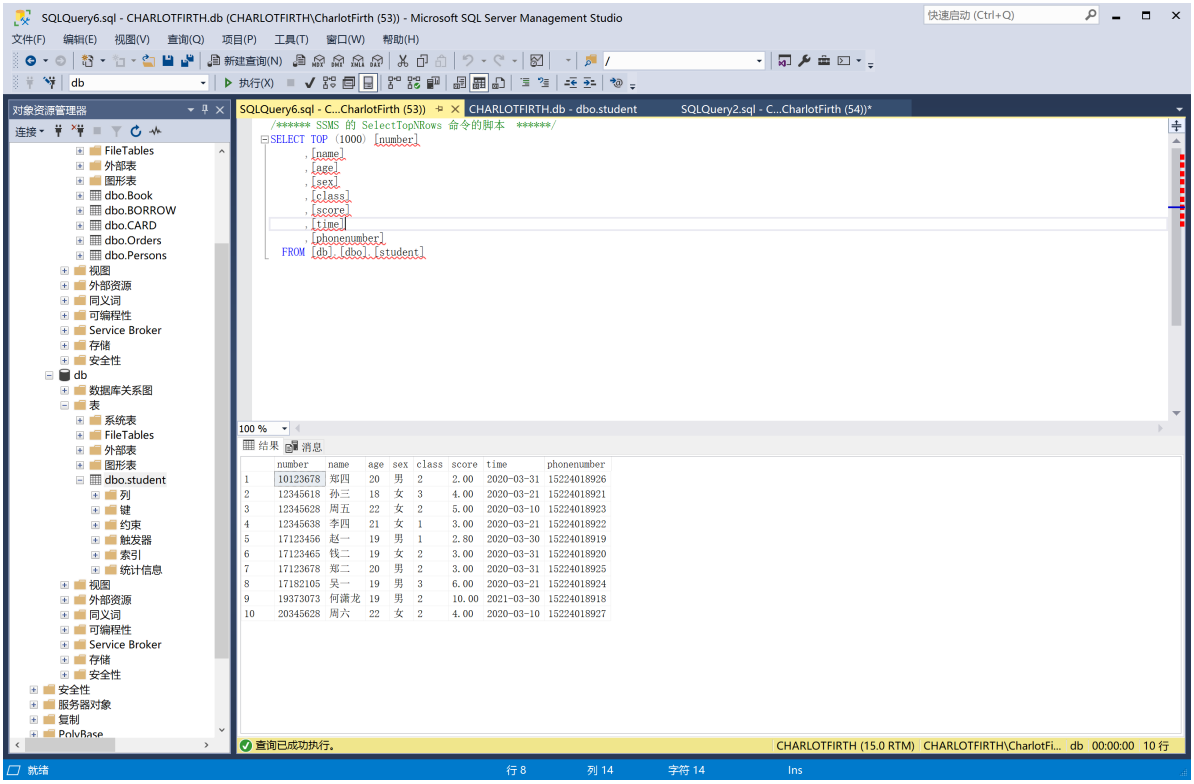
Q4

执行SQL语句

```
update student
    set score +=1
    where score+1<=10
```

执行结果：



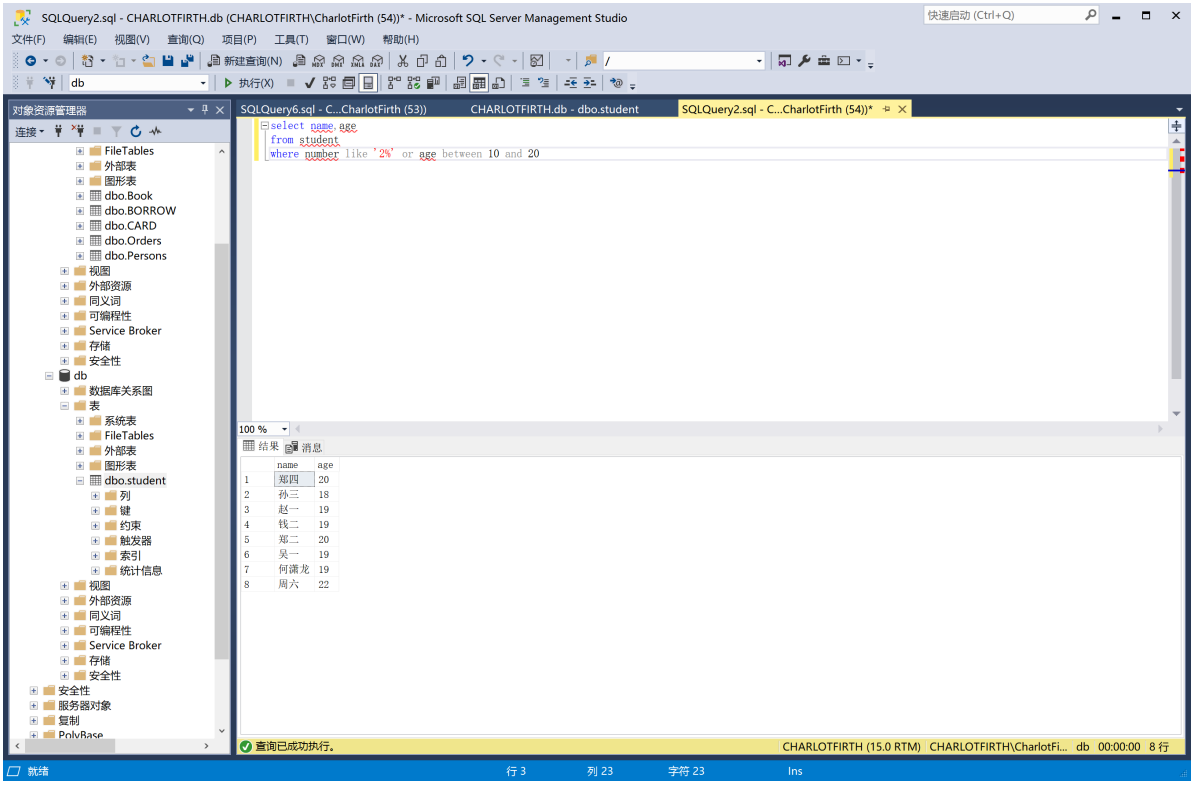


Q5

执行SQL语句

```
select name,age
from student
where number like '2%' or age between 10 and 20
```

