--1)查询全体学生的学号、姓名、籍贯

select sno,sname,nativee

from dingleilei.student;

--2)查询所有课程的名称及学分

select cname,credit

from dingleilei.course;

--3)查询教师的姓名、性别、联系电话

select tname,sex,tel

from dingleilei.teacher;

--4)查询每门课程的课程编号、课程名称及理论学时

select cno,cname,lecture

from dingleilei.course;

--5)查询全体学生的姓名、联系电话，并在前面加上字符串‘联系方式:’

select sname,'联系方式:'+tel

from dingleilei.student;

--6)查询全体教师的人数

select COUNT(tno)

from dingleilei.teacher;

--7)查询全体教师的姓名、家庭住址、邮政编码（使用列别名）

select tname,home,zipcode '邮政编码'

from dingleilei.teacher;

--8)查询全体学生的姓名

select distinct sname

from dingleilei.student;

--9)查询本学期有课的教师编号

select distinct tno

from dingleilei.teacher;

--10)查询所有选课的学生学号

select distinct sno

from dingleilei.student\_course;

--11)查询籍贯为河北保定的学生的学号和姓名

select sno,sname

from dingleilei.student

where nativee='河北保定';

--12)查询课程学分小于 3 分的课程名称

select cname

from dingleilei.course

where credit<3;

--13)查询在 c201 教室上课的教师编号

select tno

from dingleilei .teacher\_course

where classroom='c201';

--14)查询软件学院的办公电话

select dtel

from dingleilei.department

where dname='软件学院';

--15)查询学生成绩在 60-90 分的学生的学号和课程号

select sno,cno

from dingleilei.student\_course

where score between 60 and 90;

--16)查询学分为 3 分的课程信息

select \*

from dingleilei.course

where credit='3';

--17)查询在教学楼 C 座上课的教师的编号

select distinct tno

from dingleilei.teacher\_course

where classroom like 'c%';

--18)查询有先行课的课程编号及课程名

select cno,cname

from dingleilei.course

where cpno is not null;

--19)查询籍贯为山东省的学生基本信息

select \*

from dingleilei.student

where nativee like '%山东%';

--20)查询姓名为 3 个字，前两个字为‘上官’的学生学号和姓名

select sno,sname

from dingleilei.student

where sname like '上官\_\_';

--有点问题:为什么三个字和四个字的都输出来了

--21)查询专业号为 3 的女学生的姓名、生日和家庭住址

select sname,birthday,home

from dingleilei.student

where sex='女' and pno='3';

--22)查询学号为‘20101001’的学生选修的课程号及成绩，结果按成绩升序排

--列

select cno,score

from dingleilei.student\_course

where sno='20101001'

order by score;

--23)查询所有课程的基本信息，结果按授课学时降序排列，学时相同按学分升

--序排列

select \*

from dingleilei.course

order by lecture desc,credit;

--24)查询所有男教师的姓名和出生日期，结果年龄从小到大排序

select tname,birthday

from dingleilei.teacher

where sex='男'

order by birthday desc;

--25)查询选修 2 号课程学生成绩的最大值和最小值

select MAX(score),MIN(score)

from dingleilei.student\_course

where cno='2';

--26)查询所有教师的人数

select COUNT(tno)

from dingleilei.teacher;

--27)查询所有专业号为 1 的学生人数

select COUNT(sno)

from dingleilei.student

where pno='1';

--28)查询选课人数超过 5 人的课程编号

select cno,COUNT(sno)

from dingleilei.student\_course

group by cno

having COUNT(sno)>5;

--29)查询所有学生的基本信息以及所在学院的名称和学院联系电话

select dingleilei.student.\*,dname,dtel

from dingleilei.student,dingleilei.department

where dingleilei.student.dno=dingleilei.department.dno;

--30)查询教师李亮的上课时间、上课地点和每周学时数

select classtime,classroom,weektime

from dingleilei.teacher\_course

where tno in (

select tno

from dingleilei.teacher

where tname='李亮');

