

TITLE:-

Named PL/SQL Block: PL/SQL Stored Procedure and Stored Function. 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 899 and 825 category is Higher Second Class.

Write a PL/SQL block to use procedure created with above requirement.

Stud_Marks(name, total_marks) Result(Roll, Name, Class)

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 9

Server version: 8.0.30 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

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

Query OK, 1 row affected (0.14 sec)

```
mysql> use marks;
```

Database changed

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

Query OK, 0 rows affected (1.15 sec)

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

Query OK, 0 rows affected (1.65 sec)

```
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 (0.16 sec)

```
mysql> delimiter ;
```

```
mysql> call proc_grade(1,'Krushna',856);
```

Query OK, 1 row affected (0.19 sec)

```
mysql> call proc_grade(2,'Ganesh',1020);
```

Query OK, 1 row affected (0.17 sec)

```
mysql> call proc_grade(3,'Sahil',750);
```

Query OK, 1 row affected (1.59 sec)

```
mysql> call proc_grade(4,'Ram',450);
```

Query OK, 1 row affected (1.36 sec)

```
mysql> call proc_grade(5,'Dhruva',900);
```

Query OK, 1 row affected (0.89 sec)

```
mysql> select * from result;
```

```

+-----+-----+-----+
| roll_no | name  | class  |
+-----+-----+-----+
| 1 | Krushna | Second Class |
| 2 | Ganesh  | Distinction  |
| 3 | Sahil   | Pass         |
| 4 | Ram     | Fail         |
| 5 | Dhruva  | First Class  |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

```
mysql> select*from studmarks;
```

```

+-----+-----+
| name  | total_marks |
+-----+-----+
| Krushna | 856 |
| Ganesh  | 1020 |
| Sahil   | 750 |
| Ram     | 450 |
| Dhruva  | 900 |
+-----+-----+
5 rows in set (0.00 sec)

```

```
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 //
```

ERROR 1418 (HY000): This function has none of DETERMINISTIC, NO SQL, or READS SQL DATA in its declaration and binary logging is enabled (you *might* want to use the less safe log_bin_trust_function_creators variable)

```
mysql> SET GLOBAL log_bin_trust_function_creators=1 //
```

Query OK, 0 rows affected (0.00 sec)

```
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, 1 warning (0.16 sec)

```
mysql> select tot_stud("Second Class") //
```

```
+-----+
```

```
| tot_stud("Second Class") |
```

```
+-----+
```

```
|          1 |
```

```
+-----+
```

1 row in set (0.14 sec)

```
mysql> select tot_stud("Pass") //
```

```
+-----+
```

```
| tot_stud("Pass") |
```

```
+-----+
```

```
|          1 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> select tot_stud("First Class") //
```

```
+-----+
| tot_stud("First Class") |
+-----+
|          1 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select tot_stud("Distinction") //
+-----+
| tot_stud("Distinction") |
+-----+
|          1 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select tot_stud("Fail") //
+-----+
| tot_stud("Fail") |
+-----+
|          1 |
+-----+
1 row in set (0.00 sec)
```

```
mysql>
```