DBMS LAB4

V Venkataraman 106118106

use mysampldb;

DROP TABLE EMP;

DROP TABLE DEPT;

DROP TABLE LOCA;

CREATE TABLE EMP(

EMPLOYEE\_ID INT,

FIRST\_NAME VARCHAR(100),

LAST\_NAME VARCHAR(100),

EMAIL VARCHAR(100),

PHONE\_NUMBER VARCHAR(100),

HIRE\_DATE DATE,

JOB\_ID VARCHAR(10),

COMMISSION\_PCT FLOAT,

SALARY FLOAT,

MANAGER\_ID INT,

DEPARTMENT\_ID INT

);

CREATE TABLE DEPT(

DEPARTMENT\_ID INT,

DEPARTMENT\_NAME VARCHAR(100),

MANAGER\_ID INT,

LOCATION\_ID INT

);

CREATE TABLE LOCA(

LOCATION\_ID INT,

STREET\_ADDRESS VARCHAR(100),

POSTAL\_CODE INT,

CITY VARCHAR(100),

STATA\_PROVINCE VARCHAR(100),

COUNTRY\_ID INT

);

INSERT INTO EMP VALUES(163,'Arjun','Ramprasad','arjun@gmail.com', '9521233450','2008-01-01','IT\_PROG',5.50,3000,177,1001);

INSERT INTO EMP VALUES(169,'Clara','Singh','clara1@gmail.com', '9533434350','2009-11-21','ACC',5.50,2000,121,1002);

INSERT INTO EMP VALUES(170,'Jagdish','Manohar','jaggi@gmail.com', '9519633450','2018-01-21','TAX',5.50,1500,159,1003);

INSERT INTO EMP VALUES(134,'Arun','Reddy','arun@gmail.com', '9521233321','2000-03-02','IT\_PROG',5.50,4000,101,1001);

INSERT INTO EMP VALUES(159,'Tanmay','Sharma','tanman33@gmail.com', '9525633450','2001-01-01','DESIGN',5.50,2000,111,1004);

INSERT INTO EMP VALUES(200,'Ron','Weasley','ron88@gmail.com', '1525633450','2001-01-01','TEST',5.50,2000,111,1004);

INSERT INTO EMP VALUES(183,'Jack','Samuel','jack@gmail.com', '9521233450','2008-01-01','IT\_PROG',5.50,3000,177,1002);

INSERT INTO EMP VALUES(199,'Dinesh','Karthik','dinesh@gmail.com', '9523434350','2009-11-21','ACC',5.50,2000,121,1003);

INSERT INTO EMP VALUES(110,'MS','Dhoni','dhoni@gmail.com', '9519635650','2018-01-21','TAX',5.50,1500,159,1001);

INSERT INTO EMP VALUES(114,'Lawrence','Turbo','landt@gmail.com', '951233321','2000-03-02','IT\_PROG',5.50,4000,134,1004);

INSERT INTO EMP VALUES(119,'Giri','Nath','gir33@gmail.com', '9525623450','2001-01-01','DESIGN',5.50,2000,159,1001);

INSERT INTO EMP VALUES(112,'Tarry','Potter','tarry88@gmail.com', '1545633450','2001-01-01','TEST',5.50,2000,221,1004);

INSERT INTO DEPT VALUES(1001,'Computer',177,51);

INSERT INTO DEPT VALUES(1002,'Finance',121,52);

INSERT INTO DEPT VALUES(1003,'Taxation',111,53);

INSERT INTO DEPT VALUES(1004,'Production',101,54);

INSERT INTO DEPT VALUES(1005,'Arts',159,55);

INSERT INTO DEPT VALUES(1006,'Electrical',211,56);

INSERT INTO DEPT VALUES(1007,'Sales',221,57);

INSERT INTO DEPT VALUES(1008,'Marketting',231,58);

INSERT INTO DEPT VALUES(1009,'Testing',241,59);

INSERT INTO DEPT VALUES(1010,'Law',210,60);

INSERT INTO LOCA VALUES(51,'Nehru street',600017,'Chennai','TamilNadu',91);

INSERT INTO LOCA VALUES(52,'RedWood street',300007,'Toronto','Canada',10);

INSERT INTO LOCA VALUES(53,'ABC street',200017,'New York','USA',21);

INSERT INTO LOCA VALUES(54,'Shivaji street',600017,'Mumbai','Maharashtra',91);

INSERT INTO LOCA VALUES(55,'Anna street',300017,'Chennai','TamilNadu',91);

INSERT INTO LOCA VALUES(56,'Gandhi street',600017,'Chennai','TamilNadu',91);

INSERT INTO LOCA VALUES(57,'BlueWood street',300007,'Toronto','Canada',10);

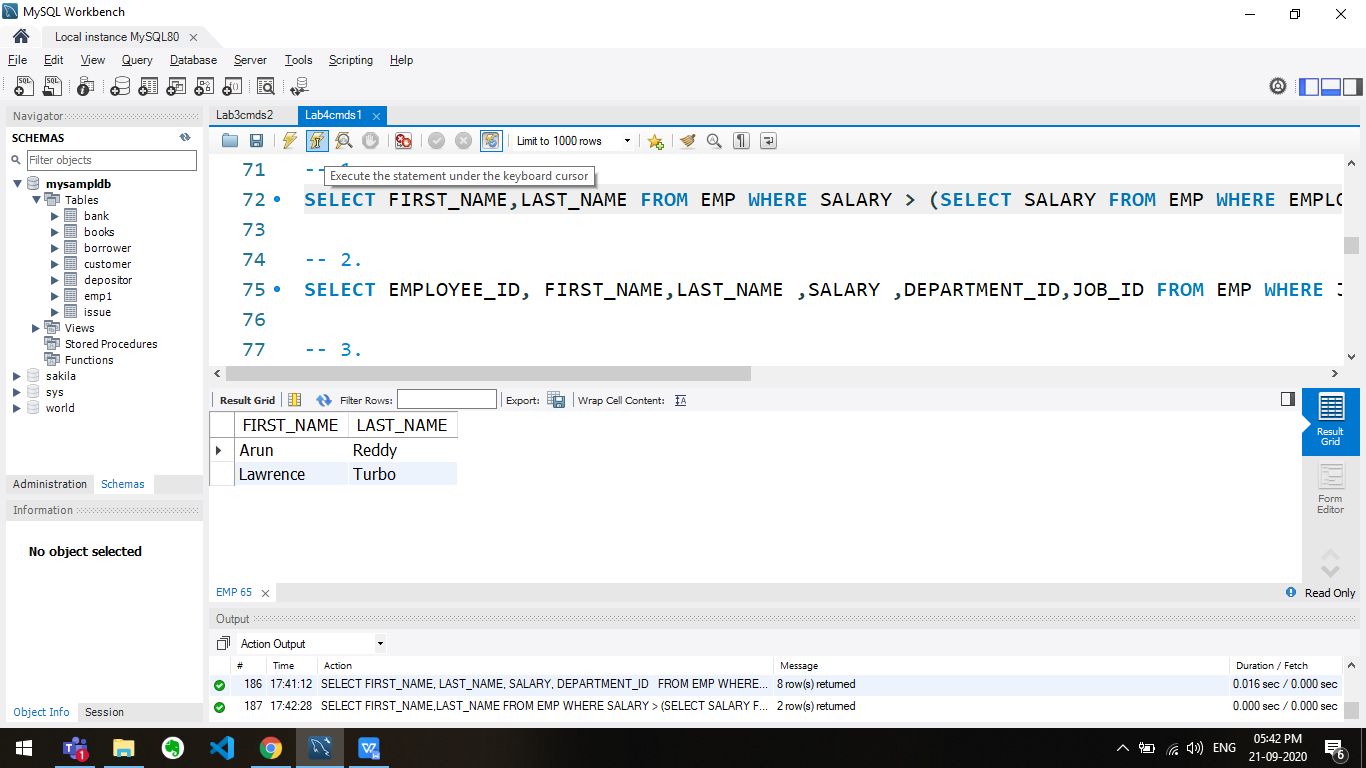
INSERT INTO LOCA VALUES(58,'DEF street',200017,'New York','USA',21);

INSERT INTO LOCA VALUES(59,'Pakoda street',600017,'Mumbai','Maharashtra',91);

INSERT INTO LOCA VALUES(60,'Periyar street',300017,'Chennai','TamilNadu',91);

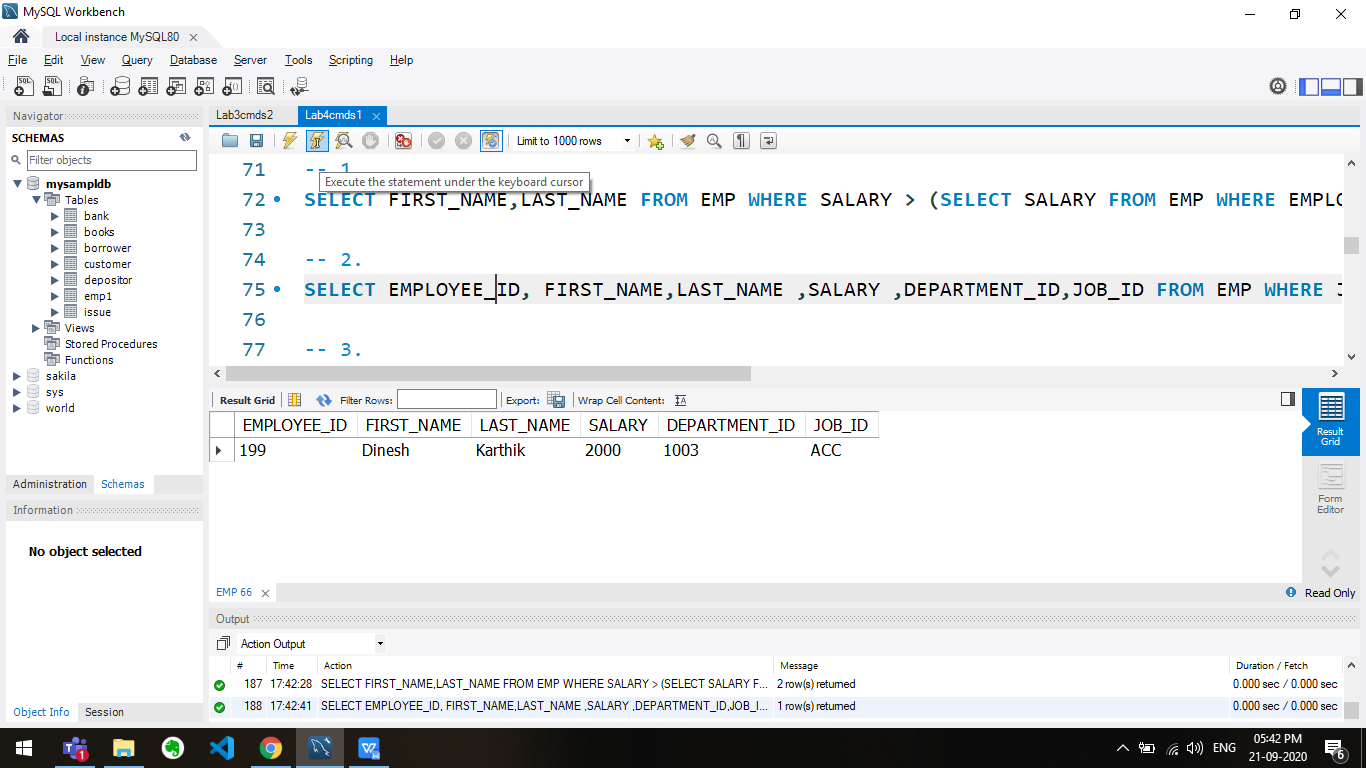
-- 1.

