复杂SQL(答案)

where course.cid = r.id;

笔记本: 数据库系统助教 创建时间: 2018/12/27 14:17 更新时间: 2018/12/28 9:50 作者: simba wei SQL例题: 查询课程名称为「数学」, 且分数低于 60 的学生姓名和分数: select student.sname, sc.score from student, sc, course where student.sid = sc.sid and course.cid = sc.cid and course.cname = "数学" and sc.score < 60; 查询本月份过生日的同学名单: select * from student where extract(month from Student.Sage)=extract(month from now()); 查询下个月过生日的学生名单: select * from student where extract(month from student.Sage)=extract(month from (now()::timestamp+'1 month')); 查询有数学成绩的学生信息: select * from student where exists (select sc.sid from sc,course where student.sid = sc.sid and sc.cid = course.cid and course.cname='数 学'); 成绩不重复,查询选修「张三」老师所授课程的学生中,成绩最高的学生信息及其成绩: select student.*, sc.score, sc.cid from student, teacher, course, sc where teacher.tid = course.tid and sc.sid = student.sid and sc.cid = course.cid and teacher.tname = '张三' order by score desc limit 1; 查询没有学全部课程(语数外)的学生的信息: select * from student where student.sid not in (select sc.sid from sc group by sc.sid having count(sc.cid) = (select count(cid) from course)); 统计各科成绩各分数段人数:课程名称,课程编号,[100-85],[85-70],[70-60],[60-0]及所占百分 select course.cname, r.* from course,(select sc.cid as id, sum(case when sc.score <= 100 and sc.score > 85 then 1 else 0 end) as "[100-85]", sum(case when sc.score <= 85 and sc.score > 70 then 1 else 0 end) as "[85-70]", sum(case when sc.score <= 70 and sc.score > 60 then 1 else 0 end) as "[70-60]", sum(case when sc.score <= 60 and sc.score > 0 then 1 else 0 end) as "[60-0]" from sc left join course on sc.cid = course.cid group by sc.cid) r

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查询平均成绩大于等于80(且单科大于70)的同学的学生编号和学生姓名和平均成绩
select student.SId, sname, ss from student, (
select SId, AVG(score) as ss from sc
GROUP BY SId
HAVING AVG(score) > 80 and min(score) > 70)r
where student.sid = r.sid;
查询两门及其以上不及格课程的同学的学号, 姓名及其平均成绩
select student.sname, r.*
from student, (
select sid as id,avg(score)
from sc
where sc.score < 60
group by sc.sid
having count(1)>1) r
where r.id = student.sid;
查询每门课程的平均成绩,结果按平均成绩降序排列,平均成绩相同时,按课程编号升序排列:
select sc.cid, course.cname, AVG(SC.SCORE) as average
from sc, course
where sc.cid = course.cid
group by sc.cid
order by average desc, cid asc;
查询有一门成绩大于90(且没有挂科: >= 60) 的同学的学生编号和学生姓名和平均成绩
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查询有一门成绩大于90(且没有挂科: >= 60) 的同学的学生编号和学生姓名和平均成绩 select distinct student.sname from student, sc, (select sc.sid as id from sc group by sc.sid having avg(sc.score)>=60) r1 where student.sid = r1.id and r1.id in (select distinct sc.sid from sc where score >=90);

查询各科成绩前三名的记录:
select * from sc
where (
select count(*) from sc as a
where sc.cid = a.cid and sc.score<a.score)< 3
order by cid asc, sc.score desc;