Assignment 5

Named PL/SQL Block: PL/SQL Stored Procedure and Stored Function. Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scoredby 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) Note: Instructor will frame the problem statement for writing stored procedure and Function in line with above statement.

mysql> use aman;

Database changed

Query OK, 0 rows affected, 1 warning (0.00 sec)

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, 'Aman', '1400');

Query OK, 1 row affected (0.03 sec)

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

Query OK, 1 row affected (0.01 sec)

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

Query OK, 1 row affected (0.01 sec)

mysql> insert into marks values(4, 'Rajeev', '500');

Query OK, 1 row affected (0.01 sec)

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

Query OK, 1 row affected (0.02 sec)

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

Query OK, 1 row affected (0.00 sec)

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<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 (0.04 sec)

mysql> delimiter //

mysql> create function fresult(R1 int)

-> returns int

-> 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 (0.04 sec)

mysql> select fresult(2);

-> //

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

| fresult(2) |

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

| 2 |

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

1 row in set (0.02 sec)

mysql> select fresult(3);

-> //

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

| fresult(3) |

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

| 3 |

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

1 row in set (0.01 sec)

mysql> select fresult(4);//

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

| fresult(4) |

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

| 4 |

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

1 row in set (0.01 sec)

mysql> select fresult(5);//

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

| fresult(5) |

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

| 5 |

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

1 row in set (0.01 sec)

mysql> select \* from result;

-> //

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

| roll\_no | name | class |

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

| 2 | Arman | First Class |

| 3 | Raju | Higher Second Class |

| 4 | Rajeev | Fail |

| 5 | akshay | Passed |

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

4 rows in set (0.00 sec)

mysql>