SELECT FIRST\_NAME,LAST\_NAME FROM EMP WHERE SALARY > (SELECT SALARY FROM EMP WHERE EMPLOYEE\_ID = 163);



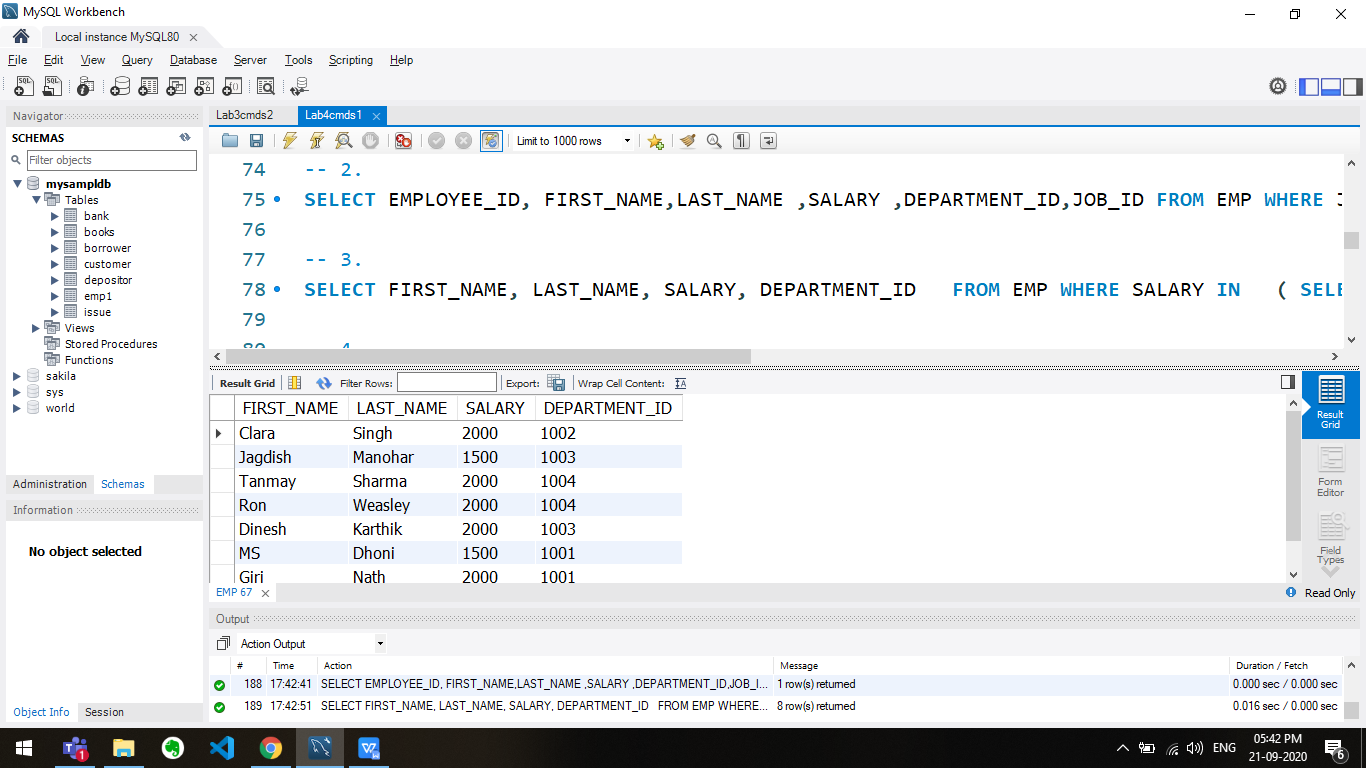
-- 2.

SELECT EMPLOYEE\_ID, FIRST\_NAME,LAST\_NAME ,SALARY ,DEPARTMENT\_ID,JOB\_ID FROM EMP WHERE JOB\_ID = (SELECT JOB\_ID FROM EMP WHERE EMPLOYEE\_ID = 169) AND EMPLOYEE\_ID != 169;



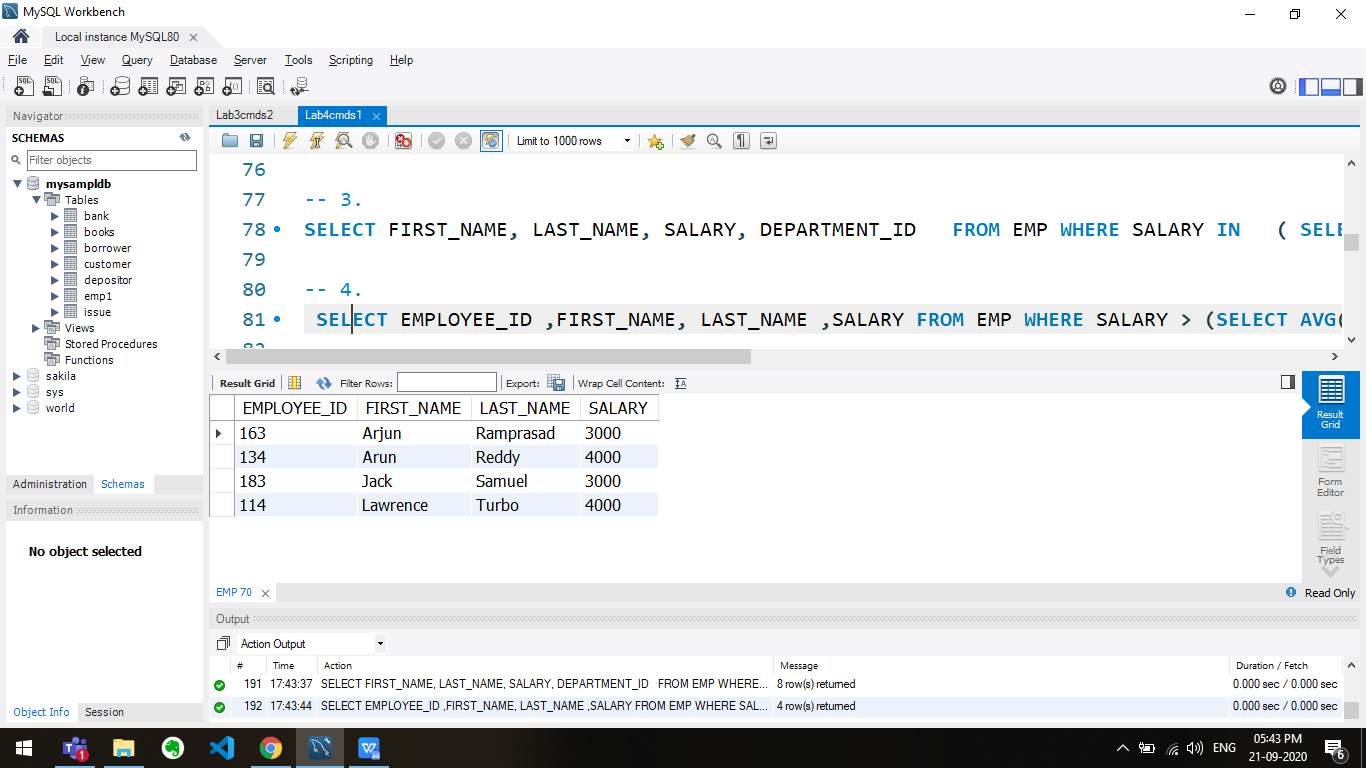
-- 3.

SELECT FIRST\_NAME, LAST\_NAME, SALARY, DEPARTMENT\_ID FROM EMP WHERE SALARY IN ( SELECT MIN(SALARY) FROM EMP GROUP BY DEPARTMENT\_ID );



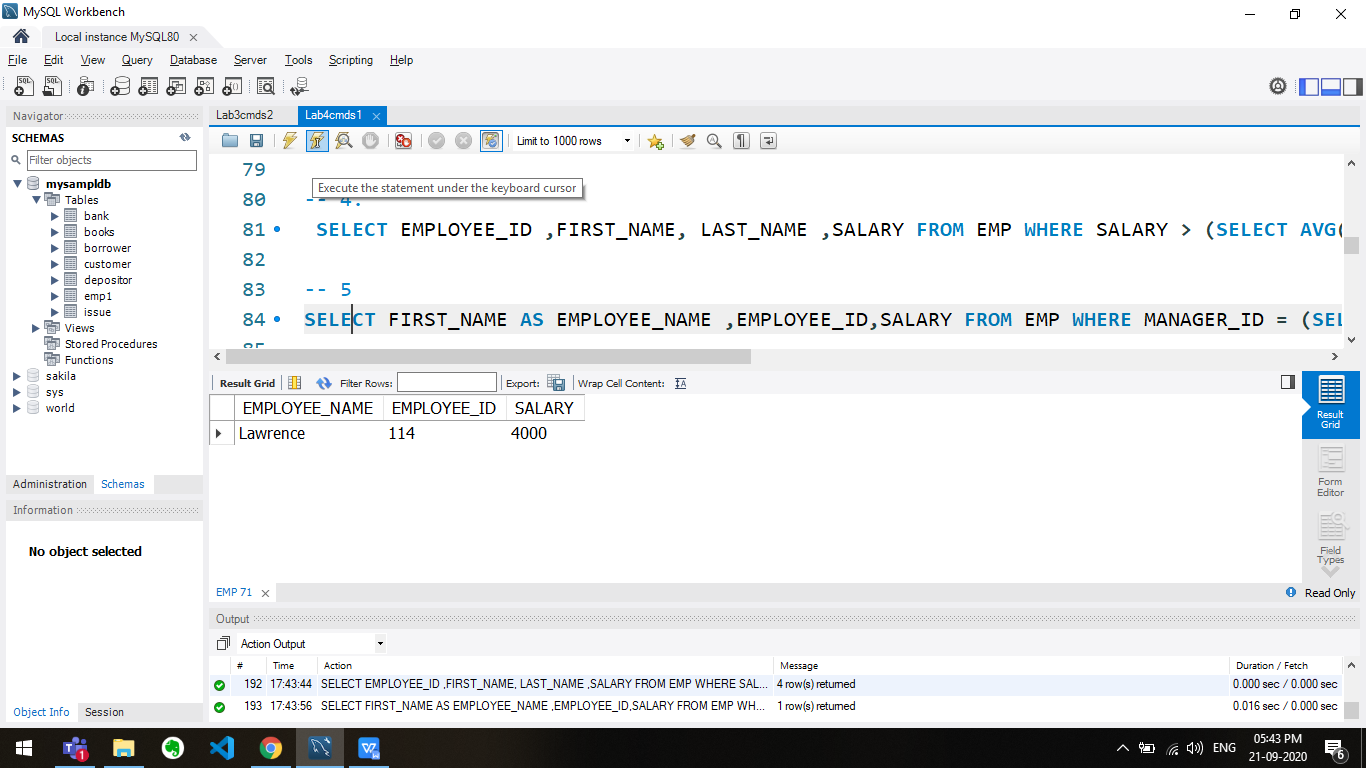
-- 4.

SELECT EMPLOYEE\_ID ,FIRST\_NAME, LAST\_NAME ,SALARY FROM EMP WHERE SALARY > (SELECT AVG(SALARY) FROM EMP);



-- 5

SELECT FIRST\_NAME AS EMPLOYEE\_NAME ,EMPLOYEE\_ID,SALARY FROM EMP WHERE MANAGER\_ID = (SELECT EMPLOYEE\_ID FROM EMP WHERE FIRST\_NAME ="ARUN");



