

SQL Challenge - Data Analysis

Query Query History

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

Data Output Messages Notifications

	emp_no integer	last_name text	first_name text	sex character	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

Total rows: 1000 of 300024 Query complete 00:00:08.956

Query Query History

```
7 -- 2. List the first name, last name, and hire date for the employees who were hired in 1986.
8 SELECT e.first_name, e.last_name, e.hire_date
9 FROM employees e
10 WHERE e.hire_date LIKE '___/___/1986';
11
```

Data Output Messages Notifications

	first_name text	last_name text	hire_date text
1	Eran	Cusworth	11/14/1986
2	Bojan	Zallocco	10/14/1986
3	Freyja	Uhrig	12/20/1986
4	Juichirou	Ghelli	12/13/1986
5	Shmuel	Georg	11/30/1986

Total rows: 1000 of 6333 Query complete 00:00:01.982 Ln 9, C

Query Query History

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12 --3. List the manager of each department along with their department number,
13 -- department name, employee number, last name, and first name.
14 SELECT t.title, dm.dept_no, d.dept_name, dm.emp_no, e.last_name, e.first_name
15 FROM dept_manager dm
16 JOIN departments d
17 ON dm.dept_no = d.dept_no
18 JOIN employees e
19 ON dm.emp_no = e.emp_no
20 JOIN titles t
21 ON e.emp_title_id = t.title_id;
22

```

Data Output Messages Notifications

	title text	dept_no character varying (4)	dept_name text	emp_no integer	last_name text	first_name text
1	Manager	d001	Marketing	110022	Markovitch	Margareta
2	Manager	d001	Marketing	110039	Minakawa	Vishwani
3	Manager	d002	Finance	110085	Alpin	Ebru
4	Manager	d002	Finance	110114	Legleitner	Isamu
5	Manager	d003	Human Resources	110183	Ossenbruggen	Shirish
Total rows: 24 of 24 Query complete 00:00:00.333						

Query Query History

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22
23 --4. List the department number for each employee along with that employee's employee number,
24 -- last name, first name, and department name.
25 SELECT de.dept_no, de.emp_no, e.last_name, e.first_name, d.dept_name
26 FROM employees e
27 JOIN dept_emp de
28 ON e.emp_no = de.emp_no
29 JOIN departments d
30 ON de.dept_no = d.dept_no;
31
32

```

Data Output Messages Notifications

	dept_no character varying (4)	emp_no integer	last_name text	first_name text	dept_name text
1	d003	10005	Maliniak	Kyoichi	Human Resources
2	d004	10010	Piveteau	Duangkaew	Production
3	d006	10010	Piveteau	Duangkaew	Quality Management
4	d009	10011	Sluis	Mary	Customer Service
5	d003	10013	Terkki	Eberhardt	Human Resources
Total rows: 1000 of 331603 Query complete 00:00:22.166 Ln 3:					

Query Query History

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32
33
34 -- 5. List the first name, last name, and sex of each employee whose first name is
35 -- Hercules and whose last name begins with the letter B.
36 SELECT e.first_name, e.last_name, e.sex
37 FROM employees e
38 WHERE e.first_name = 'Hercules'
39 AND e.last_name LIKE 'B%';
40
41
42

```

Data Output Messages Notifications

	first_name text	last_name text	sex character
1	Hercules	Baer	M
2	Hercules	Biron	F
3	Hercules	Birge	F
4	Hercules	Berstel	F
5	Hercules	Bernatsky	M

Total rows: 20 of 20 Query complete 00:00:02.030

Query Query History

```

43
44 -- 6. List each employee in the Sales department, including their employee number,
45 -- last name, and first name.
46 SELECT d.dept_name, e.emp_no, e.last_name, e.first_name
47 FROM employees e
48 JOIN dept_emp de
49 ON de.emp_no = e.emp_no
50 JOIN departments d
51 ON d.dept_no = de.dept_no
52 WHERE d.dept_name = 'Sales';
53
54

```

Data Output Messages Notifications

	dept_name text	emp_no integer	last_name text	first_name text
1	Sales	10002	Simmel	Bezalel
2	Sales	10016	Cappelletti	Kazuhito
3	Sales	10034	Swan	Bader
4	Sales	10041	Lenart	Uri
5	Sales	10050	Dredge	Yinghua

Total rows: 1000 of 52245 Query complete 00:00:03.939

Query Query History

```

55 -- 7. List each employee in the Sales and Development departments, including their employee number,
56 -- last name, first name, and department name.
57 SELECT e.emp_no, e.last_name, e.first_name, d.dept_name
58 FROM employees e
59 JOIN dept_emp de
60 ON de.emp_no = e.emp_no
61 JOIN departments d
62 ON d.dept_no = de.dept_no
63 WHERE d.dept_name IN ('Sales', 'Development');
64
65

```

Data Output Messages Notifications

	emp_no integer	last_name text	first_name text	dept_name text
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

Total rows: 1000 of 137952 Query complete 00:00:14.683 Ln 63, Col 47

Query Query History

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65
66 --8. List the frequency counts, in descending order, of all the employee last names
67 -- (that is, how many employees share each last name).
68 SELECT e.last_name, COUNT(e.last_name) AS "last_name count"
69 FROM employees e
70 GROUP BY last_name
71 ORDER BY "last_name count" DESC;
72
73

```

Data Output Messages Notifications

	last_name text	last_name count bigint
1	Baba	226
2	Gelosh	223
3	Coorg	223
4	Sudbeck	222
5	Farris	222

Total rows: 1000 of 1638 Query complete 00:00:06.404

