Assignment no 5

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 and900 category is first class, if marks899and 825 category is Higher Second Class. Write a PL/SQLblock to use procedure created with above requirement. Stud_Marks(name, total_marks) Result(Roll,Name, Class)

```
mysql>CREATE TABLE stud_marks (
  roll_no int primary key,
  name varchar(20) not null,
  total_marks int not null
);
Query OK, 0 rows affected (0.20 sec)

INSERT INTO stud_marks VALUES (0001, 'Clark', 1500);
INSERT INTO stud_marks VALUES (0002, 'Dave', 1000);
INSERT INTO stud_marks VALUES (0003, 'Ava', 825);
INSERT INTO stud_marks VALUES (0004, 'sahil', 400);
INSERT INTO stud_marks VALUES (0005, 'Maya', 1589);

mysql>CREATE table result(
  rollno int primary key,
  name varchar(20) not null,
  class varchar(20)
);
Query OK, 0 rows affected (0.03 sec)

mysql> create procedure proc_grade(in marks int,out class
varchar(20))
    -> begin
    -> if marks between 990 and 1500 then
    -> set class='Distincton';
    -> elseif marks between 890 and 989 then
    -> set class='First Class';
    -> elseif marks between 825 and 889 then
    -> set class='Higher Second Class';
    -> else
    -> set class = 'Fail';
    -> end if;
```

```
    -> end ;
Query OK, 0 rows affected (0.03 sec)




mysql> create function getresult(Roll int)
    -> returns varchar(20)
    -> begin
    -> declare tempmarks int;
    -> declare grade varchar(20);
    -> declare stud_name varchar(20);
    -> select sm.total_marks, sm.name into tempmarks, stud_name
    -> from stud_marks sm where sm.roll_no=Roll;
    -> call proc_grade(tempmarks,@grade);
    -> insert into result values(Roll,stud_name,@grade);
    -> return @grade;
    -> end;
    -> //
Query OK, 0 rows affected (0.01 sec)

mysql> select getresult(1);
    -> select getresult(2);
    -> //
+--------------+
| getresult(1) |
+--------------+
| Distincton   |
+--------------+
1 row in set (0.03 sec)

+--------------+
| getresult(2) |
+--------------+
| Distincton   |
+--------------+
1 row in set (0.03 sec)


mysql> select * from result;
+--------+-------+---------------------+
| rollno | name  | class               |
+--------+-------+---------------------+
|      1 | Clark | Distincton          |
|      2 | Dave  | Distincton          |
|      3 | Ava   | Higher Second Class |
|      4 | sahil | Fail                |
|      5 | Maya  | Fail                |
+--------+-------+---------------------+
5 rows in set (0.01 sec)
```