执行结果：

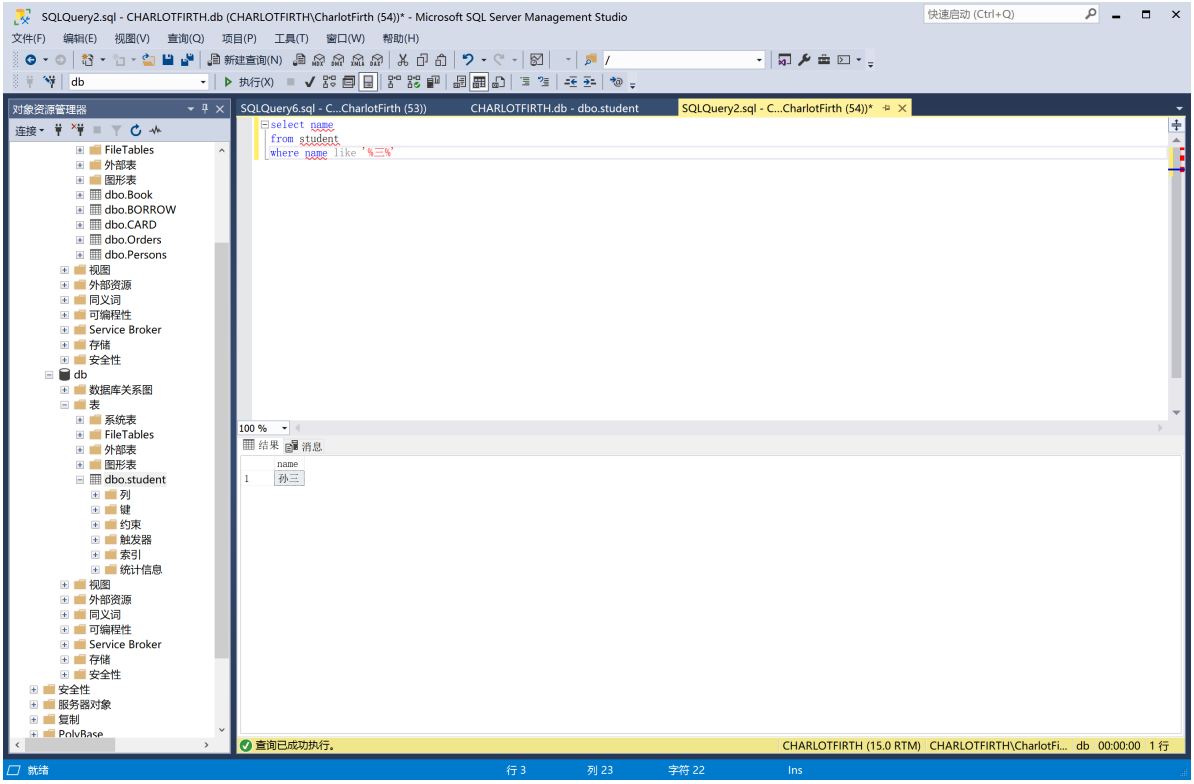


Q6

执行SQL语句

```
select name
from student
where name like '%三%'
```

执行结果：

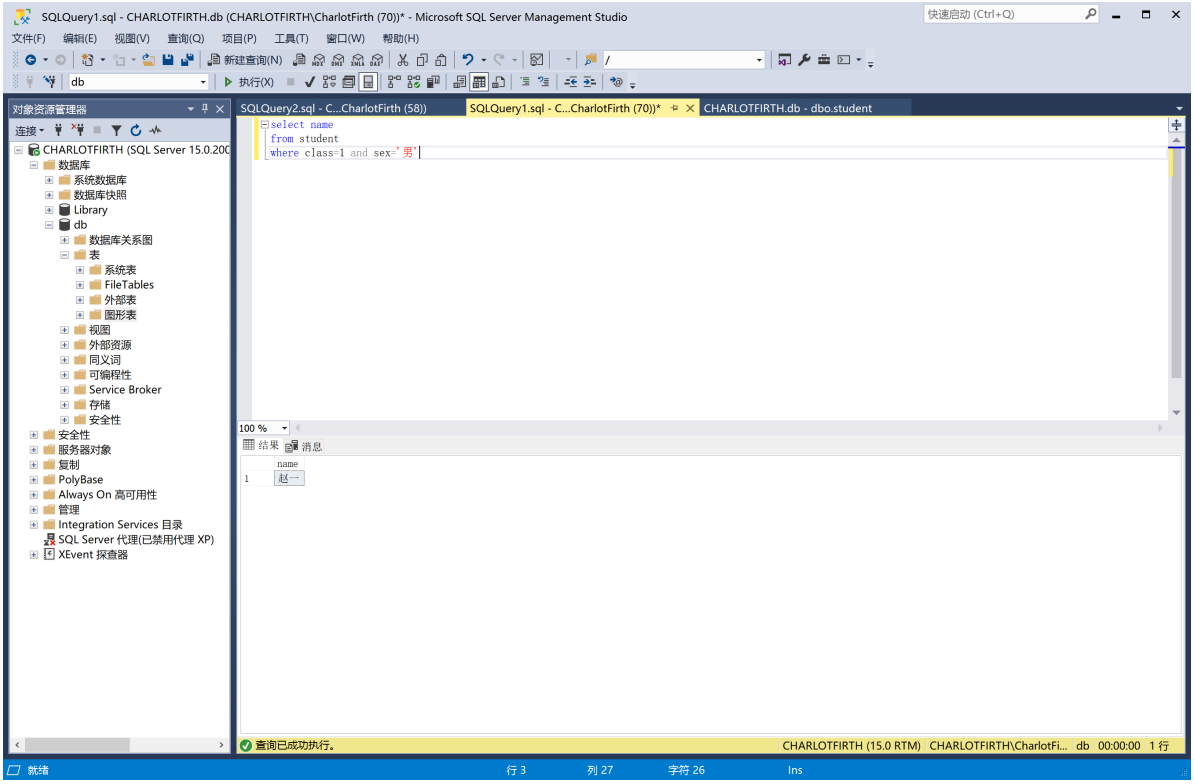


Q7

执行SQL语句

```
select name
from student
where class=1 and sex='男'
