

```

1  --1. List the following details of each employee: employee number, last name, first name, sex, and salary.
2  SELECT
3  employees.emp_no, employees.last_name, employees.first_name, employees.sex, salaries.salary
4  FROM employees
5  JOIN salaries
6  ON employees.emp_no = salaries.emp_no;
7

```

	emp_no integer	last_name character varying (25)	first_name character varying (25)	sex character varying (5)	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	Shanhogue	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	Blokdijk	Kiyotoshi	F	52284	
15	10156	Fargier	Sumali	M	49879	
16	10167	Rassart	Duangkaew	M	56990	
17	10177	Iisaka	Pragnesh	M	48041	
18	10179	Duclos	Deniz	F	40000	
19	10219	Kolvik	Genta	M	40000	
20	10223	Schmiedel	Carrsten	F	62922	
21	10228	Cesareni	Karoline	F	79474	
22	10244	Flasterstein	Foong	M	56292	
23	10248	Tempesti	Frederique	F	58918	
24	10250	Etalle	Serap	M	50330	
25	10269	Oxman	Taizo	F	40000	
26	10279	Jumpertz	Barton	F	40000	
27	10302	Baer	Faiza	F	58239	
28	10312	Deyuan	Rasiah	F	56705	
29	10314	Apsitis	Christfried	M	51939	
30	10320	Stasinski	Uinam	F	58483	
31	10321	Ravishankar	Guenter	M	86819	
32	10324	Rouquie	Bernardo	F	67499	
33	10338	Ranai	Heon	M	40000	
34	10347	Kaminger	Pradeep	M	42190	

```

7
8  --2. List first name, last name, and hire date for employees who were hired in 1986.
9  SELECT
10 employees.first_name, employees.last_name, employees.hire_date
11 FROM employees
12 WHERE hire_date BETWEEN '1986-01-01' AND '1987-01-01';
13

```

	first_name character varying (25)	last_name character varying (25)	hire_date date	
1	Eran	Cusworth	1986-11-14	
2	Bojan	Zalocco	1986-10-14	
3	Nevio	Demizu	1986-05-18	
4	Ziva	Vecchi	1986-07-03	
5	Mohit	Speak	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	Zenhua	Milicic	1986-08-04	
11	Bowen	Schmezzo	1986-05-30	
12	Reuven	Munke	1986-04-13	
13	Fayez	Harlee	1987-01-01	
14	Stabslas	Domenig	1986-08-04	
15	Juichirou	Jumpertz	1986-09-18	
16	Juichirou	Ghelli	1986-12-13	
17	Shmuel	Georg	1986-11-30	
18	Xiadong	Bach	1986-04-29	
19	Guangming	Butterworth	1986-10-01	
20	Irene	Setia	1986-08-10	
21	Shuichi	Swiler	1986-06-08	
22	Terresa	Perez	1986-09-12	
23	Lidong	Borovoy	1986-05-30	
24	Teiji	Eickenmeyer	1986-09-03	
25	Baocai	Kroha	1986-10-27	
26	Morrie	Sridhar	1986-03-04	
27	Taegyun	Speckmann	1986-12-28	
28	Stabslas	McFarlin	1986-07-19	
29	Apostol	Ghelli	1986-04-07	
30	Khun	Kuszyk	1986-06-30	
31	Conor	Flanders	1986-02-21	
32	Radhakrishnan	Albarhamtoshy	1986-05-07	
33	Shigeu	Denna	1986-04-10	
34	Uta	Frolund	1986-01-22	

employees_db_sql_lhw/postgres@PostgreSQL 11

Query EditorQuery History

13

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

14

SELECT departments.dept_no, departments.dept_name, dept_manager.dept_no, dept_manager.emp_no, employees.last_name, employees.first_name, employees.emp_no

