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

```
SELECT
        employee.emp_no,
        last_name,
        first_name,
        sex,
        salary
FROM
        employee
JOIN
        salary
ON
        employee.emp_no = salary.emp_no
ORDER BY
        last_name asc,
        first_name asc
;
```

| | emp_no<br>integer | last_name<br>character varying (50) | first_name<br>character varying (25) | sex<br>character varying (1) | salary<br>double precision |
|---|---|---|---|---|---|
| 1 | 258641 | Aamodt | Abdelkader | M | 42414 |
| 2 | 258005 | Aamodt | Adhemar | F | 40000 |
| 3 | 455773 | Aamodt | Aemilian | M | 77921 |
| 4 | 436560 | Aamodt | Alagu | F | 55415 |
| 5 | 266651 | Aamodt | Aleksander | F | 53016 |
| 6 | 487598 | Aamodt | Alexius | M | 40000 |
| 7 | 216963 | Aamodt | Alois | M | 48583 |
| 8 | 15427 | Aamodt | Aluzio | M | 41789 |
| 9 | 100860 | Aamodt | Amabile | F | 42750 |
| 10 | 107070 | Aamodt | Anestis | M | 58608 |
| 11 | 238705 | Aamodt | Anoosh | F | 40000 |
| 12 | 225884 | Aamodt | Anwar | M | 50341 |
| 13 | 206338 | Aamodt | Arlette | M | 40000 |
| 14 | 29182 | Aamodt | Arumugam | F | 40000 |
| 15 | | Aamodt | Arunachalam | M | |

Total rows: 1000 of 300024      Query complete 00:00:05.697

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

SELECT
first_name,
last_name,
hire_date
FROM
employee
WHERE
hire_date > timestamp '1985-12-31 23:59:59'
AND       hire_date < timestamp '1987-01-01 00:00:00'
ORDER BY
hire_date asc,
last_name asc
;

| | first_name character varying (25) | last_name character varying (50) | hire_date date |
|---|---|---|---|
| 1 | Uri | Asmuth | 1986-01-01 |
| 2 | Shahid | Baaz | 1986-01-01 |
| 3 | Pranas | Baek | 1986-01-01 |
| 4 | Mohammed | Bahk | 1986-01-01 |
| 5 | Kristian | Bergere | 1986-01-01 |
| 6 | Ziyad | Bhattacharjee | 1986-01-01 |
| 7 | Jiang | Bierbaum | 1986-01-01 |
| 8 | Arlette | Boguraev | 1986-01-01 |
| 9 | Jiann | Bondorf | 1986-01-01 |
| 10 | Filipe | Bottner | 1986-01-01 |
| 11 | Constantino | Brookman | 1986-01-01 |
| 12 | Zhanqiu | Buescher | 1986-01-01 |
| 13 | Nirmal | Comyn | 1986-01-01 |
| 14 | Unal | Cooley | 1986-01-01 |

Total rows: 1000 of 36150       Query complete 00:00:00.500

List the manager of each department along with their department number, department name, employee number, last name, and first name (2 points)

SELECT

dept_manager.dept_no,
dept_name,
dept_manager.emp_no,
last_name,
first_name

FROM

dept_manager

JOIN

department ON dept_manager.dept_no = department.dept_no

JOIN

employee ON dept_manager.emp_no = employee.emp_no

ORDER BY

dept_manager.dept_no asc,
last_name asc

;

| | dept_no character varying (5) | dept_name character varying (25) | emp_no integer | last_name character varying (50) | first_name character varying (25) |
|---|---|---|---|---|---|
| 1 | d001 | Marketing | 110022 | Markovitch | Margareta |
| 2 | d001 | Marketing | 110039 | Minakawa | Vishwani |
| 3 | d002 | Finance | 110085 | Alpin | Ebru |
| 4 | d002 | Finance | 110114 | Legleitner | Isamu |
| 5 | d003 | Human Resources | 110183 | Ossenbruggen | Shirish |
| 6 | d003 | Human Resources | 110228 | Sigstam | Karsten |
| 7 | d004 | Production | 110344 | Cools | Rosine |
| 8 | d004 | Production | 110420 | Ghazalie | Oscar |
| 9 | d004 | Production | 110386 | Kieras | Shem |
| 10 | d004 | Production | 110303 | Wegerle | Krassimir |
| 11 | d005 | Development | 110567 | DasSarma | Leon |
| 12 | d005 | Development | 110511 | Hagimont | DeForest |

List the department number for each employee along with that employee's employee number, last name, first name, and department name (2 points)

```sql
SELECT
                        dept_emp.dept_no,
                        employee.emp_no,
                        last_name,
                        first_name,
                        dept_name
FROM
                        employee
JOIN
                        dept_emp ON employee.emp_no = dept_emp.emp_no
JOIN
                        department ON dept_emp.dept_no = department.dept_no
ORDER BY
                        dept_emp.dept_no asc,
                        last_name asc,
                        first_name asc
;
```

| | dept_no character varying (5) | emp_no integer | last_name character varying (50) | first_name character varying (25) | dept_name character varying (25) |
|---|---|---|---|---|---|
| 1 | d001 | 487598 | Aamodt | Alexius | Marketing |
| 2 | d001 | 452757 | Aamodt | Gaetan | Marketing |
| 3 | d001 | 268194 | Aamodt | Gila | Marketing |
| 4 | d001 | 255520 | Aamodt | Hidefumi | Marketing |
| 5 | d001 | 292102 | Aamodt | Hidefumi | Marketing |
| 6 | d001 | 407793 | Aamodt | Jeanne | Marketing |
| 7 | d001 | 42199 | Aamodt | Mats | Marketing |
| 8 | d001 | 27413 | Aamodt | Phuoc | Marketing |
| 9 | d001 | 87193 | Aamodt | Roddy | Marketing |
| 10 | d001 | 260324 | Aamodt | Salvador | Marketing |
| 11 | d001 | 493601 | Aamodt | Sreekrishna | Marketing |
| 12 | d001 | 105207 | Acton | Basim | Marketing |

