DBMS Laboratory UE19CS304

5th Semester, Academic Year 2021-22

Week #: 7 - Set Theory Operations

Date: 23/10/2021

Name : SRN : Section : H

1. Make a list of all project numbers for projects that involve an employee whose last name is 'Smith', either as a worker or as a manager of the department that controls the project.

2. Retrieve the names of the employee who does not have dependents.

3. Retrieve the Social Security numbers of all employees who either work in department 5 or directly supervise an employee who works in department 5.

```
company=# (select ssn from employee where dno = 5) union (select super_ssn from employee where dno = 5);
ssn
-------
123456789
333445555
453453453
666884444
888665555
(5 rows)
```

4. Using Intersect find all projects controlled by the department 5 and has employee ssn 123456789 working in that project.

```
company=# (select pname, pnumber from project where dnum = 5) intersect (select pname, pnumber from project, works_on where project.pnumber = works_on.pno and works_on.essn = '123456789');
pname | pnumber

ProductY | 2
ProductY | 1
(2 rows)
```

5. Using Except find all ssn of employees who works in department 5 but not in Bellaire location

6. Find the name of the employee who has the same name as the dependent of any employee

```
company=# (select fname from employee) intersect (select dependent_name from dependent);
  fname
-----
(0 rows)
```