#查询显示成绩表中的最高分,平均分。

select max(score), avg(score) from score;

#查询学生的学号, 姓名 和 出生日期, 按院系编号降序。

select id,name,birthday from stu order by departmentld desc;

#查询所有学生的学号,姓名和院系名。

select stu.id,stu.name,department.name from stu join department on stu.departmentId = department.id;

#查询参加了高等数学课程的考试的学生姓名和考试成绩。

select stu.name, score.score from stu join score on stu.id = score.stuld join lesson on score.LessonId = lesson.lessonid where lesson.lessonName = '数学';

#查询每个学院的学生人数。

select departmentId, department.name, count(*) from stu join department on stu.departmentId = department.id group by departmentId;

#查询平均分最高的5名学生的学号,姓名和平均分。

select stu.id, stu.name, avg(score) avgscore from stu join score on stu.id = score.stuld group by stu.id order by avg(score) desc limit 5;

select stu.id, stu.name, avg(score) avgscore, row_number() over w from stu join score on stu.id = score.stuld group by stu.id window w as (order by avg(score) desc) limit 5;

select stu.id, stu.name, avgscore, rk from stu join

(select stuid, avg(score) avgscore, rank() over w rk from score group by stuld window w as (order by avg(score) desc)) T on stu.id = T.stuid where rk <=5 order by rk;

#查询总学分高于 10 分的所有学生

select stu.*, sum(xf) zxf from stu join score on stu.id = score.stuld join lesson on lesson.lessonid = score.lessonid group by stu.id having zxf>=10;

#查询数学学院的学生的学号,姓名,所选课程的成绩和等级,并按成绩从高到低排序。 select stu.id, stu.name, score.score, grade.grade from stu join department on

stu.departmentId = department.id join score on stu.id = score.stuId join lesson on

score.LessonId = lesson.lessonid

join grade on score.score >= grade.lowScore and score.score <= grade.highScore where department.name = '数学学院' order by score desc, id;

select stu.id, stu.name, score, case when score>=90 then 'A' when score>=80 then 'B' when score >=70 then 'C' when score >=60 then 'D' else 'E' end grade

from stu join department on stu.departmentId = department.id join score on stu.id = score.stuId join lesson on score.LessonId = lesson.lessonid where department.name = '数学学院' order by score desc,id;

#查询数学学院的学生的学号,姓名,获得的学分并按学分从高到低排序。
select stu.id, stu.name, sum(lesson.xf) as totalXf
 from stu join department on stu.departmentId = department.id
 join score on stu.id = score.stuId
 join lesson on score.LessonId = lesson.lessonid
where department.name = '数学学院'
group by stu.id
order by totalXf desc;

#查询英语成绩最高的学生的学号,姓名,所有功课的成绩和所在学院。 select stu.id, stu.name, score, department.name from stu join department on stu.departmentId = department.id join score on stu.id = score.stuld

where stuid = (select stuid from score join lesson on score.lessonid = lesson.lessonid where lesson.lessonName = '英语' order by score desc limit 1)