

pgAdmin 4

File Object Tools Help

Object Explorer

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Dashboard Properties SQL Statistics Dependencies Dependents Processes sql\_challenge/postgres@PostgreSQL 16\*

Query History

```
-- 1) List the employee number, last name, first name, sex, and salary of each employee.  
-- Followed live instructor demonstration of code.  
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 Messages Notifications

emp_no	last_name	first_name	sex	salary	
integer	character varying (200)	character varying (150)	character varying (5)	double precision	
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	294579	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	Breanna	M	87334
12	99276	Aamodt	Takanari	M	85243
13	36585	Aamodt	Menkae	F	84039

Total rows: 1000 of 300024 Query complete 00:00:01.283 Ln 14, Col 16

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Dashboard Properties SQL Statistics Dependencies Dependents Processes sql\_challenge/postgres@PostgreSQL 16\* sql\_challenge/postgres@PostgreSQL 16\*

Query History

```
-- 2) List the first name, last name, and hire date for the employees who were hired in 1986.  
SELECT  
    e.first_name,  
    e.last_name,  
    e.hire_date  
FROM  
    employees e  
WHERE  
    EXTRACT(YEAR FROM e.hire_date) = 1986  
ORDER BY  
    e.last_name ASC;
```

Data Output Messages Notifications

first_name	last_name	hire_date	
character varying (150)	character varying (200)	date	
1	Mahmut	Aamodt	1986-04-10
2	Theron	Aamodt	1986-03-16
3	Qingxiang	Aamodt	1986-03-05
4	Lulise	Aamodt	1986-07-27
5	Moto	Aamodt	1986-05-29
6	Kazuhiro	Aamodt	1986-12-02
7	Marek	Aamodt	1986-01-31
8	Dietrich	Aamodt	1986-12-07
9	Anrind	Aamodt	1986-11-20
10	Jaideep	Aamodt	1986-07-16
11	Shmuel	Aamodt	1986-05-27
12	Salvador	Aamodt	1986-03-16
13	Anuragum	Aamodt	1986-01-09

Total rows: 1000 of 36150 Query complete 00:00:00.456 Ln 11, Col 18

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Dashboard Properties SQL Statistics Dependencies Dependents Processes sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/postgres@PostgreSQL 16\*

Query Query History

```
1 -- 3) List the manager of each department along with their department number,
2 -- department name, employee number, last name, and first name.
3 SELECT
4     e.emp_no,
5     e.last_name,
6     e.first_name,
7     d.dept_no,
8     ds.dept_name
9 FROM
10     dept_manager d
11     join employees e on e.emp_no = d.emp_no
12     join departments ds on ds.dept_no = d.dept_no
13 Order by
14     e.emp_no ASC;
```

Data Output Messages Notifications

emp_no	last_name	first_name	dept_no	dept_name
1	110022	Markovitch	d001	Marketing
2	110039	Minakawa	d001	Marketing
3	110085	Alpin	d002	Finance
4	110114	Legleitner	d002	Finance
5	110183	Ossenbruggen	d003	Human Resources
6	110228	Sigstam	d003	Human Resources
7	110303	Wegerle	d004	Production
8	110344	Cools	d004	Production
9	110386	Kieras	d004	Production
10	110420	Ghazale	d004	Production
11	110511	Hagimont	d005	Development
12	110567	DasSarma	d005	Development
13	110725	Onuegbue	d006	Quality Management

Total rows: 24 of 24 Query complete 00:00:00.055 Ln 14, Col 15

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Properties SQL Statistics Dependencies Dependents Processes sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/postgres@PostgreSQL 16\*

Query Query History

```
1 -- 4) List the department number for each employee
2 -- along with that employee's employee number, last name, first name, and department name.
3 SELECT
4     d.dept_no,
5     e.emp_no,
6     e.last_name,
7     e.first_name,
8     d.dept_name
9 FROM
10     employees e
11     join departments d on e.emp_no = e.emp_no
12 Order by
13     d.dept_name ASC;
```

Data Output Messages Notifications

dept_no	emp_no	last_name	first_name	dept_name
1	d009	247279	Radwan	Monique
2	d009	442618	Piancastelli	Jaewon
3	d009	495111	Stavenow	Yannik
4	d009	468752	Trystam	Elrique
5	d009	489052	Alencar	Bilhanan
6	d009	200122	Basart	Jayesh
7	d009	492118	Murthy	Maha
8	d009	38553	Bage	Dinkar
9	d009	478307	Casley	Minalini
10	d009	19135	Solcher	Leaf
11	d009	407833	Kavanagh	Pranav
12	d009	425850	Denti	Phule
13	d009	242556	Piazza	Nikolaus

Total rows: 1000 of 2700216 Query complete 00:00:05.616 Ln 13, Col 18

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Statistics Dependencies Dependents Processes sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/postgres@PostgreSQL 16\*

Query Query History

