04/09/2020 **ASSIGNMENT 7** SANJAY RAWAT(7341)

**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 <=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 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> show databases;

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

| Database |

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

| assgn3 |

| assgn4 |

| assgn5 |

| assgn6 |

| assgn7 |

| assgn8 |

| information\_schema |

| mysql |

| performance\_schema |

| person |

| sakila |

| southwind |

| sys |

| test |

| world |

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

15 rows in set (0.07 sec)

mysql> use assgn7;

Database changed

mysql> CREATE TABLE STUDENT\_MARKS(

-> Rollno int PRIMARY KEY

-> ,

-> NAME varchar(20),

-> Total\_Marks int

-> );

Query OK, 0 rows affected (0.67 sec)

mysql> show tables;

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

| Tables\_in\_assgn7 |

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

| student\_marks |

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

1 row in set (0.00 sec)

mysql> delimiter #

mysql> create procedure insertdata(IN rollno int, In Name varchar(20),IN total\_marks int)

-> BEGIN

-> Insert into Student\_Marks values (rollno,Name,total\_marks);

-> END

-> #

Query OK, 0 rows affected (0.14 sec)

mysql> call insertdata(1,'Sanjay',1000) #

Query OK, 1 row affected (0.10 sec)

mysql> call insertdata(2,'Atul',950) #

Query OK, 1 row affected (0.13 sec)

mysql> call insertdata(3,'Anish',850) #

Query OK, 1 row affected (0.08 sec)

mysql> call insertdata(4,'Arun',600) #

Query OK, 1 row affected (0.12 sec)

mysql> CREATE FUNCTION Grade(total\_marks int)RETURNS varchar(20) DETERMINISTIC

-> BEGIN

-> DECLARE c varchar(20);

-> if total\_marks >= 990 and total\_marks <=1500 then

-> set c = "DISTICTION";

-> elseif total\_marks >= 900 and total\_marks <=989 then

-> set c="First";

-> elseif total\_marks >= 825 and total\_marks <=899 then

-> set c="Second";

-> else

-> set c= "Fail";

-> end if;

-> return c;

-> end

-> #

Query OK, 0 rows affected (0.16 sec)

mysql> select rollno,Name,total\_marks,Grade(total\_marks) as 'GRADE' from student\_marks#

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

| rollno | Name | total\_marks | GRADE |

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

| 1 | Sanjay | 1000 | DISTICTION |

| 2 | Atul | 950 | First |

| 3 | Anish | 850 | Second |

| 4 | Arun | 600 | Fail |

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

4 rows in set (0.00 sec)

mysql>