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Roll no.:- 13373

PRACTICAL NO. 6

```
C:\Users\Yash Dhumal\Desktop\MY SQL>sqlplus
SQL*Plus: Release 21.0.0.0.0 - Production on Fri Oct 27 19:01:37 2023
Version 21.3.0.0.0
Copyright (c) 1982, 2021, Oracle. All rights reserved.
Enter user-name: system
Enter password:
Last Successful login time: Thu Oct 26 2023 19:01:00 +05:30
Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> create table result(roll int, name varchar(20), class varchar(20));
Table created.

SQL> create table stud_marks(name varchar(20), total_marks int);
Table created.

SQL> insert into stud_marks values('YASH',970);
1 row created.

SQL> insert into stud_marks values('MAYURESH',999);
1 row created.

SQL> insert into stud_marks values('SAMARTH',850);
1 row created.

SQL> SET SERVEROUTPUT ON;
SQL> create function proc_grade(marks number)
2 return varchar2 is
3 category varchar(50);
```

```
4 begin
5 if marks >= 990 and marks <=1500 then
6 category :='distinction';
7 elsif marks >= 990 and marks <=989 then
8 category :='first class';
9 elsif marks >= 825 and marks <=899 then
10 category :='higher second class';
11 else
12 category :='fail';
13 end if;
14 return category;
15 end proc_grade;
16 /
```

Function created.

```
SQL> drop table stud_marks;
```

Table dropped.

```
SQL> create table stud_marks(roll int, name varchar(20), total_marks int);
```

Table created.

```
SQL> create table stud_marks1(roll int, name varchar(20), total_marks int);
```

Table created.

```
SQL> insert into stud_marks1 values(101,'SIDDHESH',970);
```

1 row created.

```
SQL> insert into stud_marks1 values(102,'YASH',1050);
```

1 row created.

```
SQL> insert into stud_marks1 values(103,'SAMARTH',850);
```

1 row created.

```
SQL> insert into stud_marks1 values(104,'MAYURESH',750);
```

1 row created.

```
SQL> insert into stud_marks1 values(105,'PRASAD',1150);
```

1 row created.

```
SQL> SELECT * FROM STUD_MARKS1;
```

ROLL NAME	TOTAL_MARKS
101 SIDDHESH	970
102 YASH	1050
103 SAMARTH	850
104 MAYURESH	750
105 PRASAD	1150

```
SQL> declare
```

```
2 v_roll number;
```

```
3 v_name varchar2(50);
```

```
4 v_total_marks number;
```

```
5 v_class varchar2(50);
```

```
6 begin
```

```
7 for student_rec in (select * from stud_marks1) loop
```

```
8 v_roll := student_rec.roll;
```

```
9 v_name := student_rec.name;
```

```
10 v_total_marks := student_rec.total_marks;
```

```
11 v_class := proc_grade(v_total_marks);
```

```
12 insert into result (roll, name, class) values (v_roll, v_name, v_class);
```

```
13 end loop;
```

```
14 commit;
```

```
15 end;
```

```
16 /
```

PL/SQL procedure successfully completed.

SQL> select * from result;

ROLL NAME	CLASS
101 SIDDHESH	fail
102 YASH	distinction
103 SAMARTH	higher second class
104 MAYURESH	fail
105 PRASAD	distinction