

PES UNIVERSITY, RR CAMPUS

DBMS LAB WEEK 8

SQL QUERIES – NESTED QUERIES AND JOINS

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SECTION: 'A'

1. Create Database and populate it.

```
postgres=# \i 'C:/Users/anany/Desktop/3rd Year College/DBMS Lab/Week8/companyddl.sql'
DROP DATABASE
CREATE DATABASE
You are now connected to database "company" as user "postgres".
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
ALTER TABLE
company=#
```

[illegible]

2. Run commands as follows:

a. **SELECT FName , Lname
FROM Employee**

```

WHERE
(  SELECT COUNT(*)
   FROM DEPENDENT
   WHERE SSN = ESSN) >=2;

```

fname	lname
John	Smith
Franklin	Wong
(2 rows)	

```

b. 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
  );

```

fname	lname
(0 rows)	

```

c. SELECT E.FName , E.Lname
   FROM Employee AS E
  WHERE E.SALARY > all(
    SELECT SALARY
    FROM Employee
   WHERE DNO = 5
  );

```

fname	lname
James	Borg
Jennifer	Wallace
(2 rows)	

d. **SELECT FName , Lname**
FROM Employee
WHERE NOT EXISTS
(
 SELECT *
 FROM DEPENDENT
 WHERE SSN = ESSN
);

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

e. **SELECT FName , Lname**
FROM Employee
WHERE EXISTS
(
 SELECT *
 FROM DEPENDENT
 WHERE ESSN = SSN
)
AND EXISTS
(
 SELECT *
 FROM DEPARTMENT

```
WHERE SSN = MGR_SSN  
);
```

fname	lname
Franklin	Wong
Jennifer	Wallace
(2 rows)	

```
f. SELECT FName, Lname , ADDRESS  
FROM  
(  
    EMPLOYEE JOIN DEPARTMENT ON DNO = DNUMBER  
)  
WHERE DNAME = 'Research';
```

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