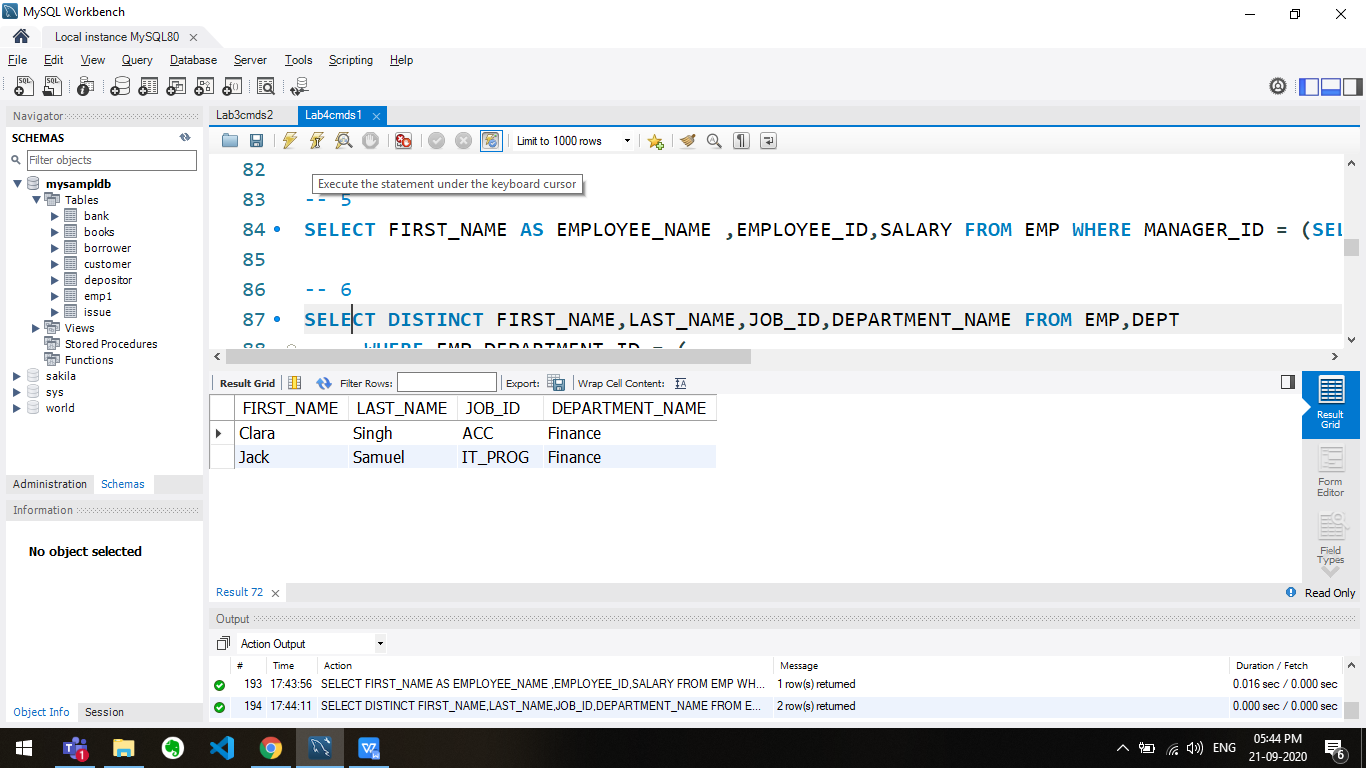
-- 6

SELECT DISTINCT FIRST\_NAME,LAST\_NAME,JOB\_ID,DEPARTMENT\_NAME FROM EMP,DEPT

WHERE EMP.DEPARTMENT\_ID = (

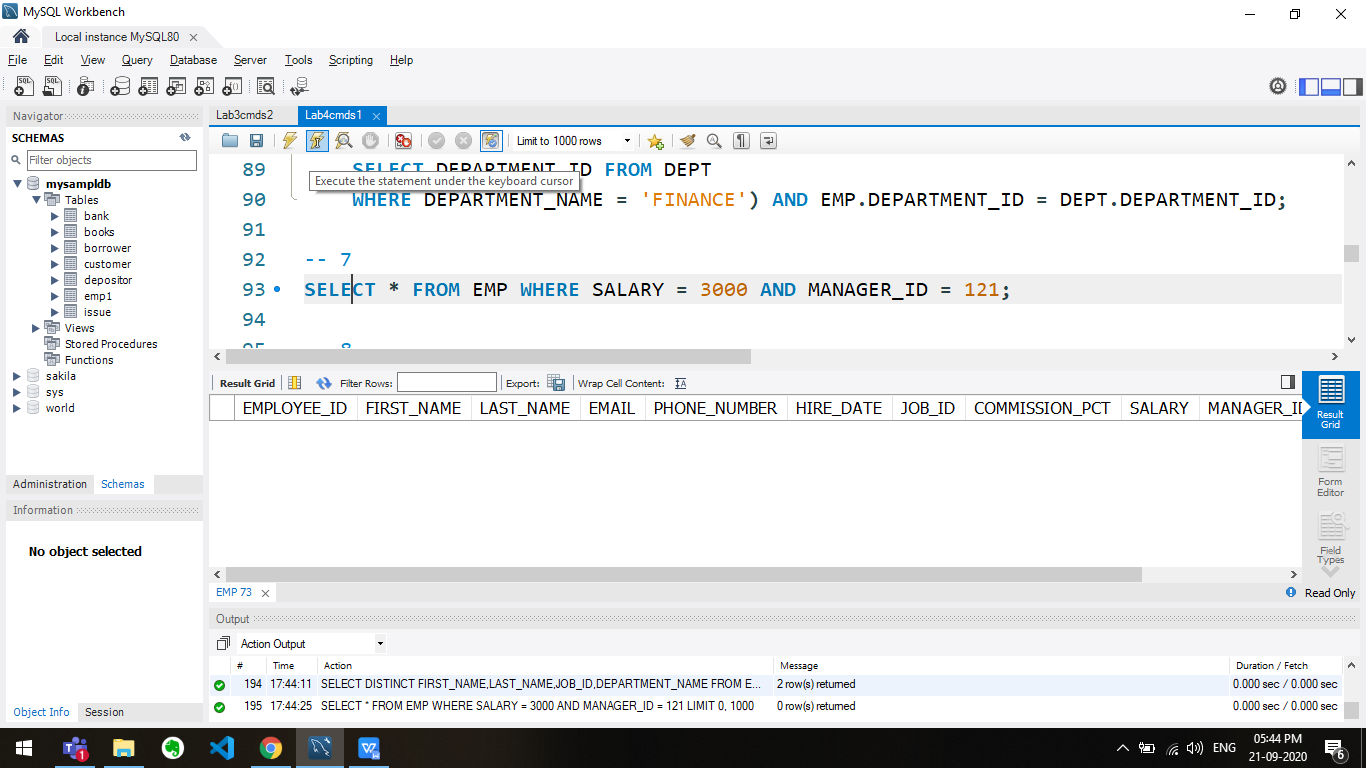
SELECT DEPARTMENT\_ID FROM DEPT

WHERE DEPARTMENT\_NAME = 'FINANCE') AND EMP.DEPARTMENT\_ID = DEPT.DEPARTMENT\_ID;



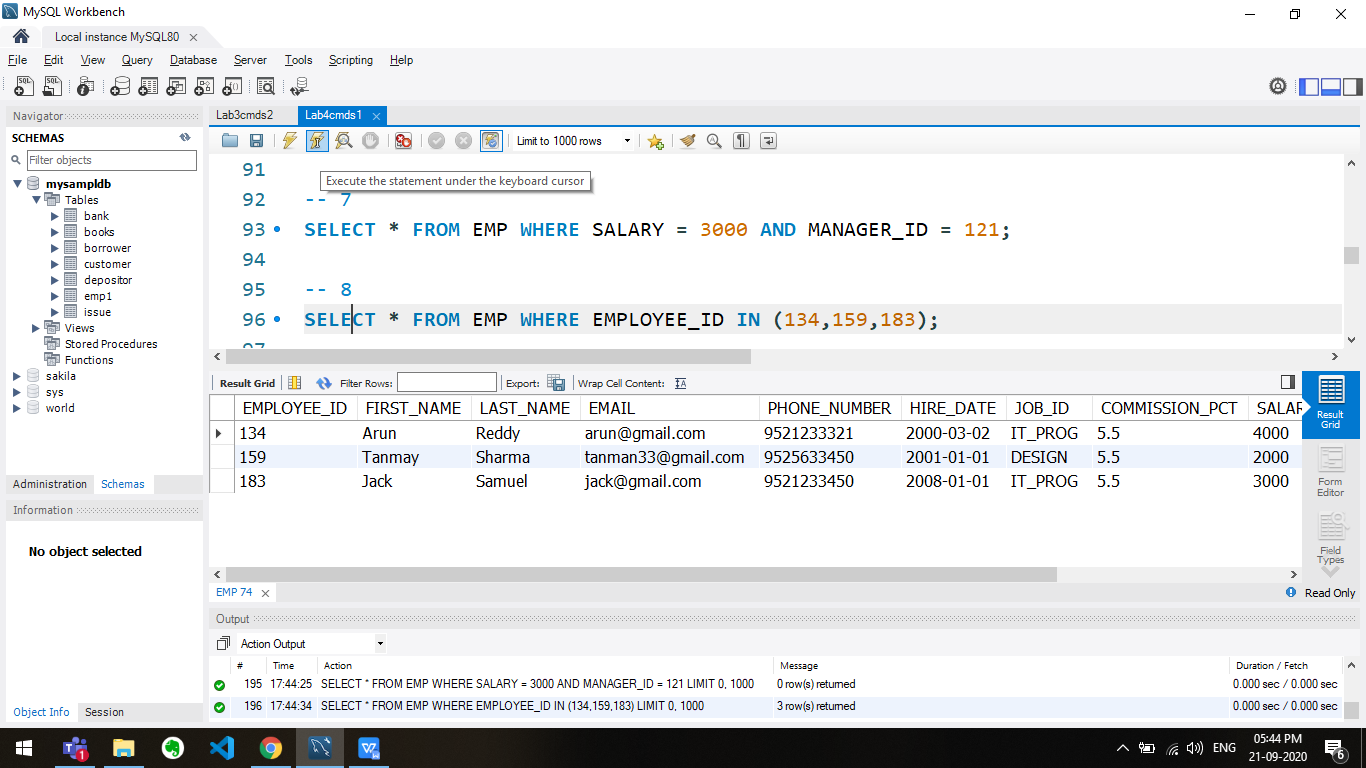
-- 7

SELECT \* FROM EMP WHERE SALARY = 3000 AND MANAGER\_ID = 121;



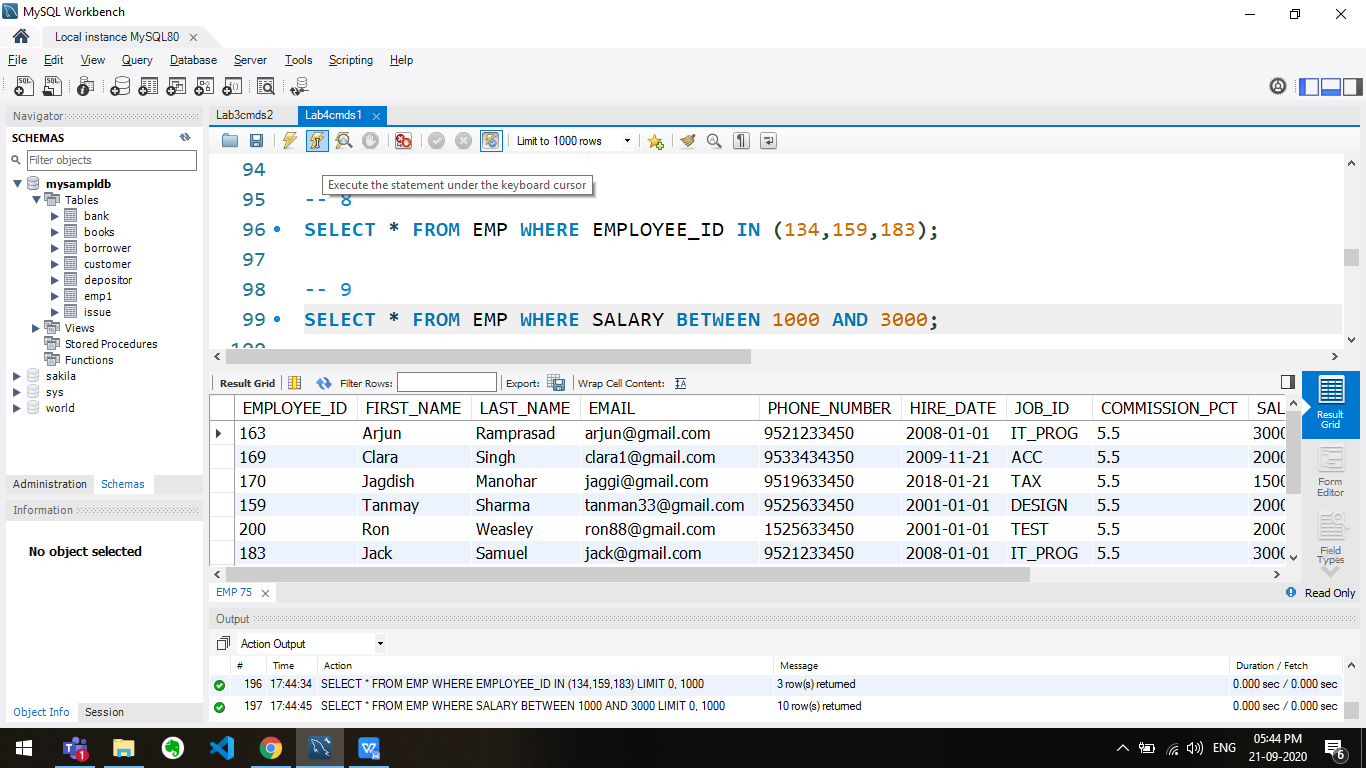
-- 8

SELECT \* FROM EMP WHERE EMPLOYEE\_ID IN (134,159,183);



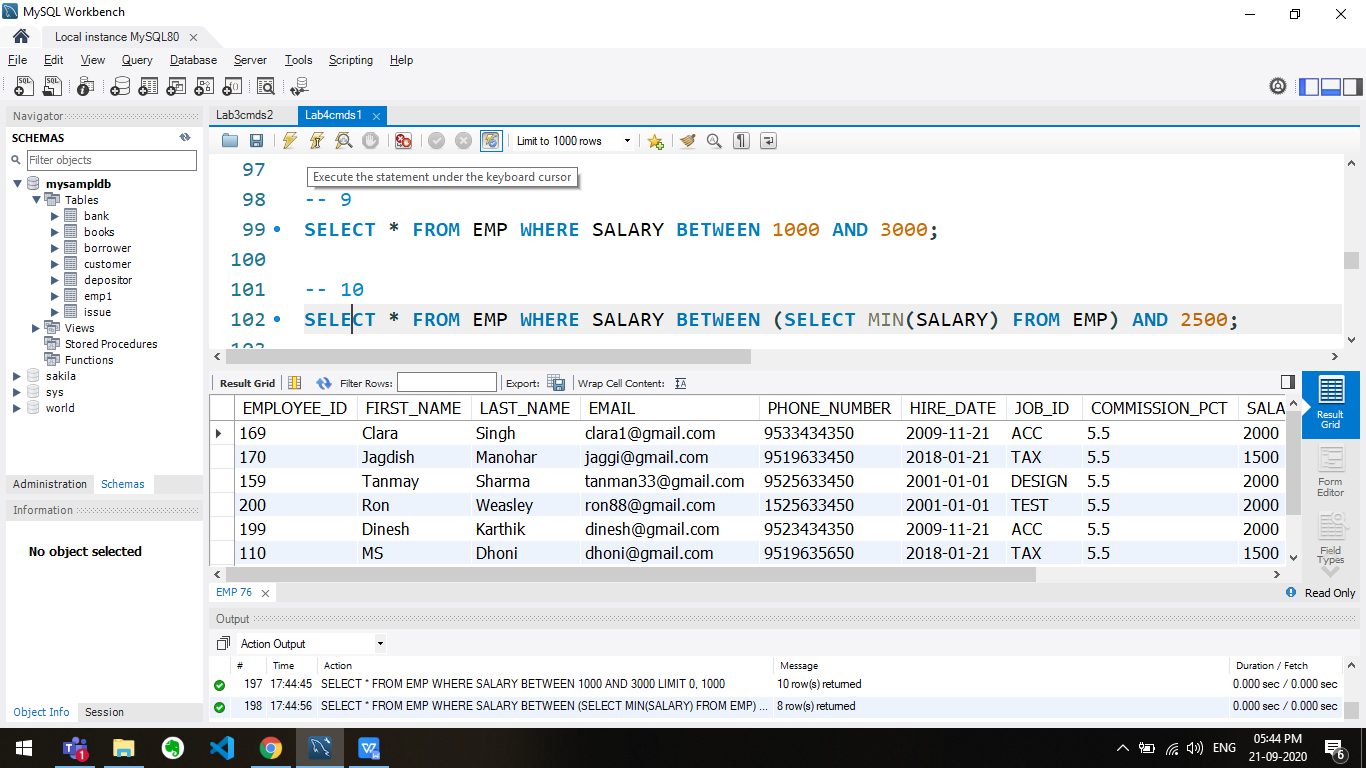
-- 9

SELECT \* FROM EMP WHERE SALARY BETWEEN 1000 AND 3000;



