**TASK 1**

//create database

CREATE DATABASE assignment;

// CREATE TABLE EMPLOYEE

CREATE TABLE employee(em\_id int(20) AUTO\_INCREMENT PRIMARY KEY , first\_name varchar(50) not null , last\_name varchar(50) not null , salary int(50) not null ,

joining\_date datetime not null , department varchar(50) not null);

//INSERT EMPLOYEE DATA

INSERT INTO employee(em\_id , first\_name , last\_name ,salary , joining\_date, department ) VALUES ('1', 'JOHN' , 'ABRAHAM' ,'1000000', '2013-01-01' , 'BANKING');

INSERT INTO employee(em\_id , first\_name , last\_name ,salary , joining\_date, department ) VALUES ('2' , 'MICHAEL' , 'CLERK',

'800000' , '2013-01-01', 'INSURANCE' ) , ('3' ,'ROY' , 'THOMAS' , '700000' ,'2013-02-01', 'BANKING' ) ;

CREATE PROCEDURE INSERT\_employee(

em\_id int(20),

first\_name varchar(50),

last\_name varchar(50) ,

salary int(50),

joining\_date datetime ,

department varchar(50))

BEGIN

INSERT INTO employee(em\_id , first\_name , last\_name , salary , joining\_date , department ) VALUES

(em\_id , first\_name , last\_name , salary , joining\_date , department );

END

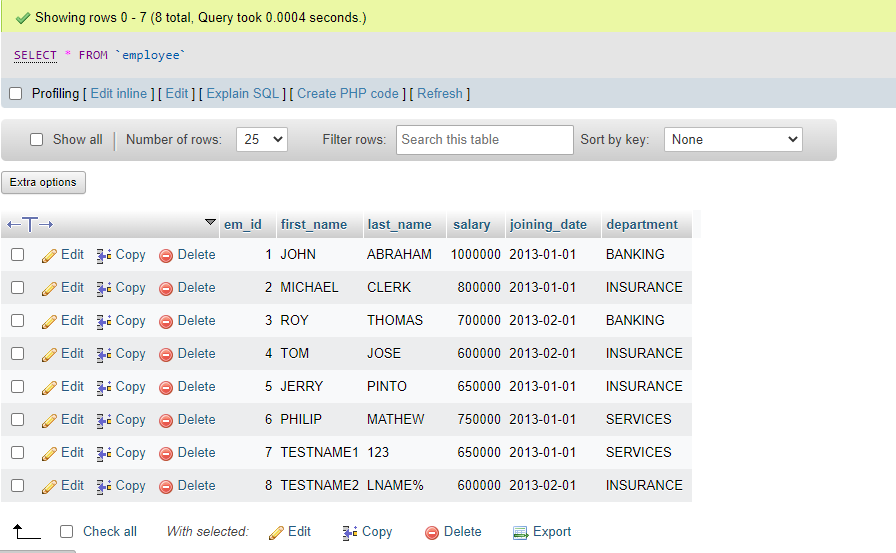
CALL INSERT\_employee( '4', 'TOM' , 'JOSE', '600000', '2013-02-01', 'INSURANCE') ;

CALL INSERT\_employee( '5', 'JERRY' , 'PINTO', '650000', '2013-01-01', 'INSURANCE');

CALL INSERT\_employee( '6', 'PHILIP' , 'MATHEW', '750000', '2013-01-01', 'SERVICES');

CALL INSERT\_employee( '7', 'TESTNAME1' , '123', '650000', '2013-01-01', 'SERVICES');

CALL INSERT\_employee( '8', 'TESTNAME2' , 'LNAME%', '600000', '2013-02-01', 'INSURANCE')



//CREATE TABLE INCENTIVES

CREATE TABLE incentives(incentive\_id int(20) PRIMARY KEY AUTO\_INCREMENT , employee\_ref\_id int(20) NOT null , incentive\_date date not null ,

incentive\_amt int(50) NOT null, FOREIGN KEY (employee\_ref\_id) REFERENCES employee(em\_id));

//INSERT INCENTIVES DATA

CREATE PROCEDURE insert\_incentives( IN incentive\_id int(20), IN employee\_ref\_id int(20), IN incentive\_date date, IN incentive\_amt int(50) )

BEGIN

INSERT INTO incentives(incentive\_id,employee\_ref\_id,incentive\_date,incentive\_amt)values(incentive\_id,employee\_ref\_id,incentive\_date,incentive\_amt);

