

PES UNIVERSITY EC CAMPUS DBMS LAB WEEK 8

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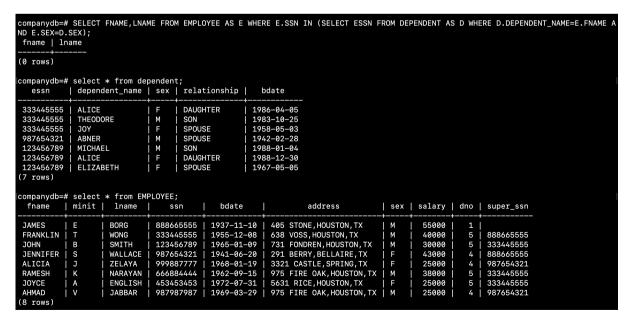
SECTION: E

PROBLEM STATEMENT: SQL - Joins: inner, outer; Sub queries

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

	SELECT lname	FNAME, LNAME	FROM	EMPLOYEE	WHERE	(SELECT	COUNT(*)	FROM	DEPENDENT	WHERE	SSN=ESSN)>=2;
FRANKLIN	WONG										
JOHN (2 rows)	SMITH										
companydb=#											

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.



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

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

```
companydb=# SELECT FNAME,LNAME FROM EMPLOYEE WHERE NOT EXISTS(SELECT * FROM DEPENDENT WHERE SSN=ESSN); fname | lname
  JAMES
                  BORG
  ALICIA
                  ZELAYA
 RAMESH
                  NARAYAN
  JOYCE
                  ENGLISH
 AHMAD
                  JABBAR
(5 rows)
companydb=# select * from EMPLOYEE;
  fname | minit | lname | ss
                                                                                  bdate
                                                                                                                                                      | sex | salary | dno | super_ssn
                                                              ssn
                                                                                                                       address
                                                                              1937-11-10 | 405 STONE, HOUSTON, TX

1955-12-08 | 638 VOSS, HOUSTON, TX

1965-01-09 | 731 FONDREN, HOUSTON, T

1941-06-20 | 291 BERRY, BELLAIRE, TX

1968-01-19 | 3321 CASTLE, SPRING, TX

1968-01-15 | 975 FIRE OAK, HOUSTON,

1972-07-31 | 5631 RICE, HOUSTON, TX
                                                        888665555
  JAMES
                                      BORG
                                                                                                                                                                       55000
  FRANKLIN
                                                         333445555
                                                                                                                                                                        40000
                                                                                                                                                                                                  888665555
                                                                              1955-12-08 | 638 VOSS, HOUSTON, TX | M
1965-01-09 | 731 FONDREN, HOUSTON, TX | M
1941-06-20 | 291 BERRY, BELLAIRE, TX | F
1968-01-19 | 3321 CASTLE, SPRING, TX | F
1962-09-15 | 975 FIRE OAK, HOUSTON, TX | M
1972-07-31 | 5631 RICE, HOUSTON, TX | F
1969-03-29 | 975 FIRE OAK, HOUSTON, TX | M
                                                        123456789
987654321
 JOHN |
JENNIFER |
                     B
S
                                     SMITH
WALLACE
                                                                                                                                                                       30000
43000
                                                                                                                                                                                                  333445555
                                                                                                                                                                                                  888665555
 ALICIA
RAMESH
                                     ZELAYA
NARAYAN
                                                        999887777
666884444
                                                                                                                                                                                                  987654321
333445555
                      J
K
                                                                                                                                                                       25000
                                                                                                                                                                                          4
5
                                                                                                                                                                       38000
                                                        453453453
                                                                                                                                                                                                  333445555
  JOYCE
                                      ENGLISH
                                                                                                                                                                        25000
 AHMAD
                                     JABBAR
                                                        987987987
                                                                                                                                                                       25000
                                                                                                                                                                                                  987654321
(8 rows)
companydb=# select * from dependent;
essn | dependent_name | sex | relationship |
                                                                                                   bdate
 333445555 |
                       ALICE
THEODORE
                                                                    DAUGHTER
                                                                                                 1986-04-05
                                                                                                1986-04-05
1983-10-25
1958-05-03
1942-02-28
1988-01-04
1988-12-30
 333445555
333445555
                                                                   SON
SPOUSE
SPOUSE
                                                        JOY
ABNER
  987654321
 123456789
123456789
                                                                    SON
DAUGHTER
                        MICHAEL
                        ALICE
  123456789
                        ELIZABETH
                                                                    SPOUSE
 (7 rows)
```

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

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

companydb=#	# SELECT lname		ME,ADDRESS F address	ROM EMPLOYEE A	AS E, DEPARTMENT AS D WHERE	E.DNO	=D.DNUMBE	R AND [D.DNAME='RESEARCH';
FRANKLIN WONG 638 VOSS, HOUSTON, TX JOHN SMITH 731 FONDREN, HOUSTON, TX RAMESH NARAYAN 975 FIRE OAK, HOUSTON, TX JOYCE ENGLISH 5631 RICE, HOUSTON, TX (4 rows)									
companydb=#		* FROM DE		mgr_start_date	•				
RESEARCH ADMINISTRA HEADQUARTE (3 rows) companydb=#	ERS f select	4 1 : * from EM	987654321 888665555 PLOYEE;		-				
fname	minit	lname +	ssn +	bdate +	address	sex	salary +	dno 	super_ssn +
JAMES	E	BORG	888665555	1937-11-10	405 STONE, HOUSTON, TX	M	55000	1	
FRANKLIN	T	WONG	333445555	1955-12-08	638 VOSS, HOUSTON, TX	M	40000	5	888665555
JOHN JENNIFER	B S	SMITH WALLACE	123456789 987654321	1965-01-09 1941-06-20	731 FONDREN,HOUSTON,TX 291 BERRY,BELLAIRE,TX	M F	30000 43000	5 4	333445555 888665555
ALICIA	J	ZELAYA	999887777	1968-01-19	3321 CASTLE, SPRING, TX	Ė	25000	4	987654321
RAMESH	K	NARAYAN	666884444	1962-09-15	975 FIRE OAK, HOUSTON, TX	i M	38000	5	333445555
JOYCE	A	ENGLISH	453453453	1972-07-31	5631 RICE, HOUSTON, TX	F	25000	5	333445555
AHMAD	V	JABBAR	987987987	1969-03-29	975 FIRE OAK, HOUSTON, TX		25000	4	987654321
(8 rows)	<i>‡</i>								