15

FROM dept_manager

16

JOIN employees

17

ON dept_manager.emp_no = employees.emp_no

18

JOIN departments

19

ON departments.dept_no = dept_manager.dept_no

20

21

Data Output

Explain

Messages

Notifications

	dept_no character varying (5)	dept_name character varying (25)	dept_no character varying (5)	emp_no integer	last_name character varying (25)	first_name character varying (25)	emp_no integer
1	d001	Marketing	d001	110022	Markovitch	Margareta	110022
2	d001	Marketing	d001	110039	Minakawa	Vishwani	110039
3	d002	Finance	d002	110085	Alpin	Ebru	110085
4	d002	Finance	d002	110114	Legleitner	Isamu	110114
5	d003	Human Resources	d003	110183	Ossenbruggen	Shirish	110183
6	d003	Human Resources	d003	110228	Sigstam	Karsten	110228
7	d004	Production	d004	110303	Wegerle	Krassimir	110303
8	d004	Production	d004	110344	Cools	Rosine	110344
9	d004	Production	d004	110386	Kieras	Shem	110386
10	d004	Production	d004	110420	Ghazalle	Oscar	110420
11	d005	Development	d005	110511	Hagimont	DeForest	110511
12	d005	Development	d005	110567	DasSarma	Leon	110567
13	d006	Quality Management	d006	110725	Onuegbe	Petermela	110725
14	d006	Quality Management	d006	110765	Hofmeyr	Rutger	110765
15	d006	Quality Management	d006	110800	Quadeer	Sanjoy	110800
16	d006	Quality Management	d006	110854	Pesch	Dung	110854
17	d007	Sales	d007	111035	Kaelbling	Przemyslawa	111035
18	d007	Sales	d007	111133	Zhang	Hauke	111133
19	d008	Research	d008	111400	Staelin	Arie	111400
20	d008	Research	d008	111534	Kambil	Hilary	111534
21	d009	Customer Service	d009	111692	Butterworth	Tonny	111692
22	d009	Customer Service	d009	111784	Giarratana	Marjo	111784
23	d009	Customer Service	d009	111877	Spinelli	Xiaobin	111877
24	d009	Customer Service	d009	111939	Weedman	Yuchang	111939

```

23 -- 4. List the department of each employee with the following information: employee number, last name, first r
24 SELECT
25 dept_emp.emp_no, employees.last_name, employees.first_name, departments.dept_name
26 FROM dept_emp
27 JOIN employees
28 ON employees.emp_no = dept_emp.emp_no
29 JOIN departments
30 ON departments.dept_no = dept_emp.dept_no
31

```

	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (25)	
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	Shanhogue	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 Management	
17	10167	Rassart	Duangkaew	Production	
18	10177	Iisaka	Pragnesh	Finance	
19	10179	Duclos	Deniz	Development	
20	10219	Kolvik	Genta	Development	
21	10219	Kolvik	Genta	Customer Service	
22	10223	Schmiedel	Carrsten	Development	
23	10228	Cesareni	Karoline	Marketing	
24	10228	Cesareni	Karoline	Sales	
25	10244	Flasterstein	Foong	Development	
26	10248	Tempesti	Frederique	Sales	
27	10250	Etalle	Serap	Quality Management	
28	10269	Oxman	Taizo	Production	
29	10279	Jumpertz	Barton	Production	
30	10279	Jumpertz	Barton	Customer Service	
31	10302	Baer	Faiza	Sales	
32	10312	Deyuan	Rasiah	Production	

employees_db_sql_lhw/postgres@PostgreSQL 11

Query Editor

Query History

30

ON departments.dept_no = dept_emp.dept_no

31

32

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

33

SELECT first_name, last_name

34

FROM employees

35

WHERE first_name = 'Hercules'

36

AND last_name LIKE 'B%';

37

38

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

39

SELECT

Data Output

Explain

Messages

Notifications

	first_name character varying (25)	last_name character varying (25)
1	Hercules	Baer
2	Hercules	Biron
3	Hercules	Birge
4	Hercules	Berstel
5	Hercules	Bernatsky
6	Hercules	Bodoff
7	Hercules	Bail
8	Hercules	Benantar
9	Hercules	Bernardinello
10	Hercules	Basagni
11	Hercules	Baranowski
12	Hercules	Bisiani
13	Hercules	Benzmuller
14	Hercules	Bahr
15	Hercules	Brendel
16	Hercules	Biran
17	Hercules	Bain
18	Hercules	Barreiro
19	Hercules	Buchter
20	Hercules	Baak

employees_db_sql_hhw/postgres@PostgreSQL 11

Query Editor

Query History

38

39

40

41

42

43

44

45

46

47

48

-- 6. List all employees in the Sales department, including their employee number, last name, first name, and department name.
SELECT
dept_emp.emp_no, employees.emp_no, employees.last_name, employees.first_name, departments.dept_name
FROM dept_emp
JOIN employees
ON dept_emp.emp_no = employees.emp_no
JOIN departments
ON dept_emp.dept_no = departments.dept_no
WHERE departments.dept_name = 'Sales';

