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Microsoft Windows [Version 6.3.9600]
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C:\Users\admin>mysql -u root -p
Enter password: *********
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 8.0.39 MySQL Community Server - GPL

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

mysql> use prince;
Database changed
mysql> create table marks(roll_no int,name varchar(20),total_marks varchar(20));

Query OK, 0 rows affected (0.86 sec)

mysql> create table result(roll_no int,name varchar(20),class varchar(20));
Query OK, 0 rows affected (0.33 sec)

mysql> INSERT INTO marks (roll_no, name, total_marks) VALUES
    -> (1, 'Prince', 1400),
    -> (2, 'Maur', 980),
    -> (3, 'Hitesh', 880),
    -> (4, 'Swapnil', 820),
    -> (5, 'Pratik', 740),
    -> (6, 'Patil', 640);
Query OK, 6 rows affected (0.08 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> DROP PROCEDURE IF EXISTS proc_result;
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> DROP FUNCTION IF EXISTS final_result;
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql>  delimiter //
mysql> create procedure proc_result(in marks int, out
    -> class char(20))
    -> begin
    ->  IF (marks >= 990 AND marks < 1500) THEN
    ->        SET class = 'Distinction';
    ->     ELSEIF (marks >= 890 AND marks < 990) THEN
    ->        SET class = 'First Class';
    ->     ELSEIF (marks >= 650 AND marks < 749) THEN
    ->        SET class = 'Second Class';
    ->     ELSEIF (marks >= 649 AND marks < 650) THEN
    ->        SET class = 'Passed';
    ->     ELSE
    ->        SET class = 'Fail';
    ->     END IF;
    -> END //
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> DELIMITER ;

mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION final_result(R1 INT)
    -> RETURNS CHAR(20)
    -> DETERMINISTIC
    -> BEGIN
    ->     DECLARE fmarks INT;
    ->     DECLARE grade CHAR(20);
    ->
    ->     SELECT total_marks INTO fmarks FROM marks WHERE roll_no = R1;
    ->
    ->     CALL proc_result(fmarks, grade);
    ->
    ->     RETURN grade;
    -> END //
Query OK, 0 rows affected (0.07 sec)

mysql>
mysql> DELIMITER ;
mysql>
mysql> SELECT roll_no, name, final_result(roll_no) AS class FROM marks;
+---------+---------+--------------+
| roll_no | name    | class        |
+---------+---------+--------------+
|       1 | Prince  | Distinction  |
|       2 | Maur    | First Class  |
|       3 | Hitesh  | Fail         |
|       4 | Swapnil | Fail         |
|       5 | Pratik  | Second Class |
|       6 | Patil   | Fail         |
+---------+---------+--------------+
6 rows in set (0.00 sec)

mysql> exit
Bye
```