



PES UNIVERSITY
(Established under Karnataka Act No.16 of 2013)
100-ft Ring Road, BSK III Stage, Bangalore – 560
085 Department of Computer Science &
Engineering Minor DBMS Lab Session: Jan - May
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Lab – 8
Views and Triggers

Step 1: Create the following tables with the schema as below and insert 10 records to it.

Employee: Name Varchar(30),
SSN
integer,
Salary
integer,
Dno
integer,
Superssn
varchar(10); SSN
is a primary key
Dno is a foreign key referencing Department table,

Department: Dname varchar(20),
Dno integer,
Totalsal integer is a derived attribute,
Mgrssn varchar(10);
Dno is a primary key

Step 2: Create a view with the name EMP_VIEW fetching the columns Name, salary from employee and Dname from department.

Step 3: Get to know what is the command to see the list of available views in the database?

Step 4: Query the view to answer the following queries

A) Select all the employees who belongs to a particular department and whose salary is > 10000

B) Write a query to group by the department and get the total salary of each department.

Step 5: Create a row level trigger named EMP_TGR for the table employee. Whenever a new insert happens, then the trigger should be fired. The total salary in department table should be recalculated accordingly.

Solution for Step 5:

//To create a trigger function

create or replace function test()

returns trigger as

\$BODY\$ begin

update DEPARTMENT SET TOTALSAL = TOTALSAL + new.SALARY

where dno = new.dno;

return null;

end;

\$BODY\$ language

'plpgsql';

//To bind the row level trigger to a table

CREATE TRIGGER EMP_TGR

AFTER INSERT ON

EMPLOYEE FOR

EACH ROW

execute procedure test();