Group A - 7

Problem Statement: Write a Stored procedure namely proc_Grade for the categorization of student. If marks scored by students in examination is <=1500 and marks >=990 then student will be placed in distinction category. If marks scored are between 989 and 900, category is first class. If marks scored are between 899 and 825, category is higher second class.

Write a PL/SQL block for using procedure with above requirement. Stud_Marks(name,total_marks) Result(Roll,Name,Class). Write a function to find out total number of students in a given class.

1.Create Database:

Field	Туре	Null	Key	Default	Extra
Name Total_Marks	varchar(20)	•		NULL NULL	

mysql> desc Result;

Field	 Туре	Null	Key	Default	Extra
Roll Name Class	int(11) varchar(20) varchar(20)	YES YES YES	 	NULL NULL NULL	

Query Answers:

1. Create following tables

- a. stud marks(name, total marks)
- **b.** result (roll, name, class)

mysql> create table Stud_Marks(Name varchar(20),Total_Marks int);
mysql> create table Result(Roll int,Name varchar(20),Class
varchar(20));

2. Write a Stored Procedure namely proc_Grade for the categorization of student.

- ${f a.}$ If marks scored by students in examination is <=1500 and marks>=990 then student will be placed in Distinction category.
- **b.** If marks scored are between 989 and 900 category is First Class.
- ${f c.}$ If marks scored are between 899 and 925 category is Higher Second Class.

```
mysql> delimiter //
mysql> create procedure proc Grade()
   -> begin
   -> update Result r inner join Stud Marks sm on r.Name=sm.Name
   -> set r.Class=case when sm.Total Marks<=1500 and
sm.Total Marks>=990 then 'Distinction'
   -> when sm.Total Marks<=989 and sm.Total Marks>=900 then
'First Class'
   \rightarrow when sm.Total Marks<=899 and sm.Total Marks>=825 then
    'Higher Second Class'
   -> end
   -> ;
   -> end//
mysql>delimiter;
mysql> call proc Grade();
mysql> select * from Result;
+----+
| Roll | Name | Class
+----+
| 37 | sanket | Distinction
  34 | Madhuri | Distinction |
  46 | Rohan | Higher_Second_Class | 35 | Raj | First_Class |
  47 | Abhishek | Higher_Second_Class |
+----+
3. Write a function to find out total no of students in given class.
mysql> delimiter //
mysql> create function fun1(nme varchar(20))
   -> returns int(20)
   -> begin
   -> declare tot int(20);
   -> select count(*) into tot from Result where Result.Class=nme;
   -> return tot;
   -> end
   -> //
mysql> delimiter ;
mysql> select fun1('Higher Second Class');
+----+
| fun1('Higher Second Class') |
+----+
+----+
```