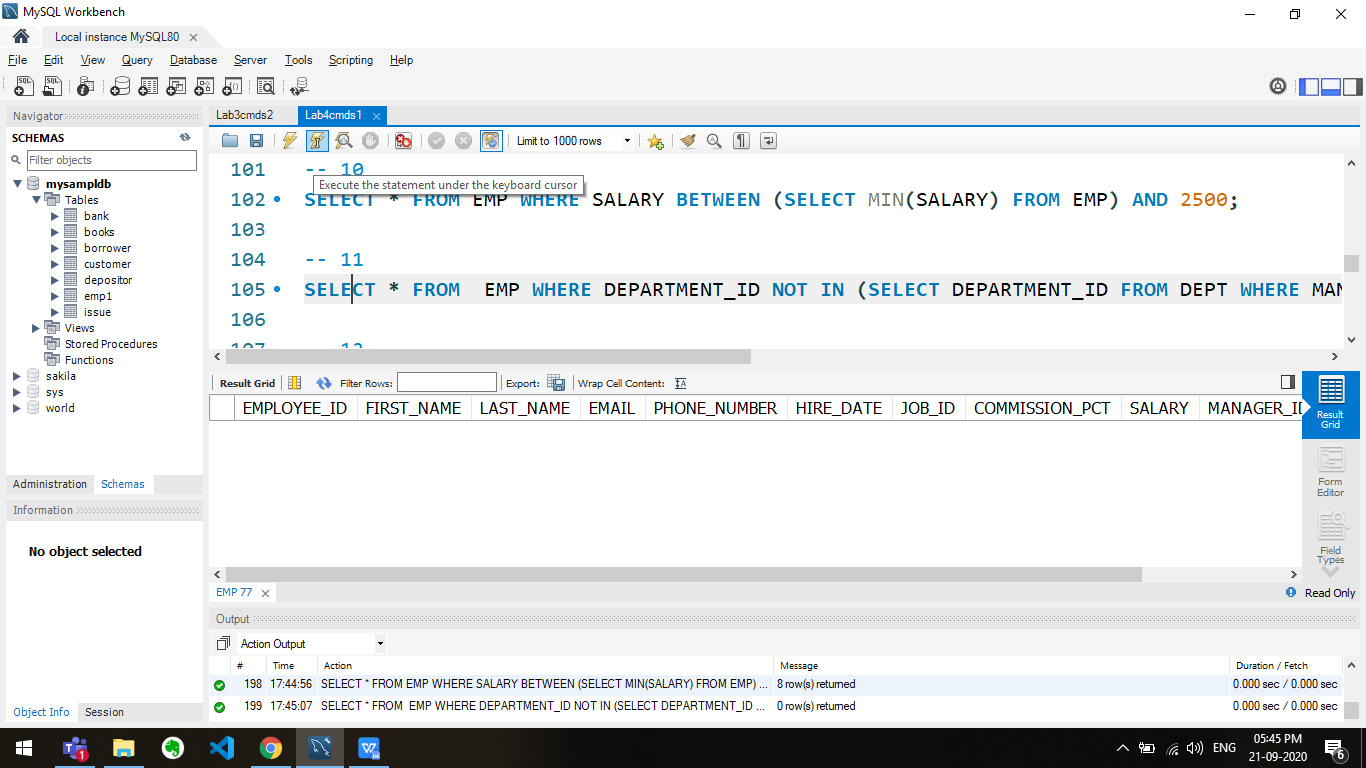
-- 10

SELECT \* FROM EMP WHERE SALARY BETWEEN (SELECT MIN(SALARY) FROM EMP) AND 2500;



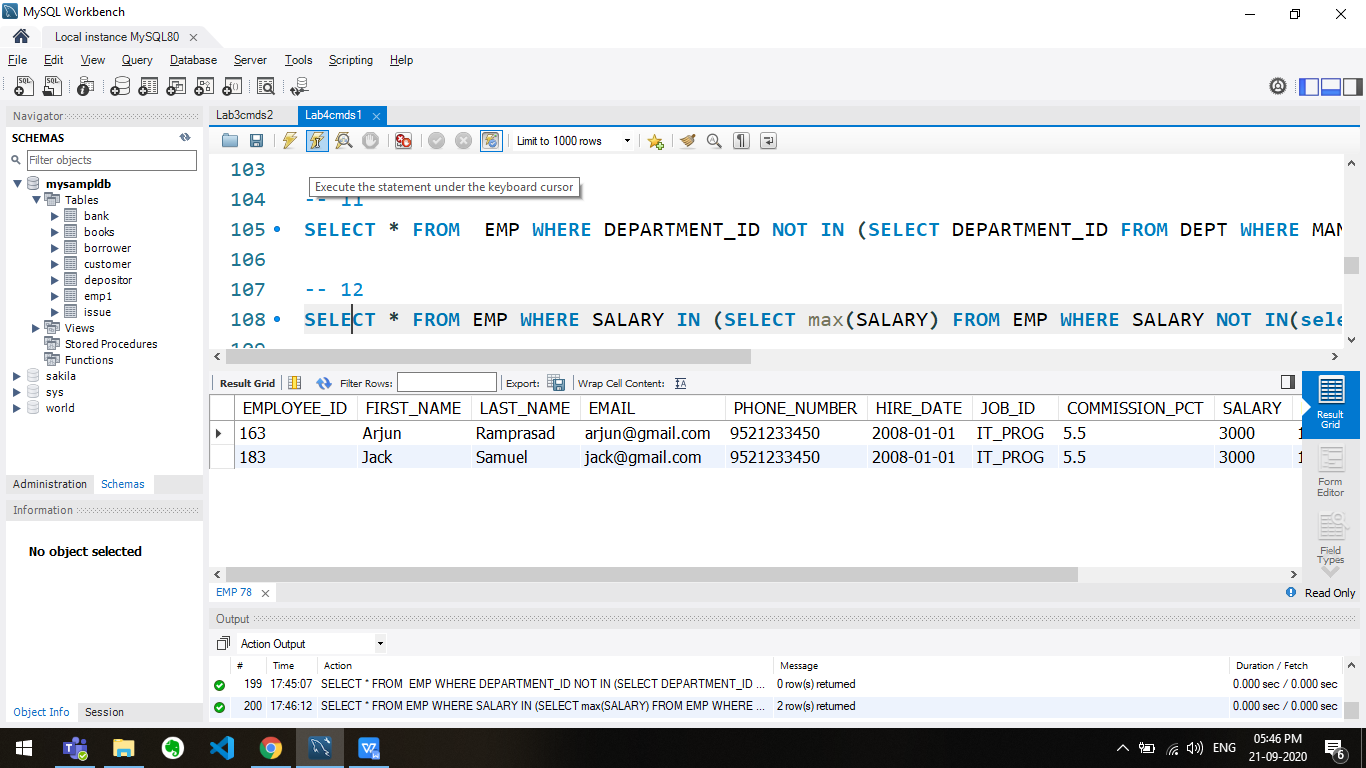
-- 11

SELECT \* FROM EMP WHERE DEPARTMENT\_ID NOT IN (SELECT DEPARTMENT\_ID FROM DEPT WHERE MANAGER\_ID BETWEEN 100 AND 200);



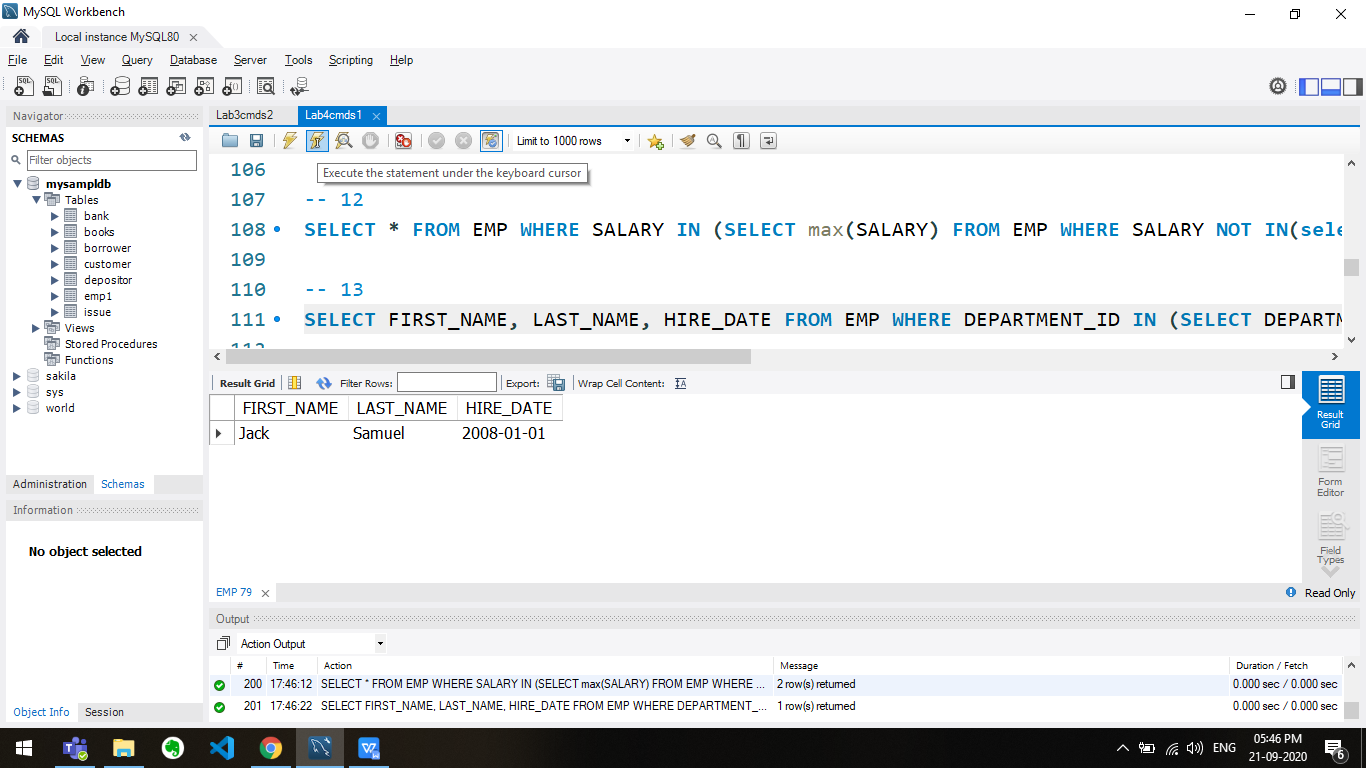
-- 12

SELECT \* FROM EMP WHERE SALARY IN (SELECT max(SALARY) FROM EMP WHERE SALARY NOT IN(select max(SALARY) FROM EMP));



