

PES UNIVERSITY

DATABASE MANAGEMENT SYSTEM

LABORATORY

UE19CS304

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WEEK: 08

Problem Statement:

Write the SQL query for the following.

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

```
postgres=# \c company
You are now connected to database "company" as user "postgres".
company=# SELECT LNAME, FNAME
company-# FROM EMPLOYEE
company-# WHERE (SELECT COUNT (*)
company-# FROM DEPENDENT
company-#          WHERE SSN = ESSN) >= 2;
 lname | fname
-----+-----
 Smith | John
  Wong | Franklin
(2 rows)
```

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.

```
company=# SELECT Fname, Lname
company-# FROM Employee
company-# WHERE Ssn IN (SELECT Essn
company-#          FROM Dependent
company-#          WHERE Fname = Dependent_name
company-#          AND Gender = Gender);
 fname | lname
-----+-----
(0 rows)
```

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

```
company=# SELECT Fname,Lname
company-# FROM Employee
company-# WHERE Salary>ALL (SELECT Salary
company-# FROM Employee
company-# WHERE Dno = 5);
 fname | lname
-----+-----
 James | Borg
Jennifer | Wallace
(2 rows)
```

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

```
company=# SELECT Fname,Lname
company-# FROM Employee
company-# WHERE NOT EXISTS (SELECT *
company-# FROM Dependent
company-# WHERE Ssn = Essn);
 fname | lname
-----+-----
 James | Borg
Alicia | Zelaya
Ramesh | Narayan
Joyce | English
Ahmed | Jabbar
(5 rows)
```

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

```
company=# SELECT Fname , Lname
company-# FROM Employee
company-# WHERE EXISTS(SELECT *
company-# FROM Dependent
company-# WHERE Ssn = Essn)
company-# AND EXISTS(SELECT *
company-# FROM Department
company-# WHERE Ssn = Mgr_ssn);
 fname | lname
-----+-----
Franklin | Wong
Jennifer | Wallace
(2 rows)
```

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

```
company=# SELECT Fname,Lname,Address
company=# FROM   (Employee NATURAL JOIN Department)
company=# WHERE  Dno=Dnumber AND 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)
```
