

```
-- 1. List the following details of each employee: employee number, last name, first name, sex, and salary.
```

```
SELECT emp.emp_no, emp.last_name, emp.first_name, emp.sex, sal.salary
FROM employees AS emp
INNER JOIN salaries AS sal ON emp.emp_no = sal.emp_no;
```

[Data Output](#) [Explain](#) [Messages](#) [Notifications](#)

	emp_no integer	last_name character varying	first_name character varying	sex character (1)	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
10	43471	Gihr	Mechthild	F	40023
11	444985	Verspoor	Giap	F	71042
12	492723	Sanella	Piyawadee	M	46740
13	430653	Peroz	Masoud	F	69077

```
-- 2. List first name, last name, and hire date for employees who were hired in 1986.
```

```
SELECT first_name, last_name, hire_date
FROM employees
WHERE EXTRACT(YEAR FROM hire_date) = 1986;
```

[Data Output](#) [Explain](#) [Messages](#) [Notifications](#)

	first_name character varying	last_name character varying	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	Schmezzo	1986-05-30
12	Reuven	Munke	1986-04-13
13	Stabslas	Domenig	1986-08-04

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

```
SELECT manager.dept_no, dep.dept_name, manager.emp_no, emp.last_name, emp.first_name
FROM dept_manager AS manager
INNER JOIN departments AS dep ON manager.dept_no = dep.dept_no
INNER JOIN employees AS emp ON manager.emp_no = emp.emp_no;
```

Data Output	Explain	Messages	Notifications		
	dept_no character (4)	dept_name character varying	emp_no integer	last_name character varying	first_name character varying
1	d009	Customer Service	111877	Spinelli	Xiaobin
2	d008	Research	111534	Kambil	Hilary
3	d006	Quality Management	110765	Hofmeyr	Rutger
4	d004	Production	110420	Ghazalie	Oscar
5	d006	Quality Management	110725	Onuegbe	Peternela
6	d001	Marketing	110022	Markovitch	Margareta
7	d007	Sales	111035	Kaelbling	Przemyslaw
8	d005	Development	110511	Hagimont	DeForest
9	d005	Development	110567	DasSarma	Leon
10	d003	Human Resources	110183	Ossenbruggen	Shirish
11	d009	Customer Service	111939	Weedman	Yuchang
12	d002	Finance	110114	Legleitner	Isamu
13	d006	Quality Management	110854	Pesch	Dung

```
-- 4. List the department of each employee with the following information: employee number, last name, first name, and department name.
```

```
SELECT emp.emp_no, emp.last_name, emp.first_name, dept.dept_name
FROM employees AS emp
INNER JOIN dept_emp ON emp.emp_no = dept_emp.emp_no
INNER JOIN departments AS dept ON dept_emp.dept_no = dept.dept_no;
```

Data Output		Explain	Messages	Notifications	
	emp_no integer	last_name character varying	first_name character varying	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	

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

```
SELECT first_name, last_name, sex
FROM employees
WHERE first_name = 'Hercules' AND last_name LIKE 'B%';
```

Data Output Explain Messages Notifications				
	first_name character varying	last_name character varying	sex character (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	Bisiani	F	
13	Hercules	Benzmuller	M	

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

```
SELECT emp.emp_no, emp.last_name, emp.first_name, dep.dept_name
FROM employees AS emp
INNER JOIN dept_emp ON emp.emp_no = dept_emp.emp_no
INNER JOIN departments AS dep ON dept_emp.dept_no = dep.dept_no
WHERE dep.dept_name = 'Sales';
```

Data Output Explain Messages Notifications					
	emp_no integer	last_name character varying	first_name character varying	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	

```
-- 7. List all employees in the Sales and Development departments, including their employee number, last name, first name,
--    and department name.
```

```
SELECT emp.emp_no, emp.last_name, emp.first_name, dep.dept_name
FROM employees AS emp
INNER JOIN dept_emp ON emp.emp_no = dept_emp.emp_no
INNER JOIN departments AS dep ON dept_emp.dept_no = dep.dept_no
WHERE dep.dept_name = 'Sales' OR dep.dept_name = 'Development';
```

Data Output Explain Messages Notifications

	emp_no integer	last_name character varying	first_name character varying	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	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	

```
-- 8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.
```

```
SELECT last_name, COUNT(last_name) AS "The Number of Last Name"
FROM employees
GROUP BY last_name
ORDER BY COUNT(last_name) DESC;
```

Data Output Explain Messages Notifications

	last_name character varying	The Number of Last Name bigint	
1	Baba	226	
2	Gelosh	223	
3	Coorg	223	
4	Sudbeck	222	
5	Farris	222	
6	Adachi	221	
7	Osgood	220	
8	Mandell	218	
9	Neiman	218	
10	Masada	218	
11	Boudaillier	217	
12	Wendorf	217	
13	Cummins	216	

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