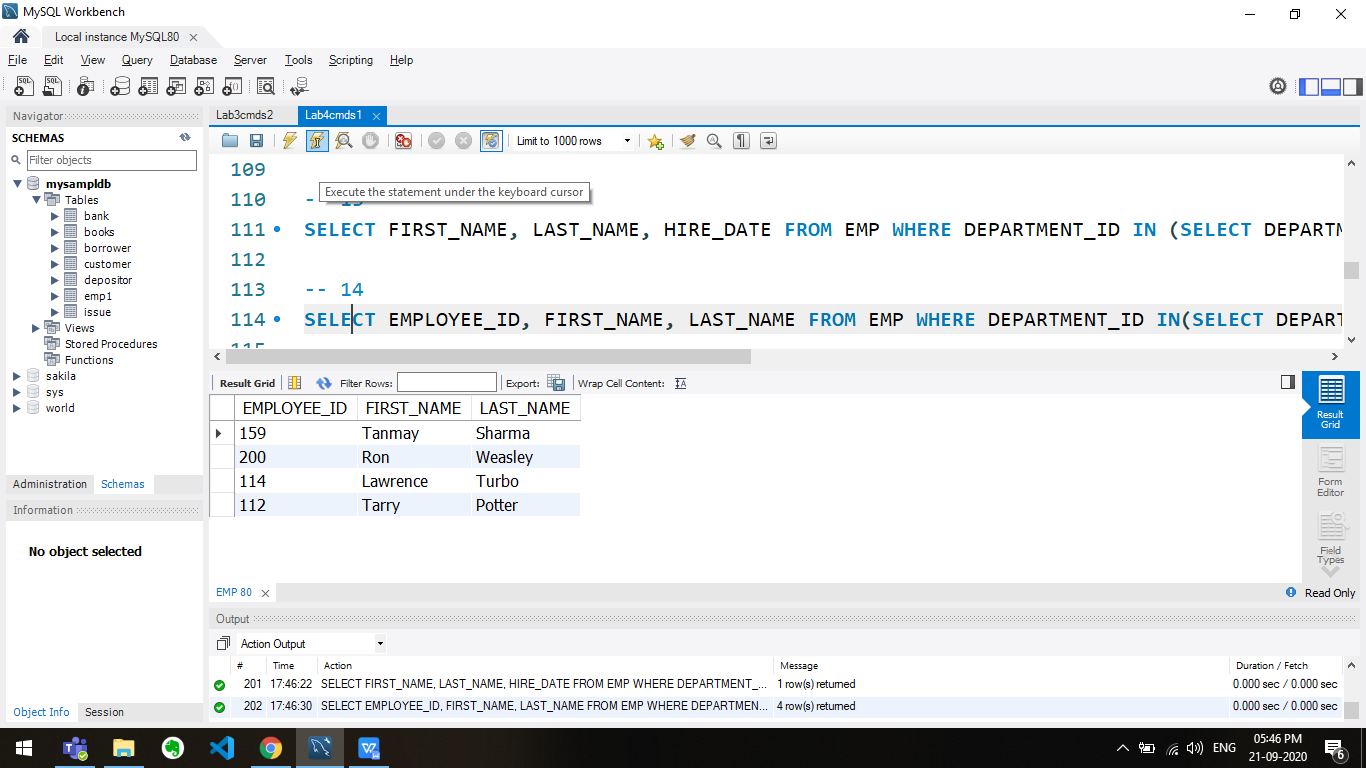
-- 13

SELECT FIRST\_NAME, LAST\_NAME, HIRE\_DATE FROM EMP WHERE DEPARTMENT\_ID IN (SELECT DEPARTMENT\_ID FROM EMP WHERE FIRST\_NAME = "Clara") AND FIRST\_NAME != "Clara";



-- 14

SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME FROM EMP WHERE DEPARTMENT\_ID IN(SELECT DEPARTMENT\_ID FROM EMP WHERE FIRST\_NAME LIKE "%t%");



-- 15:

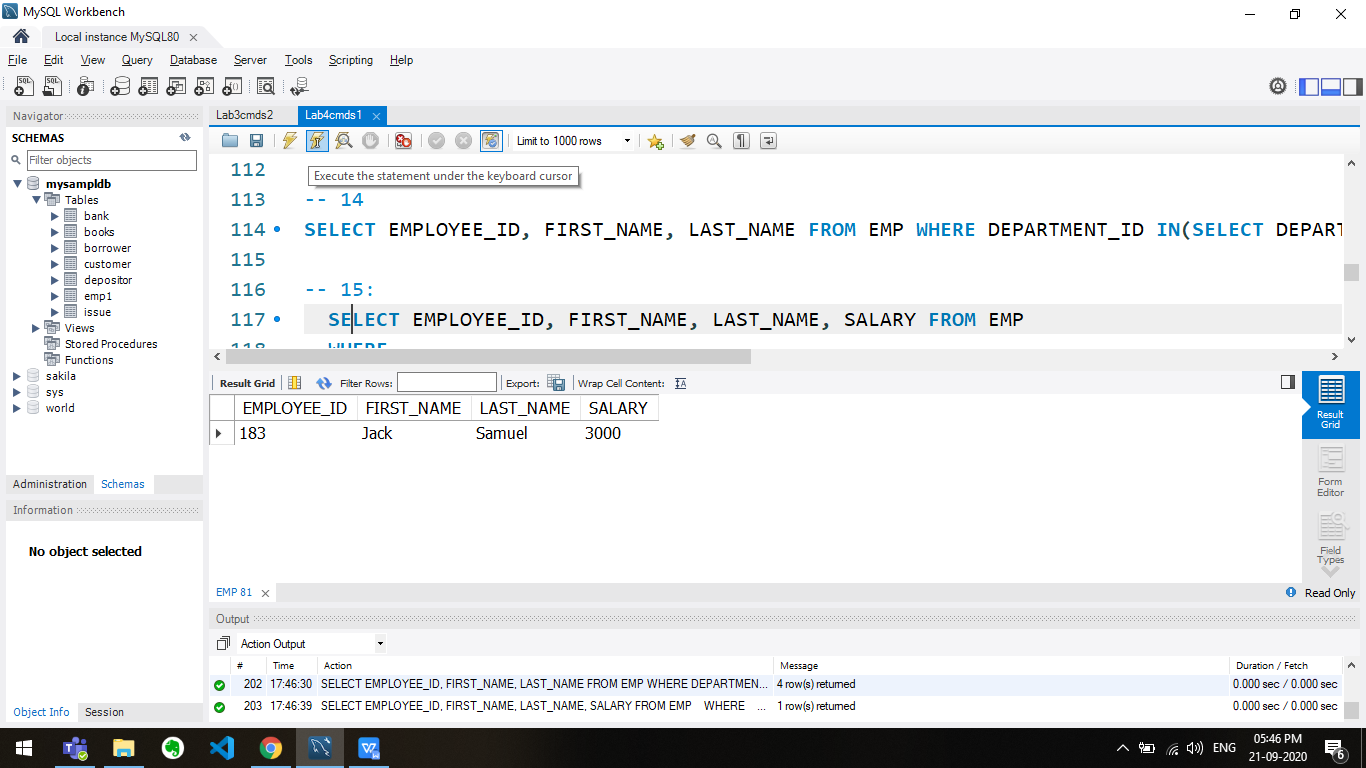
SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, SALARY FROM EMP

WHERE

SALARY > (select avg(SALARY) from EMP)

&&

DEPARTMENT\_ID IN (SELECT DISTINCT DEPARTMENT\_ID FROM EMP WHERE FIRST\_NAME LIKE 'J%');



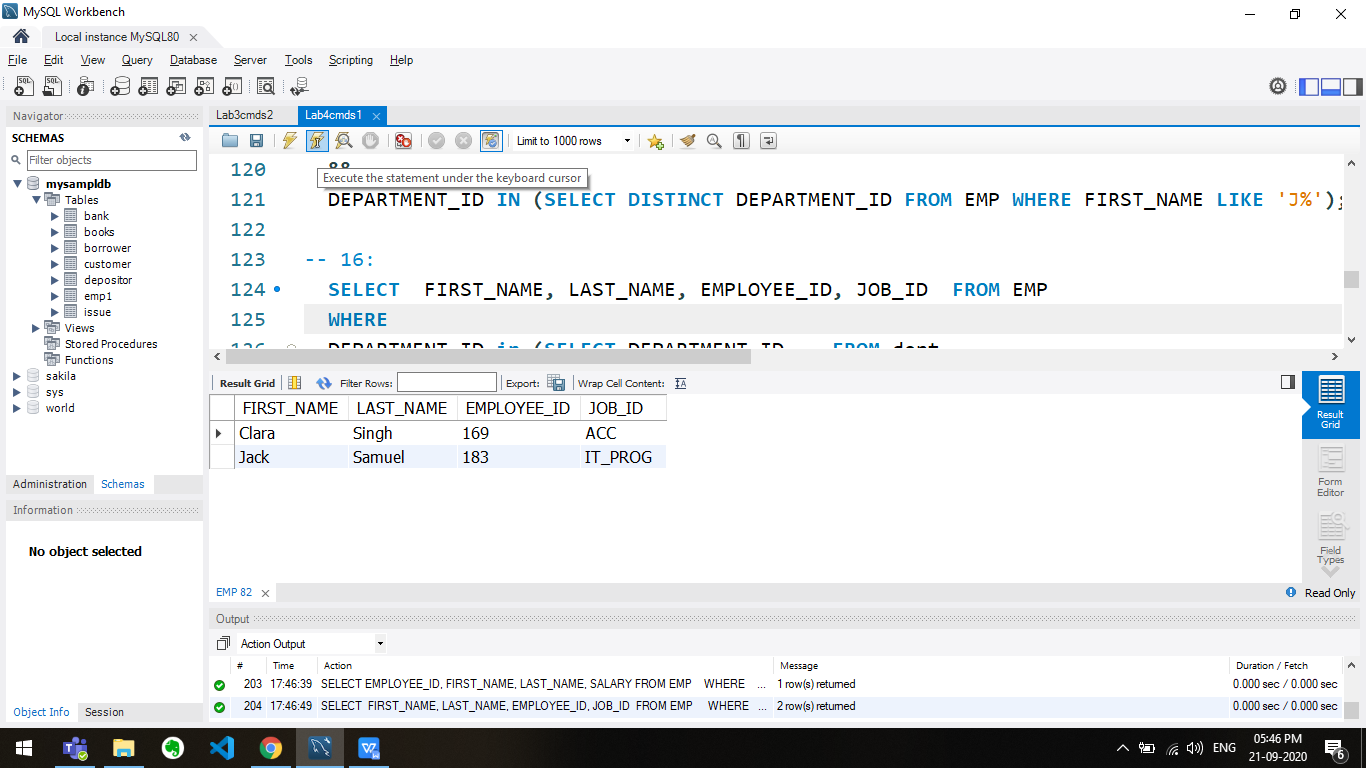
-- 16:

SELECT FIRST\_NAME, LAST\_NAME, EMPLOYEE\_ID, JOB\_ID FROM EMP

WHERE

DEPARTMENT\_ID = (SELECT DEPARTMENT\_ID FROM dept

WHERE LOCATION\_ID = (SELECT LOCATION\_ID FROM LOCA WHERE CITY ='TORONTO'));

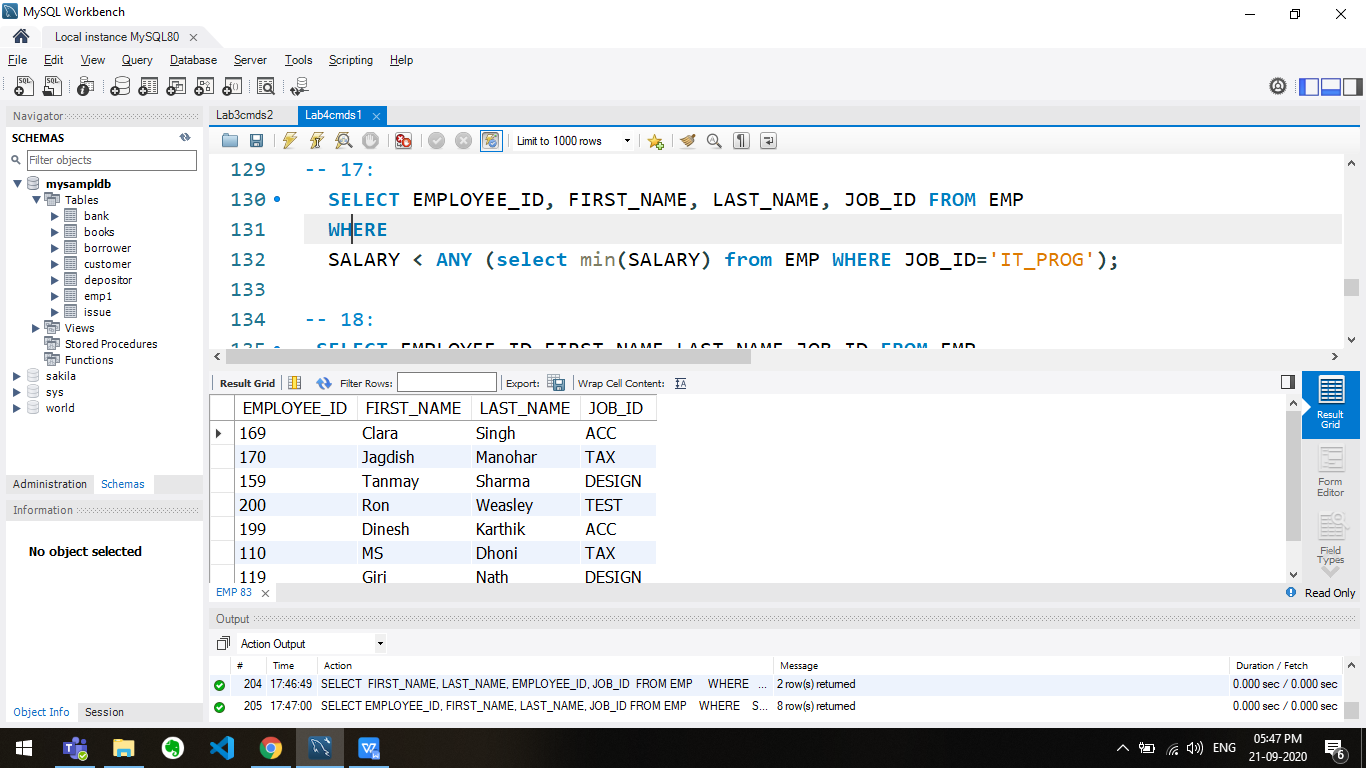


-- 17:

SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, JOB\_ID FROM EMP

WHERE

SALARY < ANY (select min(SALARY) from EMP WHERE JOB\_ID='IT\_PROG');

