

Object Explorer

Schemas (1)

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 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
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 - Materialized Views
 - Operators
 - Procedures
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 - Tables (6)
 - departments
 - dept_emp
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 - employees
 - salaries
 - titles
 - Trigger Functions
 - Types
 - Views
- Subscriptions
- SQL_Day2
- bcapril_01
- postgres
- Login/Group Roles
- Tablespaces

HW9_employee/postgres@PostgreSQL 16

Query

```
-- 2: List the first name, last name, and hire date for the employees who were hired in 1986
SELECT
    first_name, last_name, hire_date
FROM
    employees
WHERE
    extract(year from hire_date) = 1986;
```

Data Output

	first_name	last_name	hire_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	Speck	1986-01-14
6	Qunsheng	Speer	1986-02-13

Total rows: 1000 of 36150 Query complete 00:00:00.173

HW9_employee/postgres@PostgreSQL 16

Query

```
--1: List the employee number, last name, first name, sex, and salary of each employee.
Select
    e.emp_no,
    e.last_name,
    e.first_name,
    e.sex,
    s.salary
FROM
    employees e
    join salaries s on e.emp_no = s.emp_no
Order by
    e.last_name ASC,
    s.salary DESC;
```

Data Output

	emp_no	last_name	first_name	sex	salary
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

Total rows: 1000 of 300024 Query complete 00:00:01.169

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (6)

departments

dept_emp

dept_manager

employees

salaries

titles

Trigger Functions

Types

Views

Subscriptions

SQL_Day2

bcapril_01

postgres

Login/Group Roles

Tablespaces

```
8
9
10 -- 3:List the manager of each department along with their department number, department name, employee number,
11 --last name, and first name.
12 SELECT departments.dept_no, departments.dept_name, dept_manager.emp_no, employees.last_name, employees.first_name
13 FROM departments
14 JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
15 JOIN employees ON dept_manager.emp_no = employees.emp_no;
```

Data Output

Messages

Notifications

	dept_no	dept_name	emp_no	last_name	first_name
	character varying (5)	character varying (50)	integer	character varying (25)	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

Total rows: 24 of 24 Query complete 00:00:00.050 Ln 14, Col 58

Schemas (1)

public

Aggregates

Collations

Domains

FTS Configurations

FTS Dictionaries

FTS Parsers

FTS Templates

Foreign Tables

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (6)

departments

dept_emp

dept_manager

employees

salaries

titles

Trigger Functions

Types

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SQL_Day2

bcapril_01

postgres

Login/Group Roles

Tablespaces

Dashboard

Properties

SQL

Statistics

Dependencies

Dependents

Processes

Ferrier_Q1.sql*

HW9_employee/postgres@PostgreSQL 16

Query

Query History

```
4 FROM
5 employees
6 WHERE
7 extract(year from hire_date) = 1986;
8
9 -- 3:List the manager of each department along with their department number, department name, employee number,
10 --last name, and first name.
11 SELECT departments.dept_no, departments.dept_name, dept_manager.emp_no, employees.last_name, employees.first_name
12 FROM departments
13 JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
14 JOIN employees ON dept_manager.emp_no = employees.emp_no;
15
16 --4: List the department of each employee with the following information: employee number, last name, first name,
17 --and department name.
18 SELECT dept_emp.emp_no, employees.last_name, employees.first_name, departments.dept_name
19 FROM dept_emp
20 JOIN employees ON dept_emp.emp_no = employees.emp_no
21 JOIN departments ON dept_emp.dept_no = departments.dept_no;
```

Data Output

Messages

Notifications

	emp_no	last_name	first_name	dept_name
	integer	character varying (25)	character varying (25)	character varying (50)
1	10001	Facello	Georgi	Development
2	10005	Maliniak	Kyoichi	Human Resources
3	10010	Piveteau	Duangkaew	Production
4	10010	Piveteau	Duangkaew	Quality Management
5	10011	Sluis	Mary	Customer Service
6	10013	Terkki	Eberhardt	Human Resources

Total rows: 1000 of 331603 Query complete 00:00:00.543 Ln 21, Col 6

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X Ferrier_Q1.sql X

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Query Query History

```
9 -- 3: List the manager of each department along with their department number, department name, employee number,
10 --last name, and first name.
11 SELECT departments.dept_no, departments.dept_name, dept_manager.emp_no, employees.last_name, employees.first_name
12 FROM departments
13 JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
14 JOIN employees ON dept_manager.emp_no = employees.emp_no;
15
16 --4: List the department of each employee with the following information: employee number, last name, first name,
17 --and department name.
18 SELECT dept_emp.emp_no, employees.last_name, employees.first_name, departments.dept_name
19 FROM dept_emp
20 JOIN employees ON dept_emp.emp_no = employees.emp_no
21 JOIN departments ON dept_emp.dept_no = departments.dept_no;
22
23 --5: List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
24 SELECT employees.first_name, employees.last_name, employees.sex
25 FROM employees
26 WHERE first_name = 'Hercules' AND last_name Like 'B%';
```