--31)查询选修了数据库系统概论或数据结构的学生的学号和姓名

select sno,sname

from dingleilei.student

where sno in (

select sno

from dingleilei.student\_course

where cno in (

select cno

from dingleilei.course

where cname in ('数据库系统概论','数据结构')

)

);

--32)查询至多有两名男生的班级

select distinct classno

from dingleilei.student s1

where exists(

select classno,COUNT(\*)

from dingleilei.student s2

where s1.classno=s2.classno and sex='男'

group by classno

having COUNT(\*)<2

);

select distinct classno

from dingleilei.student s1

where not exists(

select classno,COUNT(\*)

from dingleilei.student s2

where s1.classno=s2.classno and sex='男'

group by classno

having COUNT(\*)>=2

);

--33）查询至少有一名教授的学院的信息

select \*

from dingleilei.department d1

where exists(

select \*

from dingleilei.teacher t1

where t1.dno=d1.dno and pno='教授'

);

--34).查询出每个老师及其教课情况

select dingleilei.teacher.tno,tname,dingleilei.teacher\_course.\*

from dingleilei.teacher left outer join dingleilei.teacher\_course

on dingleilei.teacher.tno=dingleilei.teacher\_course.tno

--35).查询每门课程及其被选修的人数

select dingleilei.course.cname,count(dingleilei.student\_course.cno) '选修人数'

from dingleilei.course left outer join dingleilei.student\_course

on dingleilei.course.cno=dingleilei.student\_course.cno

group by course.cname

--36).查询籍贯是河北省的教师所教的课程信息

select distinct dingleilei.course.\*

from dingleilei.course,dingleilei.teacher\_course,dingleilei.teacher

where course.cno=teacher\_course.cno and teacher.tno=teacher\_course.tno and teacher.home like '河北省%'

--37).查询软件学院学生情况

select \*

from dingleilei.student

where dno in (

select dno

from dingleilei.department

where dname='软件学院'

);

select \*

from dingleilei.student,dingleilei.department

where student.dno=department.dno and dname='软件学院'

--38).查询班级人数最多的班的学生情况

select \*

from dingleilei.student s1, (select top 1 classno,COUNT(\*) result

from dingleilei.student s2

group by classno

order by result desc) s3

where s1.classno=s3.classno

--39).查询张姓学生选修的课程号、课程名

select cno,cname

from dingleilei.course

where cno in (select distinct cno

from dingleilei.student\_course,dingleilei.student

where sname like '张%' and student\_course.sno=student.sno

)

--40).查询男学生选修课程的平均分

select AVG(score)

from dingleilei.student\_course

where sno in (select sno

from dingleilei.student

where sex='男')

select AVG(score)

from dingleilei.student\_course,dingleilei.student

where student\_course.sno=student.sno and sex='男'

--41).查询哪些学生选修了授课学时为 54 的课程

select distinct student.sno,sname

from dingleilei.student,dingleilei.course,dingleilei.student\_course

where student.sno=student\_course.sno and student\_course.cno=course.cno

and lecture='54'

--42).查询比软件学院学生年龄都小的其他系学生的信息。

select \*

from dingleilei.student

where birthday>all (select birthday

from dingleilei.student

where dno =(select dno

from dingleilei.department

where dname='软件学院'))

and dno <> (select dno

from dingleilei.department

where dname='软件学院')

--43).查询比数信学院学院学生年龄大的教育学院学生信息。

select \*

from dingleilei.student

where birthday<any (select birthday

from dingleilei.student

where dno =(select dno

from dingleilei.department

where dname='数信学院'))

and dno = (select dno

from dingleilei.department

where dname='教育学院')

--44).查询班级号为 1 的班的学生 c 语言程序设计成绩的平均成绩

select AVG(score)

from dingleilei.student\_course

where cno =(select cno

from dingleilei.course

where cname='c 语言程序设计')

and sno in (select sno

from dingleilei.student

where classno='1')

