

DBMS Laboratory

UE19CS304

5th Semester, Academic Year 2021-22

Week #: 8 - Joins: inner,outer; Sub Queries

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

```
company=# select fname,lname from employee where (select count(*) from dependent where ssn=essn) >=2;
  fname | lname
-----+-----
  John   | Smith
Franklin | Wong
(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 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)
```

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 from employee where salary > (select max(salary) from employee 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 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)
```

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

```
company=# select fname,lname from employee where exists (select * from dependent where ssn=essn) and exists (select * from department 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 from employee where dno in (select dno from employee natural join department as department(dname,dno,mgr_ssn,magr_start_date) 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)
```