## **PES UNIVERSITY**

## DBMS LAB WEEK 09 & 10

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Section: G Section

## **Problem Statement1:**

Q. Create an employee table which contains employee details and the department he works for.

```
company=# create table employee(name varchar(30),ssn varchar(20) not null,gender char,dname varchar(20),primary key(ssn));
CREATE TABLE
company=# create table employee(dname varchar(20),times int default 0,primary key(dname));
ERROR: relation "employee" already exists
company=# create table department(dname varchar(20),times int default 0,primary key(dname));
CREATE TABLE
company=# alter table employee add constraint fkey_dname foreign key(dname) references department(dname);
ALTER TABLE
```

Q. Create trigger function for insertion.

```
company=# create function f1()
company-# returns trigger
company-# language plpgsql as
company-# $$
company$# begin
company$# update department set times=times+1 where new.dname=department.dname;
company$# return new;
company$# end;
company$# $$;
CREATE FUNCTION
company=# create trigger f11
company-# after insert on employee
company-# for each row
company-# execute procedure f1();
CREATE TRIGGER
company=# insert into department values('research',0);
INSERT 0 1
company=# insert inot department values('data science',0);
ERROR: syntax error at or near "inot"
LINE 1: insert inot department values('data science',0);
company=# insert into department values('data science',0);
INSERT 0 1
company=# select * from department;
   dname | times
research
                    0
data science
                    0
2 rows)
```

Q. Working of trigger function after insertion of value.

```
INSERT 0 1
company=# insert into employee values('pk','145','m','data science');
company=# select * from employee;
name | ssn | gender | dname
      | 123 | m | research
ram
                    research
shyam | 124 | m
      | 125 | f
                    research
sita
       126 | m
sk
                    | data science
      | 145 | m | data science
pk
(5 rows)
company=# select * from department;
   dname | times
research
                  3
data science
                 2
(2 rows)
```

Q. Working of trigger function after deletion of value.

```
company=# create function f2()
company-# returns trigger
company-# language plpgsql
company-# as $$
company$# begin
company$# update department set times=times-1 where old.dname=department.dname;
company$# return old;
company$# end;
company$# $$;
CREATE FUNCTION
company=# create trigger f22 before delete
company-# on employee for each row
company-# execute procedure f2();
CREATE TRIGGER
company=# delete from employee where ssn='123';
DELETE 1
company=# delete from employee where ssn='126';
company=# select * from department;
   dname times
research
                    2
 data science
                   1
(2 rows)
```

## **Problem Statement 2:**

Q.Create table of items ordered and summary of table.

```
company=# create table order_item(name varchar(20) not null,quantity int,price int,id varchar(10) not null,primary key(id));
CREATE TABLE
company=# create table summary_table(numberItems int,totalPrice int);
CREATE TABLE
company=# drop table summary table;
```

Q.Create trigger function for update.

```
company=# create function f11()
company-# returns trigger language plpgsql
company-# as $$
company$# begin
company$# update t2 set item count=item count+1,price=price+new.quantity*new.price
company$# return new;
company$# end;
company$# $$;
CREATE FUNCTION
company=# create trigger f111
company-# after insert
company-# on t1
company-# for each row
company-# execute procedure f11();
CREATE TRIGGER
company=# insert into t1 values('mango'.3.200):
```

Q.check trigger function is working or not.