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**Roll no:- 55**

**Batch:- T4**

**Group A: Practical No. 6**

**Named PL/Sql block – PL/Sql stored procedure and stored function**

\*\*\*\*\*

1) Stored Procedure:-

```
mysql> create database marks;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use marks;
```

```
Database changed
```

```
mysql> create table studmarks(name varchar(20),total_marks integer);
```

```
Query OK, 0 rows affected (0.30 sec)
```

```
mysql> create table result(roll_no integer,name varchar(20),class  
varchar(25));
```

```
Query OK, 0 rows affected (0.33 sec)
```

Creating Procedure:-

```
mysql> DELIMITER $
```

```
mysql> create procedure proc_grade(in rollno tinyint,in name  
varchar(15),in marks int)
```

```
-> begin
```

```
-> declare class varchar(25);
```

```
-> if marks>=990 and marks<=1500 then set class="Distinction";
```

```
-> elseif marks<=989 and marks>=900 then set class="First Class";
```

```
-> elseif marks<=899 and marks>=825 then set class="Second Class";
```

```
-> elseif marks<=824 and marks>=700 then set class="Pass";
```

```
-> else
```

```
-> set class="Fail";
```

```
-> end if;
```

```
-> insert into studmarks values(name,marks);
```

```
-> insert into result values(rollno,name,class);
```

```
-> end$
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER $
```

```
mysql> call proc_grade(1,"Aryan",850);
```

```
-> DELIMITER $
```

```
Query OK, 1 row affected (0.10 sec)
```

```
mysql> call proc_grade(2,"Peter",1000);
```

```
-> DELIMITER $
```

```
Query OK, 1 row affected (0.21 sec)
```

```
mysql> select * from result;
-> DELIMITER $
```

```
+-----+-----+-----+
| roll_no | name  | class      |
+-----+-----+-----+
|        1 | Aryan | Second Class |
|        2 | Peter | Distinction  |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> call proc_grade(3,"Smith",834);
-> DELIMITER $
Query OK, 1 row affected (0.10 sec)
```

```
mysql> call proc_grade(4,"Carol",750);
-> DELIMITER $
Query OK, 1 row affected (0.21 sec)
```

```
mysql> call proc_grade(5,"Bob",950);
-> DELIMITER $
Query OK, 1 row affected (0.40 sec)
```

```
mysql> select * from result;
-> DELIMITER $
```

```
+-----+-----+-----+
| roll_no | name  | class      |
+-----+-----+-----+
|        1 | Aryan | Second Class |
|        2 | Peter | Distinction  |
|        3 | Smith | Second Class |
|        4 | Carol | Pass        |
|        5 | Bob   | First Class  |
+-----+-----+-----+
5 rows in set (0.03 sec)
```

```
mysql> select * from studmarks;
-> DELIMITER $
```

```
+-----+-----+
| name  | total_marks |
+-----+-----+
| Aryan |          850 |
| Peter |         1000 |
| Smith |          834 |
| Carol |          750 |
| Bob   |          950 |
+-----+-----+
5 rows in set (0.00 sec)
```

Stored Function:-

Create Function:-

```
mysql> DELIMITER $
mysql> create function tot_stud(classname varchar(25))
    -> returns int
    -> BEGIN
    -> DECLARE TOTAL INT(20);
    -> SELECT DISTINCT COUNT(*) INTO TOTAL FROM result where
    class=classname;
    -> return TOTAL;
    -> end $
```

Query OK, 0 rows affected (0.12 sec)

```
mysql> SET GLOBAL log_bin_trust_function_creators = 1;
    -> DELIMITER $
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> create function tot_stud1(classname varchar(25))
    -> returns int
    -> begin
    -> declare total int(20);
    -> select distinct count(*) into total from result where
    class=classname;
    -> return total;
    -> end $
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select tot_stud1("Second Class");
    -> DELIMITER $
```

```
+-----+
| tot_stud1("Second Class") |
+-----+
|                          2 |
+-----+
```

1. row in set (0.11 sec)

```
mysql> select tot_stud("Pass");
    -> DELIMITER $
```

```
+-----+
| tot_stud("Pass") |
+-----+
|                  1 |
+-----+
```

1. row in set (0.00 sec)

```
mysql> select tot_stud("First Class");
    -> DELIMITER $
```

