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## **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 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)

create table Student1(rollno int primary key not null, name varchar(20), marks int);

```
insert into Student1 values(1,"Sid",999),(2,"Anushree",1350),(3,"Dhanashree",945),(4,"Shreeja",730),(7,"Harsh",-5);
```

create table result(rollno int,name varchar(20), class varchar(20));

## **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;
select name, marks into stud name, stud marks from Student1 where Student1.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 //
```

## **Function:**

```
delimiter //
create function assign(stud marks int)
       returns varchar(20)
       begin
       declare result varchar(20);
       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;
```