Name: Umang Kumar

Roll Number: 7358

mysql> create database stud;

Query OK, 1 row affected (0.00 sec)

mysql> use stud;

Database changed

mysql> create table stud\_marks(roll\_no integer primary key, name varchar(30), total\_marks integer);

Query OK, 0 rows affected (0.25 sec)

mysql> create table result(roll\_no integer, class varchar(20), constraint xyz foreign key(roll\_no) references stud\_marks(roll\_no));

Query OK, 0 rows affected (0.30 sec)

mysql> desc result;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int(11) | YES | MUL | NULL | |

| class | varchar(20) | YES | | NULL | |

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

2 rows in set (0.01 sec)

mysql> insert into stud\_marks value(1, "Charcha", 100);

Query OK, 1 row affected (0.04 sec)

mysql> insert into stud\_marks values(2, "Amatya", 95), (3, "Shivanshu", 86), (4, "Rahul", 91), (5, "Gautam", 69), (6, "Gunturi", 78);

Query OK, 5 rows affected (0.05 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from stud\_marks;

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

| roll\_no | name | total\_marks |

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

| 1 | Charcha | 100 |

| 2 | Amatya | 95 |

| 3 | Shivanshu | 86 |

| 4 | Rahul | 91 |

| 5 | Gautam | 69 |

| 6 | Gunturi | 78 |

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

6 rows in set (0.00 sec)

mysql> update stud\_marks set total\_marks = total\_marks + 950;

Query OK, 6 rows affected (0.06 sec)

Rows matched: 6 Changed: 6 Warnings: 0

mysql> select \* from stud\_marks;

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

| roll\_no | name | total\_marks |

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

| 1 | Charcha | 1050 |

| 2 | Amatya | 1045 |

| 3 | Shivanshu | 1036 |

| 4 | Rahul | 1041 |

| 5 | Gautam | 1019 |

| 6 | Gunturi | 1028 |

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

6 rows in set (0.00 sec)

mysql> update stud\_marks set total\_marks = 950 where roll\_no = 5;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update stud\_marks set total\_marks = 850 where roll\_no = 2;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from stud\_marks;

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

| roll\_no | name | total\_marks |

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

| 1 | Charcha | 1050 |

| 2 | Amatya | 850 |

| 3 | Shivanshu | 1036 |

| 4 | Rahul | 1041 |

| 5 | Gautam | 950 |

| 6 | Gunturi | 1028 |

| 7 | Tushar | 900 |

| 8 | Atul | 860 |

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

8 rows in set (0.00 sec)

mysql> create table result(roll\_no integer, class varchar(20), constraint xyz foreign key(roll\_no) references stud\_marks(roll\_no));

Query OK, 0 rows affected (0.28 sec)

mysql> delimiter //

mysql> create procedure credit (in roll integer)

-> begin

-> declare m integer;

-> declare c varchar(30);

-> select total\_marks into m from stud\_marks where roll\_no=roll;

-> if m>=990 and m<=1500 then set c = 'Distinction';

-> insert into result values(roll, c);

-> end if;

-> if m>=900 and m<=989 then set c = 'First Class';

-> insert into result values(roll, c);

-> end if;

-> if m>=825 and m<=899 then set c = 'Higher Second Class';

-> insert into result values(roll, c);

-> end if;

-> end //

Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;

mysql> call credit(1);

Query OK, 1 row affected (0.04 sec)

mysql> select 8 from result;

+---+

| 8 |

+---+

| 8 |

+---+

1 row in set (0.00 sec)

mysql> select \* from result;

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

| roll\_no | class |

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

| 1 | Distinction |

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

1 row in set (0.00 sec)

mysql> call credit(2);

Query OK, 1 row affected (0.04 sec)

mysql> call credit(3);

Query OK, 1 row affected (0.03 sec)

mysql> call credit(4);

Query OK, 1 row affected (0.07 sec)

mysql> call credit(5);

Query OK, 1 row affected (0.04 sec)

mysql> call credit(6);

Query OK, 1 row affected (0.04 sec)

mysql> call credit(7);

Query OK, 1 row affected (0.04 sec)

mysql> call credit(8);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from result;

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

| roll\_no | class |

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

| 1 | Distinction |

| 2 | Higher Second Class |

| 3 | Distinction |

| 4 | Distinction |

| 5 | First Class |

| 6 | Distinction |

| 7 | First Class |

| 8 | Higher Second Class |

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

8 rows in set (0.00 sec)

mysql> create function disp\_grade2(roll1 integer) returns varchar(30) begin declare m1 integer; declare c1 varchar(30); select total\_marks into m1 from stud\_marks where roll\_no=roll1; if m1>=990 and m1<= 1500 then set c1='Distinction'; end if; if m1>=900 and m1<=989 then set c1='First Class'; end if; if m1>=825 and m1<=899 then set c1='Higher Second Class'; end if; return c1; end//

Query OK, 0 rows affected (0.00 sec)

mysql> select disp\_grade2(1)//

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

| disp\_grade2(1) |

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

| Distinction |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(2)//

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

| disp\_grade2(2) |

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

| Higher Second Class |

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

1 row in set (0.00 sec)

mysql> select \* from result;

-> //

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

| roll\_no | class |

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

| 1 | Distinction |

| 2 | Higher Second Class |

| 3 | Distinction |

| 4 | Distinction |

| 5 | First Class |

| 6 | Distinction |

| 7 | First Class |

| 8 | Higher Second Class |

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

8 rows in set (0.00 sec)

mysql> select disp\_grade2(3)//

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

| disp\_grade2(3) |

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

| Distinction |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(4)//

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

| disp\_grade2(4) |

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

| Distinction |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(5)//

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

| disp\_grade2(5) |

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

| First Class |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(6)//

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

| disp\_grade2(6) |

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

| Distinction |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(7)//

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

| disp\_grade2(7) |

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

| First Class |

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

1 row in set (0.00 sec)

mysql> select disp\_grade2(8)//

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

| disp\_grade2(8) |

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

| Higher Second Class |

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

1 row in set (0.00 sec)

mysql> select \* from result;

-> //

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

| roll\_no | class |

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

| 1 | Distinction |

| 2 | Higher Second Class |

| 3 | Distinction |

| 4 | Distinction |

| 5 | First Class |

| 6 | Distinction |

| 7 | First Class |

| 8 | Higher Second Class |

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

8 rows in set (0.00 sec)

mysql> select \* from stud\_marks//

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

| roll\_no | name | total\_marks |

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

| 1 | Charcha | 1050 |

| 2 | Amatya | 850 |

| 3 | Shivanshu | 1036 |

| 4 | Rahul | 1041 |

| 5 | Gautam | 950 |

| 6 | Gunturi | 1028 |

| 7 | Tushar | 900 |

| 8 | Atul | 860 |

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

8 rows in set (0.00 sec)

mysql> quit