

```
company=# select sum(Salary)
company=# from employee,department
company=# where dname = 'Research' and dno = dnumber;
      sum
-----
 133000.00
(1 row)

company=# select max(Salary),min(Salary),avg(Salary)
company=# from employee,department
company=# where dname='Research' and dno = dnumber;
      max      |      min      |      avg
-----+-----+-----
 40000.00 | 25000.00 | 33250.000000000000000000
(1 row)

company=#
```

3. Count the number of distinct salary values in the database.

```
company=# select count(distinct Salary) from employee;
count
-----
      6
(1 row)

company=#
```

4. Retrieve the names of all employees who have two or more dependents.

```
company=# select distinct fname,lname
company-# from employee,dependent
company-# where (select count(essn)
company-# from dependent where ssn=essn)>1;
 fname | lname
-----+-----
Franklin | Wong
John    | Smith
(2 rows)

company=#
```

5. For each department, retrieve the department number, the number of employees in the department, and their average salary.

```
company=# select dno as number,count(dno) as count,avg(salary) as average_salary
company-# from employee group by dno;
 number | count | average_salary
-----+-----+-----
      5 |      4 | 33250.000000000000
      4 |      3 | 31000.000000000000
      1 |      1 | 55000.000000000000
(3 rows)

company=#
```

6. Retrieve the names of employees who make at least \$10,000 more than the employee who is paid the least in the company.

```
company=# select fname,lname
company-# from employee
company-# where salary >= ((select min(salary) from employee)+10000);
  fname  |  lname
-----+-----
James    | Borg
Franklin | Wong
Jennifer | Wallace
Ramesh   | Narayan
(4 rows)

company=# █
```

7. Retrieve the names of all employees who work in the department that has the employee with the highest salary among all employees.

```
company=# select fname,lname,salary,dno
company-# from employee
company-# where salary in(select max(salary) from employee group by dno);
  fname  |  lname  | salary | dno
-----+-----+-----+----
James    | Borg    | 55000.00 | 1
Franklin | Wong    | 40000.00 | 5
Jennifer | Wallace | 43000.00 | 4
(3 rows)

company=# select fname,lname
company-# from employee
company-# where dno=(select dno from employee
company-# where salary = (select max(salary) from employee));
  fname |  lname
-----+-----
James  | Borg
(1 row)

company=# █
```

8. Count the total number of employees whose salaries exceed \$40,000 in each department

```
company=# select dno,count(*)
company-# from employee
company-# where salary >= 40000 group by dno;
 dno | count
-----+-----
    4 |      1
    1 |      1
    5 |      1
(3 rows)

company=#
```