

QUESTION 1

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

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8 --1. List the following details of each employee: employee number, last name, first name, gender, and salary.
9 SELECT e.emp_no,e.last_name,e.first_name,e.sex,s.salary
10 FROM employees AS e
11 INNER JOIN salaries AS s
12 ON s.emp_no = e.emp_no;
13
14 2. List first name, last name, and hire date for employees who were hired in 1986.

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Data output Messages Notifications



| | emp_no | last_name | first_name | sex | salary |
|----|--------|-----------|-------------|-----|--------|
| 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 | Gihl | Mechthild | F | 40023 |
| 11 | 444985 | Verspoor | Giap | F | 71042 |
| 12 | 492723 | Sanella | Piyawadee | M | 46740 |
| 13 | 430653 | Peroz | Masoud | F | 69077 |
| 14 | 222134 | Speer | Qunsheng | M | 48391 |
| 15 | 406318 | Gunderson | Hitomi | M | 55145 |
| 16 | 42625 | Swick | Harngdar | F | 55095 |
| 17 | 451259 | Milicic | Zhenhua | M | 46138 |

QUESTION 2

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

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14 --2. List first name, last name, and hire date for employees who were hired in 1986.
15 SELECT e.first_name, e.last_name, e.hire_date
16 FROM employees AS e
17 WHERE hire_date BETWEEN '1/1/1986' AND '12/31/1986'
18 ORDER BY hire_date;
19
20 --3. List the manager of each department with the following information: department name,

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Data output Messages Notifications



| | first_name character varying | last_name character varying | hire_date character varying |
|----|---------------------------------|--------------------------------|--------------------------------|
| 1 | Sungwon | Range | 1/1/1986 |
| 2 | Yinghua | Vidal | 1/1/1986 |
| 3 | Domenick | Dehkordi | 1/1/1986 |
| 4 | Nathalie | Speer | 1/1/1986 |
| 5 | Moie | McConalogue | 1/1/1986 |
| 6 | Masaki | Reeker | 1/1/1986 |
| 7 | Poorav | Papastamatiou | 1/1/1986 |
| 8 | Vidya | Dymetman | 1/1/1986 |
| 9 | Zita | Shobatake | 1/1/1986 |
| 10 | Abdelkader | Marrakchi | 1/1/1986 |
| 11 | Youssef | Janocha | 1/1/1986 |
| 12 | Constantino | Brookman | 1/1/1986 |
| 13 | Unal | Cooley | 1/1/1986 |
| 14 | Filipe | Bottnr | 1/1/1986 |
| 15 | Kristian | Bergere | 1/1/1986 |
| 16 | Jaihie | Soicher | 1/1/1986 |
| 17 | Saniya | Lanphier | 1/1/1986 |
| 18 | Nirmal | Campan | 1/1/1986 |

QUESTION 3

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

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20 --3. List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name.
21 SELECT d.dept_no, d.dept_name, dm.emp_no, e.last_name, e.first_name
22 FROM departments AS d
23     JOIN dept_manager AS dm
24     ON (d.dept_no=dm.dept_no)
25     JOIN employees as e
26     ON (dm.emp_no=e.emp_no);
27

```

Data output Messages Notifications



| | dept_no character varying | dept_name character varying | emp_no integer | last_name character varying | first_name character varying |
|----|------------------------------|--------------------------------|-------------------|--------------------------------|---------------------------------|
| 1 | d004 | Production | 110303 | Wegerle | Krassimir |
| 2 | d006 | Quality Manage... | 110800 | Quadeer | Sanjoy |
| 3 | d006 | Quality Manage... | 110854 | Pesch | Dung |
| 4 | d007 | Sales | 111035 | Kaelbling | Przemysława |
| 5 | d008 | Research | 111400 | Staelin | Arie |
| 6 | d009 | Customer Service | 111692 | Butterworth | Tonny |
| 7 | d003 | Human Resources | 110228 | Sigstam | Karsten |
| 8 | d006 | Quality Manage... | 110725 | Onuegbe | Petermela |
| 9 | d003 | Human Resources | 110183 | Ossenbruggen | Shirish |
| 10 | d004 | Production | 110344 | Cools | Rosine |
| 11 | d001 | Marketing | 110022 | Markovitch | Margareta |
| 12 | d001 | Marketing | 110039 | Minakawa | Vishwani |
| 13 | d002 | Finance | 110085 | Alpin | Ebru |
| 14 | d004 | Production | 110386 | Kieras | Shem |
| 15 | d005 | Development | 110567 | DasSarma | Leon |
| 16 | d007 | Sales | 111133 | Zhang | Hauke |
| 17 | d007 | Sales | 111134 | Zhang | Hauke |

QUESTION 4

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

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28 --4. List the department of each employee with the following information: employee number, last name, first name, and department name.
29 SELECT e.emp_no, e.last_name, e.first_name, d.dept_name
30 FROM employees AS e
31     JOIN dept_emp AS de
32     ON (e.emp_no=de.emp_no)
33     JOIN departments AS d
34     ON (de.dept_no=d.dept_no);
35

```

Data output Messages Notifications



| | 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 Manageme... |
| 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 |
| 11 | 10058 | McFarlin | Berhard | Marketing |
| 12 | 10078 | Mondadori | Danel | Development |
| 13 | 10085 | Malabarba | Kenroku | Production |
| 14 | 10096 | Mandell | Jayson | Production |
| 15 | 10117 | Blokdijk | Kiyotoshi | Production |
| 16 | 10156 | Fargier | Sumali | Quality Manageme... |
| 17 | 10167 | Rassart | Duangkaew | Production |
| 18 | 10177 | Iisaka | Pragnesh | Finance |

