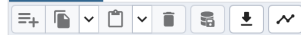


```

91 -- 8. List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name).
92 SELECT
93     last_name,
94     COUNT(last_name) AS "Last Name Frequency"
95 FROM
96     employees
97 GROUP BY last_name
98 ORDER BY "Last Name Frequency" DESC;
99

```

Data Output Messages Notifications



	last_name character varying (25)	Last Name 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	Masada	218
10	Mandell	218
11	Wendorf	217
12	Boudaillier	217
13	Cummings	216

Total rows: 1000 of 1638 Query complete 00:00:00.226

```

80 -- 7. List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name.
81 SELECT
82     e.emp_no,
83     e.last_name,
84     e.first_name,
85     d.dept_name
86 FROM employees e
87 INNER JOIN dept_emp de ON de.emp_no = e.emp_no
88 INNER JOIN departments d ON d.dept_no = de.dept_no
89 WHERE d.dept_name = 'Sales' OR d.dept_name = 'Development';
90
91 -- 8. List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name).
92

```

Data Output Messages Notifications



	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (25)
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	Kazuhiro	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

Total rows: 1000 of 137952 Query complete 00:00:00.166

Ln

```

69 -- 6. List each employee in the Sales department, including their employee number, last name, and first name.
70 SELECT
71     e.emp_no,
72     e.last_name,
73     e.first_name,
74     d.dept_name
75 FROM employees e
76 INNER JOIN dept_emp de ON de.emp_no = e.emp_no
77 INNER JOIN departments d ON d.dept_no = de.dept_no
78 WHERE d.dept_name = 'Sales'
79
80 -- 7. List each employee in the Sales and Development departments, including their employee number, last name,
81
82
83 -- 8. List the frequency counts, in descending order, of all the employee last names (that is, how many employ
84

```

Data Output Messages Notifications



	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (25)
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

Total rows: 1000 of 52245 Query complete 00:00:00.111

```

57 -- 5. List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.
58 SELECT
59     first_name,
60     last_name,
61     sex
62 FROM
63     employees e
64 WHERE
65     first_name = 'Hercules'
66 AND
67     last_name LIKE 'B%'
68
69 -- 6. List each employee in the Sales department, including their employee number, last name, and first name.
70 SELECT
71     e.emp_no,
72     e.last_name,
73     e.first_name,
74     d.dept_name

```

Data Output Messages Notifications

	first_name character varying (25)	last_name character varying (25)	sex character
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	Basagni	M
8	Hercules	Bernardinello	F
9	Hercules	Baranowski	M
10	Hercules	Benzmuller	M
11	Hercules	Biran	F
12	Hercules	Brendel	F
13	Hercules	Barreiro	M

Total rows: 20 of 20 Query complete 00:00:00.084

```

44 -- 4. List the department number for each employee along with that employee's employee number, last name, first name, and department name.
45 -- debugged with the help of chatGPT; had an issue with the ordering of the joins

```

```

46 SELECT
47     d.dept_no,
48     d.dept_name,
49     e.emp_no,
50     e.last_name,
51     e.first_name
52 FROM
53     employees e
54 INNER JOIN dept_emp de ON de.emp_no = e.emp_no
55 INNER JOIN departments d ON d.dept_no = de.dept_no;
56
57 -- 5. List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.
58
59
60 -- 6. List each employee in the Sales department, including their employee number, last name, and first name.
61
62

```

Data Output Messages Notifications

	dept_no character	dept_name character varying (25)	emp_no integer	last_name character varying (25)	first_name character varying (25)
1	d005	Development	10001	Facello	Georgi
2	d003	Human Resources	10005	Maliniak	Kyoichi
3	d004	Production	10010	Piveteau	Duangkaew
4	d006	Quality Management	10010	Piveteau	Duangkaew
5	d009	Customer Service	10011	Sluis	Mary
6	d003	Human Resources	10013	Terkki	Eberhardt
7	d001	Marketing	10017	Bouloucos	Cristinel
8	d004	Production	10018	Peha	Kazuhide
9	d005	Development	10018	Peha	Kazuhide
10	d008	Research	10019	Haddadi	Lillian
11	d004	Production	10026	Bertziss	Yongqiao
12	d004	Production	10035	Chappelet	Alain
13	d005	Development	10037	Makrucki	Pradeep