END//

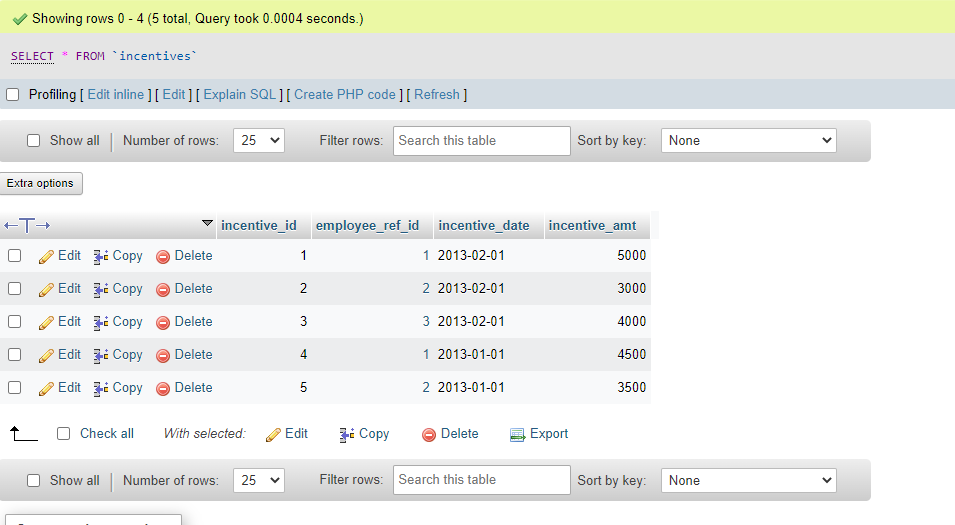
CALL INSERT\_incentives( '1', '1' , '2013-02-01','5000');

CALL INSERT\_incentives( '2', '2' , '2013-02-01','3000');

CALL INSERT\_incentives( '3', '3' , '2013-02-01','4000');

CALL INSERT\_incentives( '4', '1' , '2013-01-01','4500');

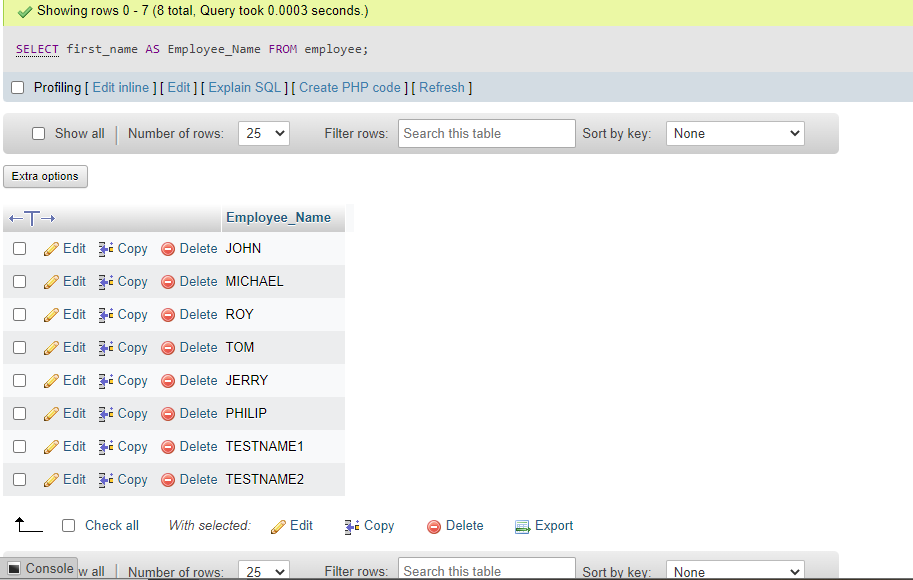
CALL INSERT\_incentives( '5', '2' , '2013-01-01','3500');



