Rollno: 31413

Assignment 5

Aim: 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 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/SQLblock to use procedure created with above requirement. Stud_Marks(name, total_marks) Result(Roll,Name, Class)

- 1) create table Student(rollno int primary key not null, name varchar(20), marks int);
- 2) insert into Student values(1,"Siddhi",990),(2,"Anushree",1300),(3,"Dhanashree",950), (4,"jon",720);
- 3) create table result(rollno int,name varchar(20), class varchar(20));

```
mysql> use te31413 db;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> create table Student(rollno int primary key not null, name varchar(20), marks int);
Query OK, 0 rows affected (0.15 sec)
mysql> insert into Student values(1,"Siddhi",990),(2,"Anushree",1300),(3,"Dhanashree",950),(4,"jon",720);
Query OK, 4 rows affected (0.03 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> select * from Student;
 rollno | name
                         | marks |
       1 | Siddhi
                             990
       2 | Anushree
3 | Dhanashree
                            1300
                             950
       4 | jon
                              720
 rows in set (0.00 sec)
mysql> create table result(rollno int,name varchar, class varchar(20));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your Maria
 at line 1
 ysql> create table result(rollno int,name varchar(20), class varchar(20));
Query OK, 0 rows affected (0.17 sec)
```

Display the content of Student

```
mvsql> select * from Student;
 rollno | name
                        marks
       1 | Siddhi
                           990
       2 | Anushree
                          1300
       3 | Dhanashree
                           950
       4 | jon
                           720
                           350
       5 | shree
       6 | shreeraj
                            -4
 rows in set (0.00 sec)
```

```
Code:
Function:
delimiter //
       create function assign(stud_marks int)
       returns varchar(20)
       begin
              declare result varchar(20);
              case
                     when stud marks<=1500 and stud marks>=990
                             then set result= "Destinction";
                     when stud marks<=989 and stud marks>=900
                             then set result="First class";
                     when stud_marks<=899 and stud_marks>=825
                             then set result= "Higher second class";
                     else
                             set result="No grade";
              end case;
              return result;
       end
       //
delimiter;
Procedure:
delimiter //
create procedure calClass(IN rollno int)
pro_label:begin
       declare grade varchar(20);
       declare stud_name varchar(20);
       declare stud_marks int;
          declare exit handler for sqlexception
  begin
    select 'An error occurred while processing the request' as error_message;
  end:
  select name,marks into stud_name,stud_marks from Student where Student.rollno=rollno;
 if stud marks < 0 or stud marks > 1500 then
    select 'Invalid marks value. Marks must be between 0 and 1500.' as error_message;
    leave pro_label;
  end if;
       set grade=assign(stud marks);
       insert into result values(rollno,stud_name,grade);
       //
end
delimiter;
```