--2(1)

select \*

from student\_course

where mark between 80 and 85

/\*查询80分到85分的学生信息\*/

--2(2)

select count(\*)

from student

where mNo='100165' and sSex='女'

/\*统计专业号为'100165'的女同学的人数\*/

--2(3)

select distinct left(sName,1)

from student

/\*查询所有学生的姓氏(去重复)\*/

select distinct substring(sName,1,1)

from student

--2(4)

select sNo,sName

from student

where sName like '[陈李]%'

/\*查询所有姓陈和李的同学学号和姓名\*/

--2(5)

select ccNo as '开课编号',avg(mark) as '平均数'

from student\_course

where sNo like '09165%'

group by ccNO

/\*查询"09165"专业的开课编号以及课程平均分\*/

--3(1)

select count(\*) as '选课人数',avg(mark) as '平均分'

from student\_course

where sNo like '0916502%'

group by ccNo

having count(\*)>5

--3(2)

select sNo,sName,sSex,sBirth

from student

where sBirth>'1993/12/31'

--3(3)

select sNo,sName

from student

where sName like '\_\_\_'

--3(4)

select sNo,avg(mark) as '平均分',max(mark) as '最高分',min(mark) as '最低分'

from student\_course

group by sNo

order by avg(mark) desc

--3(5)

select top 3 sNo,mark

from student\_course

where ccNo='0901120001'

order by Mark desc

/\*(三)多表数据查询\*/

--1(1)

select sNo,sName,sSex,mName

from student s

left join Major m on s.mNo=m.mNo

--1(2)

select sc.sNo AS '学号',sName AS '姓名',COUNT(\*) AS '没有及格的门数'

from student\_course sc,student s

where mark<60 AND s.sNo=sc.sNo

group by sc.sNo,sName

--1(3)

select left(s.sNo,7),count(\*) as '人数'

from student s,major m

where m.mName='计算机科学与技术' and s.mNo=m.mNo

group by left(s.sNo,7)

--1(4)

select s.sNo,sName,mark

from student s,student\_course sc

where s.sNo=sc.sNo and ccNo='0324091007' and mark>=(

select avg(mark)

from student\_course

where ccNo='0324091007'

)

--1(5)

select count(distinct cNo)

from course\_class cc,student\_course sc

where cc.ccNO=sc.ccNO

--1(6)

select sNo,sName

from student s

where not exists(

(select \*

from course\_class cc

where not exists(

select \*

from student\_course sc

where s.sNo=sc.sNo AND sc.ccNo=cc.ccNo)))

/\*2、功能分析实验内容\*/

--2(1)

select sName,sBirth

from student

where sSex=

(select sSex

from student

where sName='刘卫平')

/\*查询与'刘卫平'同性别同学的姓名和生日\*/

--2(2)

select sNo,sName,sSex

from student

where student.sNo in

(select sNo

from student\_course

where ccNo in('0324091007','0324051013')

)

/\*查询选了'0324091007','0324051013'课程的学生的学号、姓名和性别\*/

--2(3)

select sNo,sName

from student s

where exists

(select \*

from student\_course sc

where sc.sNo=s.sNo and ccNo='0324091007')

and exists

(select \*

from student\_course sc

where sc.sNO=s.sNO and ccNO='0312091006')

/\*查询选了课程'0324091007','0312091006'的同学学号和姓名\*/

--2(4)

select ccNo,mark

from student\_course

where sNO='100212201' and mark>=any

(select mark

from student\_course

where sNo='100212208')

/\*查询学号为'100212201'且成绩大于学号为'100212208'的学生的最高分的课程号及成绩\*/

--2(5)

select sNo,sName,mName

from student as s,major as m

where s.mNO=m.mNO and s.sNO in

(select sNO

from student\_course

where mark<60)

/\*查询成绩不及格同学的学号、姓名和专业\*/

--2(6)

select sName

from student s

where not exists

(select \*

from student\_course sc,course\_class cc,teacher t

where sc.ccNo=cc.ccNo and cc.tNO=t.tNO and

sc.sNO=s.sNO and t.tName='李明')

/\*查询没有选"李明"课程的学生姓名\*/

/\*3、语句填空实验内容\*/

--3(1)

select \_\_\_ s.sno,sname,mname

from student s,major m,student\_course sc

where s.mno=m.mno and s.sno=sc.sno and mark<60

--3(2)

select sc1.sno,sc1.mark,sc2.mark

from student\_course sc1,student\_course sc2

where sc1.ccno='2009010201' and \_\_\_\_ and \_\_\_\_

--3(3)

select s.sno,s.sname

from student s

where sno in(

select sc.sno

from student\_course sc,course\_class cc,course c

where sc.ccno=cc.ccno and cc.cno=c.cno and c.cname in('计算机网络','金融学')

group by sno

having \_\_\_\_\_)

--3(4)

select s.sname,avg(sc1.mark)

from student s,student\_course sc1

where s.sno=sc1.sno and s.sno in(

select sno

from student\_course sc2

where \_\_\_\_

group by sno

having \_\_\_\_)

group by s.sname

--3(5)

select sno,sname

from student s

where sno in(

select sno

from student\_course sc

right join course\_class cc on sc.ccno=cc.ccno

group by sno

having count(\*)=(\_\_\_\_\_)

--3(6)

select cname,tname

from course c,teacher t,course\_class cc

where c.cno=cc.cno and cc.tno=t.tno and ccno=(

select \_\_\_\_ ccno

from student\_course

group by ccno

order by \_\_\_\_ DESC)

