Below are the results from the queries I produced from the employees database.

-- List the employee number, last name, first name, sex, and salary of each employee

```
Select e.emp_no, e.first_name, e.last_name, e.sex, s.salary
from employees as e
join salaries as s
on (e.emp_no = s.emp_no);
```

Query | Query History

```
1  -- List the employee number, last name, first name, sex, and salary of each emp
2
3  Select e.emp_no, e.first_name, e.last_name, e.sex, s.salary
4  from employees as e
5  join salaries as s
6  on (e.emp_no = s.emp_no);
7
```

Data Output | Messages | Notifications

	emp_no integer	first_name character varying (150)	last_name character varying (200)	sex character varying (5)	salary double precision
1	477657	Lihong	Magliocco	M	54816
2	29920	Shuichi	Tyugu	F	40000
3	13616	Perry	Lorho	F	40000
4	21529	Bojan	Zallocco	M	40000
5	240129	Roddy	Karnin	M	43548

-- List the first name, last name, and hire date for the employees who were hired in 1986

```
Select e.first_name, e.last_name, e.hire_date
from employees as e
WHERE EXTRACT(YEAR FROM e.hire_date) = 1986;
```

```
8   -- List the first name, last name, and hire date
9
10  Select e.first_name, e.last_name, e.hire_date
11  from employees as e
12  WHERE EXTRACT(YEAR FROM e.hire_date) = 1986;
```

Data Output | Messages | Notifications

	first_name character varying (150)	last_name character varying (200)	hire_date date
1	Eran	Cusworth	1986-11-14
2	Bojan	Zallocco	1986-10-14
3	Nevio	Demizu	1986-05-18
4	Ziva	Vecchi	1986-07-03
5	Mohit	Speek	1986-01-14

-- List the manager of each department along with their department number, department name, employee number, last name, and first name.

```
Select e.emp_no, e.first_name, e.last_name, de.dept_name , d.dept_no
from employees as e
join dept_manager as d
on (e.emp_no = d.emp_no)
        join departments as de
        on (d.dept_no = de.dept_no);
```

Query Query History

```
16  Select e.emp_no, e.first_name, e.last_name, de.dept_name , d.dept_no
17  from employees as e
18  join dept_manager as d
19  on (e.emp_no = d.emp_no)
20      join departments as de
21      on (d.dept_no = de.dept_no);
22
```

Data Output Messages Notifications

	emp_no integer	first_name character varying (150)	last_name character varying (200)	dept_name character varying (50)	dept_no character varying (5)
1	110022	Margareta	Markovitch	Marketing	d001
2	110039	Vishwani	Minakawa	Marketing	d001
3	110085	Ebru	Alpin	Finance	d002
4	110114	Isamu	Legleitner	Finance	d002
5	110183	Shirish	Ossenbruggen	Human Resources	d003

-- List the department number for each employee along with that employee's employee number, last name, first name, and department name.

Select e.emp_no, e.first_name, e.last_name, de.dept_name , d.dept_no

from employees as e

join dept_emp as d

on (e.emp_no = d.emp_no)

join departments as de

on (de.dept_no = d.dept_no);

Query Query History

```
24
25  Select e.emp_no, e.first_name, e.last_name, de.dept_name , d.dept_no
26  from employees as e
27  join dept_emp as d
28  on (e.emp_no = d.emp_no)
29      join departments as de
30      on (de.dept_no = d.dept_no);
```

Data Output Messages Notifications

	emp_no integer	first_name character varying (150)	last_name character varying (200)	dept_name character varying (50)	dept_no character varying (5)
1	10001	Georgi	Facello	Development	d005
2	10005	Kyoichi	Maliniak	Human Resources	d003
3	10010	Duangkaew	Piveteau	Production	d004
4	10010	Duangkaew	Piveteau	Quality Management	d006
5	10011	Mary	Sluis	Customer Service	d009

-- List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.

```
Select e.first_name, e.last_name, e.sex
from employees as e
where e.first_name = 'Hercules'
        and e.last_name like 'B%'
;
```

Query Query History

```
32  -- List first name, last name, and sex of each employee
33
34  Select e.first_name, e.last_name, e.sex
35  from employees as e
36  where e.first_name = 'Hercules'
37      and e.last_name like 'B%'
38  ;
```

Data Output Messages Notifications

	first_name character varying (150)	last_name character varying (200)	sex character varying (5)
1	Hercules	Baer	M
2	Hercules	Biron	F
3	Hercules	Birge	F
4	Hercules	Berstel	F
5	Hercules	Bernatsky	M

```
Select e.first_name, e.last_name, e.emp_no, de.dept_name
from employees as e
join dept_emp as d
        on (d.emp_no = e.emp_no)
        join departments as de
        on (de.dept_no = d.dept_no)
                where de.dept_name = 'Sales';
```

Query | Query History

```
42  Select e.first_name, e.last_name, e.emp_no, de.dept_name
43  from employees as e
44  join dept_emp as d
45      on (d.emp_no = e.emp_no)
46      join departments as de
47      on (de.dept_no = d.dept_no)
48          where de.dept_name = 'Sales';
```

Data Output | Messages | Notifications

	first_name character varying (150)	last_name character varying (200)	emp_no integer	dept_name character varying (50)
1	Bezalel	Simmel	10002	Sales
2	Kazuhito	Cappelletti	10016	Sales
3	Bader	Swan	10034	Sales
4	Uri	Lenart	10041	Sales
5	Yinghua	Dredge	10050	Sales

-- List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name.

```
Select e.first_name, e.last_name, e.emp_no, de.dept_name
from employees as e
join dept_emp as d
        on (d.emp_no = e.emp_no)
        join departments as de
        on (de.dept_no = d.dept_no)
                WHERE de.dept_name IN ('Sales', 'Development');
```

Query | Query History

```
53  Select e.first_name, e.last_name, e.emp_no, de.dept_name
54  from employees as e
55  join dept_emp as d
56      on (d.emp_no = e.emp_no)
57      join departments as de
58      on (de.dept_no = d.dept_no)
59          WHERE de.dept_name IN ('Sales', 'Development');
```

Data Output | Messages | Notifications

SQL

	first_name character varying (150)	last_name character varying (200)	emp_no integer	dept_name character varying (50)
1	Georgi	Facello	10001	Development
2	Bezalel	Simmel	10002	Sales
3	Anneke	Preusig	10006	Development
4	Saniya	Kalloufi	10008	Development
5	Patricio	Bridgland	10012	Development

-- List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name).

Select e.last_name, count(e.emp_no) as num_last_name

from employees as e

group by e.last_name

order by num_last_name desc;

Query | Query History

```
61  -- List the frequency counts, in descending order, of
62
63  Select e.last_name, count(e.emp_no) as num_last_name
64  from employees as e
65  group by e.last_name
66  order by num_last_name desc;
67
```

Data Output | Messages | Notifications

	last_name character varying (200)	num_last_name bigint
1	Baba	226
2	Coorg	223
3	Gelosh	223
4	Sudbeck	222
5	Farris	222