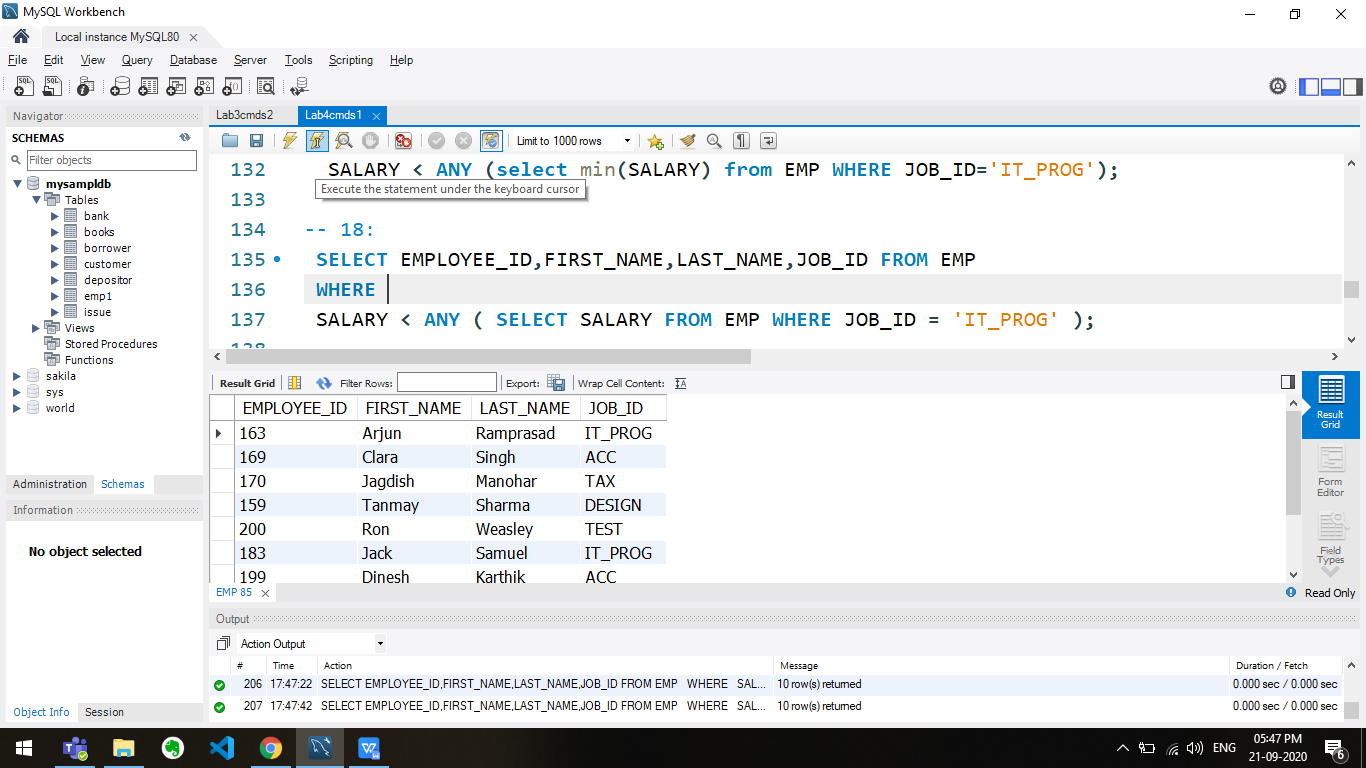


-- 18:

SELECT EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,JOB\_ID FROM EMP

WHERE

SALARY < ANY ( SELECT SALARY FROM EMP WHERE JOB\_ID = ‘IT\_PROG’ );

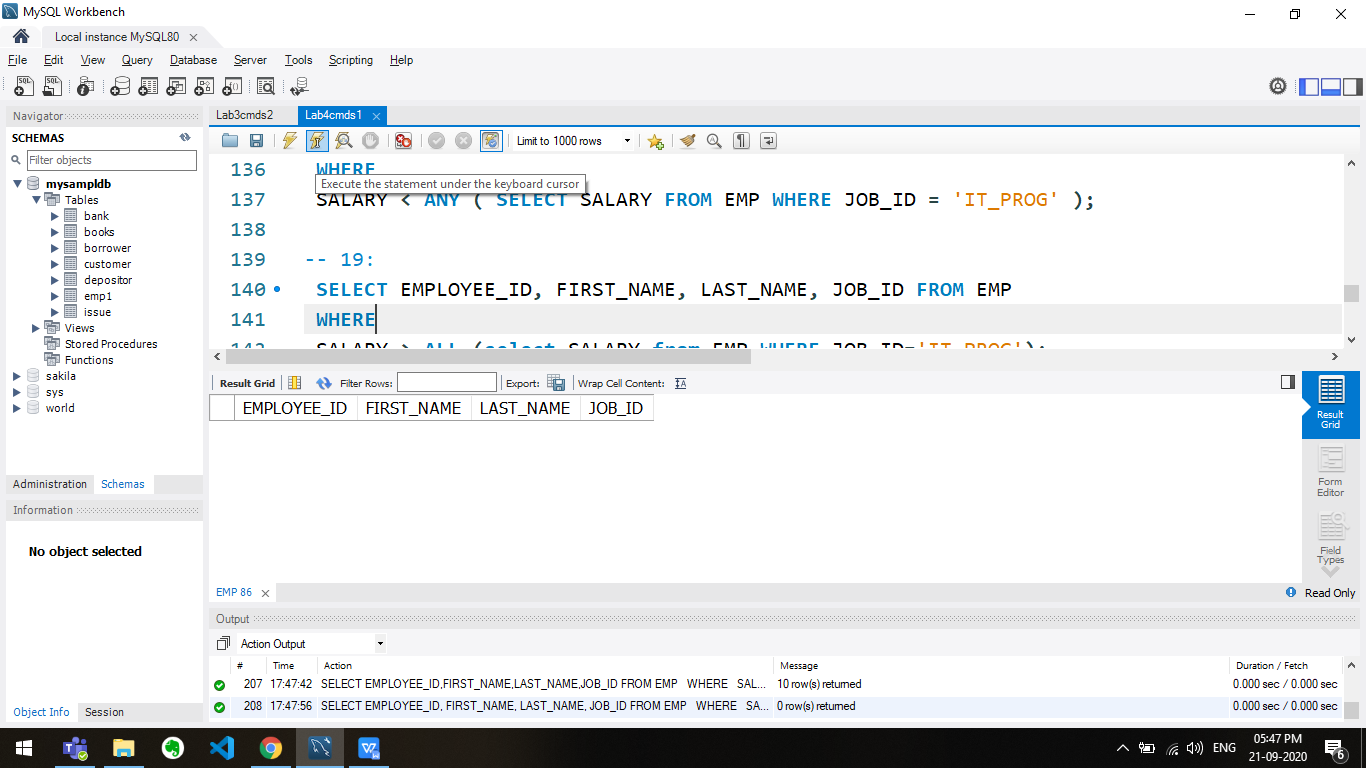


-- 19:

SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, JOB\_ID FROM EMP

WHERE

SALARY > ALL (select SALARY from EMP WHERE JOB\_ID='IT\_PROG');

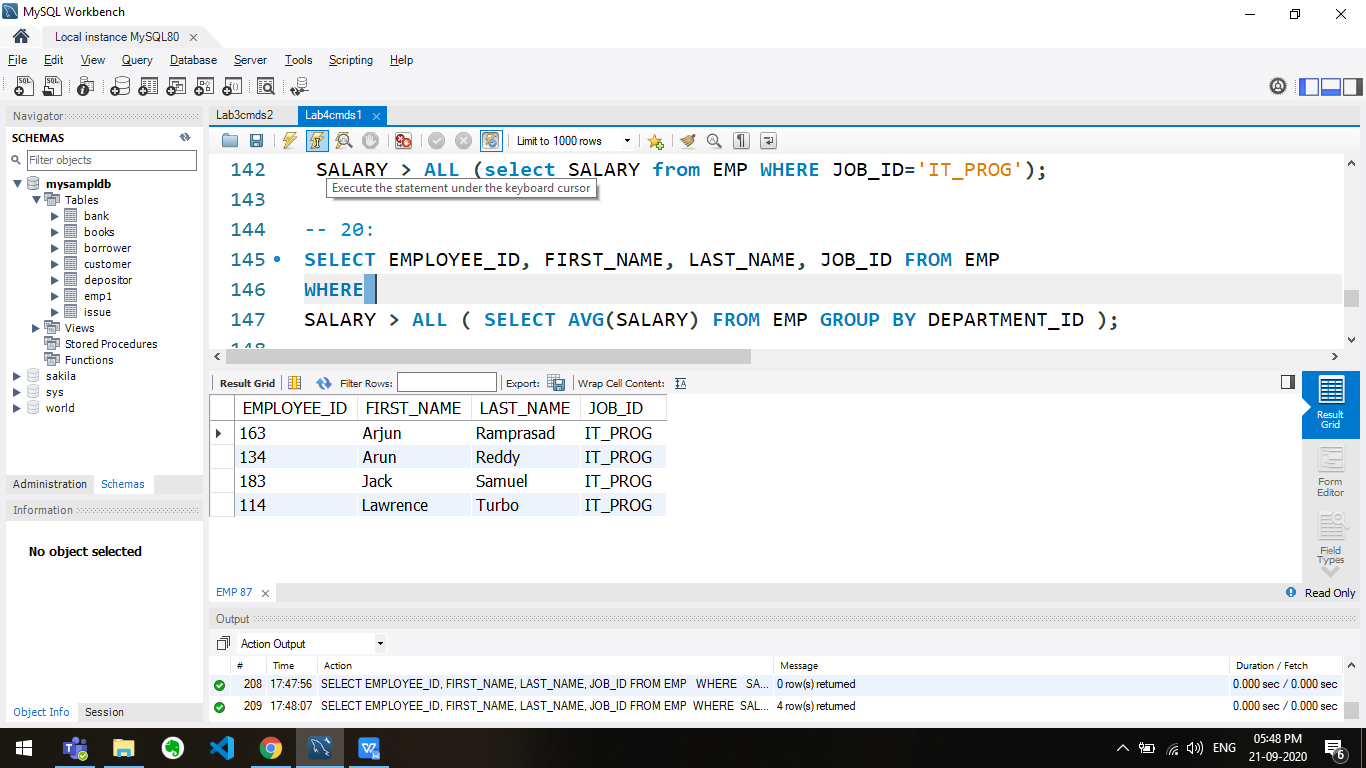


-- 20:

SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, JOB\_ID FROM EMP

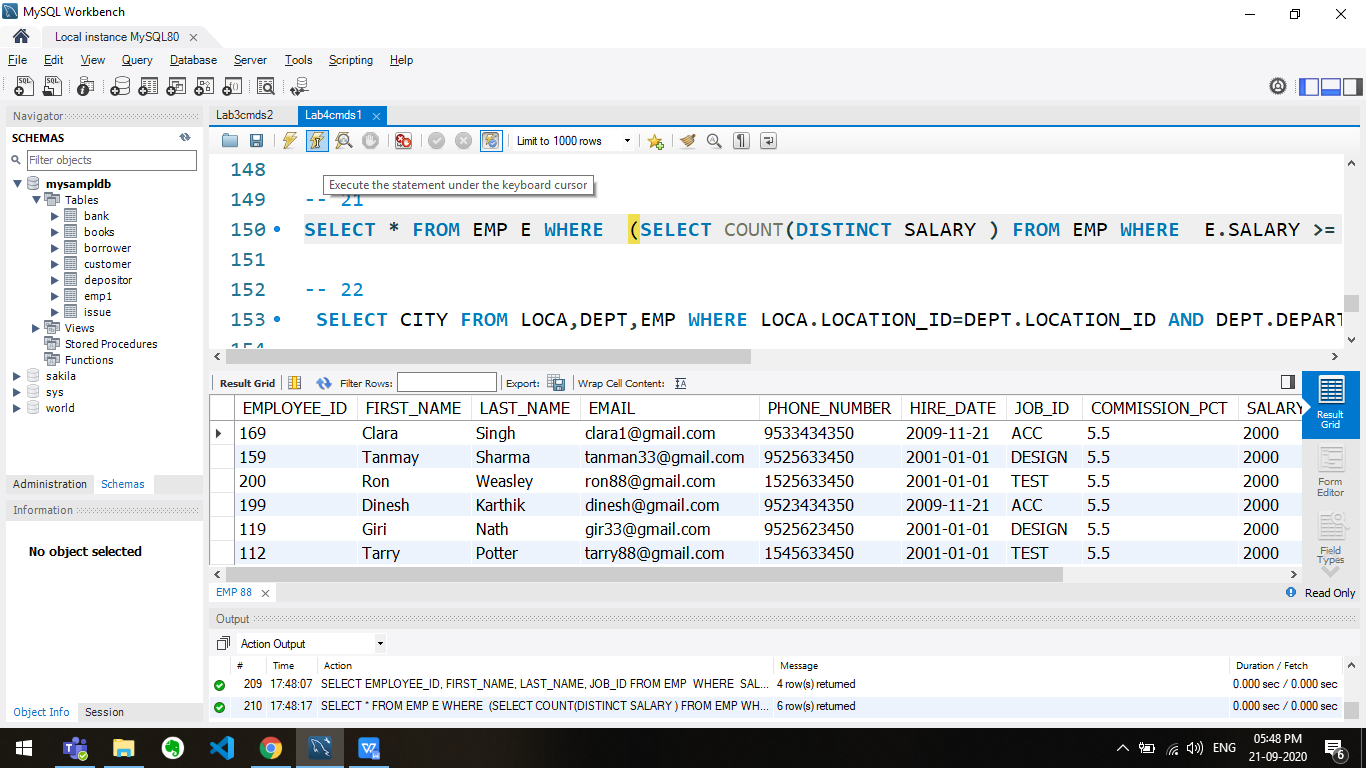
WHERE

SALARY > ALL ( SELECT AVG(SALARY) FROM EMP GROUP BY DEPARTMENT\_ID );