/\*四、实验测验\*/

/\*（二）单表查询测验\*/

--1

select sNO

from student\_course

where mark<60

group by sNO

--2

select \*

from student

where sNative='海南'

--3

--4

select AVG(mark) as '平均分',MAX(mark) as '最高分',MIN(mark) as '最低分'

from student\_course

group by ccNo

order by '平均分' desc

--5

select sNo,COUNT(\*)

from student\_course

where AVG(mark)>80

group by ccNO

Having(COUNT(\*)>=2)

/\*（三）多表查询测验\*/

--1

select \*

from student

where sNative=

(select sNative

from student

where sname='张凡')

and

sBirth>

(select sBirth

from student

where sName='张凡')

--2

select \*

from student

where sBirth>(select MAX(sBirth)

from student s inner join major m on s.mNO=m.mNO

inner join department d on d.dNO=m.dNO

WHERE dName='计算机系')

--3

select sName,s.sNO,c.cNO,MARK

from student\_course SC, student s,course c, course\_class cc

where sc.sNO=s.sNO and c.cNO=cc.ccNO and cc.ccNO=SC.ccNO

order by Mark asc

--4

select student.sNo , MARK,sName

from student,course,student\_course

where student.sno=course.cNO and student\_course.Mark<60

(select student\_course.Mark from course,student,student\_course

where student.sName='李晨' and course.cName='高等数学'

and student.sNO=student\_course.sNO

and course.cNO=student\_course.ccno )

--5

select student.sNO,student.sName

from

(

select sNO,count(ccNO) as num

from student\_course

where ccNO IN(

select ccNO from student join student\_course on student.sNO=student\_course.SNO

and sName='090120206')

group by sNO

)t2

join(select count(ccNO) num from student join student\_course

on student.sNO=student\_course.sNO and sName='090120206')

t1 on t2.NUM=t1.NUM

join student on student.sNO=t2.sNO

2019-10-31

--1

select sNO

from student\_course

where mark<60

group by sNO

--2

select \*

from student

where sNative like'[广东,海南]%'

--3

select sName,sSex,sHeight,sWeight,(sWeight/(sHeight\*0.01\*sHeight\*0.01)) as BMI

from student

where (sSex='女' and (sWeight/(sHeight\*0.01\*sHeight\*0.01)) <= 19) or (sSex = '男' and (sweight/(sHeight\*0.01\*sHeight\*0.01)) <= 20)

--4

select AVG(mark) as '平均分',MAX(mark) as '最高分',MIN(mark) as '最低分'

from student\_course

group by ccNo

order by '平均分' desc

--5

select sNo

from student\_course

group by sNo

having (avg(mark) > 80 and count(\*) >= 2)

/\*（三）多表查询测验\*/

--1

select \*

from student

where sNative=

(select sNative

from student

where sName='张凡')

and

sBirth>

(select sBirth

from student

where sName='张凡')

--2

select \*

from student

where sBirth<(select MIN(sbirth)

from student s inner join major m on s.mNo=m.mNo

inner join department d on d.dNO=m.dno

where dName='计算机系')

--3

select s.sno,sname,ccno,Mark

from student s,student\_course sc

where s.sNO=sc.sNO

group by s.sNO,sName,ccNO,Mark

order by Mark asc

--4

select sno,mark

from student\_course sc,course c,course\_class cc

where cc.ccNO = sc.ccNO and c.cNO = cc.cNO and c.cname = '高等数学' and sc.mark > (

select mark

from student s, student\_course sc,course c,course\_class cc

where s.sname='刘晨' and s.sno = sc.sno and sc.ccno = cc.ccno and c.cname = '高等数学'and c.cNO = cc.cNO )

select sno,mark

from student\_course sc,course c,course\_class cc

where cc.ccNO=sc.ccNO and c.cno=cc.cno and c.cName='高等数学' and sc.Mark>(

select Mark

from student s,student\_course sc,course c,course\_class cc

where s.sName='刘晨' and s.sNO=sc.sNO and sc.ccNO=cc.ccNO and c.cName='高等数学' and c.cNO=cc.cNO)

--5

select student.sNO,student.sName

from

(

select sNO,count(ccNO) as num

from student\_course

where ccNO IN(

select ccNO from student join student\_course on student.sNO=student\_course.SNO

and sName='090120206')

group by sNO

)t2

join(select count(ccNO) num from student join student\_course

on student.sNO=student\_course.sNO and sName='090120206')

t1 on t2.NUM=t1.NUM

join student on student.sNO=t2.sNO

select distinct s.sno,sname

from student s,student\_course sc

where not exists

(

select \*

from student\_course y

where y.Sno='090120206' and not exists

(

select \*

from student\_course Z

where z.Ccno=y.Ccno and

z.Sno=sc.Sno

)

)

/\*DML\*/

--1

insert into student(sNO,sName,mNO,sSex,sNative,sBirth,sHeight,sWeight)

values('10154050101','李明帝','061201','男','湖州常德','1995-08-12',171,65)

go

insert into student(sNO,sName,mNO,sSex,sNative,sBirth,sHeight,sWeight)

values('101940102','张强生','060606','男','河北邯郸','1994-08-12',166,55)

go

insert into student(sNO,sName,mNO,sSex,sNative,sBirth,sHeight,sWeight)

values('091910101','张大庆','061201','男','湖南长沙','1990-08-12',171,65)

go

INSERT INTO student (sNo,sName ,mNo, sSex,sNative,sBirth,sHeight,sWeight)

VALUES('091940114','蔡大炮','061211','男','广东阳江', '1991-08-26',167,61)

GO

UPDATE student SET sEntime='2018/9/1'