--45).查询计算机导论平均成绩最高的班级。

select distinct top 1 classno ,AVG(score) result

from dingleilei.student\_course s1,dingleilei.student s2

where s1.sno=s2.sno and

cno=(select cno

from dingleilei.course

where cname='计算机导论')

group by classno

order by result desc

--45

selectclassno,AVG(score)

fromstudent,course,student\_course

wherestudent.sno=student\_course.snoand

course.cno=student\_course.cnoand

cname='计算机导论'

groupbyclassno

havingAVG(score)>=all(

selectAVG(score)

fromstudent,student\_course,course

wherestudent.sno=student\_course.snoand

course.cno=student\_course.cnoand

cname='计算机导论'

groupbyclassno

havingAVG(score)isnotnull

);

--46).查询选修人数最多的课程是哪个老师教的，显示教师号，教师姓名

select tno,tname

from dingleilei.teacher

where tno in(select tno

from dingleilei.teacher\_course t1,( select distinct top 1 cno,COUNT(\*) result

from dingleilei.student\_course

group by cno

order by result desc

) s1

where t1.cno=s1.cno

)

--47).查询余孝天老师所教各门课程的平均成绩

select s1.cno,AVG(score) result

from dingleilei.student\_course s1,dingleilei.teacher\_course t1

where s1.cno=t1.cno and tno=(select tno

from dingleilei.teacher

where tname='余孝天')

group by s1.cno

--48).查询鲁婵娟老师所教课程的各个班级平均成绩

select classno,AVG(score) result

from dingleilei.student s1,dingleilei.student\_course s2

where s1.sno=s2.sno and s2.cno in(select cno

from dingleilei.teacher\_course t1

where t1.tno =(select tno

from dingleilei.teacher

where tname='鲁婵娟'))

and s1.classno in (select distinct classno

from dingleilei.teacher t1,dingleilei.teacher\_course t2

where t1.tno=t2.tno and t1.tname='鲁婵娟')

group by classno

--49).查询鲁婵娟老师所教课程的学生的成绩

select s1.sno,cno,score

from dingleilei.student s1,dingleilei.student\_course s2

where s1.sno=s2.sno and s2.cno in(select cno

from dingleilei.teacher\_course t1

where t1.tno =(select tno

from dingleilei.teacher

where tname='鲁婵娟'))

and s1.sno in (select sno

from dingleilei.student

where classno in (select classno

from dingleilei.teacher\_course t1,dingleilei.teacher t2

where t1.tno=t2.tno and tname='鲁婵娟'))

--50).查询有多少人选修了《数据结构》课程的先修课。

select COUNT(\*)

from dingleilei.student\_course

where cno =(select cpno

from dingleilei.course

where cname ='数据结构')

--51).查询软件学院教师所教课程信息

select \*

from dingleilei.course

where cno in (select distinct cno

from dingleilei.teacher t1,dingleilei.teacher\_course t2

where t1.tno=t2.tno and dno =(select dno

from dingleilei.department

where dname='软件学院'))

--52).查询软件学院教师所教课程的成绩，将结果按课程号降序排列。

select \*

from dingleilei.student\_course

where cno in (select distinct cno

from dingleilei.teacher t1,dingleilei.teacher\_course t2

where t1.tno=t2.tno and dno =(select dno

from dingleilei.department

where dname='软件学院'))

order by cno desc

--53).查询未授课教师的姓名和系

select tname,dname

from dingleilei.teacher t1,dingleilei.department d1

where t1.dno=d1.dno and not exists (select \*

from dingleilei.teacher\_course

where t1.tno=teacher\_course.tno)

--54).按职称显示软件学院的教师人数。

select pno,COUNT(\*)

from dingleilei.teacher t1

where dno = (select dno

from dingleilei.department

where department.dname='软件学院'

)

group by pno

--55).查询成绩高于《数据结构》平均成绩的学生信息。

select \*

from dingleilei.student s1

where sno in (select distinct sno

from dingleilei.student\_course

where score > (select AVG(score)

from dingleilei.student\_course

where cno =(select cno

from dingleilei.course

where cname='数据结构'))

)

--56).查询学生选修课程的情况，显示学号、姓名、教师姓名、课程名称、成绩。

select s1.sno,sname,tname,cname,score

from dingleilei.student s1,dingleilei.course c1,dingleilei.student\_course s2,dingleilei.teacher t1

where s1.sno=s2.sno and c1.cno=s2.cno and