**DBMS LAB**

**ASSIGNMENT-11**

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**20198023**

**IT 5 B2**

**1. Write a row trigger that copies the rows of 'Salary' table in a new table 'Salary\_new' which has same schema. The trigger executes in case of updation of 'Salary' table.**

create table salary(Emp\_No number,Basic number,HRA number,DA number,Total\_Dedution number,Net\_Salary number,Gross\_Salary number);

insert into salary values(2,15000,4000,1000,5000,15000,20000);

insert into salary values(1,31000,8000,1000,5000,35000,40000);

insert into salary values(3,14000,4000,1000,5000,15000,19000);

insert into salary values(4,14000,4000,1000,5000,15000,19000);

insert into salary values(5,13000,4000,1000,5000,15000,18000);

create table salary\_new(Emp\_no number,Basic number,HRA number,DA number,Total\_Dedution number,Net\_Salary number,Gross\_Salary number);

create or replace trigger salary\_change before update on salary

for each row

begin

insert into salary\_new values(:OLD.Emp\_no, :OLD.Basic, :OLD.HRA, :OLD.DA , :OLD.Total\_Dedution, :OLD.Net\_Salary, :OLD.Gross\_Salary);

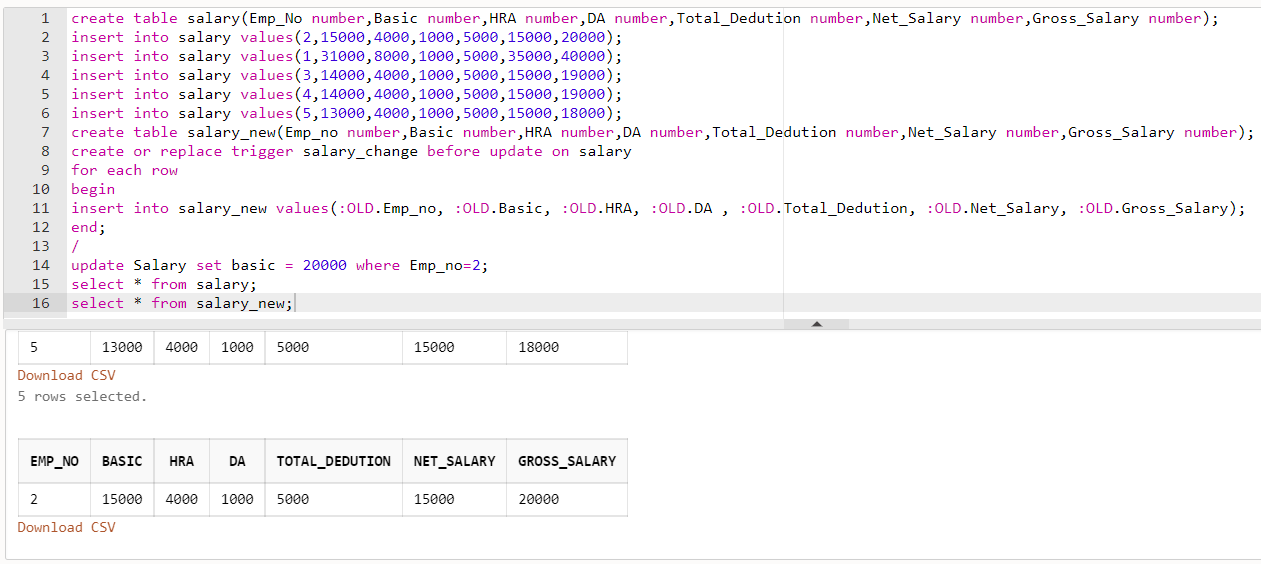
end;

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update Salary set basic = 20000 where Emp\_no=2;

select \* from salary;

select \* from salary\_new;



**2. A Factory maintains records of Stock-On-Hand and material requirements in the Item\_Master table and Item\_Requisite table respectively. Write the code for trigger, which on deletion of any row in Item\_Requisite, updates the Bal\_Stock in the Item\_Master table for that requisite. If the value in Bal\_Stock becomes negative, the update operation should not be allowed.**

create table item\_master(item\_id number,description varchar(20),bal\_stock number);

create table item\_requisite(item\_id number,dept\_code varchar(20),quantity number);

insert into item\_master values(101,'keyboard',80);

insert into item\_master values(102,'lathe\_machine',70);

insert into item\_master values(103,'compass',100);

insert into item\_master values(104,'beaker',90);

insert into item\_master values(105,'ammeter',60);

insert into item\_requisite values(101,'keyboard',30);

insert into item\_requisite values(102,'mech',20);

insert into item\_requisite values(103,'civil',25);

insert into item\_requisite values(104,'chem',35);

insert into item\_requisite values(105,'elect',80);

create or replace trigger change\_requisite before delete on item\_requisite

for each row

DECLARE

txt EXCEPTION;

bal\_stock number;

begin

select bal\_stock into bal\_stock from item\_master where item\_id=:OLD.item\_id;

if(:old.quantity > bal\_stock)

then

RAISE\_APPLICATION\_ERROR(-20000,'Invalid operation');

else

update item\_master set bal\_stock = bal\_stock - :OLD.quantity where item\_id = :OLD.item\_id;

end if;

end;

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delete from item\_requisite where item\_id=104;

select \* from item\_master;

select \* from item\_requisite;

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**3. An HR system has an 'emp' table that holds a row for each employee in the company. Each record in the table has a manager field that holds name of the employee's manager. Write a trigger so that when a manager’s record is deleted from the emp table, the mgr field of the employees working under that manager is set to NULL.**

create table emp(emp\_id number,emp\_name varchar(20),mgr varchar(20));

insert into emp values(1001,'Anna',Null);

insert into emp values(1002,'Anthony','Anna');

insert into emp values(1003,'Andy','Sachin');

insert into emp values(1004,'Sam','Anna');

insert into emp values(1005,'Tom','Sam');

insert into emp values(1006,'Ricky','Sam');

insert into emp values(1007,'Sachin','Anna');

insert into emp values(1008,'Amy','Anthony');

insert into emp values(1009,'Cristina','Anna');

insert into emp values(1010,'Jennifer','Anthony');

create or replace trigger deleted\_emp before delete on emp

for each row

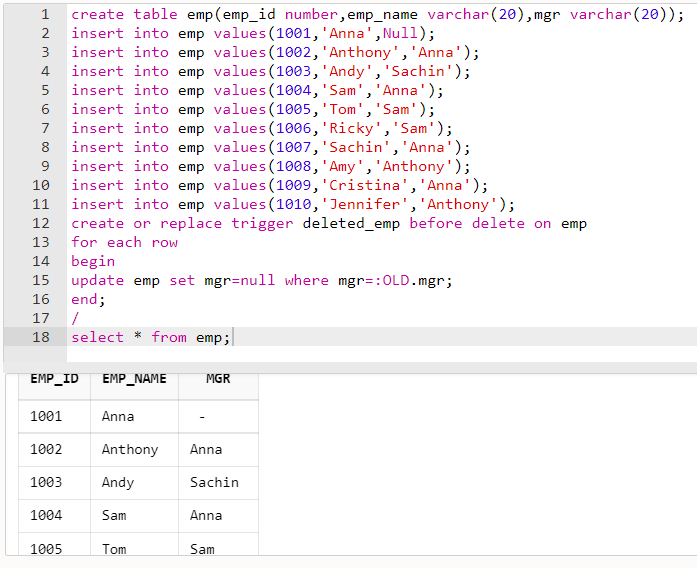
begin

update emp set mgr=null where mgr=:OLD.mgr;

end;

/

select \* from emp;

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