* **SQL Queries**

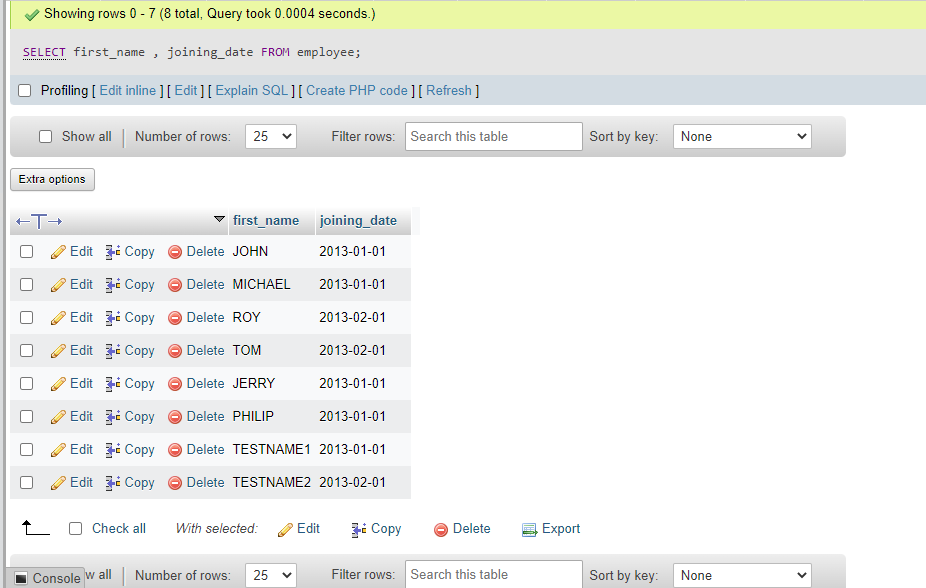
1. Get First\_Name from employee table using alias name “Employee Name”.

SELECT first\_name AS Employee\_Name FROM employee;



b) Get FIRST\_NAME, Joining year, Joining Month and Joining Date from employee table.

SELECT first\_name , joining\_date FROM employee;



c) Get all employee details from the employee table order by First Name Ascending And Salary descending?

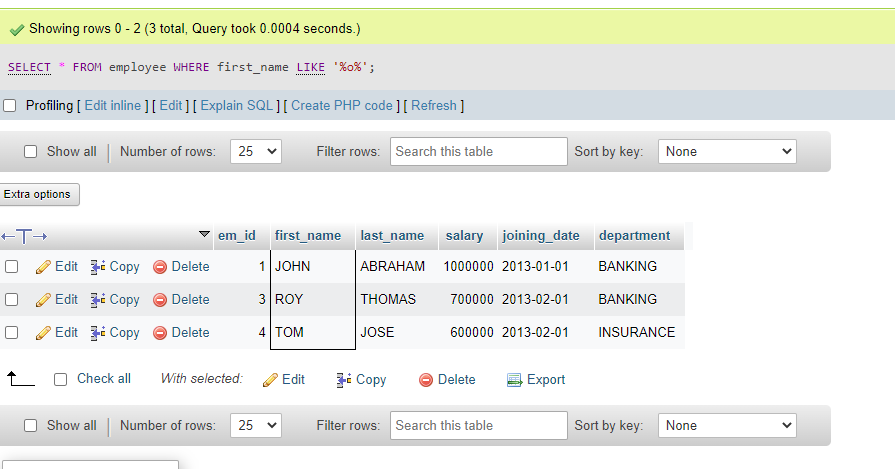
SELECT \* FROM employee ORDER BY salary DESC;



d)Get employee details from employee table whose first name contains „o‟.

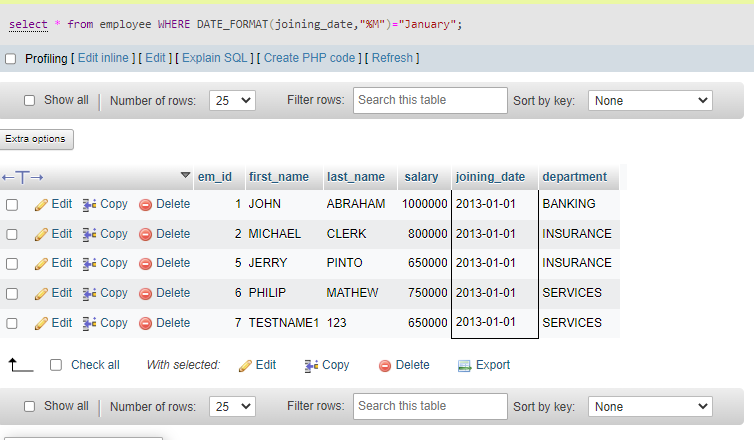
SELECT \* FROM employee

WHERE first\_name LIKE '%o%';



