

## Assignment No:5

**Problem Statement:**Write a Stored Procedure/Function namely proc\_Grade for the categorization of

student.

o If marks scored by students in examination is  $\leq 1500$  and marks  $\geq 990$  then

distinction category

o If marks scored are between 989 and 900 category is first class,

o If marks 899 and 825 category is Higher Second Class

● Schema Required are:

o Stud\_Marks(name, total\_marks)

o Result(Roll, Name, Class

### --Creation of Schemas

```
SQL> create table stud_Marks(Roll_no int primary key, Name
varchar(20), Marks int);
```

Table created.

```
SQL> create table Result(Roll_No int ,class varchar(20), foreign
key(Roll_No) references stud_Marks(Roll_No));
```

Table created.

```
SQL> insert into stud_Marks values(101, 'Shivarth', 1000);
```

```
SQL> insert into stud_Marks values(102, 'Krishiv', 950);
```

```
SQL> insert into stud_Marks values(103, 'Ishanvi', 850);
```

```
SQL> select * from stud_Marks;
```

ROLL_NO	NAME	MARKS
101	Shivarth	1000
102	Krishiv	950
103	Ishanvi	850

### **--Execution of PL/SQL block**

```
SQL> CREATE OR REPLACE PROCEDURE Proc_Grade(s_Roll IN int)
  2  AS
  3  v_marks stud_Marks.Marks%type;
  4  s_class Result.class%type;
  5  BEGIN
  6  select Marks into v_marks from stud_Marks where Roll_No=s_Roll;
  7  if(v_marks>=990 and v_marks<=1500) THEN
  8  s_class := 'Distinction';
  9  elsif(v_marks>=900 and v_marks<=989) THEN
10  s_class := 'First Class';
11  elsif(v_marks>=825 and v_marks<=899) THEN
12  s_class := 'Higher Secondary Class';
13  else
14  s_class := 'Not categorized';
15  END if;
16  dbms_output.put_line('The Student passed with '||s_class);
17  insert into Result values(s_Roll,s_class);
18  END;
19  /
```

Procedure created.

### **OUTPUT:**

#### **--For Roll\_No 101**

```
SQL> Execute Proc_Grade(101);
```

The Student passed with Distinction

PL/SQL procedure successfully completed.

```
SQL> select * from Result;
```

```
ROLL_NO CLASS
```

```
-----
```

```
101 Distinction
```

```
--For Roll_No 102
```

```
SQL> Execute Proc_Grade(102);
```

```
The Student passed with First Class
```

```
SQL> select * from Result;
```

```
ROLL_NO CLASS
```

```
-----
```

```
101 Distinction
```

```
102 First Class
```

```
PL/SQL procedure successfully completed.
```

```
--For Roll_No 103
```

```
SQL> Execute Proc_Grade(103);
```

```
The Student passed with Higher Secondary Class
```

```
PL/SQL procedure successfully completed.
```

```
SQL> select * from Result;
```

```
ROLL_NO CLASS
```

```
-----
```

```
101 Distinction
```

```
102 First Class
```

```
103 Higher Secondary Class
```