Query 1

```
1   -- List the following details of each employee: employee number, last name, first name, sex, and salary.
2
3   select
4       ed.emp_no,
5       ed.last_name,
6       ed.first_name,
7       ed.sex,
8       s.salary
9   from
10      employees_demo ed
11  join salaries s on ed.emp_no = s.emp_no
12
13  -- List first name, last name, and hire date for employees who were hired in 1986.
14
15
16
17  -- List the manager of each department with the following information: department number, department name, the
18
19
```

Data Output   Explain   Messages   Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (40)	sex character varying (2)	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

Query 2

```
12
13  -- List first name, last name, and hire date for employees who were hired in 1986.
14
15  select
16      first_name,
17      last_name,
18      hire_date
19  from
20      employees_demo
21  where
22      extract(year from hire_date) = 1986
23
24
25  -- List the manager of each department with the following information: department number, de
26
27
28  -- List the department of each employee with the following information: employee number, las
29
30
```

Data Output   Explain   Messages   Notifications

	first_name character varying (40)	last_name character varying (50)	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
6	Qunsheng	Speer	1986-02-13
7	Dines	Encarnacion	1986-08-02
8	Harngdar	Swick	1986-05-28
9	Freyja	Uhrig	1986-12-20
10	Zhenhua	Milicic	1986-08-04
11	Bowen	Schmezko	1986-05-30
12	Reuven	Munke	1986-04-13
13	Stabislas	Domenig	1986-08-04

Query 3

Query Editor   Query History

```sql
25  -- List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name.
26
27  select
28      dm.dept_no,
29      d.dept_name,
30      dm.emp_no,
31      ed.last_name,
32      ed.first_name
33  from
34      dept_manager dm
35  join departments d on dm.dept_no = d.dept_no
36  join employees_demo ed on dm.emp_no = ed.emp_no
37
38  |
39  -- List the department of each employee with the following information: employee number, last name, first name, and department name.
40
41
42  -- List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
```

Data Output   Explain   Messages   Notifications

	dept_no character varying	dept_name character varying	emp_no integer	last_name character varying (50)	first_name character varying (40)
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

Query 4

Query Editor   Query History

```sql
39  -- List the department of each employee with the following information: employee number, last name, first name, and department name.
40
41  select
42      ed.emp_no,
43      ed.last_name,
44      ed.first_name,
45      d.dept_name
46  from
47      departments d
48  join dept_emp de on d.dept_no = de.dept_no
49  join employees_demo ed on de.emp_no = ed.emp_no
50
51
52  -- List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
53
54
55  -- List all employees in the Sales department, including their employee number, last name, first name, and department name.
56
```

Data Output   Explain   Messages   Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (40)	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
11	10058	McFarlin	Berhard	Marketing
12	10078	Mondadori	Danel	Development
13	10085	Malabarba	Kenroku	Production

Query 5

```
SQL_HW/postgres@PostgreSQL 13
```

Query Editor   Query History

```
51
52  -- List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
53
54  select
55      first_name,
56      last_name,
57      sex
58  from
59      employees_demo
60  where
61      first_name = 'Hercules' and last_name LIKE 'B%'
62
63  -- List all employees in the Sales department, including their employee number, last name, first name, and department name.
64
65
66  -- List all employees in the Sales and Development departments, including their employee number, last name, first name, and d
67
68
69  -- In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
```

Data Output   Explain   Messages   Notifications

	first_name character varying (40)	last_name character varying (50)	sex character varying (2)	
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	

Query 6

```
SQL_HW/postgres@PostgreSQL 13
```

Query Editor   Query History

```
63  -- List all employees in the Sales department, including their employee number, last name, first
64
65  select
66      ed.emp_no,
67      ed.last_name,
68      ed.first_name,
69      d.dept_name
70  from
71      departments d
72  join dept_emp de on d.dept_no = de.dept_no
73  join employees_demo ed on de.emp_no = ed.emp_no
74  where dept_name = 'Sales'
75
76
77
78  -- List all employees in the Sales and Development departments, including their employee number,
79
80
81  -- In descending order, list the frequency count of employee last names, i.e., how many employee
```

Data Output   Explain   Messages   Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (40)	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	
11	10088	Syrzycki	Jungsoon	Sales	
12	10089	Flasterstein	Sudharsan	Sales	
13	10093	Desikan	Sailaja	Sales	

Query 7

SQL_HW/postgres@PostgreSQL 13 ⌄

Query Editor   Query History

```
75   -- List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.
76
77   select
78       ed.emp_no,
79       ed.last_name,
80       ed.first_name,
81       d.dept_name
82   from
83       departments d
84   join dept_emp de on d.dept_no = de.dept_no
85   join employees_demo ed on de.emp_no = ed.emp_no
86   where dept_name = 'Sales' or dept_name = 'Development'
87
88
89   -- In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
90
91
92
```

Data Output   Explain   Messages   Notifications

	emp_no integer	last_name character varying (50)	first_name character varying (40)	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
11	10023	Montemayor	Bojan	Development
12	10025	Heyers	Prasadram	Development
13	10027	Reistad	Divier	Development
14	10028	Tempesti	Domenick	Development

Query 8

SQL_HW/postgres@PostgreSQL 13 ⌄

Query Editor   Query History

```
83       departments d
84   join dept_emp de on d.dept_no = de.dept_no
85   join employees_demo ed on de.emp_no = ed.emp_no
86   where dept_name = 'Sales' or dept_name = 'Development'
87
88   -- In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
89
90   select
91       last_name,
92       count(*)
93   from
94       employees_demo
95   group by
96       last_name
97   order by
98       count(*) desc
99
100
101
```

Data Output   Explain   Messages   Notifications

	last_name character varying (50)	count bigint
1	Baba	226
2	Coorg	223
3	Gelosh	223
4	Farris	222
5	Sudbeck	222
6	Adachi	221
7	Osgood	220
8	Mandell	218
9	Masada	218
10	Neiman	218
11	Wendorf	217
12	Boudaillier	217
13	Cummings	216