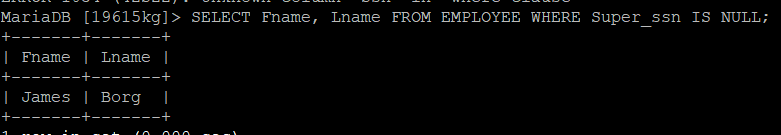
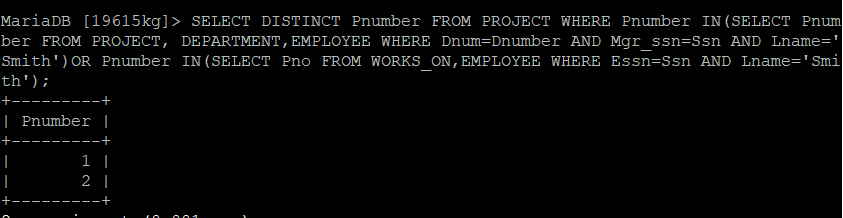
Homework 3B

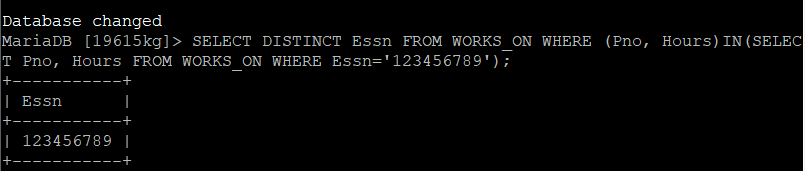
SELECT Fname, Lname FROM EMPLOYEE WHERE super\_ssn IS NULL;



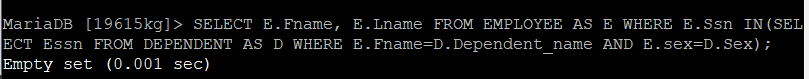
SELECT DISTINCT Pnumber FROM PROJECT WHERE Pnumber IN (SELECT Pnumber FROM PROJECT, DEPARTMENT, EMPLOYEE WHERE Dnum=Dnumber AND Mgr\_Ssn AND Lname=’Smith’)OR Pnumber IN (SELECT Pno FROM WORKS\_ON,EMPLOYEE WHERE Essn=Ssn AND Lname=’Smith’);



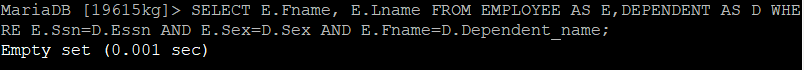
SELECT DISTINCT Essn FROM WORKS\_ON WHERE (Pno, Hours)IN(SELECT Pno, Hours FROM WORKS\_ON WHERE Essn='123456789');



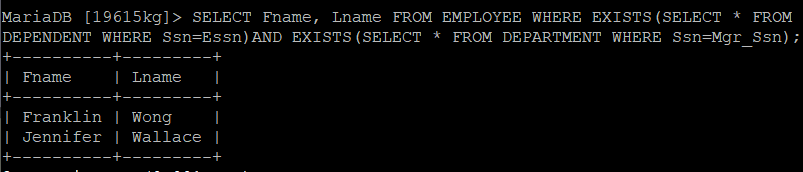
SELECT E.Fname, E.Lname FROM EMPLOYEE AS E WHERE E.Ssn IN(SELECT Essn FROM DEPENDENT AS D WHERE E.Fname=D.Dependent\_name AND E.sex=D.Sex);



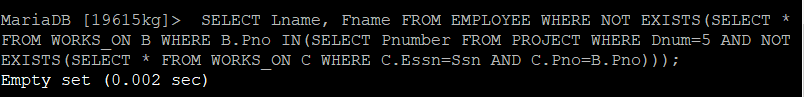
SELECT E.Fname, E.Lname FROM EMPLOYEE AS E,DEPENDENT AS D WHERE E.Ssn=D.Essn AND E.Sex=D.Sex AND E.Fname=D.Dependent\_name;

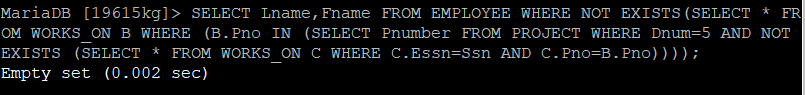


SELECT Fname, Lname FROM EMPLOYEE WHERE EXISTS(SELECT \* FROM DEPENDENT WHERE Ssn=Essn)AND EXISTS(SELECT \* FROM DEPARTMENT WHERE Ssn=Mgr\_Ssn);

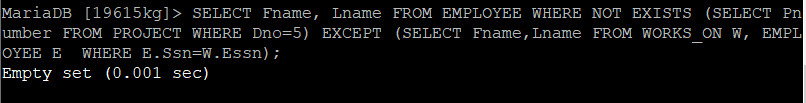


SELECT Lname, Fname FROM EMPLOYEE WHERE NOT EXISTS(SELECT \* FROM WORKS\_ON B WHERE B.Pno IN(SELECT Pnumber FROM PROJECT WHERE Dnum=5 AND NOT EXISTS(SELECT \* FROM WORKS\_ON C WHERE C.Essn=Ssn AND C.Pno=B.Pno)));

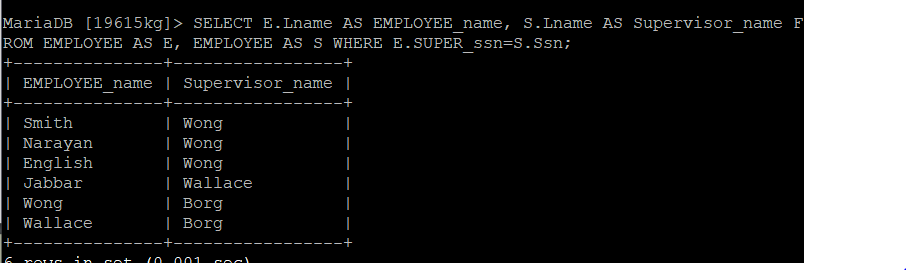


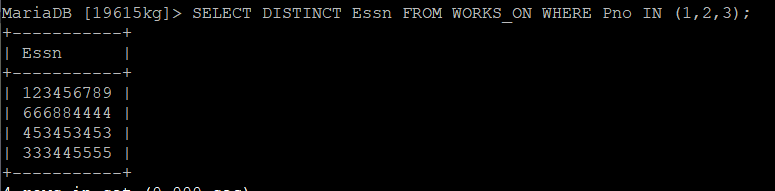


SELECT Fname, Lname FROM EMPLOYEE E WHERE NOT EXISTS (SELECT Pnumber FROM PROJECT WHERE Dno=5) EXCEPT (SELECT Fname, Lname FROM WORKS\_ON W,EMPLOYEE E WHERE E.Ssn=Essn);



SELECT E.Lname AS EMPLOYEE\_name, S.Lname AS Supervisor\_name FROM EMPLOYEE AS E, EMPLOYEE AS S WHERE E.SUPER\_ssn=S.Ssn;



SELECT DISTINCT Essn FROM WORKS\_ON WHERE Pno IN (1,2,3);

SELECT E.Lname AS EMPLOYEE\_name, S.Lname AS Supervisor\_name FROM EMPLOYEE AS E, EMPLOYEE AS S WHERE E.Super\_ssn=S.Ssn;

