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// DBMSL Assignment 7


```
mysql> create table stud_marks(roll_no int primary key, name char(10), total_marks
    -> int);
Query OK, 0 rows affected (1.31 sec)
mysql> insert into stud_marks values(31,'abc',935);
Query OK, 1 row affected (0.23 sec)
```

```
mysql> insert into stud_marks values(32,'def',344);
Query OK, 1 row affected (0.17 sec)
```

```
mysql> insert into stud_marks values(33,'ghk',466);
Query OK, 1 row affected (0.10 sec)
```

```
mysql> insert into stud_marks values(34,'qwe',690);
Query OK, 1 row affected (0.14 sec)
```

```
mysql> insert into stud_marks values(35,'rty',1302);
Query OK, 1 row affected (0.13 sec)
```

```
mysql> insert into stud_marks values(36,'asd',255);
Query OK, 1 row affected (0.17 sec)
mysql> select * from stud_marks;
+---------+------+-------------+
| roll_no | name | total_marks |
+---------+------+-------------+
|    31 | abc  |      935 |
|    32 | def  |      344 |
|    33 | ghk  |      466 |
```

```
|    34 | qwe |      690 |

|    35 | rty |     1302 |

|    36 | asd |      255 |

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

mysql> create table result(roll_no int,name char(30),class char(20));

Query OK, 0 rows affected (0.91 sec)

mysql> delimiter //

mysql> create procedure proc_grade(in marks int, out class char(10))//

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> create procedure proc_grade(in marks int, out class char(10))

   -> begin

   -> if marks<=1500 and marks>=990 then set class='DIST';

   -> end if;

   -> if marks<=989 and marks>=900 then set class='FC';

   -> end if;

   -> if marks<=899 and marks>=825 then set class='HSC';

   -> end if;

   -> if marks<=824 and marks>=750 then set class='SC';

   -> end if;

   -> if marks<=749 and marks>=650 then set class='PC';

   -> end if;

   -> if marks < 650 then set class='fail';

   -> end if;

   -> end;

   -> //

Query OK, 0 rows affected (0.32 sec)

mysql> create function find_result(roll_no int) returns int deterministic

   -> begin

```
    -> declare fmarks int;

    -> declare grade char(10);

    -> declare stud_name char(10);

    -> select stud_marks.total_marks,stud_marks.name into fmarks,stud_name from stud_marks
where

    -> stud_marks.roll_no=roll_no;

    -> call proc_grade(fmarks,@grade);

    -> insert into result values(roll_no,stud_name,@grade);

    -> return roll_no;

    -> end;

    -> //
Query OK, 0 rows affected (0.13 sec)


mysql> delimiter ;

mysql> select find_result(34);

+-----------------+

| find_result(34) |

+-----------------+

|            34 |

+-----------------+

1 row in set (0.20 sec)


mysql> select * from result;

+---------+------+-------+

| roll_no | name | class |

+---------+------+-------+

|    34 | qwe  | PC   |

+---------+------+-------+

1 row in set (0.00 sec)


mysql> select find_result(32);
```

```
+-----------------+
| find_result(32) |
+-----------------+
|              32 |
+-----------------+
1 row in set (0.14 sec)


mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
+---------+------+-------+
2 rows in set (0.00 sec)


mysql> select find_result(35);
+-----------------+
| find_result(35) |
+-----------------+
|              35 |
+-----------------+
1 row in set (0.09 sec)


mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
|      35 | rty  | DIST  |
```

```
+---------+------+-------+
```
3 rows in set (0.03 sec)

mysql> select find_result(36);

```
+-----------------+
| find_result(36) |
+-----------------+
|              36 |
+-----------------+
```
1 row in set (0.19 sec)

mysql> select * from result;

```
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
|      35 | rty  | DIST  |
|      36 | asd  | fail  |
+---------+------+-------+
```
4 rows in set (0.00 sec)

```
MySQL 8.0 Command Line Client

mysql> create table stud_marks(name varchar(30),roll int,total_marks int);
Query OK, 0 rows affected (1.76 sec)

mysql> desc stud_marks;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| name        | varchar(30) | YES  |     | NULL    |       |
| roll        | int         | YES  |     | NULL    |       |
| total_marks | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
3 rows in set (0.23 sec)

mysql> drop table stud_marks;
Query OK, 0 rows affected (0.71 sec)

mysql> create table stud_marks(roll_no int primary key, name char(10), total_marks
    -> int);
Query OK, 0 rows affected (1.31 sec)

mysql> insert into stud_marks values(31,'abc',935);
Query OK, 1 row affected (0.23 sec)

mysql> insert into stud_marks values(32,'def',344);
Query OK, 1 row affected (0.17 sec)

mysql> insert into stud_marks values(33,'ghk',466);
Query OK, 1 row affected (0.10 sec)

mysql> insert into stud_marks values(34,'qwe',690);
Query OK, 1 row affected (0.14 sec)

mysql> insert into stud_marks values(35,'rty',1302);
Query OK, 1 row affected (0.13 sec)

mysql> insert into stud_marks values(36,'asd',255);
Query OK, 1 row affected (0.17 sec)

mysql> select * from stud_marks;
+---------+------+-------------+
| roll_no | name | total_marks |
+---------+------+-------------+
|      31 | abc  |         935 |
|      32 | def  |         344 |
|      33 | ghk  |         466 |
|      34 | qwe  |         690 |
|      35 | rty  |        1302 |
|      36 | asd  |         255 |
+---------+------+-------------+
6 rows in set (0.07 sec)
```

