19335262 张航悦 实验 3

练习1

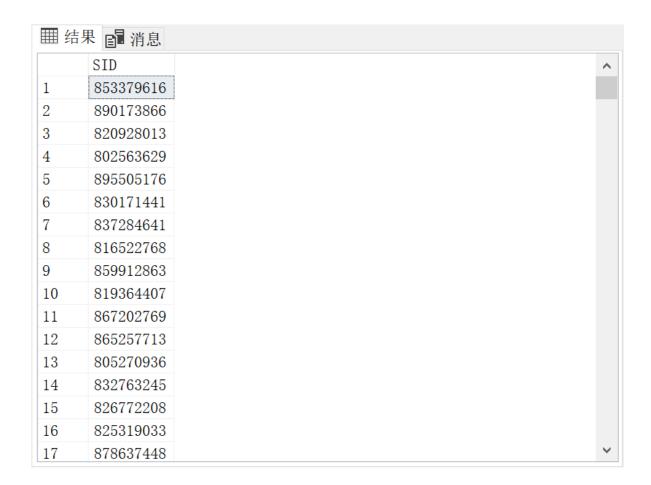
查询全部课程的详细记录

练习2

查询所有有选修课的学生的编号

```
1 | SELECT DISTINCT SID
```

2 FROM CHOICES



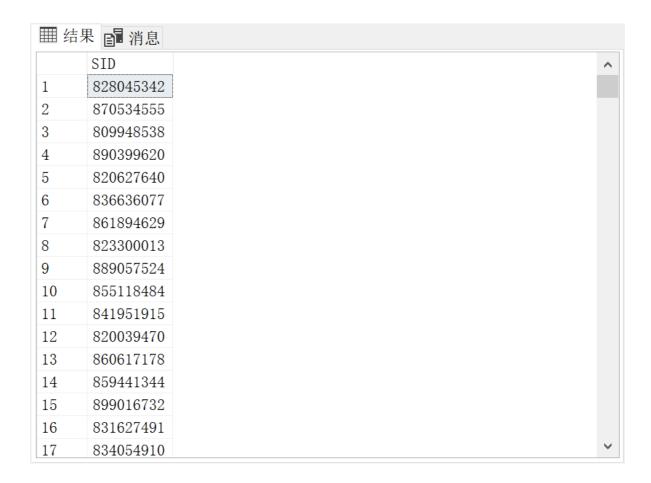
查询课时<88(小时)的课程的编号

- 1 | SELECT CID
- 2 FROM COURSES
- 3 WHERE hour<'48'

```
≡ 结果 ▮ 消息
      CID
      10007
1
2
      10009
3
      10011
      10012
4
5
      10013
6
      10016
      10018
8
      10019
9
      10020
      10021
10
11
      10022
12
      10023
13
      10024
      10025
14
15
      10026
16
      10027
17
      10030
```

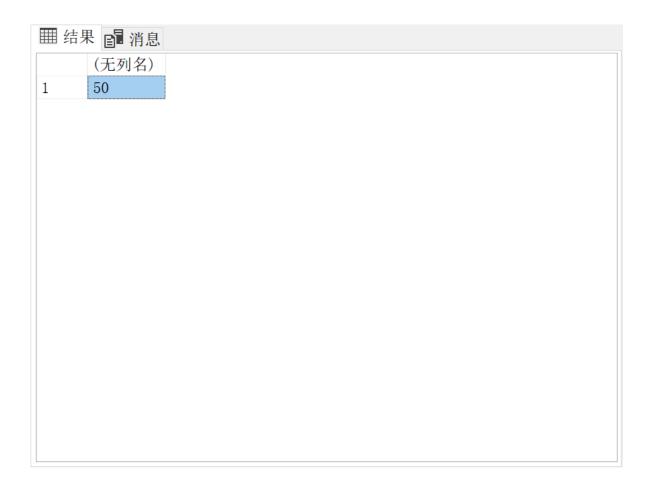
请找出总分超过400分的学生

- 1 | SELECT SID
- 2 FROM CHOICES
- 3 GROUP BY SID
- 4 HAVING SUM(SCORE)>400



查询课程的总数

1 | SELECT COUNT(*) FROM COURSES



查询所有课程和选修该课程的学生总数

- 1 | SELECT CID, COUNT(NO) AS 'COUNT'
- 2 FROM CHOICES
- 3 GROUP BY CID

≡ 结果 ▮ 消息		
	CID	COUNT
1	10008	5985
2	10019	6074
3	10018	5969
4	10040	6102
5	10011	6086
6	10028	6042
7	10035	6104
8	10021	5916
9	10046	6069
10	10032	6073
11	10005	6031
12	10050	6077
13	10034	6000
14	10015	5990
15	10036	6043
16	10045	6041
17	10025	5955