Total rows: 1000 of 331603     Query complete 00:00:06.115

List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B (2 points)

```
SELECT
                first_name,
                last_name,
                sex
FROM
                employee
WHERE
                first_name = 'Hercules'
AND             last_name like 'B%'
ORDER BY
                last_name asc
;
```

| | first_name<br>character varying (25) 🔒 | last_name<br>character varying (50) 🔒 | sex<br>character varying (1 |
|---|---|---|---|
| 1 | Hercules | Baak | M |
| 2 | Hercules | Baer | M |
| 3 | Hercules | Bahr | M |
| 4 | Hercules | Bail | F |
| 5 | Hercules | Bain | F |
| 6 | Hercules | Baranowski | M |
| 7 | Hercules | Barreiro | M |
| 8 | Hercules | Basagni | M |
| 9 | Hercules | Benantar | F |
| 10 | Hercules | Benzmuller | M |
| 11 | Hercules | Bernardinello | F |
| 12 | Hercules | Bernatsky | M |
| 13 | Hercules | Berstel | F |

Total rows: 20 of 20      Query complete 00:00:00.302

List each employee in the Sales department, including their employee number, last name, and first name (2 points)

```
SELECT
                employee.emp_no,
                last_name,
                first_name
FROM
                employee
JOIN
                dept_emp ON employee.emp_no = dept_emp.emp_no
JOIN
                department ON dept_emp.dept_no = department.dept_no
WHERE
                dept_name = 'Sales'
ORDER BY
                last_name asc,
                first_name asc
;
```

| | emp_no [PK] integer | last_name character varying (50) | first_name character varying (25) |
|---|---|---|---|
| 1 | 455773 | Aamodt | Aemilian |
| 2 | 107094 | Aamodt | Baoqiu |
| 3 | 203802 | Aamodt | Berry |
| 4 | 428594 | Aamodt | Breannda |
| 5 | 61219 | Aamodt | Chuanyi |
| 6 | 492546 | Aamodt | Elzbieta |
| 7 | 433338 | Aamodt | Gian |
| 8 | 290839 | Aamodt | Guoxiang |
| 9 | 233941 | Aamodt | Hairong |
| 10 | 103125 | Aamodt | Huican |
| 11 | 275120 | Aamodt | Jaideep |
| 12 | 240207 | Aamodt | Jiann |
| 13 | 257214 | Aamodt | Kaijung |

Total rows: 1000 of 52245      Query complete 00:00:01.151

List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name (4 points)

```
SELECT
            employee.emp_no,
            last_name,
            first_name,
            dept_name
FROM
            employee
JOIN
            dept_emp ON employee.emp_no = dept_emp.emp_no
JOIN
            department ON dept_emp.dept_no = department.dept_no
WHERE
            dept_name = 'Sales'
OR          dept_name = 'Development'
ORDER BY
            dept_name asc,
            last_name asc,
            first_name asc
;
```

| emp_no integer | last_name character varying (50) | first_name character varying (25) | dept_name character varying (25) |
|---|---|---|---|
| 85696 | 39164 | Zykh | Shigeu | Development |
| 85697 | 224072 | Zykh | Sven | Development |
| 85698 | 221495 | Zykh | Tetsushi | Development |
| 85699 | 76769 | Zykh | Tiina | Development |
| 85700 | 49595 | Zykh | Tonny | Development |
| 85701 | 499803 | Zykh | Van | Development |
| 85702 | 253599 | Zykh | Vesna | Development |
| 85703 | 463268 | Zykh | Vidar | Development |
| 85704 | 202516 | Zykh | Vishwani | Development |
| 85705 | 17515 | Zykh | Xuejia | Development |
| 85706 | 23312 | Zykh | Xumin | Development |
| 85707 | 210364 | Zykh | Yurij | Development |
| 85708 | 455773 | Aamodt | Aemilian | Sales |
| 85709 | 107094 | Aamodt | Baoqiu | Sales |
| 85710 | 203802 | Aamodt | Berry | Sales |
| 85711 | 428594 | Aamodt | Breannda | Sales |
| 85712 | 61219 | Aamodt | Chuanyi | Sales |

Total rows: 87000 of 137952     Query complete 00:00:02.705

List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name) (4 points)

```
SELECT
        last_name,
        count(emp_no) as count_last_name
FROM
        employee
GROUP BY
        last_name
ORDER BY
        count_last_name ASC
;
```

| | last_name<br>character varying (50) 🔒 | count_last_name<br>bigint 🔒 |
|---|---|---|
| 1 | Foolsday | 1 |
| 2 | Sadowsky | 145 |
| 3 | Merro | 147 |
| 4 | Guardalben | 148 |
| 5 | Zykh | 148 |
| 6 | Georgatos | 148 |
| 7 | Rosar | 150 |
| 8 | Provine | 151 |
| 9 | Nollmann | 151 |
| 10 | Dulli | 151 |
| 11 | Gonthier | 151 |
| 12 | Schwartzbauer | 151 |
| 13 | Zambonelli | 151 |

Total rows: 1000 of 1638      Query complete 00:00:00.3