QUESTION 5

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

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36 --5. List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
37 SELECT first_name, last_name, sex
38 FROM employees
39 WHERE first_name = 'Hercules'
40 AND last_name like 'B%';
41
```

Data output Messages Notifications



| | 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 | Bernardinello | F |
| 11 | Hercules | Baranowski | M |
| 12 | Hercules | Bisiani | F |
| 13 | Hercules | Benzmuller | M |
| 14 | Hercules | Bahr | M |
| 15 | Hercules | Biran | F |
| 16 | Hercules | Bain | F |
| 17 | Hercules | Brendel | F |

QUESTION 6

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

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42 --6. List all employees in the Sales department, including their employee number, last name, first name, and department name.
43 SELECT e.emp_no, e.last_name, e.first_name, d.dept_name
44 FROM employees AS e
45     JOIN dept_emp AS de
46     ON (e.emp_no=de.emp_no)
47     JOIN departments as d
48     ON (de.dept_no=d.dept_no)
49     WHERE d.dept_name = 'Sales';
50

```

Data output Messages Notifications



| | emp_no integer | last_name character varying | first_name character varying | dept_name character varying |
|----|-------------------|--------------------------------|---------------------------------|--------------------------------|
| 1 | 217945 | Georg | Shmuel | Sales |
| 2 | 109600 | Chvatal | Xuejun | Sales |
| 3 | 279661 | Bach | Xiadong | Sales |
| 4 | 268566 | Parveen | Panayotis | Sales |
| 5 | 53312 | Lagarias | Quingbo | Sales |
| 6 | 211383 | Candan | Uli | Sales |
| 7 | 496429 | Luders | Takanari | Sales |
| 8 | 219797 | Demeyer | Neelam | Sales |
| 9 | 426193 | Rattan | Huiqun | Sales |
| 10 | 246449 | Bultermann | Subbu | Sales |
| 11 | 78524 | Bahk | Zhiwei | Sales |
| 12 | 205246 | Demizu | Nevio | Sales |
| 13 | 476443 | Asmuth | Ziya | Sales |
| 14 | 424270 | Yoshizawa | Kellyn | Sales |
| 15 | 280408 | Perl | Elliott | Sales |
| 16 | 289261 | Nollmann | Gad | Sales |
| 17 | 494351 | Maginnis | Boriana | Sales |
| 18 | 26272 | Garcia | Renee | Sales |

QUESTION 7

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

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51 --7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.
52 SELECT e.emp_no, e.last_name, e.first_name, d.dept_name
53 FROM employees AS e
54 JOIN dept_emp AS de
55 ON (e.emp_no=de.emp_no)
56 JOIN departments AS d
57 ON (de.dept_no=d.dept_no)
58 WHERE d.dept_name = 'Sales' OR d.dept_name = 'Development';
59

```

Data output Messages Notifications



| | emp_no <small>integer</small> 🔒 | last_name <small>character varying</small> 🔒 | first_name <small>character varying</small> 🔒 | dept_name <small>character varying</small> 🔒 |
|----|---------------------------------|--|---|--|
| 1 | 53312 | Lagarias | Quingbo | Sales |
| 2 | 13616 | Lorho | Perry | Development |
| 3 | 35916 | Talmon | Wonhee | Development |
| 4 | 444985 | Verspoor | Giap | Sales |
| 5 | 492723 | Sanella | Piyawadee | Development |
| 6 | 430653 | Peroz | Masoud | Development |
| 7 | 222134 | Speer | Qunsheng | Development |
| 8 | 406318 | Gunderson | Hitomi | Development |
| 9 | 42625 | Swick | Harngdar | Sales |
| 10 | 225842 | Schmezk | Bowen | Development |
| 11 | 205366 | Shimshoni | Kazuhira | Sales |
| 12 | 223670 | Chinin | Erez | Development |
| 13 | 62117 | Crouzet | Bojan | Development |
| 14 | 11980 | Pews | Yechezkel | Sales |
| 15 | 457800 | Domenig | Stabisl | Sales |
| 16 | 279067 | Rajaraman | Szabolcs | Development |
| 17 | 441170 | Munck | Shir | Development |

QUESTION 8

--8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.

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60 --8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
61 SELECT last_name, count(last_name) AS frequency
62 FROM employees
63 GROUP BY last_name
64 ORDER BY frequency desc;
65
66

```

Data output Messages Notifications



| | last_name character varying | frequency bigint |
|----|--------------------------------|---------------------|
| 1 | Baba | 226 |
| 2 | Coorg | 223 |
| 3 | Gelosh | 223 |
| 4 | Sudbeck | 222 |
| 5 | Farris | 222 |
| 6 | Adachi | 221 |
| 7 | Osgood | 220 |
| 8 | Masada | 218 |
| 9 | Neiman | 218 |
| 10 | Mandell | 218 |
| 11 | Wendorf | 217 |
| 12 | Boudaillier | 217 |
| 13 | Solares | 216 |
| 14 | Pettis | 216 |
| 15 | Mahnke | 216 |
| 16 | Cummings | 216 |
| 17 | Birjandi | 215 |
| 18 | Ermentrout | 215 |