mmcoe@mmcoe-System-Product-Name:~$ sudo service oracle-xe start

[sudo] password for mmcoe:

mmcoe@mmcoe-System-Product-Name:~$ sqlplus

SQL\*Plus: Release 11.2.0.2.0 Production on Mon Aug 28 14:38:29 2023

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Enter user-name: mmcoe

Enter password:

Connected to:

Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

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**Executing procedure by loop for student table:**

SQL> create table stud\_marks(rollno number(3), name varchar2(20), marks number(5));

Table created.

SQL> insert into stud\_marks values (101, 'Shreeya',1200);

1 row created.

SQL> insert into stud\_marks values (102, 'Rajasi',1350);

1 row created.

SQL> insert into stud\_marks values (103, 'Advait',960);

1 row created.

SQL> insert into stud\_marks values (104, 'Pranav',905);

1 row created.

SQL> insert into stud\_marks values (105, 'Anish',888);

1 row created.

SQL> insert into stud\_marks values (106, 'Aditya',840);

1 row created.

SQL> create table result(rollno number(3),name varchar2(20),class varchar2(30));

Table created.

**SQL> set serveroutput on;**

**SQL> create or replace procedure class as**

**2  begin**

**3  for i in (select \* from stud\_marks)**

**4  loop**

**5  dbms\_output.put\_line('Student name: ' || i.name || ' Student marks: ' || i.marks);**

**6  if i.marks <= 1500 and i.marks >= 990 then**

**7  insert into result values (i.rollno, i.name, 'Distinction');**

**8  elsif i.marks <= 989 and i.marks >= 900 then**

**9  insert into result values (i.rollno, i.name, 'First Class');**

**10  elsif i.marks <= 899 and i.marks >= 800 then**

**11  insert into result values (i.rollno, i.name, 'Second Class');**

**12  end if;**

**13  end loop;**

**14  commit;**

**15  end;**

**16  /**

Procedure created.

SQL> select \* from stud\_marks;

ROLLNO NAME    MARKS

--------------------------------------------------

   101 Shreeya     1200

   102 Rajasi     1350

   103 Advait       960

   104 Pranav       905

   105 Anish       888

   106 Aditya       840

6 rows selected.

**SQL> execute class;**

Student name: Shreeya Student marks: 1200

Student name: Rajasi Student marks: 1350

Student name: Advait Student marks: 960

Student name: Pranav Student marks: 905

Student name: Anish Student marks: 888

Student name: Aditya Student marks: 840

PL/SQL procedure successfully completed.

SQL> select \* from result;

ROLLNO NAME CLASS

------------------------------------------------------------

   101 Shreeya Distinction

   102 Rajasi   Distinction

   103 Advait   First Class

   104 Pranav   First Class

   105 Anish   Second Class

   106 Aditya   Second Class

6 rows selected.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Passing parameters to procedure:**

**SQL> create table stud\_marks(rollno number(3), name varchar2(20), marks number(5));**

Table created.

SQL> insert into stud\_marks values (101, 'Shreeya',1200);

1 row created.

SQL> insert into stud\_marks values (102, 'Rajasi',1350);

1 row created.

SQL> insert into stud\_marks values (103, 'Advait',960);

1 row created.

SQL> insert into stud\_marks values (104, 'Pranav',905);

1 row created.

SQL> insert into stud\_marks values (105, 'Anish',888);

1 row created.

SQL> insert into stud\_marks values (106, 'Aditya',840);

1 row created.

SQL> create table result(rollno number(3),name varchar2(20),class varchar2(30));

Table created.

SQL> create table rest(rollno number(3),name varchar2(20),class varchar2(30));

Table created.

**SQL> create or replace procedure proc(rno number, names varchar2, tot\_marks number) is grade varchar2(30);**

**begin**

**if (tot\_marks <= 1500 and tot\_marks >= 990) then**

**grade := 'Distinction';**

**elsif (tot\_marks <= 989 and tot\_marks >= 900) then**

**grade := 'First Class';**

**elsif (tot\_marks <= 899 and tot\_marks >= 800) then**

**grade := 'Second Class';**

**end if;**

**insert into rest values (rno, names, grade);**

**end;**

**/**

Procedure created.

**SQL> exec proc(101,'Shreeya',1200);**

PL/SQL procedure successfully completed.

**SQL> exec proc(102,'Rajasi',1350);**

PL/SQL procedure successfully completed.

**SQL> exec proc (103, 'Advait',960);**

PL/SQL procedure successfully completed.

**SQL> exec proc(104, 'Pranav',905);**

PL/SQL procedure successfully completed.

**SQL> exec proc(105, 'Anish',888);**

PL/SQL procedure successfully completed.

**SQL> exec proc(106, 'Aditya',840);**

PL/SQL procedure successfully completed.

SQL> select \* from rest;

ROLLNO NAME CLASS

------------------------------------------------------------

   101 Shreeya Distinction

   102 Rajasi   Distinction

   103 Advait   First Class

   104 Pranav   First Class

   105 Anish   Second Class

   106 Aditya   Second Class

6 rows selected.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**With cursor:**

SQL> create table stud\_marks(rollno number(3), name varchar2(20), marks number(5));

Table created.

SQL> insert into stud\_marks values (101, 'Shreeya',1200);

1 row created.

SQL> insert into stud\_marks values (102, 'Rajasi',1350);

1 row created.

SQL> insert into stud\_marks values (103, 'Advait',960);

1 row created.

SQL> insert into stud\_marks values (104, 'Pranav',905);

1 row created.

SQL> insert into stud\_marks values (105, 'Anish',888);

1 row created.

SQL> insert into stud\_marks values (106, 'Aditya',840);

1 row created.

SQL> create table rest11(rollno number(3),name varchar2(20),class varchar2(30));

Table created.

**SQL> create or replace procedure proc\_new(rno number, names varchar2, tot\_marks number) is grade varchar2(30);**

**begin**

**if (tot\_marks <= 1500 and tot\_marks >= 990) then**

**grade := 'Distinction';**

**elsif (tot\_marks <= 989 and tot\_marks >= 900) then**

**grade := 'First Class';**

**elsif (tot\_marks <= 899 and tot\_marks >= 800) then**

**grade := 'Second Class';**

**end if;**

**insert into rest11 values (rno, names, grade);**

**end;**

**/**

Procedure created.

**SQL> declare**

**r1 stud\_marks.rollno%type;**

**n1 stud\_marks.name%type;**

**m1 stud\_marks.marks%type;**

**cursor c1 is select rollno,name,marks from stud\_marks;**

**begin**

**open c1;**

**loop**

**fetch c1 into r1, n1, m1;**

**exit when c1%notfound;**

**proc\_new(r1, n1, m1);**

**end loop;**

**close c1;**

**end;**

**/**

PL/SQL procedure successfully completed.

SQL> select \* from rest11;

ROLLNO NAME CLASS

------------------------------------------------------------

   101 Shreeya Distinction

   102 Rajasi   Distinction

   103 Advait   First Class

   104 Pranav   First Class

   105 Anish   Second Class

   106 Aditya   Second Class

6 rows selected.