MySQL

-- 查询王燕的信息 select * from xs where xs_name ='王燕'; -- 查询并给重命名 select xs_id as '学号',xs_name as '姓名',xs_zy as '专业',xs_rq as '出生日期' ,xs_xf as '学分',xs_bz as '备注' from xs as '学生' where xs_name ='王燕'; -- 模糊查询法 ' '代表一个字符, '%'代表多个字符 select * from xs where xs_name like '王_'; select * from xs where xs_name like '李%'; -- 查询在某一个范围内between A and B: 查询A到B之间的数据 select * from xs where xs_rq between '1990-01-01' and '1990-12-31'; -- 等价于 select * from xs where $xs_rq > '1990-01-01'$ and $xs_rq < '1990-12-31'$; -- 指定具体几个范围数值 select * from xs where xs_rq in('1990-02-10','1990-11-20'); -- 不在指定范围内的 select * from xs where xs_rq not in('1990-02-10','1990-11-20'); -- 空值判断 is NULL select * from xs where xs_bz is null; -- 非空判定 select * from xs where xs_bz is not null; -- 去重复 distinct select distinct * from xs where xs_id < 81108; -- 对查询结果进行排序 asc:正序 desc:倒序 select * from xs order by xs_rq asc; select * from xs order by xs_rq desc; -- 复合排序 先按专业排序, 当专业相同时, 按日期排序 select * from xs order by xs zy,xs rq; -- 查询前几条记录 limit -- 查询学号小于81110的前5个学生信息 select * from xs where xs_id <81110 limit 5; -- 查询学号小于81110的学生信息,列出从下标为2开始的三个学生信息 select * from xs where xs_id <81110 limit 2,3; -- 分组查询 group by 将查询结果分为男女两个组 select * from xs where xs_id < 81110 group by xs_xb;

-- 查询所有学生中男生和女生年龄最大的两个学生的信息

-- 先将学生分组,获得男生、女生最大的日期 select min(xs_rq) from xs group by xs_xb;

-- 将上一步的查询结果作为条件,合并 select * from xs where xs rq in (select min(xs_rq) from xs group by xs_xb); -- having 语句的用法 ---where语句里面不能有统计函数,而且where条件不能对group by 进行分组 select * from xs having xs_xf>50; -- having 一般与group by 结合使用 -- 查询所有学生的平均成绩 select xs_id as '学号',avg(kc_cj)as '平均成绩' from xs_kc group by xs_id; -- 查询平均成绩大于80的学生信息 -- 1、查询平均成绩大于80的学生id select xs_id from xs_kc group by xs_id having avg(kc_cj)>80; -- 2、利用查询到的id查询学生的基本信息 select * from xs where xs_id in(select xs_id from xs_kc group by xs_id having avg(kc_cj)>80); -- 多表查询 -- 查询所有学生的课程及成绩 select xs.xs_name,kc_name,xs_kc.kc_cj from xs,xs_kc,kc where xs_kc.kc_id = kc.kc_id and xs_kc.xs_id = xs.xs_id; -- 多表连接 -- 查询选修了206课程且成绩在80分以上的学生姓名及成绩 select xs.xs_name,xs_kc.kc_cj from xs,xs_kc where xs.xs_id = xs_kc.xs_id and xs_kc.kc_cj>80 and xs_kc.kc_id=206 -- join on select xs.xs_name,xs_kc.kc_ej from xs join xs_kc on xs.xs_id = xs_kc.xs_id where xs_kc.kc_ej>80 and xs_kc.kc_id=206 -- 查询选修了"计算机基础"课程并且成绩在80分以上的学生学号、姓名、课程名及成绩 select xs.xs id as '学号',xs.xs name as '姓名' ,kc.kc name as '课程名',xs_kc.kc_cj as '成绩 from xs join xs_kc on xs.xs_id=xs_kc.xs_id join kc on kc.kc id=xs kc.kc id where kc.kc_name='计算机基础' and xs_kc.kc_cj>80; -- 查询数据库中课程不同、成绩相同的学生的学号、课程号及成绩 select a.xs_id as '学号',a.kc_id as '课程号',a.kc_cj as '成绩 from xs_kc as a join xs_kc as b on a.kc_cj=b.kc_cj and a.xs id = b.xs id and a.kc_id!=b.kc_id; -- LEFT OUTER JOIN: 左外连接。。。在结果表里除了匹配行外,还包括左表有的但右表中不匹配的行,对于这样的行,从右表被选择 -- 查询所有学生情况及他们选修的课程号, 若学生未选修任何课, 也要包括其情况 select xs.*,kc_id from xs left outer join xs_kc on xs.xs_id=xs_kc.xs_id; -- 交叉连接: CROSS JOIN 范例: 列出所有学生所有可能的选课情况

的列设置为NULL

select xs.xs_id as '学号',xs_name as '姓名',kc.kc_id as '课程号',kc.kc_name as '课程名' from xs cross join kc;

-- 去重复 distinct 范例: 查找所有学生选过的课程名和课程号 select distinct xs_kc.kc_id as '课程号',kc.kc_name as '课程名' from xs_kc,kc where kc.kc_id=xs_kc.kc_id;

-- 替换查询结果中的数据

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select xs.xs_id as '学号',xs.xs_name as '姓名',xs.xs_xf as '学分',
  case
  when xs.xs_xf is null then '未选课'
  when xs.xs_xf < 50 then '不及格'
  when xs.xs_xf \ge 50 and xs.xs_xf \le 52 then '合格'
  else '优秀'
  end
  as '等级'
from xs where xs.xs_zy='计算机';
-- 运算
-- 将学生成绩的百分制换算为150分制
select xs_kc.xs_id,xs_kc.kc_cj*1.5 from xs_kc where xs_kc.xs_id = '81101'
-- 查询学生表中比所有计算机系学生都大的学生学号,姓名,专业名,出生日期
select \ xs.xs\_id,xs.xs\_name,xs.xs\_zy,xs.xs\_rq \ from \ xs \ where \ xs.xs\_rq \ from \ xs \ xs.xs\_rq \ from \ xs \ where \ xs.xs\_rq \ from \ xs \ xs.xs\_rq \ from \ xs.xs\_rq \ from \ xs \ xs.xs\_rq \ from \ xs \ xs.xs\_rq \ from \ xs.xs\_rq \ from \ xs \ xs.xs\_rq \ from \ xs.xs\_rq 
-- 查询与81101性别相同,总学分相同的学生学号和姓名
select\ xs.xs\_id,xs.xs\_name\ from\ xs\ where\ (xs.xs\_xb,xs.xs\_xf) = (select\ xs.xs\_xb,xs.xs\_xf\ from\ xs\ where\ xs.xs\_id='81103')
-- 查询学号为81101,81103两位同学的信息
select * from xs where xs.xs_id='81103'
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select * from xs where xs.xs_id='81104'