**Group A: Lab Assignment No.7**

**TITLE: PL/SQL Stored Procedure and Stored Function.**

**Write a Stored Procedure namely proc\_Grade for the categorization of**

**student. If marks scored by students in examination is &lt;=1500 and**

**marks&gt;=990 then student will be placed in distinction category if marks**

**scored are between 989 and900 category is first class, if marks 899 and**

**825 category is Higher Second Class.**

**Write a PL/SQL block for using procedure created with above**

**requirement.**

**Stud\_Marks(name, total\_marks)**

**Result(Roll,Name, Class)**

**Frame the separate problem statement for writing PL/SQL Stored**

**Procedure and function, inline with above statement. The problem**

**statement should clearly state the requirements.**

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

Query OK, 0 rows affected (0.02 sec)

mysql> insert into marks values('1','Abhi','1400');

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values('2','piyush','980');

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values('3','hitesh','880');

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values('4','ashley','820');

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values('5','partik','740');

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values('6','patil','640');

Query OK, 1 row affected (0.01 sec)

mysql> delimiter //

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

-> char(20))

-> begin

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

-> then

-> set class='Distincton';

-> end if;

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

-> then

-> set class='First Class';

-> end if;

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

-> then

-> set class='Higher Second Class';

-> end if;

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

-> then

-> set class='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 (0.01 sec)

mysql> create function final\_result4(R1 int)

-> returns int

-> READS SQL DATA

-> DETERMINISTIC

-> begin

-> declare fmarks integer;

-> declare grade varchar(20);

-> declare stud\_name varchar(20);

-> select marks.total\_marks,marks.name into

-> fmarks,stud\_name from marks where marks.roll\_no=R1;

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

-> insert into result values(R1,stud\_name,@grade);

-> return R1;

-> end;

-> //

Query OK, 0 rows affected (0.01 sec)

mysql> select final\_result4(2);

-> //

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

| final\_result4(2) |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> select final\_result4(3);//

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

| final\_result4(3) |

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

| 3 |

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

1 row in set (0.01 sec)

mysql> select final\_result4(4);//

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

| final\_result4(4) |

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

| 4 |

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

1 row in set (0.01 sec)

mysql> select final\_result4(5);//

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

| final\_result4(5) |

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

| 5 |

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

1 row in set (0.00 sec)

mysql> select \* from result;

-> //

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

| roll\_no | name | class |

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

| 2 | piyush | First Class |

| 3 | hitesh | Higher Second Class |

| 4 | ashley | Second Class |

| 5 | partik | Passed |

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

4 rows in set (0.00 sec)