```
MySQL 8.0 Command Line Client

mysql> insert into stud_marks values(33,'ghk',466);
Query OK, 1 row affected (0.10 sec)

mysql> insert into stud_marks values(34,'qwe',690);
Query OK, 1 row affected (0.14 sec)

mysql> insert into stud_marks values(35,'rty',1302);
Query OK, 1 row affected (0.13 sec)

mysql> insert into stud_marks values(36,'asd',255);
Query OK, 1 row affected (0.17 sec)

mysql> select * from stud_marks;
+---------+------+-------------+
| roll_no | name | total_marks |
+---------+------+-------------+
|      31 | abc  |         935 |
|      32 | def  |         344 |
|      33 | ghk  |         466 |
|      34 | qwe  |         690 |
|      35 | rty  |        1302 |
|      36 | asd  |         255 |
+---------+------+-------------+
6 rows in set (0.07 sec)

mysql> create table result(roll_no int,name char(30),class char(20));
Query OK, 0 rows affected (0.91 sec)

mysql> delimiter //
mysql> create procedure proc_grade(in marks int, out class char(10))//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> create procedure proc_grade(in marks int, out class char(10))
    -> begin
    -> if marks<=1500 and marks>=990 then set class='DIST';
    -> end if;
    -> if marks<=989 and marks>=900 then set class='FC';
    -> end if;
    -> if marks<=899 and marks>=825 then set class='HSC';
    -> end if;
    -> if marks<=824 and marks>=750 then set class='SC';
    -> end if;
    -> if marks<=749 and marks>=650 then set class='PC';
    -> end if;
    -> if marks < 650 then set class='fail';
    -> end if;
    -> end;
    -> //
Query OK, 0 rows affected (0.32 sec)
```

```
MySQL 8.0 Command Line Client

mysql> create function find_result(roll_no int) returns int deterministic
    -> begin
    -> declare fmarks int;
    -> declare grade char(10);
    -> declare stud_name char(10);
    -> select stud_marks.total_marks,stud_marks.name into fmarks,stud_name from stud_marks where
    -> stud_marks.roll_no=roll_no;
    -> call proc_grade(fmarks,@grade);
    -> insert into result values(roll_no,stud_name,@grade);
    -> return roll_no;
    -> end;
    -> //
Query OK, 0 rows affected (0.13 sec)

mysql> delimiter ;
mysql> select find_result(104);
+------------------+
| find_result(104) |
+------------------+
|              104 |
+------------------+
1 row in set (0.17 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|     104 | NULL | NULL  |
+---------+------+-------+
1 row in set (0.01 sec)

mysql> truncate table result;
Query OK, 0 rows affected (1.79 sec)

mysql> select find_result(34);
+-----------------+
| find_result(34) |
+-----------------+
|              34 |
+-----------------+
1 row in set (0.20 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
+---------+------+-------+
1 row in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
+---------+------+-------+
1 row in set (0.00 sec)

mysql> select find_result(32);
+-----------------+
| find_result(32) |
+-----------------+
|              32 |
+-----------------+
1 row in set (0.14 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
+---------+------+-------+
2 rows in set (0.00 sec)

mysql> select find_result(35);
+-----------------+
| find_result(35) |
+-----------------+
|              35 |
+-----------------+
1 row in set (0.09 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
|      35 | rty  | DIST  |
+---------+------+-------+
3 rows in set (0.03 sec)

mysql> select find_result(36);
+-----------------+
| find_result(36) |
+-----------------+
|              36 |
+-----------------+
```

```
2 rows in set (0.00 sec)

mysql> select find_result(35);
+-----------------+
| find_result(35) |
+-----------------+
|              35 |
+-----------------+
1 row in set (0.09 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
|      35 | rty  | DIST  |
+---------+------+-------+
3 rows in set (0.03 sec)

mysql> select find_result(36);
+-----------------+
| find_result(36) |
+-----------------+
|              36 |
+-----------------+
1 row in set (0.19 sec)

mysql> select * from result;
+---------+------+-------+
| roll_no | name | class |
+---------+------+-------+
|      34 | qwe  | PC    |
|      32 | def  | fail  |
|      35 | rty  | DIST  |
|      36 | asd  | fail  |
+---------+------+-------+
4 rows in set (0.00 sec)

mysql>
```