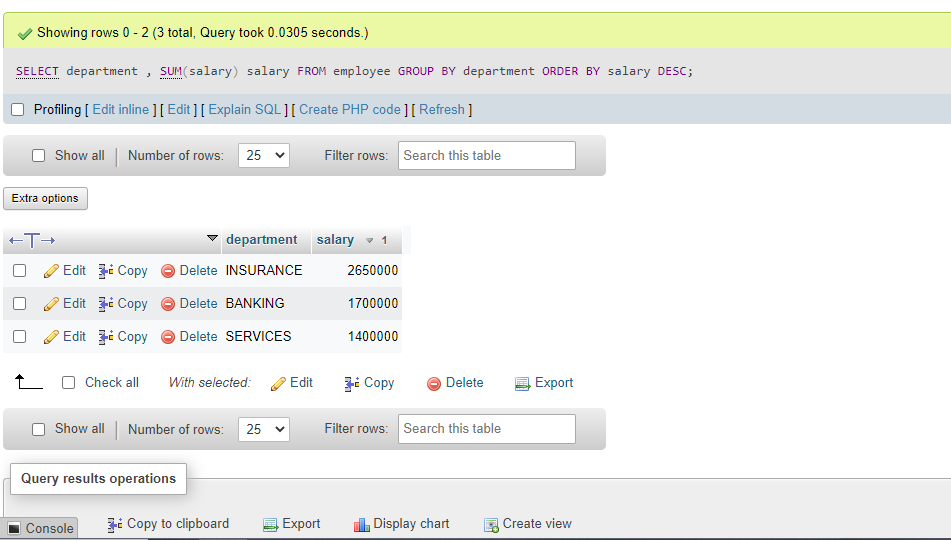
e)Get employee details from employee table whose joining month is “January”.

select \* from employee WHERE DATE\_FORMAT(joining\_date,"%M")="January";



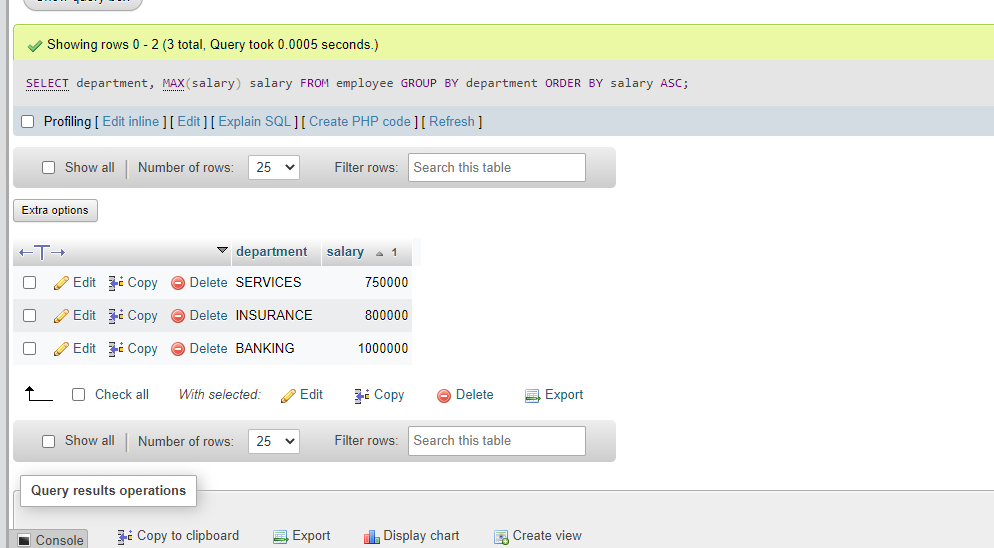
f)Get department, total salary with respect to a department from employee table Order By total salary descending.

SELECT department , SUM(salary) salary FROM employee GROUP BY department ORDER BY salary DESC;