Total rows: 1000 of 331603 Query complete 00:00:00.307

```

31 -- 3. List the manager of each department along with their department number, department name, employee number, last name, and first name.
32 -- assistance from chatGPT with how to structure the query with 3 tables and debugging
33 SELECT
34     d.dept_no,
35     d.dept_name,
36     e.emp_no,
37     e.last_name,
38     e.first_name
39 FROM
40     employees e
41 INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
42 INNER JOIN departments d ON dm.dept_no=d.dept_no;
43
44 -- 4. List the department number for each employee along with that employee's employee number, last name, first name, and department name.
45
46
47 -- 5. List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.

```

Data Output Messages Notifications

	dept_no character	dept_name character varying (25)	emp_no integer	last_name character varying (25)	first_name character varying (25)
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

Total rows: 24 of 24 Query complete 00:00:00.031

```

22 -- 2. List the first name, last name, and hire date for the employees who were hired in 1986.
23 -- "EXTRACT" syntax obtained with the help of chatGPT.
24 ✓ SELECT
25     e.first_name,
26     e.last_name,
27     EXTRACT(YEAR FROM e.hire_date) AS hire_year
28 FROM employees e
29 WHERE EXTRACT(YEAR FROM e.hire_date) = 1986;
30
31 -- 3. List the manager of each department along with their department number, department name, e
32
33
34 -- 4. List the department number for each employee along with that employee's employee number, l
35
36
37 -- 5. List first name, last name, and sex of each employee whose first name is Hercules and whos
38
39
40 -- 6. List each employee in the Sales department, including their employee number, last name, an
41

```

Data Output Messages Notifications

	first_name character varying (25) 🔒	last_name character varying (25) 🔒	hire_year numeric 🔒
1	Eran	Cusworth	1986
2	Bojan	Zalocco	1986
3	Nevio	Demizu	1986
4	Ziva	Vecchi	1986
5	Mohit	Speak	1986
6	Qunsheng	Speer	1986
7	Dines	Encarnacion	1986
8	Harngdar	Swick	1986
9	Freyja	Uhrig	1986
10	Zenhua	Milicic	1986
11	Bowen	Schmezzo	1986
12	Reuven	Munke	1986
13	Stabiaslas	Domenig	1986
Total rows: 1000 of 36150		Query complete 00:00:00.066	

```

9  -- 1. List the employee number, last name, first name, sex, and salary of each employee.
10 SELECT
11     e.emp_no,
12     e.last_name,
13     e.first_name,
14     e.sex,
15     s.salary
16 FROM employees e
17 JOIN salaries s ON e.emp_no = s.emp_no
18 ORDER BY
19     e.last_name,
20     s.salary DESC;
21

```

Data Output Messages Notifications



	emp_no integer	last_name character varying (25)	first_name character varying (25)	sex character	salary integer
1	292102	Aamodt	Hidefumi	M	101114
2	67277	Aamodt	Teiji	F	100414
3	492546	Aamodt	Elzbieta	F	93965
4	422538	Aamodt	Matk	M	93473
5	105020	Aamodt	Mostafa	F	92903
6	42199	Aamodt	Mats	F	90455
7	294575	Aamodt	Parke	M	89042
8	452757	Aamodt	Gaetan	M	88221
9	240207	Aamodt	Jiann	F	87834
10	280448	Aamodt	Theron	M	87465
11	428594	Aamodt	Breannda	M	87334
12	99276	Aamodt	Takanari	M	85243
13	36585	Aamodt	Menkae	F	84039

Total rows: 1000 of 300024 Query complete 00:00:00.291