Data Output Messages Notifications

	first_name character varying (25)	last_name character varying (25)	sex character varying (5)
1	Hercules	Baer	M
2	Hercules	Biron	F
3	Hercules	Birge	F
4	Hercules	Berstel	F
5	Hercules	Bernatsky	M
6	Hercules	Bail	F

Total rows: 20 of 20 Query complete 00:00:00.188 Ln 26, Col 55

HW9_employee/postgres@PostgreSQL 16

Query Query History

```
17 --4: List the department of each employee with the following information: employee number, last name, first name,
18 --and department name.
19 SELECT dept_emp.emp_no, employees.last_name, employees.first_name, departments.dept_name
20 FROM dept_emp
21 JOIN employees ON dept_emp.emp_no = employees.emp_no
22 JOIN departments ON dept_emp.dept_no = departments.dept_no;
23
24 --5: List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."
25 SELECT employees.first_name, employees.last_name, employees.sex
26 FROM employees
27 WHERE first_name = 'Hercules' AND last_name Like 'B%';
28
29 --6: List all employees in the Sales department, including their employee number, last name, first name,
30 --and department name.
31 SELECT departments.dept_name, employees.last_name, employees.first_name, employees.emp_no
32 FROM dept_emp
33 JOIN employees ON dept_emp.emp_no = employees.emp_no
34 JOIN departments ON dept_emp.dept_no = departments.dept_no
35 WHERE departments.dept_name = 'Sales';
```

Data Output Messages Notifications

	dept_name character varying (50)	last_name character varying (25)	first_name character varying (25)	emp_no integer
1	Sales	Simmel	Bezalel	10002
2	Sales	Cappelletti	Kazuhito	10016
3	Sales	Swan	Bader	10034
4	Sales	Lenart	Uri	10041
5	Sales	Dredge	Yinghua	10050
6	Sales	Zschoche	Sanjiv	10053

Total rows: 1000 of 52245 Query complete 00:00:00.284 Ln 34, Col 39

HW9_employee/postgres@PostgreSQL 16

Query Query History

```

27
28 --6: List all employees in the Sales department, including their employee number, last name, first name,
29 --and department name.
30 ✓ SELECT departments.dept_name, employees.last_name, employees.first_name, employees.emp_no
31 FROM dept_emp
32 JOIN employees ON dept_emp.emp_no = employees.emp_no
33 JOIN departments ON dept_emp.dept_no = departments.dept_no
34 WHERE departments.dept_name = 'Sales';
35 --7 List each employee in the Sales and Development departments, including their employee number, last name,
36 --first name, and department name.
37 ✓ SELECT employees.emp_no, employees.last_name, employees.first_name, departments.dept_name
38 FROM dept_emp
39 JOIN employees
40 ON dept_emp.emp_no = employees.emp_no
41 JOIN departments
42 ON dept_emp.dept_no = departments.dept_no
43 WHERE departments.dept_name = 'Sales' OR departments.dept_name = 'Development';
44 --8 List the frequency counts, in descending order, of all the employee last names
45 --(that is, how many employees share each last name).

```

Data Output Messages Notifications

	emp_no integer	last_name character varying (25)	first_name character varying (25)	dept_name character varying (50)
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

Total rows: 1000 of 137952 Query complete 00:00:00.439 Ln 43, Col 80

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Query Query History

```

33 JOIN departments ON dept_emp.dept_no = departments.dept_no
34 WHERE departments.dept_name = 'Sales';
35 --7 List each employee in the Sales and Development departments, including their employee number, last name,
36 --first name, and department name.
37 ✓ SELECT employees.emp_no, employees.last_name, employees.first_name, departments.dept_name
38 FROM dept_emp
39 JOIN employees
40 ON dept_emp.emp_no = employees.emp_no
41 JOIN departments
42 ON dept_emp.dept_no = departments.dept_no
43 WHERE departments.dept_name = 'Sales' OR departments.dept_name = 'Development';
44 --8 List the frequency counts, in descending order, of all the employee last names
45 --(that is, how many employees share each last name).
46 ✓ SELECT last_name,
47 COUNT(last_name) AS "frequency"
48 FROM employees
49 GROUP BY last_name
50 ORDER BY
51 COUNT(last_name) DESC;

```

Data Output Messages Notifications

	last_name character varying (25)	frequency bigint
1	Baba	226
2	Coorg	223
3	Gelosh	223
4	Farris	222
5	Sudbeck	222
6	Adachi	221

Total rows: 1638 of 1638 Query complete 00:00:00.200 Ln 50, Col 9