

## Challenge 9 Queries

pgAdmin 4

File Object Tools Help

Object Explorer

- > crowdfunding\_db
- > db
- > postgres
- > **sql\_challenge**
  - > Casts
  - > Catalogs
  - > Event Triggers
  - > Extensions
  - > Foreign Data Wra
  - > Languages
  - > Publications
  - > Schemas (1)
    - > public
      - > Aggregates
      - > Collations
      - > Domains
      - > FTS Configu
      - > FTS Diction
      - > FTS Parsers
      - > FTS Templa
      - > Foreign Tab
      - > Functions
      - > Materialized
      - > Operators
      - > Procedures
      - > Sequences
      - > Tables (6)
        - > departme
        - > dept\_emj
        - > dept\_mar
        - > empl

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

No limit

Query Query History

```
1 --List the employee number, last name, first name, sex, and salary
2 --of each employee
3
4 SELECT
5     e.emp_no,
6     e.last_name,
7     e.first_name,
8     e.sex,
9     s.salary
10 FROM
11     employees e
12     join salaries s on e.emp_no = s.emp_no
13 Order by
14     e.last_name ASC,
15     s.salary DESC;
16
```

Scratch Pad

Data Output Messages Notifications

	emp_no integer	last_name character varying	first_name character varying	sex character varying	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

Total rows: 1000 of 300024 Query complete 00:00:00.452 Ln 16, Col 1

pgAdmin 4

File Object Tools Help

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad x

```
17 --List the first name, last name, and hire date for the employees
18 --who were hired in 1986
19
20 SELECT
21     e.first_name,
22     e.last_name,
23     e.sex
24 FROM
25     employees e
26 WHERE
27     e.first_name = 'Hercules'
28     and e.last_name like 'B%'
29 ORDER BY
30     e.last_name ASC,
31     e.first_name ASC;
32
```

Data Output Messages Notifications

	first_name character varying	last_name character varying	sex character varying
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

Total rows: 20 of 20 Query complete 00:00:00.093 Ln 31, Col 19

pgAdmin 4

File Object Tools Help

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad x

```
33 --List the manager of each department along with their department number,
34 --department name, employee number, last name, and first name
35
36 SELECT
37     dm.dept_no,
38     d.dept_name,
39     dm.emp_no,
40     e.last_name,
41     e.first_name
42 FROM
43     dept_manager dm
44 INNER JOIN
45     departments d ON dm.dept_no = d.dept_no
46 INNER JOIN
47     employees e ON dm.emp_no = e.emp_no;
48
```

Data Output Messages Notifications

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

Total rows: 24 of 24 Query complete 00:00:00.041 Ln 47, Col 41

pgAdmin 4

File Object Tools Help

Object Explorer

- crowdfunding\_db
- db
- postgres
- sql\_challenge
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wra
  - Languages
  - Publications
  - Schemas (1)
    - public
      - Aggregates
      - Collations
      - Domains
      - FTS Config
      - FTS Diction
      - FTS Parsers
      - FTS Templa
      - Foreign Tab
      - Functions
      - Materialized
      - Operators
      - Procedures
      - Sequences
      - Tables (6)
        - dept\_mn
        - dept\_em
        - dept\_ma
        - employe

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
--List the department number for each employee along with that employee's
--employee number, last name, first name, and department name
SELECT
  e.emp_no,
  e.last_name,
  e.first_name,
  d.dept_name
FROM
  employees e
INNER JOIN
  dept_emp de ON e.emp_no = de.emp_no
INNER JOIN
  departments d ON de.dept_no = d.dept_no
ORDER BY
  e.emp_no;
```

Data Output Messages Notifications

	emp_no integer	last_name character varying	first_name character varying	dept_name character varying (50)
1	10001	Facello	Georgi	Development
2	10002	Simmel	Bezael	Sales
3	10003	Bamford	Parto	Production
4	10004	Koblick	Chirstian	Production
5	10005	Maliniak	Kyoichi	Human Resources
6	10006	Preusig	Anneke	Development
7	10007	Zielinski	Tzvetan	Research
8	10008	Kalloufi	Saniya	Development

Total rows: 1000 of 331603 Query complete 00:00:00.301 Ln 64, Col 14

pgAdmin 4

File Object Tools Help

Object Explorer

- crowdfunding\_db
- db
- postgres
- sql\_challenge
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wra
  - Languages
  - Publications
  - Schemas (1)
    - public
      - Aggregates
      - Collations
      - Domains
      - FTS Config
      - FTS Diction
      - FTS Parsers
      - FTS Templa
      - Foreign Tab
      - Functions
      - Materialized
      - Operators
      - Procedures
      - Sequences
      - Tables (6)
        - dept\_mn
        - dept\_em
        - dept\_ma
        - employe

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
--List first name, last name, and sex of each employee whose first name
--is Hercules and whose last name begins with the letter B
SELECT
  first_name,
  last_name,
  birth_date,
  sex
FROM
  employees
WHERE
  first_name = 'Hercules'
  AND last_name LIKE 'B%';
--List each employee in the Sales department, including their employee
--number, last name, and first name
```

