1. List the following details of each employee: employee number, last name, first name, sex, and salary.

| | emp_no integer | last_name character varying | first_name character varying | sex character (1) | salary integer |
|---|---|---|---|---|---|
| 1 | 57444 | Babb | Berry | F | 48973 |
| 2 | 13616 | Lorho | Perry | F | 40000 |
| 3 | 240129 | Karnin | Roddy | M | 43548 |
| 4 | 427958 | Poujol | Feixiong | F | 63377 |
| 5 | 35916 | Talmon | Wonhee | F | 40000 |
| 6 | 67799 | Cools | Pantung | M | 48111 |
| 7 | 105597 | Kabayashi | Christfried | M | 43841 |
| 8 | 215615 | Chinal | Bader | F | 40000 |
| 9 | 95280 | Hiraishi | Owen | F | 40000 |
| 10 | 43471 | Gihr | Mechthild | F | 40023 |

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

| | first_name character varying | last_name character varying | hire_date date |
|---|---|---|---|
| 1 | Jiann | Bondorf | 1986-01-01 |
| 2 | Holgard | Prenel | 1986-01-01 |
| 3 | Hercules | Veevers | 1986-01-01 |
| 4 | Achilleas | Kroft | 1986-01-01 |
| 5 | Unal | Cooley | 1986-01-01 |
| 6 | Chaoyi | Kaiserswerth | 1986-01-01 |
| 7 | Bedir | Vanwelkenhuysen | 1986-01-01 |
| 8 | Nirmal | Comyn | 1986-01-01 |
| 9 | Mario | Schrift | 1986-01-01 |
| 10 | Subir | Shumilov | 1986-01-01 |

3. List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name.

| | dept_no character varying | dept_name character varying | emp_no integer | last_name character varying | first_name character varying |
|----|------|------------------|--------|-------------|-----------|
| 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       | 110303 | Wegerle     | Krassimir |
| 8  | d004 | Production       | 110344 | Cools       | Rosine    |
| 9  | d004 | Production       | 110386 | Kieras      | Shem      |
| 10 | d004 | Production       | 110420 | Ghazalie    | Oscar     |

4. List the department of each employee with the following information: employee number, last name, first name, and department name.

| | emp_no integer | last_name character varying | first_name character varying | dept_name character varying |
|----|-------|-----------|-----------|--------------------|
| 1  | 10005 | Maliniak  | Kyoichi   | Human Resources    |
| 2  | 10010 | Piveteau  | Duangkaew | Production         |
| 3  | 10010 | Piveteau  | Duangkaew | Quality Management |
| 4  | 10011 | Sluis     | Mary      | Customer Service   |
| 5  | 10013 | Terkki    | Eberhardt | Human Resources    |
| 6  | 10017 | Bouloucos | Cristinel | Marketing          |
| 7  | 10035 | Chappelet | Alain     | Production         |
| 8  | 10037 | Makrucki  | Pradeep   | Development        |
| 9  | 10045 | Shanbhogue| Moss      | Production         |
| 10 | 10051 | Caine     | Hidefumi  | Production         |

5. List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."

| | first_name character varying | last_name character varying | sex character (1) |
|---|---|---|---|
| 1 | Hercules | Baer | M |
| 2 | Hercules | Biron | F |
| 3 | Hercules | Birge | F |
| 4 | Hercules | Berstel | F |
| 5 | Hercules | Bernatsky | M |
| 6 | Hercules | Bail | F |
| 7 | Hercules | Bodoff | M |
| 8 | Hercules | Benantar | F |
| 9 | Hercules | Basagni | M |
| 10 | Hercules | Benzmuller | M |

6. List all employees in the Sales department, including their employee number, last name, first name, and department name.

| | emp_no integer | last_name character varying | first_name character varying | dept_name character varying |
|---|---|---|---|---|
| 1 | 10002 | Simmel | Bezalel | Sales |
| 2 | 10016 | Cappelletti | Kazuhito | Sales |
| 3 | 10034 | Swan | Bader | Sales |
| 4 | 10041 | Lenart | Uri | Sales |
| 5 | 10050 | Dredge | Yinghua | Sales |
| 6 | 10053 | Zschoche | Sanjiv | Sales |
| 7 | 10060 | Billingsley | Breannda | Sales |
| 8 | 10061 | Herber | Tse | Sales |
| 9 | 10068 | Brattka | Charlene | Sales |
| 10 | 10087 | Eugenio | Xinglin | Sales |

7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.

| | emp_no integer | last_name character varying | first_name character varying | dept_name character varying |
|---|---|---|---|---|
| 1 | 10001 | Facello | Georgi | Development |
| 2 | 10002 | Simmel | Bezalel | Sales |
| 3 | 10006 | Preusig | Anneke | Development |
| 4 | 10008 | Kalloufi | Saniya | Development |
| 5 | 10012 | Bridgland | Patricio | Development |
| 6 | 10014 | Genin | Berni | Development |
| 7 | 10016 | Cappelletti | Kazuhito | Sales |
| 8 | 10018 | Peha | Kazuhide | Development |
| 9 | 10021 | Erde | Ramzi | Development |
| 10 | 10022 | Famili | Shahaf | Development |

8. List the frequency count of employee last names (i.e., how many employees share each last name) in descending order.

| | last_name character varying | frequency bigint |
|---|---|---|
| 1 | Baba | 226 |
| 2 | Coorg | 223 |
| 3 | Gelosh | 223 |
| 4 | Farris | 222 |
| 5 | Sudbeck | 222 |
| 6 | Adachi | 221 |
| 7 | Osgood | 220 |
| 8 | Neiman | 218 |
| 9 | Mandell | 218 |
| 10 | Masada | 218 |

## Bonus

Histogram data

| | emp_no [PK] integer | salary integer |
|---|---|---|
| 1 | 10001 | 60117 |
| 2 | 10002 | 65828 |
| 3 | 10003 | 40006 |
| 4 | 10004 | 40054 |
| 5 | 10005 | 78228 |
| 6 | 10006 | 40000 |
| 7 | 10007 | 56724 |
| 8 | 10008 | 46671 |
| 9 | 10009 | 60929 |
| 10 | 10010 | 72488 |

Bar chart data

| | title character varying | salary integer |
|---|---|---|
| 1 | Engineer | 48973 |
| 2 | Senior Engineer | 40000 |
| 3 | Technique Leader | 43548 |
| 4 | Staff | 63377 |
| 5 | Senior Engineer | 40000 |
| 6 | Engineer | 48111 |
| 7 | Senior Staff | 43841 |
| 8 | Engineer | 40000 |
| 9 | Senior Engineer | 40000 |
| 10 | Engineer | 40023 |