

Assignment 5

Create and Populate Tables

```
MariaDB [te31311_db]> create table Stud_marks(Rollno int primary key,name varchar(50) not null,marks int not null);
Query OK, 0 rows affected (0.144 sec)
```

```
MariaDB [te31311_db]> insert into Stud_marks values(1,'Abhishek Sharma',1200);
```

```
MariaDB [te31311_db]> insert into Stud_marks values(2,'Biswas Dey',950),(3,'Chirag Gupta',850),(4,'Dhiraj Rana',750),(5,'Eshan Naqvi',650)
Query OK, 4 rows affected (0.027 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
MariaDB [te31311_db]> select * from Stud_marks;
```

```
+-----+-----+-----+
| Rollno | name           | marks |
+-----+-----+-----+
| 1      | Abhishek Sharma | 1200  |
| 2      | Biswas Dey      | 950   |
| 3      | Chirag Gupta    | 850   |
| 4      | Dhiraj Rana     | 750   |
| 5      | Eshan Naqvi     | 650   |
+-----+-----+-----+
5 rows in set (0.001 sec)
```

```
MariaDB [te31311_db]> create table Stud_result(Rollno int not null,name varchar(50) not null, result varchar(50) not null);
Query OK, 0 rows affected (0.176 sec)
```

Creating Function proc_grade

```
MariaDB [te31311_db]> delimiter //
```

```
MariaDB [te31311_db]> create function proc_grade(marks int) returns varchar(50)
```

```
-> begin
-> declare class varchar(50);
-> if marks<=1500 and marks>=990 then
->
```

```
Display all 819 possibilities? (y or n)
```

```
-> set class='Distinction';
-> elseif marks<990 and marks>=900 then
->
```

```
Display all 819 possibilities? (y or n)
```

```
-> set class='First Class';
-> elseif marks<900 and marks>=825 then
->
```

```
Display all 819 possibilities? (y or n)
```

```
-> set class='Second Class';
-> elseif marks<825 and marks>=750 then
->
```

```
Display all 819 possibilities? (y or n)
```

```
-> set class='Pass';
-> else
->
```

```
Display all 819 possibilities? (y or n)
```

```
-> set class='Fail';
-> end if;
->
-> return class;
-> end //
```

```
Query OK, 0 rows affected (0.057 sec)
```

```
MariaDB [te31311_db]> show function status;
```

```
-> //
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Db      | Name      | Type      | Definer      | Modified      | Created      | Security_type | Comment      | character_set_cli
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| te31311_db | proc_grade | FUNCTION  | te31311@%    | 2024-08-05 14:30:59 | 2024-08-05 14:30:59 | DEFINER      |              | utf8
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.007 sec)
```

Create Procedure UpdateResult

```
MariaDB [te31311_db]> DELIMITER //
```

```
MariaDB [te31311_db]>
```

```
MariaDB [te31311_db]> CREATE PROCEDURE UpdateResult(IN r INT)
```

```
-> BEGIN
-> DECLARE name1 VARCHAR(50);
-> DECLARE marks1 INT;
-> DECLARE class1 VARCHAR(50);
```

```
->
-> -- Retrieve the name and marks for the given roll number
-> SELECT name INTO name1 FROM Stud_marks WHERE Rollno = r;
-> SELECT marks INTO marks1 FROM Stud_marks WHERE Rollno = r;
->
-> -- Set the value of class1 using a subquery
-> SET class1 = (SELECT proc_grade(marks1));
->
-> -- Insert the results into the Stud_result table
-> INSERT INTO Stud_result (Rollno, Name, Class) VALUES (r, name1, class1);
-> END //
```

Query OK, 0 rows affected (0.043 sec)

```
MariaDB [te31311_db]>
MariaDB [te31311_db]> DELIMITER ;
```

Call updateResult and display stud_result

```
MariaDB [te31311_db]> call UpdateResult(1);
Query OK, 3 rows affected (0.027 sec)
```

```
MariaDB [te31311_db]> select * from Stud_result;
+-----+-----+-----+
| Rollno | name          | Class      |
+-----+-----+-----+
| 1      | Abhishek Sharma | Distinction |
+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [te31311_db]> call UpdateResult(2);
Query OK, 3 rows affected (0.030 sec)
```

```
MariaDB [te31311_db]> call updateResult(3);
Query OK, 3 rows affected (0.033 sec)
```

```
MariaDB [te31311_db]> select * from Stud_result order by Rollno;
+-----+-----+-----+
| Rollno | name          | Class      |
+-----+-----+-----+
| 1      | Abhishek Sharma | Distinction |
| 2      | Biswas Dey      | First Class |
| 3      | Chirag Gupta    | Second Class |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [te31311_db]> call updateResult(5);
Query OK, 3 rows affected (0.027 sec)
```

```
MariaDB [te31311_db]> call UpdateResult(4);
Query OK, 3 rows affected (0.030 sec)
```

```
MariaDB [te31311_db]> select * from Stud_result;
+-----+-----+-----+
| Rollno | name          | Class      |
+-----+-----+-----+
| 1      | Abhishek Sharma | Distinction |
| 2      | Biswas Dey      | First Class |
| 3      | Chirag Gupta    | Second Class |
| 5      | Eshan Naqvi     | Fail       |
| 4      | Dhiraj Rana     | Pass       |
+-----+-----+-----+
5 rows in set (0.001 sec)
```

```
MariaDB [te31311_db]> select * from Stud_result order by rollno;
+-----+-----+-----+
| Rollno | name          | Class      |
+-----+-----+-----+
| 1      | Abhishek Sharma | Distinction |
| 2      | Biswas Dey      | First Class |
| 3      | Chirag Gupta    | Second Class |
| 4      | Dhiraj Rana     | Pass       |
| 5      | Eshan Naqvi     | Fail       |
+-----+-----+-----+
5 rows in set (0.001 sec)
```