Data Output Messages Notifications

	first_name character varying	last_name character varying	birth_date date	sex character varying
1	Hercules	Baer	1964-10-12	M
2	Hercules	Biron	1957-10-17	F
3	Hercules	Birge	1964-12-24	F
4	Hercules	Berstel	1954-04-05	F
5	Hercules	Bernatsky	1954-08-27	M
6	Hercules	Bail	1961-08-14	F
7	Hercules	Bodoff	1959-02-13	M
8	Hercules	Benantar	1963-07-20	F

Total rows: 20 of 20 Query complete 00:00:00.135 Ln 77, Col 29

pgAdmin 4

File Object Tools Help

Object Explorer

- crowdfunding\_db
- db
- postgres
- sql\_challenge
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wra
  - Languages
  - Publications
  - Schemas (1)
    - public
      - Aggregates
      - Collations
      - Domains
      - FTS Configu
      - FTS Diction
      - FTS Parsers
      - FTS Templa
      - Foreign Tab
      - Functions
      - Materialized
      - Operators
      - Procedures
      - Sequences
      - Tables (6)
        - departme
        - dept\_emj
        - dept\_mar
        - employee

challenge9/postgr... x sql\_challenge/pos... x venes\_schema.sql x venes\_queries.sql x

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
--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.last_name,
    e.first_name,
    d.dept_name
FROM
    employees e
INNER JOIN
    dept_emp de ON e.emp_no = de.emp_no
INNER JOIN
    departments d ON de.dept_no = d.dept_no
WHERE
    d.dept_name IN ('Sales', 'Development')
ORDER BY
    e.emp_no;
```

Data Output Messages Notifications

	emp_no integer	last_name character varying	first_name character varying	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
7	10016	Cannellatti	Kazuhito	Sales

Total rows: 1000 of 137952 Query complete 00:00:00.213 Ln 115, Col 14

pgAdmin 4

File Object Tools Help

challenge9/postgr... sql\_challenge/pos... venes\_schema.sql venes\_queries.sql

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
79 --List each employee in the Sales department, including their employee
80 --number, last name, and first name
81
82 SELECT
83     e.emp_no,
84     e.last_name,
85     e.first_name,
86     d.dept_name
87 FROM
88     employees e
89 INNER JOIN
90     dept_emp de ON e.emp_no = de.emp_no
91 INNER JOIN
92     departments d ON de.dept_no = d.dept_no
93 WHERE
94     d.dept_name = 'Sales'
95 ORDER BY
96     e.emp_no;
```

Data Output Messages Notifications

	emp_no integer	last_name character varying	first_name character varying	dept_name character varying (50)
1	10002	Simmel	Bezalel	Sales
2	10016	Cappelletti	Kazuhiro	Sales
3	10034	Swan	Bader	Sales
4	10041	Lenart	Uri	Sales
5	10050	Dredge	Yinghua	Sales
6	10053	Zschoche	Sanjiv	Sales
7	10060	Billingsley	Breanna	Sales

Total rows: 1000 of 52245 Query complete 00:00:00.116 Ln 96, Col 14

pgAdmin 4

File Object Tools Help

challenge9/postgr... sql\_challenge/pos... venes\_schema.sql venes\_queries.sql

sql\_challenge/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
112 WHERE
113     d.dept_name IN ('Sales', 'Development')
114 ORDER BY
115     e.emp_no;
116
117 --List the frequency counts, in descending order, of all the employee last
118 --names (that is, how many employees share each last name)
119
120 SELECT
121     last_name,
122     COUNT(last_name)
123 FROM
124     employees
125 GROUP BY
126     last_name
127 ORDER BY
128     COUNT(last_name) DESC;
129
```

Data Output Messages Notifications

	last_name character varying	count bigint
1	Baba	226
2	Gelosh	223
3	Coorg	223
4	Sudbeck	222
5	Farris	222
6	Adachi	221
7	Osmond	220

Total rows: 1000 of 1638 Query complete 00:00:00.063 Ln 128, Col 27