```

执行结果：

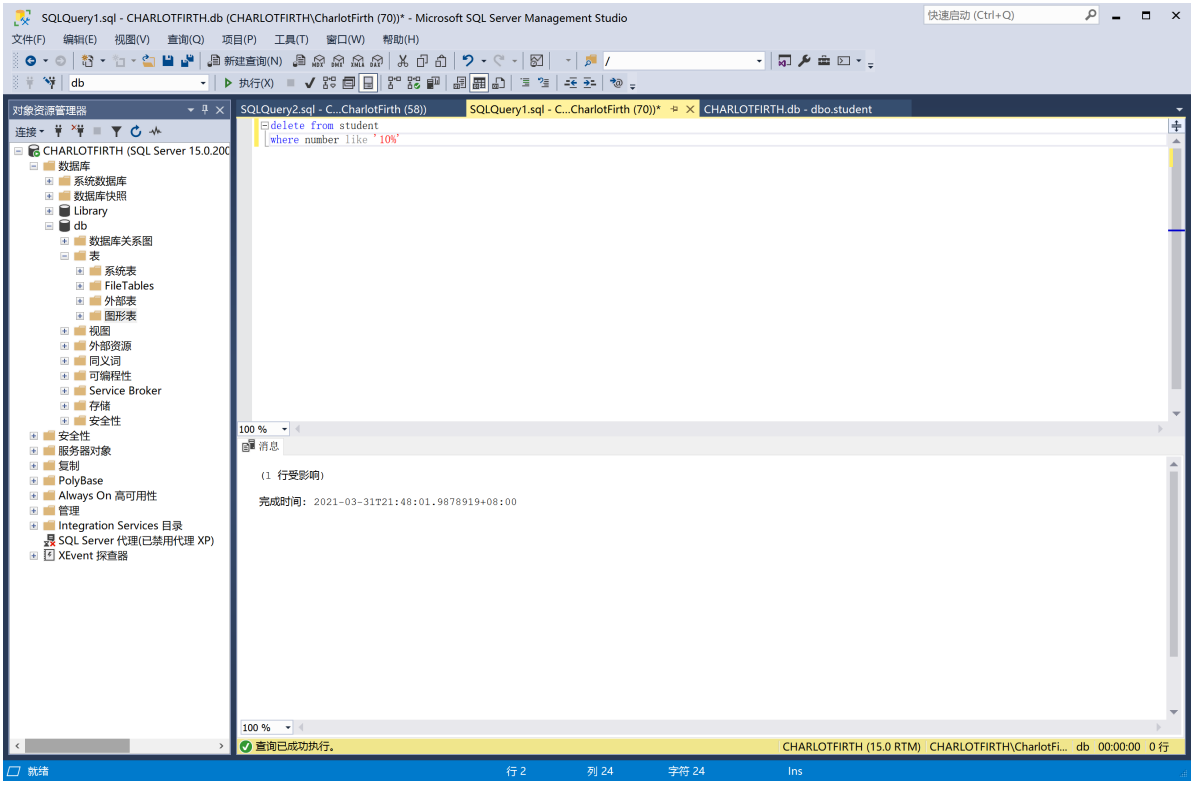


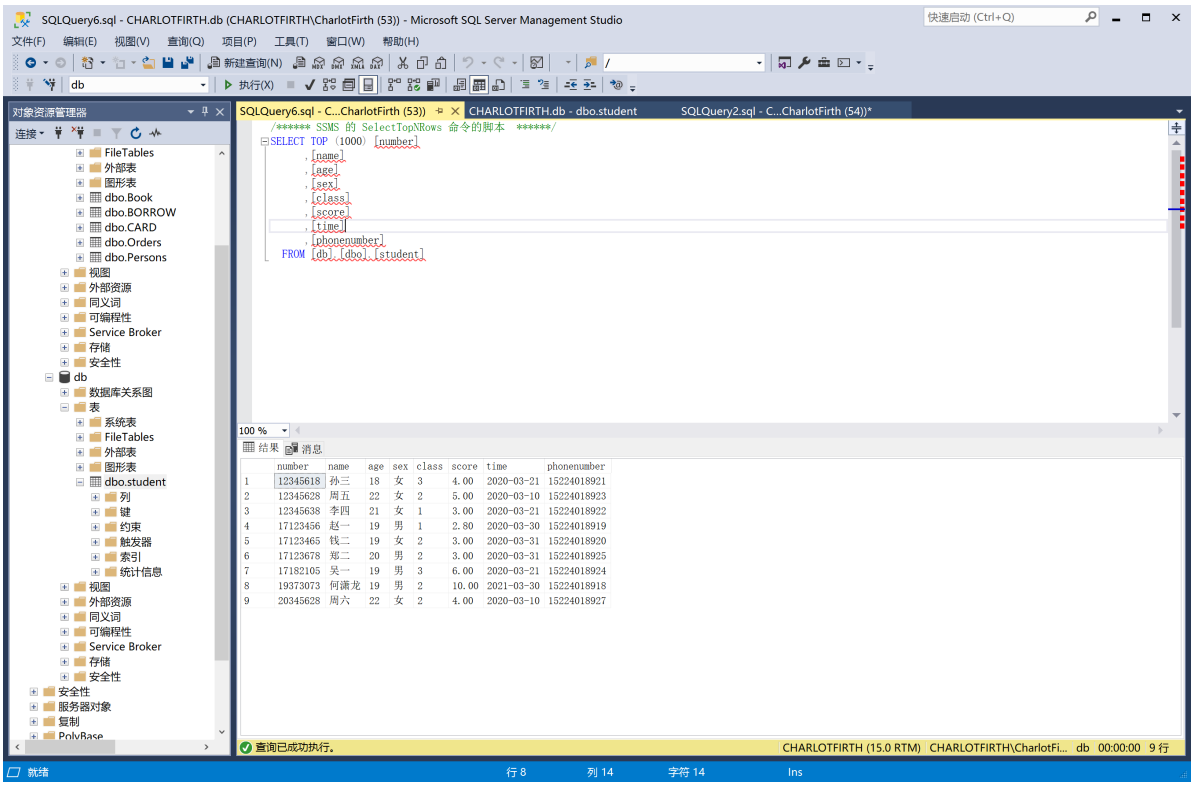
Q8

执行SQL语句

```
delete from student
where number like '10%'
```

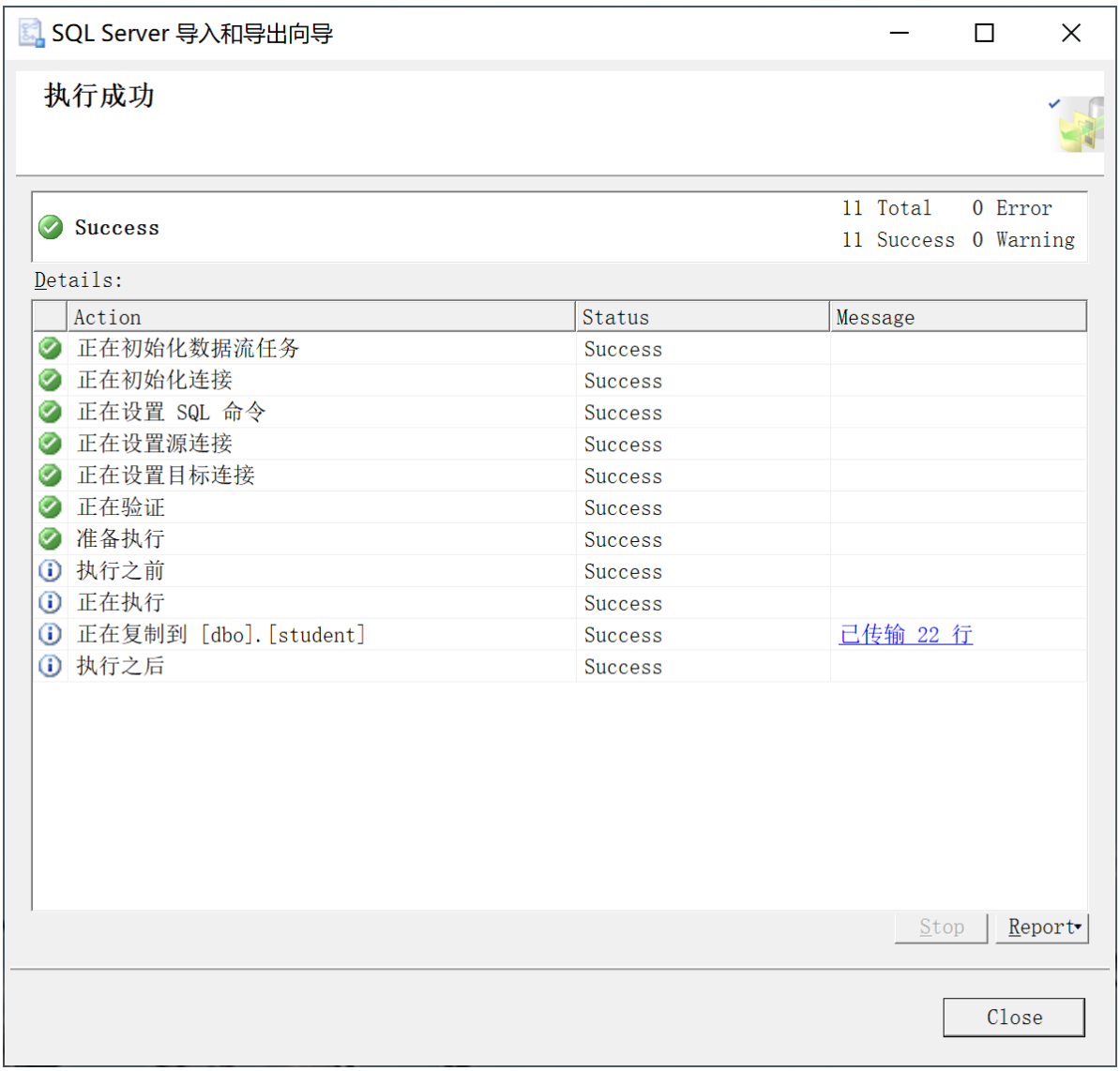
执行结果：


SQLQuery1.sql - CHARLOTFIRTH.db (CHARLOTFIRTH\CharlotFirth (70))* - Microsoft SQL Server Management Studio
delete from student
where number like '10%'
(1 行受影响)
完成时间: 2021-03-31T21:48:01.9878919+08:00
查询已成功执行。


SQLQuery6.sql - CHARLOTFIRTH.db (CHARLOTFIRTH\CharlotFirth (53)) - Microsoft SQL Server Management Studio
/****** SSMS 的 SelectTopNRows 命令的脚本 ******/
SELECT TOP (1000) [number]
,[name]
,[age]
,[sex]
,[class]
,[score]
,[time]
,[phonenumber]
FROM [db].[dbo].[student]
查询已成功执行。