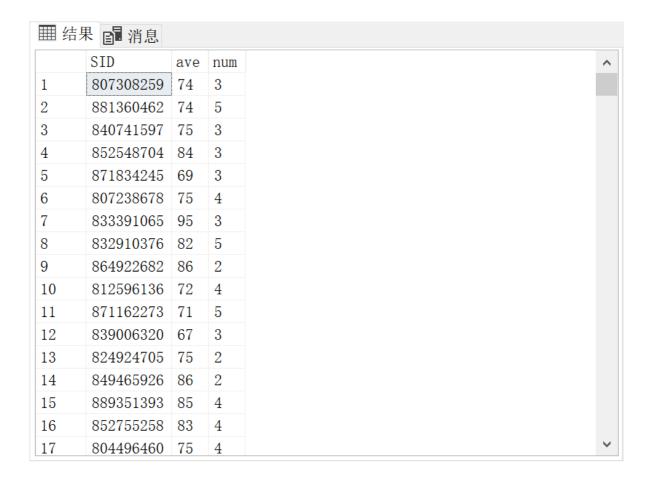
查询选修成绩超过60的课程超过两门的学生编号

```
1 SELECT SID
2 FROM CHOICES
3 WHERE SCORE >60
4 GROUP BY SID
5 HAVING COUNT(*)>2
```

```
≡ 结果 ▮ 消息
      SID
      878053860
1
2
      829449283
3
      801570263
      844390223
4
5
      813341635
6
      883267049
7
      882058744
8
      849129641
9
      848793279
10
     853657420
11
     823490147
12
     895538011
13
     806440879
14
     892772053
15
     895923295
16
     804925898
     893967653
17
```

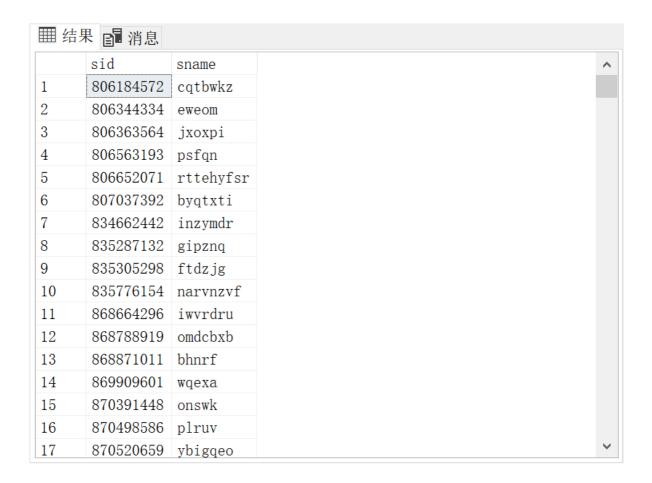
统计各个学生的选修课程数目和平均成绩;

```
1 SELECT SID,AVG(SCORE) AS 'ave',COUNT(*) AS 'num'
2 FROM CHOICES
3 GROUP BY SID
```



查询选修Java的所有学生的编号及姓名

```
SELECT CHOICES.sid,STUDENTS.sname
FROM CHOICES,COURSES,STUDENTS
WHERE CHOICES.cid=COURSES.cid AND COURSES.cname='Java'
AND CHOICES.sid=STUDENTS.sid
```



查询姓名为sssht的学生所选的课程的编号和成绩

```
1 SELECT CHOICES.cid,CHOICES.score
2 FROM CHOICES,STUDENTS
3 WHERE CHOICES.sid=STUDENTS.sid AND STUDENTS.sname='sssht'
```

查询其他课时比课程C++多的课程的名称

```
1 SELECT DISTINCT A.cname
2 FROM COURSES AS A, COURSES AS B
3 WHERE A.hour>B.hour AND B.cname='C++'
4
```

m 结果 cname 1 algorithm 2 compiling principle 3 database 4 operating system 5 tcp/ip protocol