**NAME: AKHILESH RAWAT**

**ROLL NO:7307**

**ASSIGNMENT –5**

Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scored by students in examination is <=1500 and marks>=990 then student will be placed in distinction category if marks scored are between 989 and 900 category is first class, if marks 899 and 825 category is Higher Second Class

Write a PL/SQL block to use procedure created with above requirement.

Stud\_Marks(name, total\_marks)

Result(Roll,Name, Class)

mysql> create database assig5;

Query OK, 1 row affected (0.01 sec)

mysql> use assig5;

Database changed

mysql> create table marks(roll\_no int,name varchar(20),total\_marks varchar(20));

Query OK, 0 rows affected (0.04 sec)

mysql> create table result(roll\_no int,name varchar(20),class varchar(20));

Query OK, 0 rows affected (0.05 sec)

mysql> insert into marks values(1,"SHEETAL",'1400'),(2,"AKHILESH",'980'),(3,"NEERAJ","880"),(4,"ashley","820"),(5,"amatya","640");

Query OK, 5 rows affected (0.02 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> delimiter //

mysql> create procedure proc\_result(in marks int,out class char(20))

-> begin

-> if(marks<1500 && marks>990)

-> then

-> set class="Distinction";

-> end if ;

-> if(marks<989 && marks>890)

-> then set class ="First Class";

-> end if;

-> if(marks<824 && marks>750)

-> then set class ="Second Class";

-> end if;

-> if(marks<889 && marks>825)

-> then set class="Higher Second Class";

-> end if;

-> if(marks<749 && marks>650)

-> then set class ="Passed";

-> end if;

-> if(marks<649)

-> then set class ="Fail";

-> end if;

-> end;

-> //

Query OK, 0 rows affected, 5 warnings (0.02 sec)

mysql> create procedure final\_result(in roll int)

-> begin

-> declare fmarks integer;

-> declare grade varchar(20);

-> declare stud\_name varchar(20);

-> select total\_marks, name into fmarks,stud\_name from marks where roll\_no=roll;

-> call proc\_result(fmarks,@grade);

-> insert into result values(roll,stud\_name,@grade);

-> end;

-> //

Query OK, 0 rows affected (0.01 sec)

mysql> delimiter ;

mysql> select final\_result3(2);

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

| final\_result3(2) |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> select final\_result3(3);

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

| final\_result3(3) |

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

| 3 |

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

1 row in set (0.01 sec)

mysql> select final\_result3(4);

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

| final\_result3(4) |

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

| 4 |

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

1 row in set (0.02 sec)

mysql> select final\_result3(5);

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

| final\_result3(5) |

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

| 5 |

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

1 row in set (0.01 sec)

mysql> select \* from result;

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

| roll\_no | name | class |

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

| 2 | AKHILESH | First Class |

| 3 | NEERAJ | Higher Second Class |

| 4 | ashley | Second Class |

| 5 | amatya | Fail |

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

4 rows in set (0.00 sec)

mysql> select \* from marks;

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

| roll\_no | name | total\_marks |

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

| 1 | SHEETAL | 1400 |

| 2 | AKHILESH | 980 |

| 3 | NEERAJ | 880 |

| 4 | ashley | 820 |

| 5 | amatya | 640 |

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

5 rows in set (0.00 sec)

mysql>