TASK 2

数据导入：

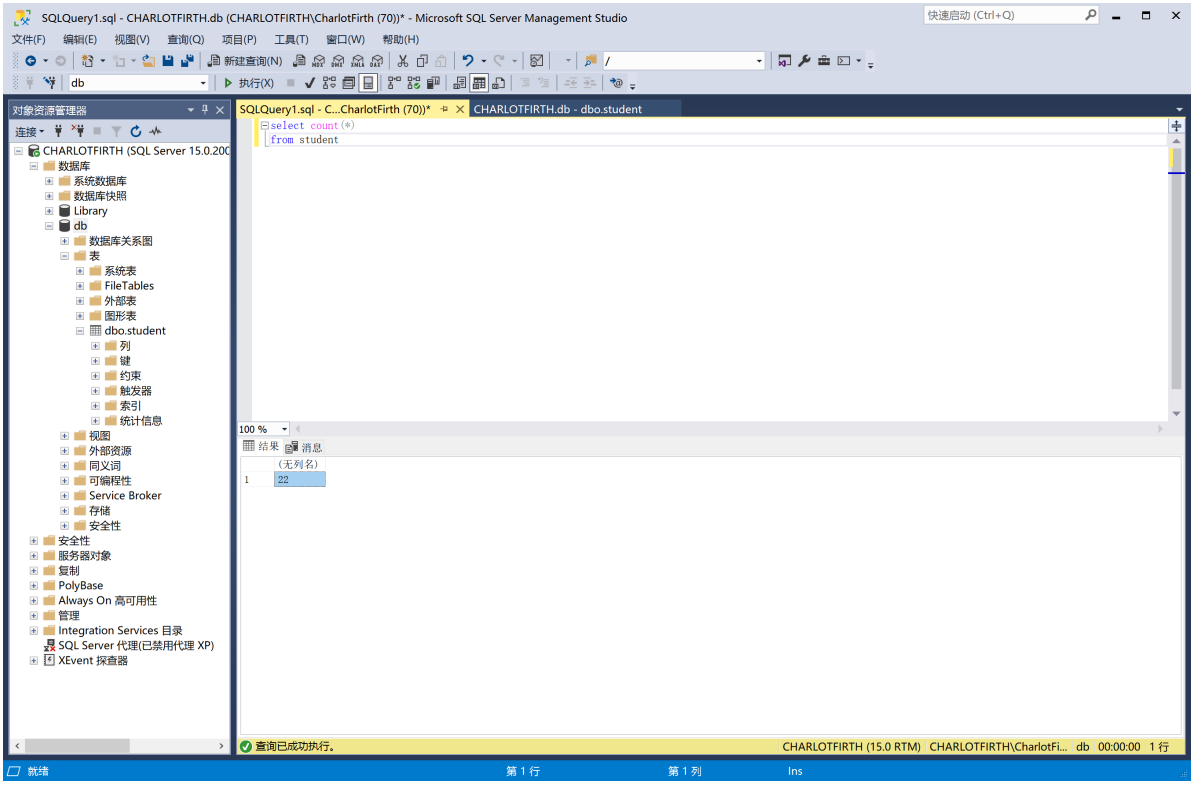


Q9

执行SQL语句

```
select count(*)
from student
```

执行结果：

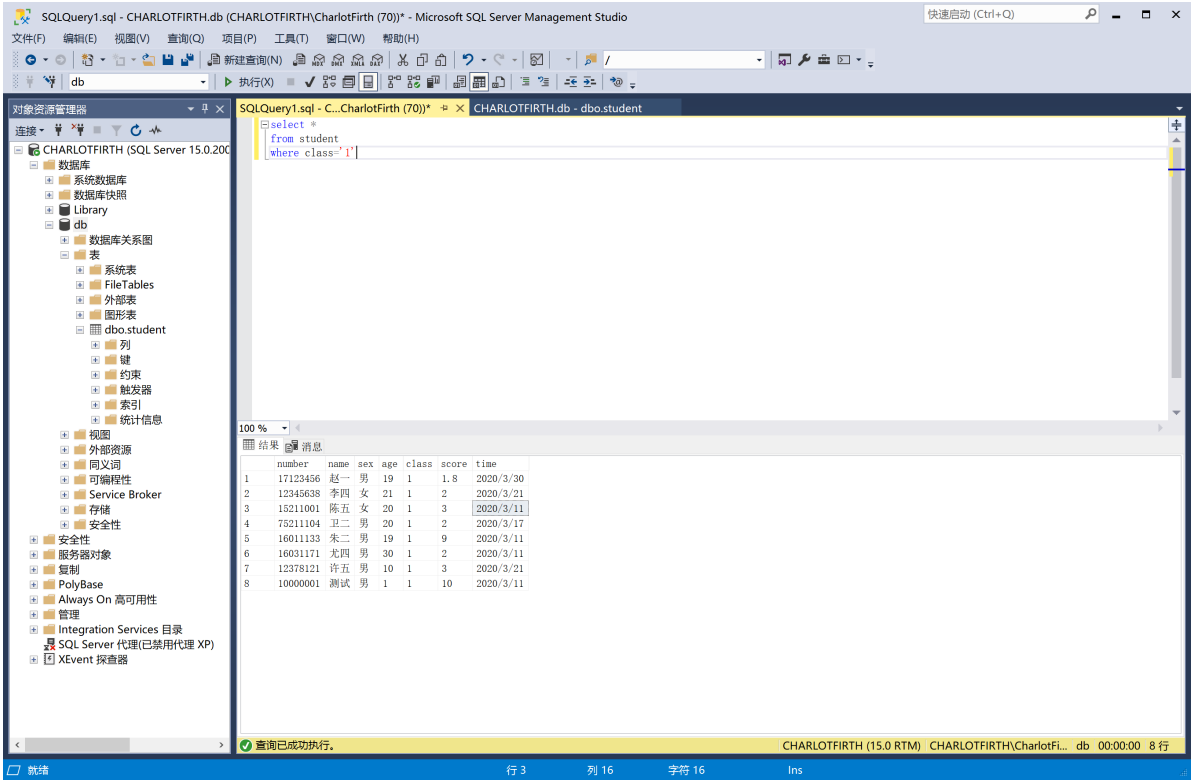


Q10

执行SQL语句

```
select *
from student
where class='1'
