Akshay S. Chavan TEB-15

**ASSIGNMENT NO-07**

Create a database schema with the following table

Stud-Marks(Roll, name, total\_marks)

Result(Roll,Name,Class).

1. Write a PL/SQL procedure to accept input from user to enter records into Stud\_Marks table.

2. Write a PLSQL function to calculate Class of the student and to enter into the Result table if the total\_Marks is passed as a argument.Use the following rules to determine the class of the student.

a. If total\_marks <=1500 and marks>=990 then distinction

b. If marks between 900 and 989 then first class

c. If marks between 825 and 899 then Higher Second class

ass6=# create database ass7;

CREATE DATABASE

ass6=# \c ass7;

You are now connected to database "ass7" as user "postgres".

ass7=# create table Stud\_Marks(Roll int primary key not null, Name varchar(30),total\_marks int);

CREATE TABLE

ass7=# create table Result(Rollno int references Stud\_Marks(Roll), Name varchar(30),Class varchar(15));

CREATE TABLE

CREATE or REPLACE function accept(Roll integer,Name varchar,total\_marks int) returns void as

$$

BEGIN

insert into Stud\_Marks values(Roll,Name,total\_marks);

raise notice 'Record Inserted Succssfully!!';

END

$$ language plpgsql;

CREATE OR REPLACE FUNCTION get\_class() returns void as

$$

DECLARE

temp\_row Stud\_Marks%rowtype;

result\_row Result%rowtype;

stud\_roll integer;

result\_roll integer;

Name varchar;

marks NUMERIC;

class varchar;

flag integer;

count1 integer;

count2 integer;

BEGIN

count2:=1;

FOR temp\_row IN select \* from Stud\_Marks ORDER BY stud\_roll

LOOP

select temp\_row.Roll,temp\_row.Name,temp\_row.total\_marks into stud\_roll,Name,marks;

FOR result\_row IN select \* from Result ORDER BY result\_roll

LOOP

IF marks<=1500 AND marks>= 990 THEN

class:='Distinction';

ELSIF marks<=989 AND marks >= 900 THEN

class:='First Class';

ELSIF marks<=899 AND marks >= 825 THEN

class:='Second Class';

ELSE

class:='Fail';

END IF;

select result\_row.Rollno into result\_roll;

IF result\_roll = stud\_roll THEN

flag:=0;

EXIT;

ELSE

flag:=1;

CONTINUE;

END IF;

END LOOP;

IF flag<>0 THEN

insert into Result values(stud\_roll,Name,class);

END IF;

END LOOP;

END

$$ language plpgsql;

**OUTPUT:**

ass7=# select get\_class();

get\_class

-----------

(1 row)

ass7=# select \* from Result;

rollno | name | class

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

1 | Akshay | First Class

2 | Ashutosh | First Class

3 | Renita | Fail

4 | Bhavika | Fail

5 | Aabid | Distinction

(5 rows)