

PES UNIVERSITY , RR CAMPUS

DBMS LAB WEEK 7 – SET QUERIES

ANANYA UPPAL

PES1UG19CS058

SECTION : 'A'

1. Create the database and DDL.

```
postgres=# \i 'C:/Users/anany/Desktop/3rd Year College/DBMS Lab/Week7/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=#
```

- ## 2. Populate the Database.

[illegible]

3. Implement commands

```
company=# (SELECT DISTINCT PNUMBER
company(# FROM PROJECT, DEPARTMENT, EMPLOYEE
company(# WHERE DNUM = DNUMBER AND MGR_SSN = SSN AND LNAME = 'Smith')
company-# UNION
company-# (SELECT DISTINCT PNUMBER
company(# FROM PROJECT, WORKS_ON, EMPLOYEE
company(# WHERE PNUMBER = PNO AND ESSN = SSN AND LNAME = 'Smith');
pnumber
-----
      1
      2
(2 rows)
```

```
company=# SELECT FNAME, MINIT, LNAME FROM EMPLOYEE WHERE SSN NOT IN ((SELECT SSN FROM EMPLOYEE) INTERSECT (SELECT ESSN FROM DEPENDENT));
fname | minit | lname
-----+-----+-----
James  | E     | Borg
Alicia | J     | Zelaya
Ramesh | K     | Narayan
Joyce  | A     | English
Ahmed  | V     | Jabbar
(5 rows)
```

```
company=# SELECT SSN FROM EMPLOYEE WHERE DNO=5
company-# UNION
company-# SELECT SUPER_SSN FROM EMPLOYEE WHERE DNO=5;
ssn
-----
123456789
333445555
453453453
666884444
888665555
(5 rows)
```

```
company=# (SELECT PNUMBER FROM PROJECT WHERE DNUM=5)
company-# INTERSECT
company-# (SELECT PNO FROM WORKS_ON WHERE Essn='123456789');
pnumber
-----
      1
      2
(2 rows)
```

```
company=# (SELECT SSN FROM EMPLOYEE WHERE DNO=5)
company=# EXCEPT
company=# (SELECT E.SSN FROM EMPLOYEE E, PROJECT P, WORKS_ON W WHERE P.PLOCATION='Bellaire' AND W.PNO=P.PNUMBER AND W.ESSN=E.SSN);
      Ssn
-----
666884444
333445555
(2 rows)
```

```
company=# (SELECT FNAME FROM EMPLOYEE)
company=# INTERSECT
company=# (SELECT DEPENDENT_NAME FROM DEPENDENT);
      fname
-----
(0 rows)
```