```

执行结果：



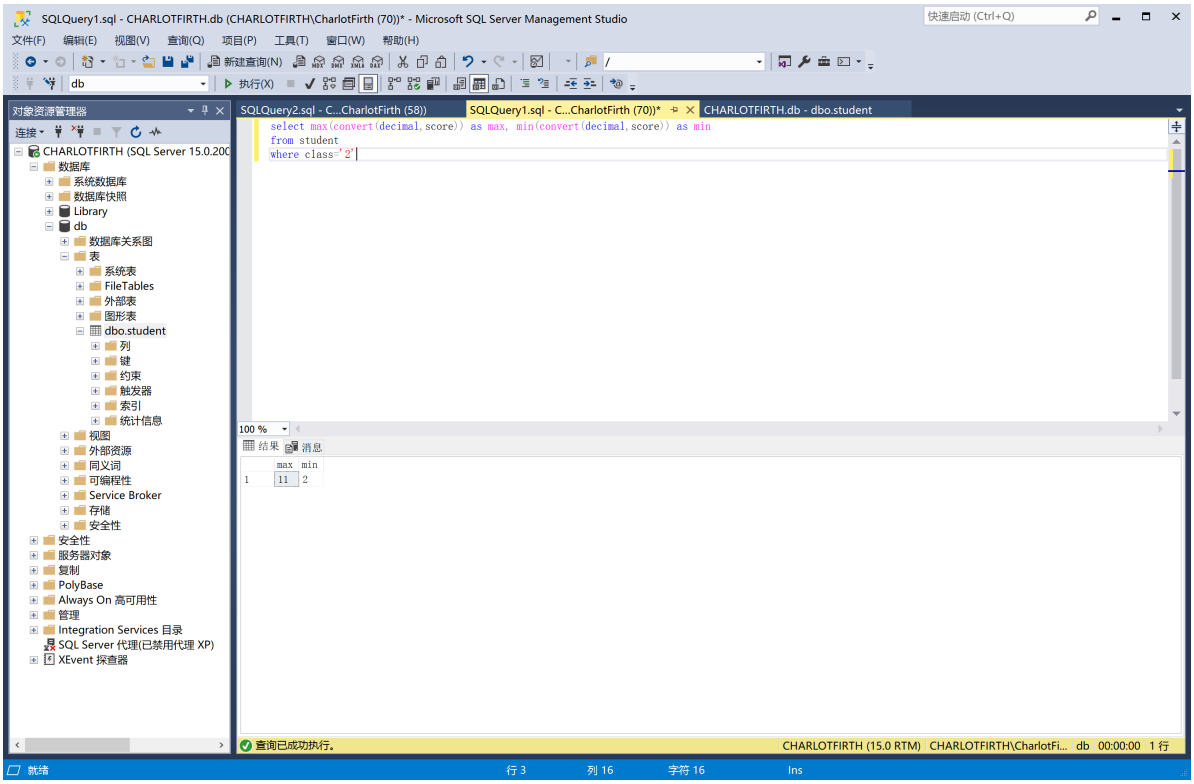
Q11

执行SQL语句

因为没有改数据类型所以得把字符串先转成数字

```
select max(convert(decimal,score)) as max, min(convert(decimal,score)) as min
from student
where class='2'
```