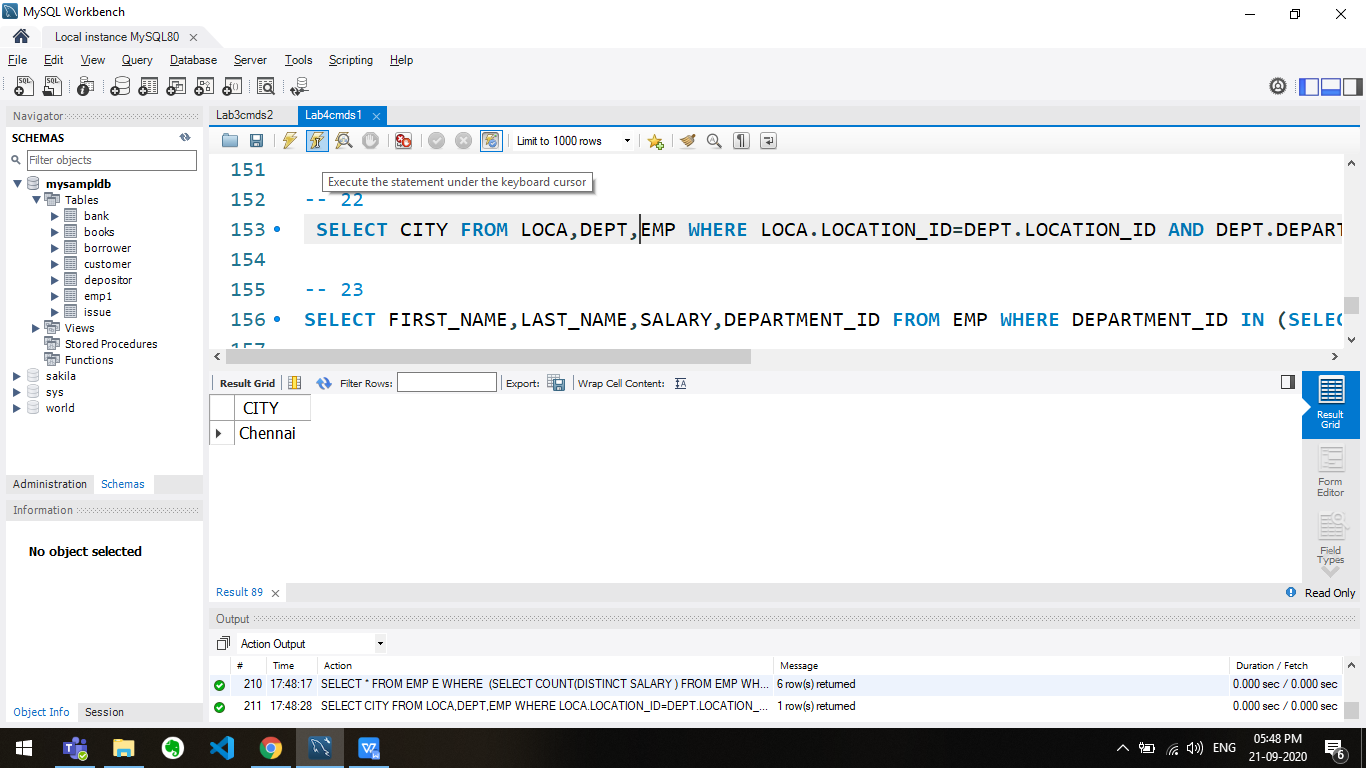
-- 21

SELECT \* FROM EMP E WHERE (SELECT COUNT(DISTINCT SALARY ) FROM EMP WHERE E.SALARY >= SALARY) = 2;



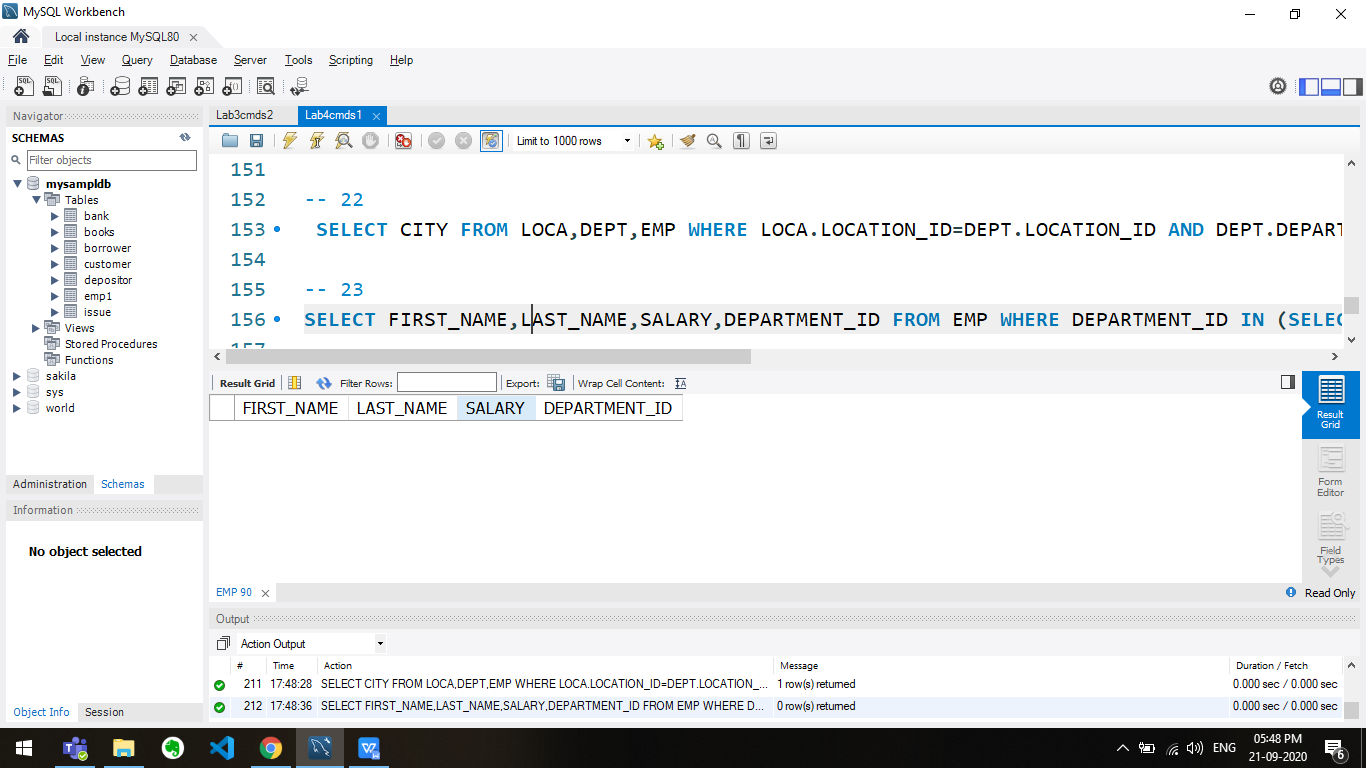
-- 22

SELECT CITY FROM LOCA,DEPT,EMP WHERE LOCA.LOCATION\_ID=DEPT.LOCATION\_ID AND DEPT.DEPARTMENT\_ID=EMP.DEPARTMENT\_ID AND EMPLOYEE\_ID=134;



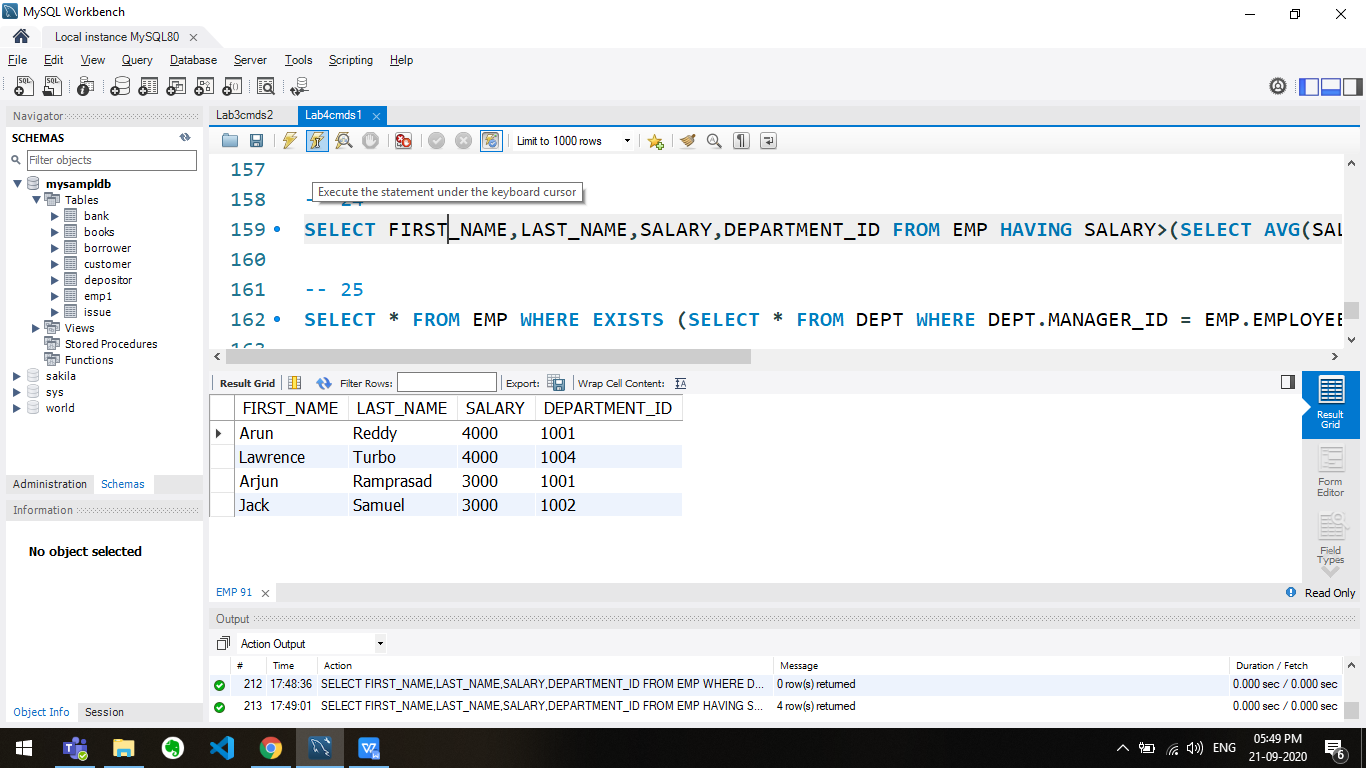
-- 23

SELECT FIRST\_NAME,LAST\_NAME,SALARY,DEPARTMENT\_ID FROM EMP WHERE DEPARTMENT\_ID IN (SELECT DEPARTMENT\_ID FROM DEPT,LOCA WHERE DEPT.LOCATION\_ID=LOCA.LOCATION\_ID AND CITY='LONDON');



