

## DBMSL Assignment No- 5

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Batch - T1

### Output:

#### #Create Database and Tables.

```
mysql> create database students;
Query OK, 1 row affected (0.00 sec)

mysql> use students;
Database changed
mysql>
mysql> create table Stud_marks(name varchar(25),total_marks int);
Query OK, 0 rows affected (0.01 sec)

mysql> create table Result(Roll int, name varchar(25),class varchar(25));
Query OK, 0 rows affected (0.01 sec)

mysql> desc Stud_marks;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name           | varchar(25)   | YES  |     | NULL    |       |
| total_marks    | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> desc Result;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Roll  | int           | YES  |     | NULL    |       |
| name  | varchar(25)   | YES  |     | NULL    |       |
| class | varchar(25)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

#### #Write a function which will return the total students in a given class.

```
mysql> delimiter //
mysql> create function total_count()
-> RETURNS int
-> DETERMINISTIC
-> BEGIN
-> declare a int;
-> select count(Roll) into a from Result;
-> RETURN a;
-> END;
-> //
Query OK, 0 rows affected (0.00 sec)
```

#### #Write a PL/SQL block to use the procedure created with the above requirement. Insert the data in both the tables by calling the above procedure.

```
mysql> create procedure proc_grade(in roll int, in name varchar(25), in marks int)
-> begin
-> declare class varchar(25);
-> if (marks <= 1500 and marks >= 990) 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 < 825) then
->   set class = 'Fail';
-> end if;
-> select class;
-> insert into Stud_marks values(name,marks);
-> insert into Result values(roll,name,class);
-> select * from Stud_marks;
-> select * from Result;
-> select total_count();
-> end;
-> //
Query OK, 0 rows affected (0.01 sec)

```

#### #Execution:

```

mysql> call proc_grade(1,'Ravi',1400);
-> //

```

```

+-----+
| class |
+-----+
| Distinction |
+-----+
1 row in set (0.00 sec)

```

```

+-----+-----+
| name | total_marks |
+-----+-----+
| Ravi | 1400 |
+-----+-----+
1 row in set (0.01 sec)

```

```

+-----+-----+-----+
| Roll | name | class |
+-----+-----+-----+
| 1 | Ravi | Distinction |
+-----+-----+-----+
1 row in set (0.01 sec)

```

```

+-----+
| total_count() |
+-----+
| 1 |
+-----+
1 row in set (0.01 sec)

```

Query OK, 0 rows affected (0.01 sec)

```

mysql> call proc_grade(2,'Abhi',1300);
-> //

```

```

+-----+
| class |
+-----+
| Distinction |
+-----+
1 row in set (0.00 sec)

```

```

+-----+-----+
| name | total_marks |
+-----+-----+
| Ravi | 1400 |
| Abhi | 1300 |
+-----+-----+
2 rows in set (0.01 sec)

```

```

+-----+-----+-----+
| Roll | name | class |
+-----+-----+-----+
| 1 | Ravi | Distinction |
| 2 | Abhi | Distinction |
+-----+-----+-----+
2 rows in set (0.01 sec)

```

```

+-----+
| total_count() |
+-----+
| 2 |
+-----+
1 row in set (0.01 sec)

```

Query OK, 0 rows affected (0.01 sec)

```
mysql> call proc_grade(3,'Pawan',950);
-> //
```

```

+-----+
| class |
+-----+
| First_Class |
+-----+
1 row in set (0.00 sec)

```

```

+-----+-----+
| name | total_marks |
+-----+-----+
| Ravi | 1400 |
| Abhi | 1300 |
| Pawan | 950 |
+-----+-----+
3 rows in set (0.01 sec)

```

```

+-----+-----+-----+
| Roll | name | class |
+-----+-----+-----+
| 1 | Ravi | Distinction |
| 2 | Abhi | Distinction |
| 3 | Pawan | First_Class |
+-----+-----+-----+
3 rows in set (0.01 sec)

```

```

+-----+
| total_count() |
+-----+
| 3 |
+-----+
1 row in set (0.01 sec)

```

Query OK, 0 rows affected (0.01 sec)

```
mysql> call proc_grade(4,'Bhavik',850);
-> //
```

```

+-----+
| class |
+-----+
| Second_Class |
+-----+
1 row in set (0.00 sec)

```

```

+-----+-----+
| name | total_marks |
+-----+-----+

```

Ravi	1400
Abhi	1300
Pawan	950
Bhavik	850

4 rows in set (0.01 sec)

Roll	name	class
1	Ravi	Distinction
2	Abhi	Distinction
3	Pawan	First_Class
4	Bhavik	Second_Class

4 rows in set (0.01 sec)

total_count()
4

1 row in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

```
mysql> call proc_grade(5,'Sam',750);
-> //
```

class
Fail

1 row in set (0.00 sec)

name	total_marks
Ravi	1400
Abhi	1300
Pawan	950
Bhavik	850
Sam	750

5 rows in set (0.01 sec)

Roll	name	class
1	Ravi	Distinction
2	Abhi	Distinction
3	Pawan	First_Class
4	Bhavik	Second_Class
5	Sam	Fail

5 rows in set (0.01 sec)

total_count()
5

1 row in set (0.02 sec)

Query OK, 0 rows affected (0.02 sec)