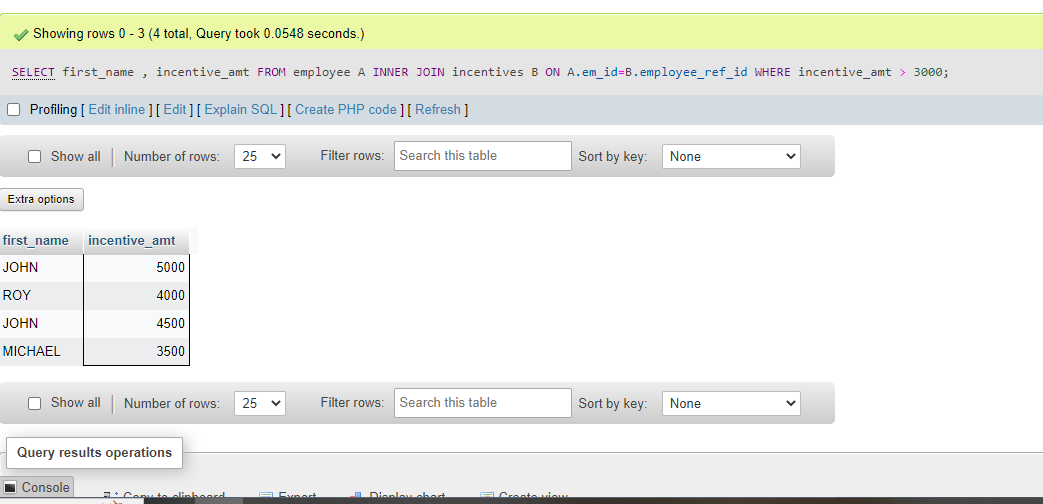
g)Get department wise maximum salary from employee table order by salary ascending?

SELECT department, MAX(salary) salary FROM employee GROUP BY department ORDER BY salary ASC;



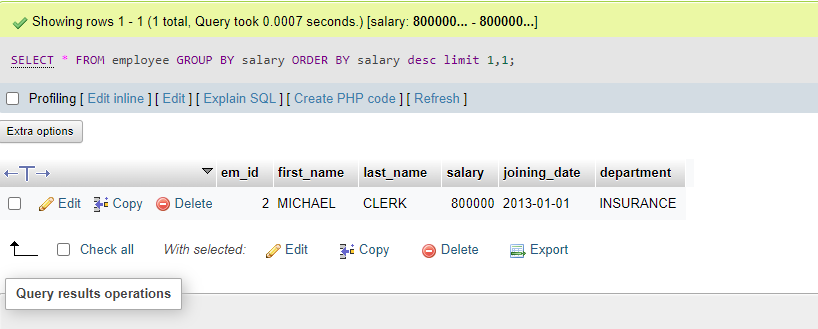
h)Select first\_name, incentive amount from employee and incentives table for those Employees who have incentives and incentive amount greater than 3000

SELECT first\_name , incentive\_amt FROM employee A INNER JOIN incentives B ON A.em\_id=B.employee\_ref\_id WHERE incentive\_amt > 3000



i) Select 2nd Highest salary from employee table.

SELECT \* FROM employee GROUP BY salary ORDER BY salary desc limit 1,1;

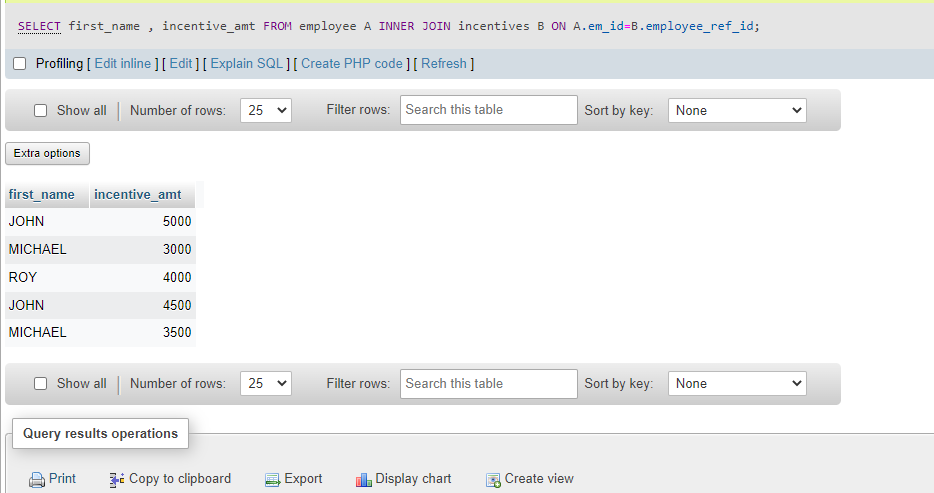


j)Select first\_name, incentive amount from employee and incentives table for all Employees who got incentives using left join.

