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大题范围: 第五, 六, 七, 十三章
创建表及表的约束条件及表之间的参照关系,主键,外键
    create table Dept
     (Dept ID char(3) primary key,
     Dept_name varchar2(30) unique,
      Director char(8));
    create table Class
     (Class ID char(5) primary key,
     Class name varchar2(30) unique,
      Dept_ID char(3) constraint fk_did foreign key references Dept);
    create table Teacher
     (Teacher ID char(8) primary key,
      Tname varchar2(8),
      Tsex char(2),
      Tbirth date,
      Educ char(10),
      Profess char(10),
      Dept_ID char (3) constraint fk_did foreign key references Dept);
    create table TC
     (Teacher_ID char(8),
      Course_ID char(4),
      Semester NUMBER,
     Dept_ID char(3),
      constraint fk tid foreign key(Teacher ID) references Teacher(Teacher ID),
     constraint fk_cid foreign key(Course_ID) references Courses (Course_ID),
     constraint fk_tc_did foreign key(Dept_ID) references Dept (Dept_ID));
书写SQL查询语句
查询"Teacher"表中全体教师的记录。
select * from teacher;
查询全体教师的教师编号, 姓名和职称信息
select teacher_id,tname,profess from teacher;
(WHERE语句) 查询"SC"表中成绩不及格的记录
select from SC where grade<60;
(IRDER
BY{ASC/DESC}语句,默认升序)查询"SC"表中选修课程为"0001"并且成绩大于70分的学号,要求输出结果成绩降序排列,当成绩相同
时按学号升序排列。
select student id, grade from sc
where course_id='0001'and grade>70
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order by grade desc, student id asc;
(数据统计) 查询选修'0001'课程学生的最高分,最低分和平均分
select max(grade), min(grade), avg(grade) from sc where course_id='0001'
(GROUP BY子句{对列分组,相等就放同一组})查询每一位学生选课成绩超过90分的选课门数以及平均分
select student_id,count(course_id), avg(grade) from sc
where grade>90
group by student_id;
(HAVING子句{对每组数据进行筛选}) 查询每门课程的平均成绩,要求只输出平均成绩在70到80分之间的课程号,选修人数,平均成绩以及
选修该课程的成绩总分
select course id,count(student id),avg(grade),sum(grade) from sc
where grade>70 and grade<90
group by having(student_id);
LOOP....NEXT编写累计求和程序
编写PL/SQL程序,使用LOOP...NEXT...END语句求1~100之间的所有偶数之和。
declare
 v_count number := 1;
 v sum number := 0;
begin
 for v count in 1..100
 loop
   if mod(v_count,2) = 0 then
     v_sum := v_sum + v_count;
   end if;
 end loop;
 dbms_output.put_line(v_sum);
end;
创建口令认证的全局用户
格式:
create user <username> identified by <password>;
-- 默认 user 表空间
default tablespace <tablespace_name> -- 默认表空间
temporary tablespace temp -- 临时表空间
quota unlimited on <tablespace_name> -- 表空间额度
grant create session to <username>; -- 授权(可以登录)
创建一个口令认证的全局用户C##usera_exer, 口令为usera, 默认表空间为USERS, 配额为10MB,
口令设置为过期状态。
SQL>CREATE USER C##usera_exer IDENTIFIED BY usera
DEFAULT TABLESPACE USERS
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QUOTA 10M ON USERS PASSWORD EXPIRE;