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| **《数据库系统原理》实验报告（五）** | | | | | |
| **题目： PL/SQL基础** | | | | | |
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| **实验环境：Redhat5**  **VMware workstation 15 pro**  **Oracle** | | | | | |
| **实验步骤及结果截图：**  1、建立table studentsA  Sno char(9) primary key  Sname char(20) unique  Ssex char(20)  Sage smallint  Sdept char(20)  create table studentsA(  Sno char(9) primary key,  Sname char(20) unique,  Ssex char(20),  Sage smallint,  Sdept char(20)  );    2建立table coursesA  Cno char(4) primary key  Cname char(40)  Cpno char(4)  Ccredit smallint  create table coursesA(  Cno char(4) primary key,  Cname char(40),  Cpno char(4),  Ccredit smallint  );    3建立table SC  Sno char(9)  Cno char(4)  Grade smallint  primary key (Sno,Cno)  foreign key (Sno) references student(Sno)  foreign key (Cno) references course(Cno)  create table SC(  Sno char(9),  Cno char(4),  Grade smallint,  primary key (Sno,Cno),  foreign key(Sno) references studentsA(Sno),  foreign key(Cno) references coursesA(Cno)  );    4插入数据  insert into studentsA values ('200215121','Li Yong','male',20,'CS');  insert into studentsA values ('200215122','Liu Chen','female',19,'CS');  insert into studentsA values ('200215123','Wang Min','female',18,'MA');  insert into studentsA values ('200215125','Zhang Li','male',19,'IS');    insert into coursesA(Cno,Cname,Cpno,Ccredit) values ('0001','database','5',4);  insert into coursesA (Cno,Cname,Ccredit) values ('0002','maths',2);  insert into coursesA (Cno,Cname,Cpno,Ccredit) values ('0003','IS','1',4);  insert into coursesA (Cno,Cname,Cpno,Ccredit) values ('0004','OS','6',3);  insert into coursesA (Cno,Cname,Cpno,Ccredit) values ('0005','data struncture','7',4);  insert into coursesA (Cno,Cname,Ccredit) values ('0006','data process',2);  insert into coursesA (Cno,Cname,Cpno,Ccredit) values ('0007','PASCAL','6',4);    insert into SC values ('200215121','0001',92);  insert into SC values ('200215121','0002',85);  insert into SC values ('200215121','0003',88);  insert into SC values ('200215122','0002',90);  insert into SC values ('200215122','0003',80);    5，作业：创建简单的PL/SQL程序  1）创建一个删除某门课程的过程，并执行一个样例（删除Cno='0001'的课程），并显示删除后的表格coursesA  2）创建一个建立一门课的过程,并执行一个样例('0008','Chinese',’4’,3),并显示插入后的表格coursesA  1) create or replace  procedure delete\_one\_course (cno in char)  as  begin  delete from SC where cno=delete\_one\_course.cno;  delete from coursesA where cno=delete\_one\_course.cno;  end;  /    exec delete\_one\_course('0001');    select \* from coursesA;    2) create or replace  procedure add\_one\_course (cno in char,cname in char,cpno in char,ccredit smallint)  as  begin  insert into coursesA(Cno,Cname,Cpno,Ccredit) values (add\_one\_course.cno, add\_one\_course.cname, add\_one\_course.cpno, add\_one\_course.ccredit);  end;  /    exec add\_one\_course('0008','Chinese','4',3);    select \* from coursesA; | | | | | |
| **出现的问题：**   1. **oracle的存储过程中不允许使用select语句获得返回值** 2. **删除表中元组的时候如果有主外键约束直接删除会报错** | | | | | |
| **解决方案：**   1. **将select语句单独拿出来** 2. **（1）先删除有主外键表的有关元组，再删除被依赖表的有关元组**   **（2）先删除主外键约束，再删除有关元组，最后回复主外键约束** | | | | | |