SELECT first\_name , incentive\_amt

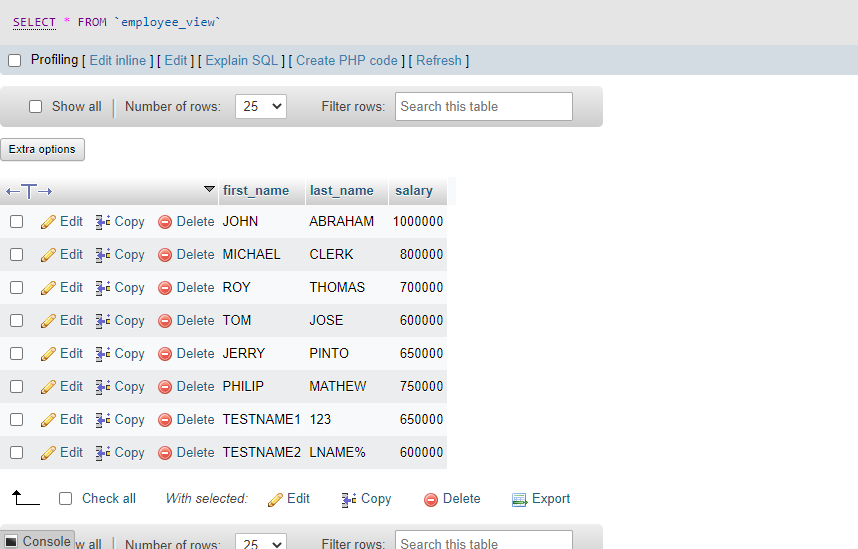
FROM employee A INNER JOIN incentives B

ON A.em\_id=B.employee\_ref\_id;



k)Create View OF Employee table in which store first name, last name and salary only.

CREATE VIEW employee\_view AS SELECT first\_name , last\_name , salary FROM employee;



l) Create Procedure to find out department wise highest salary.

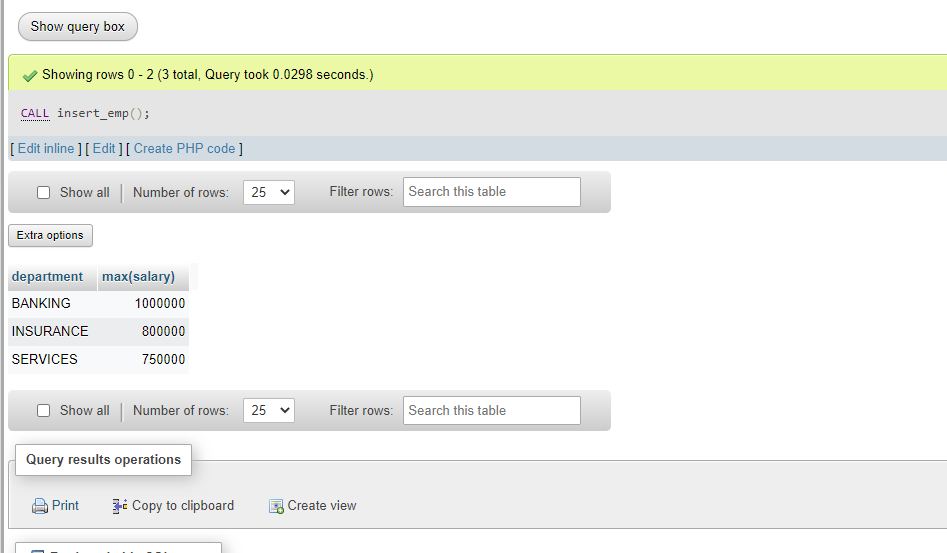
CREATE PROCEDURE insert\_emp()

BEGIN

SELECT department, max(salary) FROM employee GROUP BY department;

END

CALL insert\_emp();



m) Create after Insert trigger on Employee table which insert records in view table.

CREATE TABLE reg\_log(

reg\_id int AUTO\_INCREMENT PRIMARY KEY,

em\_id int(20),

first\_name varchar(50),

last\_name varchar(50),

salary int(50),

modified\_dt date,

CONSTRAINT PK\_reg reg\_id PRIMARY KEY(reg\_id)

)

CREATE TRIGGER insert\_trigger\_employee AFTER INSERT ON employee FOR EACH ROW

BEGIN

INSERT INTO reg\_log(em\_id ,first\_name,last\_name ,salary,joining\_date,department ,modified\_dt )VALUES

(em\_id ,first\_name,last\_name ,salary,joining\_date,department ,modified\_dt)

END