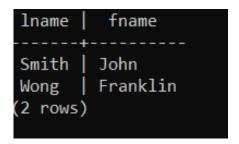
SQL – Joins: inner, outer; Sub queries

WEEK 8

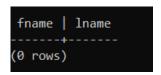
1. Using nested query retrieve the names of all employees who have two or more dependents.

SELECT LNAME , FNAME FROM EMPLOYEE WHERE (SELECT COUNT (*) FROM DEPENDENT WHERE SSN = ESSN) >=2;



2. Using nested query Retrieve the name of each employee who has a dependent with the same first name and is the same sex as the employee.

SELECT E.FNAME, E.LNAME FROM EMPLOYEE AS E WHERE E.SSN IN (SELECT ESSN FROM DEPENDENT WHERE E.FNAME = DEPENDENT_NAME AND E.gender = gender);



3. Using nested query retrieve names of employees whose salary is greater than the salary of all the employees in department 5.

select fname, Iname from employee E where E.salary > (select max(salary) from employee where dno=5);



4. Retrieve the names of employees who have no dependents.(use Exists/Not Exists)

select fname, Iname from employee E where not exists (select essn from dependent D where D.essn = E.ssn);

fname	lname
James Alicia Ramesh Joyce Ahmed (5 rows)	Borg Zelaya Narayan English Jabbar

5. List the names of managers who have at least one dependent.

select fname, Iname from employee E inner join department D on E.ssn=D.mgr_ssn inner join dependent p on E.ssn=essn group by fname, Iname;

fname	lname
Franklin Jennifer (2 rows)	

6. Using natural Join retrieve the name and address of every employee who works for the 'Research' department.

select fname, lname, address from employee natural join (select dname, dnumber as dno from department where dname='Research') as dep_research;

fname	lname	address
John Franklin Ramesh Joyce (4 rows)	Smith Wong Narayan English	731 Fondren,Houston,TX 638 voss,Houston,TX 975 Fire Oak, Humble, TX 5631 Rice,Houston,TX