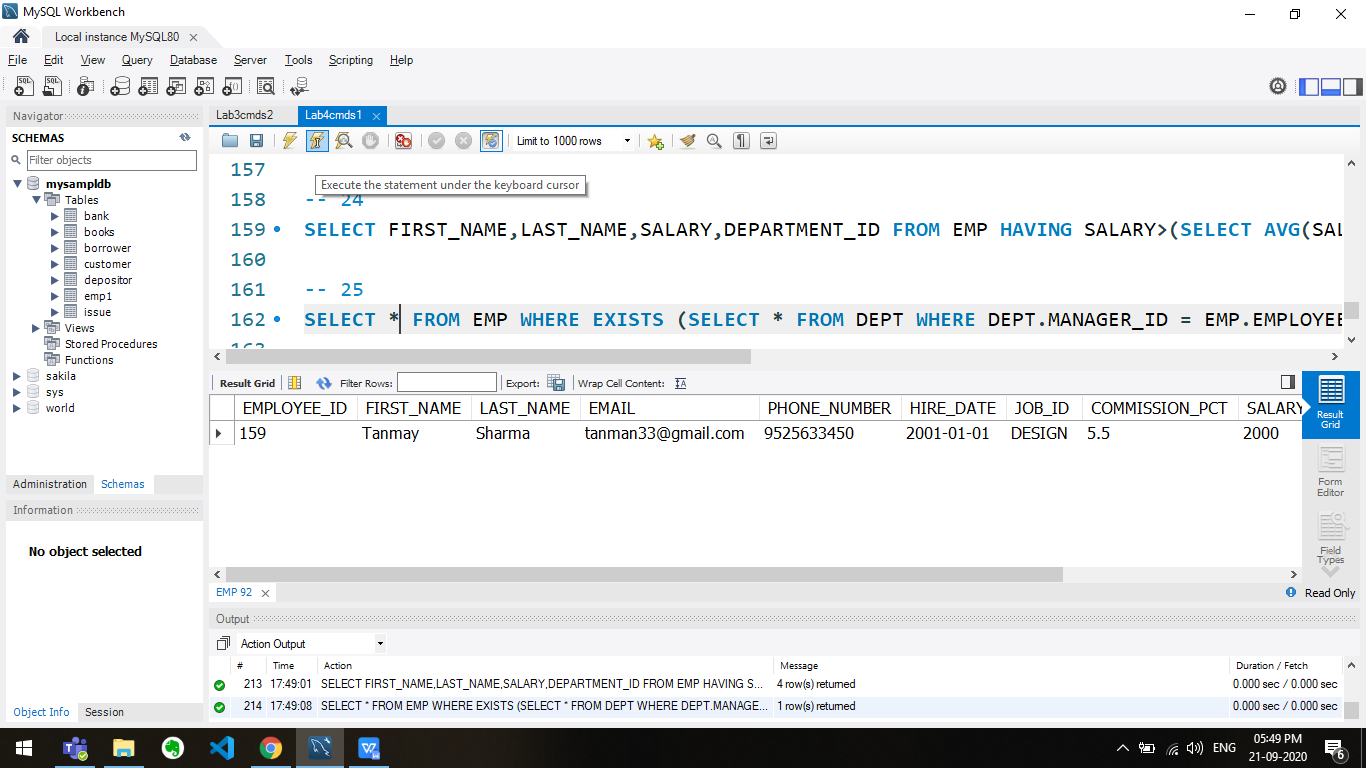
-- 24

SELECT FIRST\_NAME,LAST\_NAME,SALARY,DEPARTMENT\_ID FROM EMP HAVING SALARY>(SELECT AVG(SALARY) FROM EMP) ORDER BY SALARY DESC;



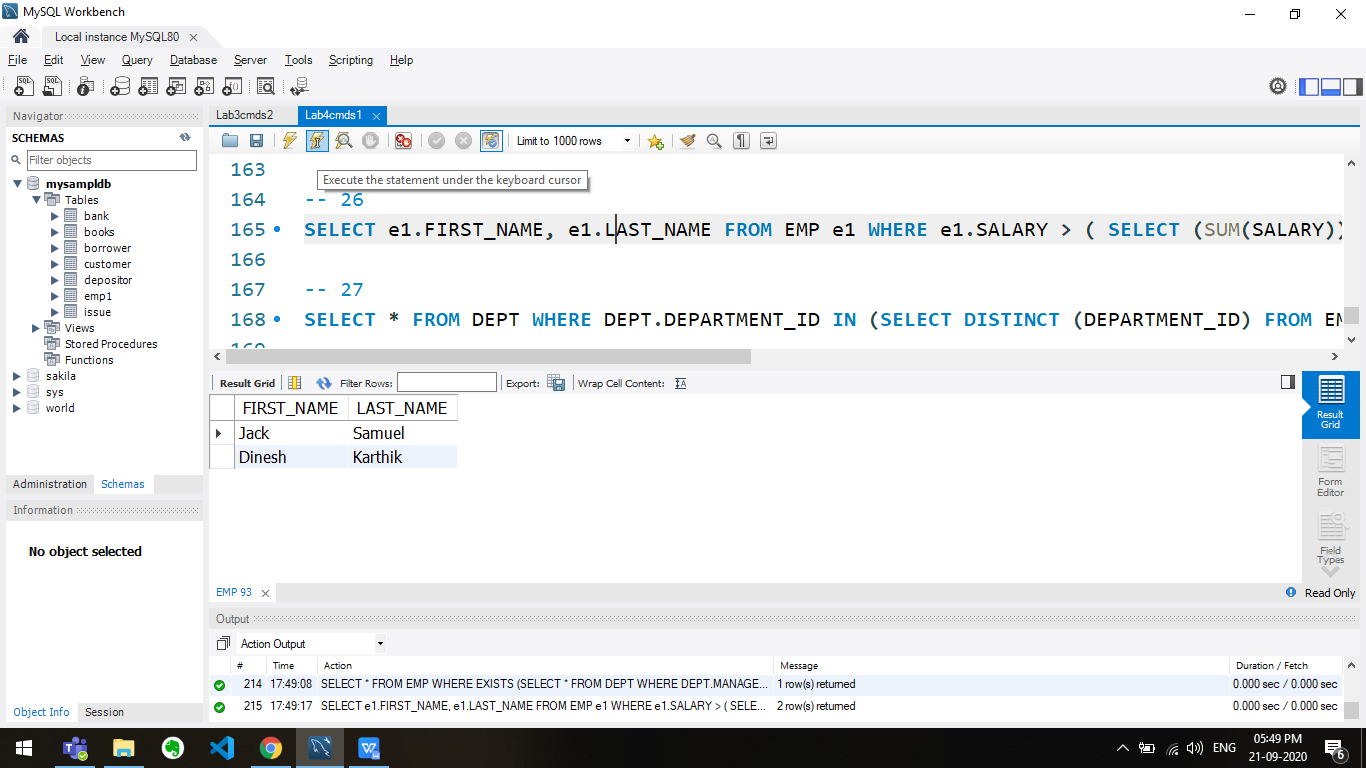
-- 25

SELECT \* FROM EMP WHERE EXISTS (SELECT \* FROM DEPT WHERE DEPT.MANAGER\_ID = EMP.EMPLOYEE\_ID);



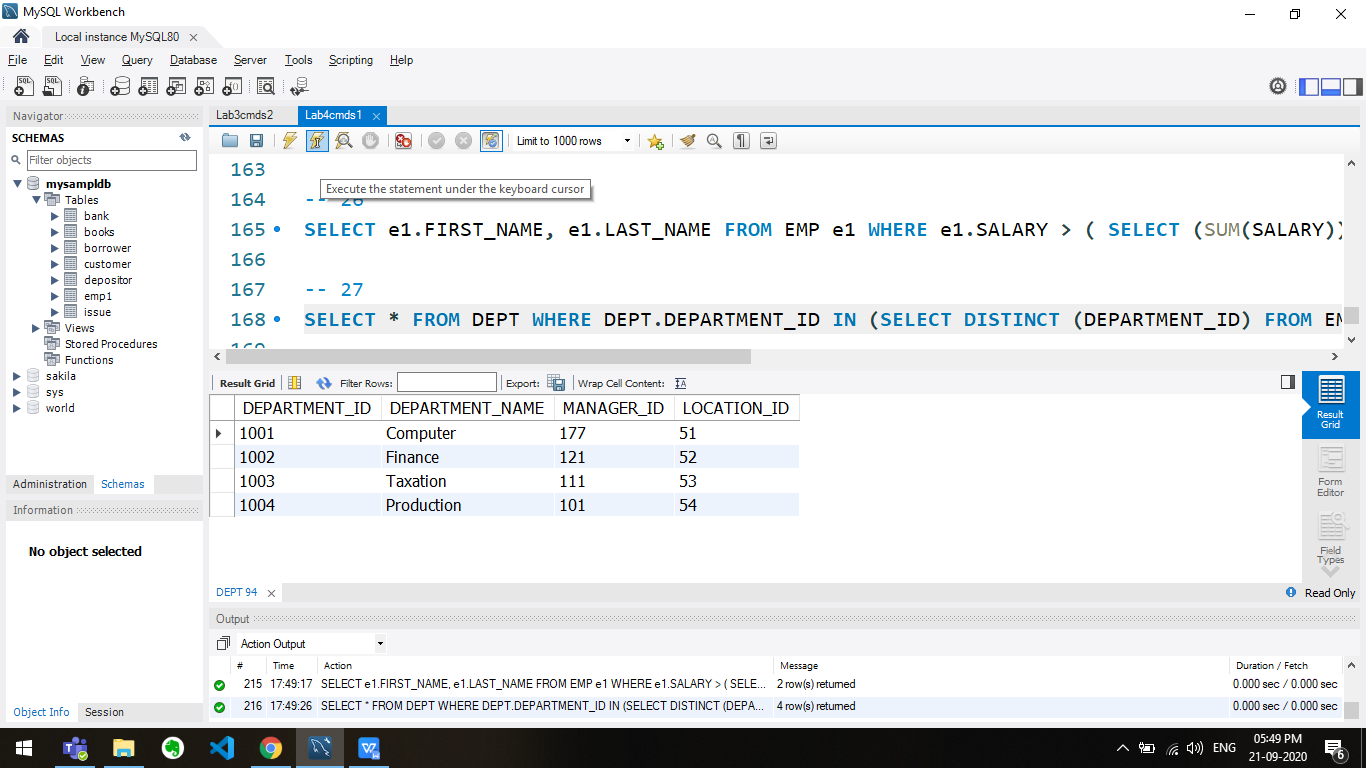
-- 26

SELECT e1.FIRST\_NAME, e1.LAST\_NAME FROM EMP e1 WHERE e1.SALARY > ( SELECT (SUM(SALARY))\*0.5 FROM EMP e2 WHERE e1.DEPARTMENT\_ID = e2.DEPARTMENT\_ID);



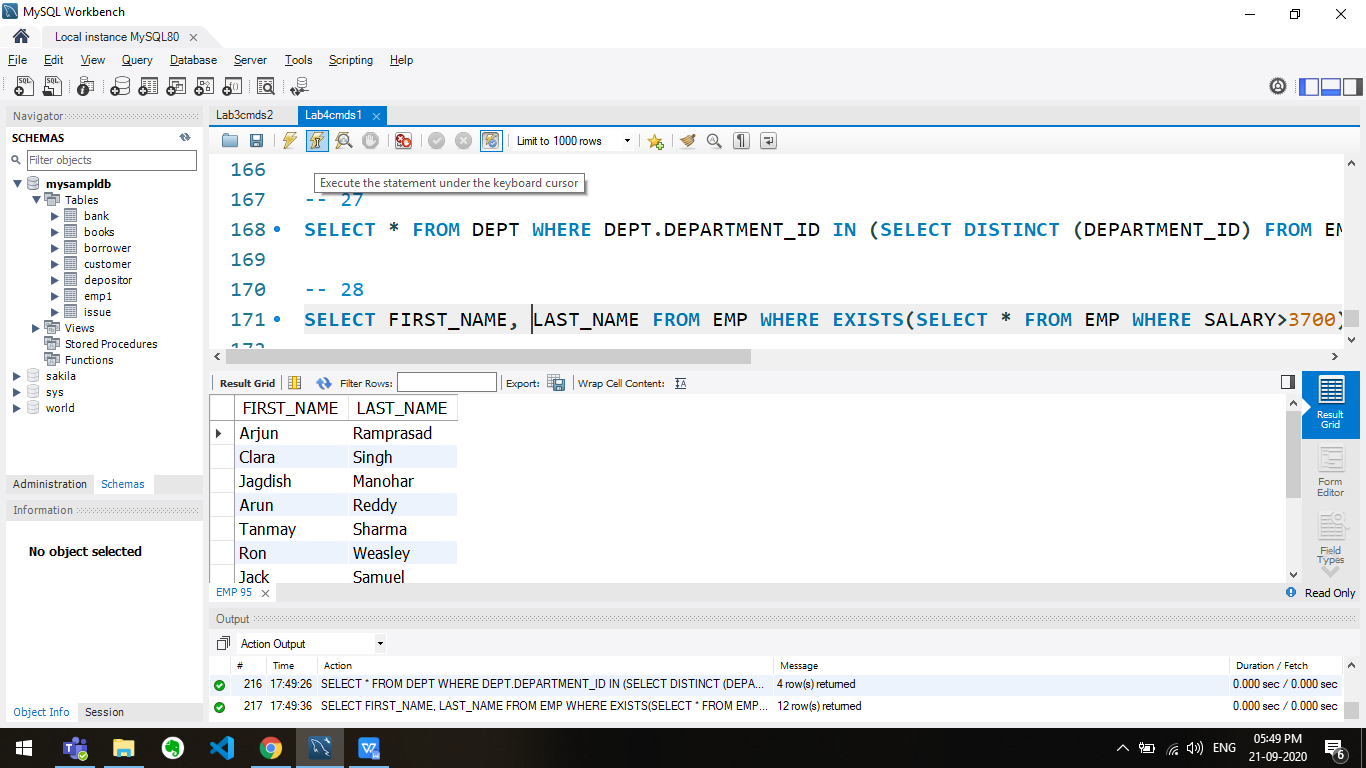
-- 27

SELECT \* FROM DEPT WHERE DEPT.DEPARTMENT\_ID IN (SELECT DISTINCT (DEPARTMENT\_ID) FROM EMP);



-- 28

SELECT FIRST\_NAME, LAST\_NAME FROM EMP WHERE EXISTS(SELECT \* FROM EMP WHERE SALARY>3700);



-- 29

SELECT DEPARTMENT\_ID, DEPARTMENT\_NAME FROM DEPT WHERE NOT EXISTS(SELECT \* FROM EMP WHERE EMP.DEPARTMENT\_ID = DEPT.DEPARTMENT\_ID);