执行结果：



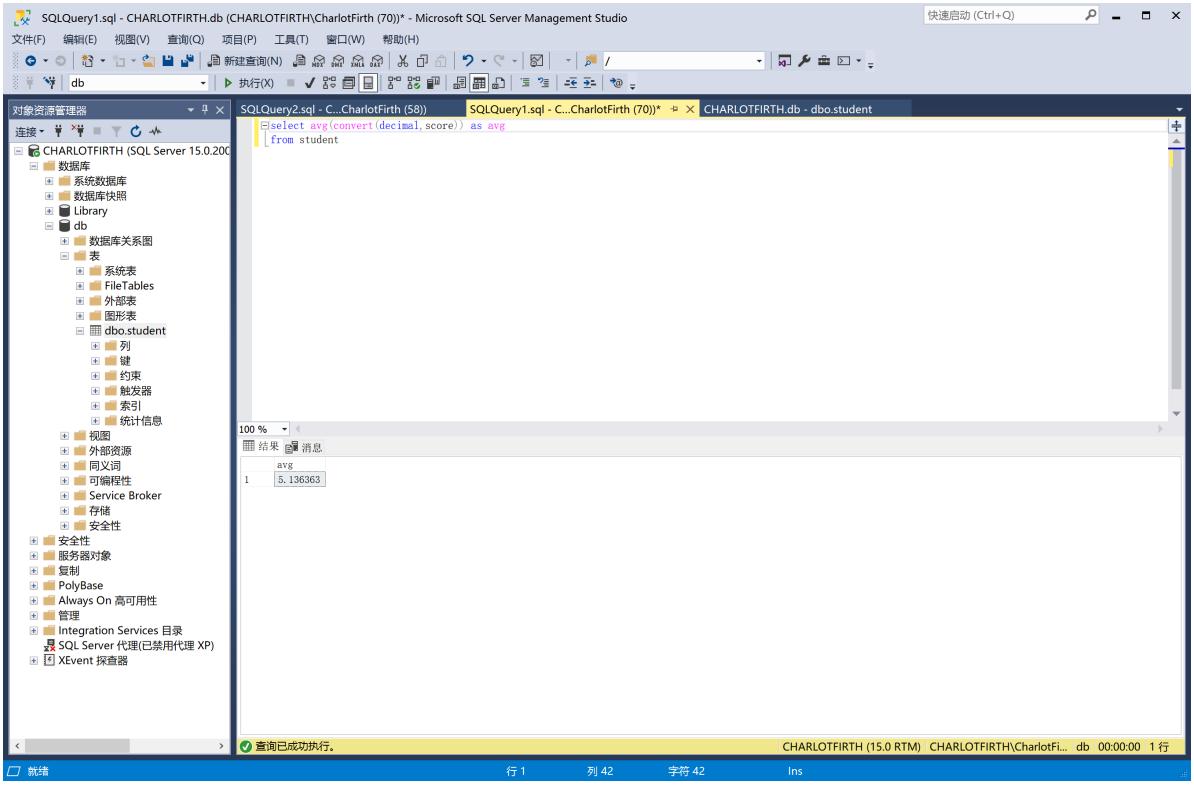
Q12

执行SQL语句

因为没有改数据类型所以得把字符串先转成数字

```
select avg(convert(decimal,score)) as avg
from student
```

执行结果：

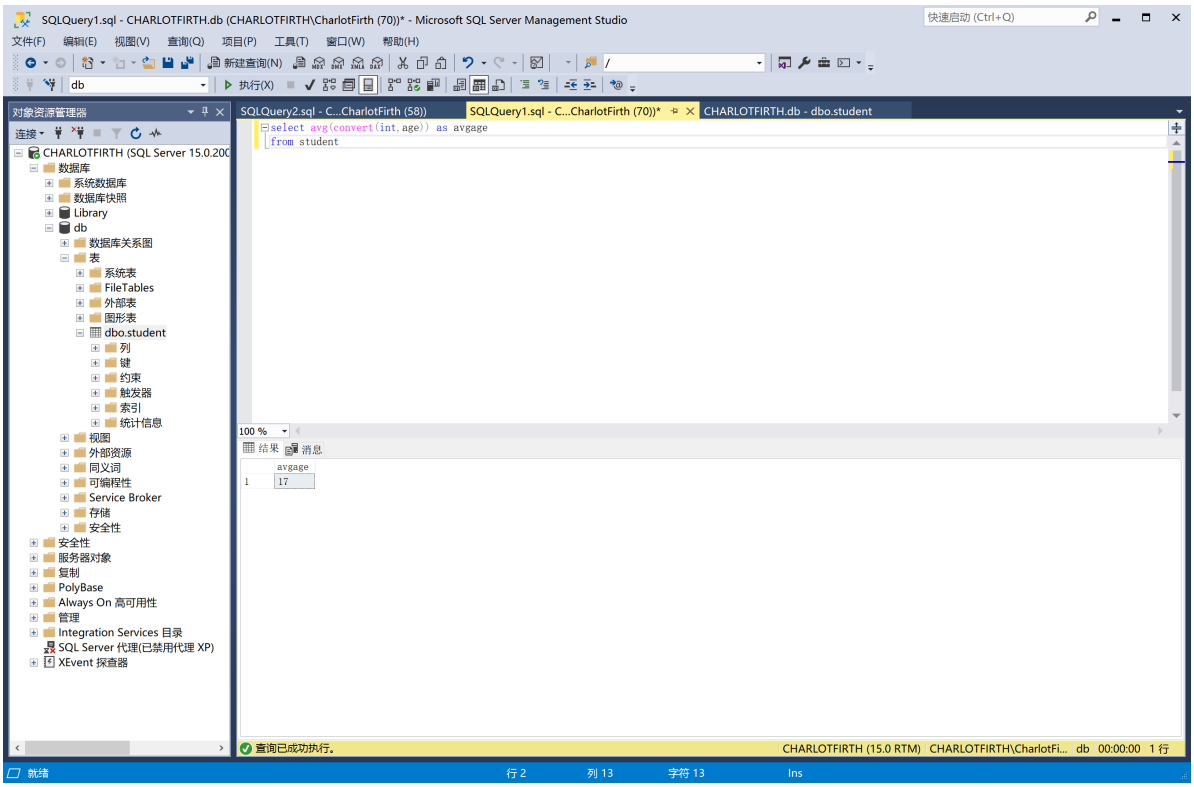


Q13

执行SQL语句

```
select avg(convert(int,age)) as avgage
from student
```

执行结果：



Q14

执行SQL语句

因为没有改过数据类型，所以先是字符串转日期再日期转字符串

```
select convert( char(10),convert(date,time,111),126) as
year_month_day,convert(char(10),convert(date,time,111),112) as yearmonthday
from student
```

执行结果：