

```

1  --1. List the following details of each employee: employee number, last name, first name, sex, and salary.
2  Select
3      e.emp_no,
4      last_name,
5      first_name,
6      sex,
7      salary
8  from
9      Employees e
10     join salaries s on e.emp_no = s.emp_no;
11

```

Data Output Explain Messages Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (50)	sex character varying (1)	salary integer	
1	10005	Maliniak	Kyoichi	M	78228	
2	10010	Piveteau	Duangkaew	F	72488	
3	10011	Sluis	Mary	F	42365	
4	10013	Terkki	Eberhardt	M	40000	
5	10017	Bouloucos	Cristinel	F	71380	
6	10035	Chappelet	Alain	M	41538	
7	10037	Makrucki	Pradeep	M	40000	
8	10045	Shanbhogue	Moss	M	41971	
9	10051	Caine	Hidefumi	M	48817	
10	10058	McFarlin	Berhard	M	52787	
11	10078	Mondadori	Danel	F	47280	
12	10085	Malabarba	Kenroku	M	40000	
13	10096	Mandell	Jayson	M	61395	
14	10117	Blokdiijk	Kiyotoshi	F	52284	
15	10156	Fargier	Sumali	M	49879	

```

10 join salaries s on e.emp_no = s.emp_no,
11
12 --2. List first name, last name, and hire date for employees who were hired in 1986.
13 Select
14     first_name,
15     last_name,
16     hire_date
17 from
18     Employees
19 where
20     extract(year from hire_date) = 1986
21 order by
22     hire_date asc;

```

	first_name character varying (50)	last_name character varying (50)	hire_date date
1	Eishiro	Curless	1986-01-01
2	Shawna	Reinhart	1986-01-01
3	Shao	Reinhart	1986-01-01
4	Sanjay	Servieres	1986-01-01
5	Uri	Asmuth	1986-01-01
6	Yinghua	Vidal	1986-01-01
7	Stein	Thiran	1986-01-01
8	Vidya	Dymetman	1986-01-01
9	Juyoung	Stanger	1986-01-01
10	Sungwon	Range	1986-01-01
11	Moto	Kenevan	1986-01-01
12	Theron	Homond	1986-01-01
13	Dzung	Jervis	1986-01-01
14	Filipe	Bottner	1986-01-01

```

24 --3. List the manager of each department with the following information: department number,
25 --department name, the manager's employee number, last name, first name.
26
27 select
28     d.dept_no,
29     d.dept_name,
30     dm.emp_no,
31     e.last_name,
32     e.first_name
33 from
34     departments d
35     join dept_manager dm on d.dept_no = dm.dept_no
36     join employees e on e.emp_no = dm.emp_no;
37

```

	dept_no character varying (50)	dept_name character varying (50)	emp_no integer	last_name character varying (50)	first_name character varying (50)	
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	
11	d005	Development	110511	Hagimont	DeForest	
12	d005	Development	110567	DasSarma	Leon	
13	d006	Quality Management	110725	Onuegbe	Peternela	

```

38 --4. List the department of each employee with the following information: employee number,
39 --last name, first name, and department name
40
41 select
42     e.emp_no,
43     e.last_name,
44     e.first_name,
45     d.dept_name
46 from
47     employees e
48     join dept_emp de on e.emp_no = de.emp_no
49     join departments d on d.dept_no = de.dept_no;

```

	emp_no integer	last_name character varying (50)	first_name character varying (50)	dept_name character varying (50)	
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	
11	10058	McFarlin	Berhard	Marketing	
12	10078	Mondadori	Danel	Development	
13	10085	Malabarba	Kenroku	Production	
14	10096	Mandell	Jayson	Production	

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```

51 --5. List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
52 Select
53     first_name,
54     last_name,
55     sex
56 from
57     Employees
58 where
59     first_name = 'Hercules'
60     and last_name like 'B%';
61

```

Data Output
Explain
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	first_name character varying (50)	last_name character varying (50)	sex character varying (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	Bisani	F
13	Hercules	Benzmuller	M
14	Hercules	Bahr	M
15	Hercules	Biran	F

✓ Successfully run. Total query runtime: 306 msec. 20 row

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```

60     and last_name like 'B%';
61
62 --6. List all employees in the Sales department, including their employee number, last name, first name, and department name.
63 select
64     e.emp_no,
65     e.last_name,
66     e.first_name,
67     d.dept_name
68 from
69     employees e
70     join dept_emp de on e.emp_no = de.emp_no
71     join departments d on d.dept_no = de.dept_no
72 where
73     dept_name = 'Sales';
74

```

Data Output
Explain
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Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (50)	dept_name character varying (50)
1	10002	Simmel	Bezalel	Sales
2	10016	Cappelletti	Kazuhiro	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
11	10088	Syrzycki	Jungsoon	Sales
12	10089	Flasterstein	Sudharsan	Sales

Query Editor Query History


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75 --7. List all employees in the Sales and Development departments, including their employee number, last name,
76 --first name, and department name.
77 select
78     e.emp_no,
79     e.last_name,
80     e.first_name,
81     d.dept_name
82 from
83     employees e
84     join dept_emp de on e.emp_no = de.emp_no
85     join departments d on d.dept_no = de.dept_no
86 where
87     dept_name = 'Sales'
88     OR dept_name = 'Development' ;

```

Data Output Explain Messages Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (50)	dept_name character varying (50)	
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	
11	10023	Montemayor	Bojan	Development	
12	10025	Heyers	Prasadram	Development	

 Successfully run. Total query runtime: 304 msec. 137

```
89
90 --8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
91
92 Select
93     last_name,
94     count(last_name) as Frequency
95 from
96     Employees
97 group by
98     last_name
99 order by
100     Frequency desc;
101
102 --epilogue
```

	last_name character varying (50)	frequency bigint
1	Baba	226
2	Gelosh	223
3	Coorg	223
4	Farris	222
5	Sudbeck	222
6	Adachi	221
7	Osgood	220
8	Neiman	218
9	Mandell	218
10	Masada	218
11	Wendorf	217
12	Boudaillier	217