

Assignment No. 6(A)

Title: Write a Stored Procedure namely proc_Grade for the categorisation 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 899 and 825 category is Higher Second Class. Write a PL/SQL block to use procedure created with above requirement. Stud_Marks(rollno, name, total_marks) Result(rollno, name, class)

```
mysql> CREATE DATABASE Student;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE Student;
Database changed
mysql> CREATE TABLE Stud_Marks(rollno INT,name VARCHAR(30),marks INT);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE Result(rollno INT,name VARCHAR(30),class VARCHAR(20));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> INSERT INTO Stud_Marks values(1,"John Doe",850),(2,"Harry Potter",1250),(3,"Emma
Watson",1450),(4,"Lucy Hutton",950),(5,"Tom Felton",750);
Query OK, 5 rows affected (0.00 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

*******Defining Procedure*******

```
mysql> drop procedure if exists proc_Grade;
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql>
mysql> delimiter //
mysql>
mysql> create procedure proc_Grade()
-> begin
-> DECLARE done INT default 0;
->
-> declare s_marks int;
-> declare s_rollno int;
-> declare s_name varchar(30);
-> declare s_class varchar(80);
->
-> declare s_student cursor For Select rollno, name, marks from stud_marks;
->
->
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
```

```

->
->
->   open s_student;
->
->   read_loop: LOOP
->       fetch s_student into s_rollno,s_name,s_marks;
->
->   IF done = 1 THEN
->       LEAVE read_loop;
->   END IF;
->
->   if(s_marks<=1500 and s_marks>=990) then
->       set s_class='Distinction';
->
->   elseif(s_marks<=989 and s_marks>=900) then
->       set s_class='First Class';
->
->   elseif (s_marks<=899 and s_marks>=825) then
->       set s_class='Higher Second Class';
->
->   else
->       set s_class='Pass';
->
->   end if;
->   insert into Result(rollno,name,class)values(s_rollno,s_name,s_class);
->
-> END LOOP;
->   close s_student;
->   end;
-> //

```

Query OK, 0 rows affected (0.00 sec)

mysql>

mysql> delimiter ;

mysql> SELECT * FROM Stud_Marks;

rollno	name	marks
1	John Doe	850
2	Harry Potter	1250
3	Emma Watson	1450
4	Lucy Hutton	950
5	Tom Felton	750

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Result;
```

Empty set (0.00 sec)

*****Calling Procedure*****

```
mysql> CALL proc_Grade();
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> SELECT * FROM Result;
```

+-----+-----+-----+			
rollno	name	class	
+-----+-----+-----+			
1	John Doe	Higher Second Class	
2	Harry Potter	Distinction	
3	Emma Watson	Distinction	
4	Lucy Hutton	First Class	
5	Tom Felton	Pass	
+-----+-----+-----+			

5 rows in set (0.00 sec)

```
mysql>
```