Data Output

Explain

Messages

Notifications

	emp_no integer	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (25)
1	10002	10002	Simmell	Bezalel	Sales
2	10016	10016	Cappelletti	Kazuhiro	Sales
3	10034	10034	Swan	Bader	Sales
4	10041	10041	Lenart	Uri	Sales
5	10050	10050	Dredge	Yinghua	Sales
6	10053	10053	Zschoche	Sanjiv	Sales
7	10060	10060	Billingsley	Breanna	Sales
8	10061	10061	Herber	Tse	Sales
9	10068	10068	Brattka	Charlene	Sales
10	10087	10087	Eugenio	Xinglin	Sales
11	10088	10088	Syrzycki	Jungsoo	Sales
12	10089	10089	Flasterstein	Sudharsan	Sales
13	10093	10093	Desikan	Sailaja	Sales
14	10095	10095	Morton	Hilari	Sales
15	10099	10099	Sullins	Valter	Sales
16	10101	10101	Heyers	Perla	Sales
17	10107	10107	Baca	Dung	Sales
18	10125	10125	Hiltgen	Syozo	Sales
19	10136	10136	Pintelas	Zisis	Sales
20	10148	10148	Azumi	Douadi	Sales
21	10149	10149	Perry	Xiadong	Sales
22	10151	10151	Lichtner	Itzhak	Sales
23	10160	10160	Khasidashvili	Debatosh	Sales
24	10178	10178	Litvinov	Valery	Sales
25	10185	10185	Sidhu	Duro	Sales
26	10199	10199	Ranta	Kazuhiro	Sales
27	10209	10209	Ellozy	Yolla	Sales
28	10214	10214	Ciolek	Tadahiko	Sales
29	10215	10215	Duclos	Xiaobin	Sales
30	10226	10226	Plessier	Xinglin	Sales
31	10228	10228	Cesareni	Karoline	Sales

employees_db_sql_hhw/postgres@PostgreSQL 11

Query EditorQuery History

48

49

50

51

52

53

54

55

56

57

-- 7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.
SELECT
dept_emp.emp_no, employees.last_name, employees.first_name, departments.dept_name
FROM dept_emp
JOIN employees
ON dept_emp.emp_no = employees.emp_no
JOIN departments
ON dept_emp.dept_no = departments.dept_no

Data OutputExplainMessagesNotifications

	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (25)
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
15	10117	Blokdijk	Kiyotoshi	Production
16	10156	Fargier	Sumali	Quality Management
17	10167	Rassart	Duangkaew	Production
18	10177	Iisaka	Pragnesh	Finance
19	10179	Duclos	Deniz	Development
20	10219	Kolvik	Genta	Development
21	10219	Kolvik	Genta	Customer Service
22	10223	Schmiedel	Carrsten	Development
23	10228	Cesareni	Karoline	Marketing
24	10228	Cesareni	Karoline	Sales
25	10244	Flasterstein	Foong	Development
26	10248	Tempesti	Frederique	Sales
27	10250	Etalle	Serap	Quality Management
28	10269	Oxman	Talzo	Production
29	10279	Jumpertz	Barton	Production
30	10279	Jumpertz	Barton	Customer Service
31	10302	Baer	Faiza	Sales


```
57
58 -- 8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
59 SELECT
60     last_name,
61     COUNT(last_name) AS "frequency"
62 FROM employees
63 GROUP BY last_name
64 ORDER BY
65     COUNT(last_name) DESC;
66
```

Data Output Explain Messages Notifications

	last_name character varying (25)	frequency bigint
1	Baba	226
2	Gelosh	223
3	Coorg	223
4	Sudbeck	222
5	Farris	222
6	Adachi	221
7	Osgood	220
8	Neiman	218
9	Masada	218
10	Mandell	218
11	Boudaillier	217
12	Wendorf	217
13	Solares	216
14	Pettis	216
15	Mahnke	216
16	Cummings	216
17	Maksimenko	215
18	Kulisch	215
19	Birjandi	215
20	Emmart	215
21	Collette	215
22	Boguraev	214
23	Rosaz	214
24	Scallan	214
25	Pokrovskii	214
26	Morrey	213
27	Stifter	213
28	Wolniewicz	213
29	Siksek	213
30	Siepmann	212
31	Garraabrants	212