

## Creating Tables and inserting values

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.

- 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 distinct pname from project where pnumber in( select distinct pno from works_on where essn = '123456789')
company=# intersect
company=# select distinct pname from project where dnum = 5;
      pname
-----
ProductY
ProductX
(2 rows)
```

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

```
company=# select ssn from employee where dno = 5 except ( select ssn from works_on, project, employee where ssn = essn and pno = pnumber and plocation = 'Bellaire' );
      ssn
-----
666884444
333445555
(2 rows)
```

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

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