```

1 -- S) List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the t
2 -- Followed live instructor demonstration of code.
3 SELECT
4   e.first_name,
5   e.last_name,
6   e.sex
7 FROM
8   employees e
9 WHERE
10  e.first_name = 'Hercules'
11  and e.last_name like 'B%'
12 ORDER BY
13   e.last_name ASC,
14   e.first_name ASC;

```

Data Output Messages Notifications

	first_name character varying (150)	last_name character varying (200)	sex character varying (5)
1	Hercules	Baak	M
2	Hercules	Baer	M
3	Hercules	Bahr	M
4	Hercules	Bail	F
5	Hercules	Bain	F
6	Hercules	Baranowski	M
7	Hercules	Barreiro	M
8	Hercules	Basagni	M
9	Hercules	Benantar	F
10	Hercules	Benzmuler	M
11	Hercules	Bernardinello	F
12	Hercules	Bernatsky	M
13	Hercules	Berstel	F

Total rows: 20 of 20 Query complete 00:00:00.148

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Statistics Dependencies Dependents Processes sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/pos... sql\_challenge/postgres@PostgreSQL 16\*

Query Query History

```

1 -- S) List each employee in the Sales department, including their employee number, last name, and first name.
2 SELECT
3   e.emp_no,
4   e.first_name,
5   e.last_name
6 FROM
7   employees e
8   join dept_emp de on e.emp_no = de.emp_no
9   join departments d on de.dept_no = d.dept_no
10  WHERE
11    d.dept_name = 'Sales'
12 ORDER BY
13   e.last_name ASC;

```

Data Output Messages Notifications

	emp_no [PK] integer	first_name character varying (150)	last_name character varying (200)
1	18998	Vidar	Aamott
2	455773	Aemilian	Aamott
3	57933	Yishay	Aamott
4	67277	Teiji	Aamott
5	105020	Mostafa	Aamott
6	36585	Menkae	Aamott
7	42706	Khalid	Aamott
8	203606	Lenore	Aamott
9	417814	Vechiam	Aamott
10	492546	Elsbieta	Aamott
11	294375	Parke	Aamott
12	408737	Leen	Aamott
13	43174	Mariusz	Aamott

Total rows: 1000 of 52245 Query complete 00:00:00.439

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              - dept\_emp
              - dept\_manager
              - employees
              - salaries
              - titles
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Query

```
-- ?? List each employee in the Sales and Development departments,
-- including their employee number, last name, first name, and department name.
SELECT
  e.emp_no,
  e.first_name,
  e.last_name,
  d.dept_name as department_name
FROM
  employees e
  join dept_emp de on e.emp_no = de.emp_no
  join departments d on de.dept_no = d.dept_no
WHERE
  d.dept_name in ('Sales', 'Development')
ORDER BY
  e.last_name ASC;
```

Data Output

emp_no	first_name	last_name	department_name
107094	Baoou	Aamodt	Sales
242185	Kazuhiro	Aamodt	Development
36585	Menkae	Aamodt	Sales
31701	Carsten	Aamodt	Development
42706	Khalid	Aamodt	Sales
271789	Valeri	Aamodt	Sales
252763	Felicidad	Aamodt	Development
82381	Welyj	Aamodt	Development
238705	Anosh	Aamodt	Development
290839	Guoxiang	Aamodt	Sales
107602	Sorina	Aamodt	Development
236802	Yoshimitsu	Aamodt	Development
43174	Mariusz	Aamodt	Sales

Total rows: 1000 of 137952 Query complete 00:00:00.799

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10:00 PM 6/26/2024

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              - dept\_manager
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Query

```

1 -- s) List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each
2 -- Followed live instructor demonstration of code.
3 SELECT
4   e.last_name,
5   count(e.emp_no) as num_last_name
6 FROM
7   employees e
8 GROUP BY
9   e.last_name
10 ORDER BY
11   num_last_name ASC;
12
13 -- BONUS) WHO is the UNIQUE Employee (by last name)?
14 SELECT
15   *
16 FROM
17   employees e
18 WHERE
19   e.last_name = 'Foolsdady'

```

Data Output

last_name	num_last_name
Foolsdady	1
Sadowsky	145
Memo	147
Guardalen	148
Georgatos	148
Zykh	148
Rosar	150
Schwartzbauer	151
Dull	151
Noilmann	151
Zambonelli	151
Gonthier	151
Provine	151

Successfully run. Total query runtime: 319 msec. 1638 rows affected.

Total rows: 1000 of 1638 Query complete 00:00:00.319

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Query

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10 ORDER BY
11   num_last_name ASC;
12
13 -- BONUS) WHO is the UNIQUE Employee (by last name)?
14 SELECT
15   *
16 FROM
17   employees e
18 WHERE
19   e.last_name = 'Foolsdady'

```

Data Output

emp_no	emp_title	birth_date	first_name	last_name	sex	hire_date	last_updated
499942	e0004	1963-01-10	April	Foolsdady	F	1997-02-10	2024-05-23 16:54:14.070005

Successfully run. Total query runtime: 178 msec. 1 rows affected.

Total rows: 1 of 1 Query complete 00:00:00.178