1. SELECT Fname FROM employee, works\_on, project WHERE ssn = Essn AND Dno = Dnum AND Pname = "ProductX" AND Pno = Pnumber;

https://i.imgur.com/GYs5RfM.png

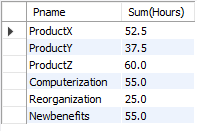
1. SELECT Fname FROM employee, dependent WHERE Dependent\_name = Fname;

https://i.imgur.com/svzgHh4.png

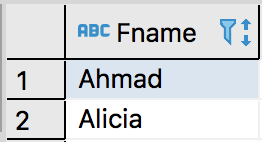
1. SELECT Fname FROM employee WHERE Super\_ssn IN (SELECT Mgr\_ssn FROM department, employee WHERE Fname = "Franklin" AND Lname = "Wong" AND Mgr\_ssn = Ssn);



1. SELECT Pname, Sum(Hours) FROM project, works\_on WHERE Pno = Pnumber GROUP BY Pnumber;



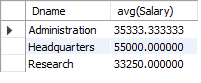
1. SELECT Fname FROM EMPLOYEE WHERE NOT EXISTS ( SELECT \* FROM WORKS\_ON B WHERE (B.Pno IN (SELECT Pno FROM CLIENT WHERE Cname = “JPL”) AND NOT EXISTS (SELECT \* FROM WORKS\_ON C WHERE C.Essn = Ssn AND C.Pno = B.Pno)));



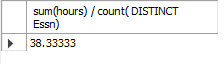
1. SELECT Fname from employee WHERE Ssn NOT IN (SELECT DISTINCT Essn FROM works\_on WHERE Pno IN (SELECT Pno FROM client WHERE Cname = "JPL"));



1. SELECT Dname, avg(Salary) FROM department, employee WHERE Dno = Dnumber GROUP BY Dno;



1. SELECT sum(hours) / count(DISTINCT Essn) FROM works\_on WHERE Essn IN (SELECT ssn FROM employee WHERE sex = "F");



1. SELECT Fname, Address FROM employee WHERE Ssn IN ( SELECT Essn FROM works\_on WHERE Pno IN (SELECT Pnumber FROM project WHERE Plocation = "Houston")) AND Dno NOT IN (SELECT Dnumber FROM dept\_locations WHERE Dlocation = "Houston");

https://i.imgur.com/xRfw7WT.png

1. SELECT Lname FROM employee WHERE Ssn IN (SELECT Mgr\_ssn FROM department WHERE Mgr\_ssn NOT IN (SELECT Essn FROM dependent));

https://i.imgur.com/jefPyll.png