

pgAdmin 4

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lab4/postgres@PostgreSQL 17*

lab4/postgres@PostgreSQL 17

Query Query History

```
--1 task
SELECT UPPER(name) AS airline_name_upper
FROM airlines;
```

Scratch Pad

Data Output Messages Notifications

	airline_name_upper text
1	AIR ASTANA
2	QAZAQ AIR
3	TURKISH AIRLINES
4	EMIRATES
5	LUFTHANSA

Total rows: 5 Query complete 00:00:00.130

CRLF Ln 4, Col 1

Активация Windows
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lab4/postgres@PostgreSQL 17

Query

```
--2 Task
SELECT REPLACE(name, 'Air', 'Aero') AS airline_name_replaced
FROM airlines;
```

Query History

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

airline_name_replaced
1 Aero Astana
2 Qazaq Aero
3 Turkish Airlines
4 Emirates
5 Lufthansa

Total rows: 5 Query complete 00:00:00.230

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Активация Windows
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lab4/postgres@PostgreSQL 17

Query

```
--3 task
SELECT f.flight_no
FROM flights f
JOIN flight_airlines fa ON fa.flight_id = f.id
WHERE fa.airline_id IN (1, 2)
GROUP BY f.flight_no
HAVING COUNT(DISTINCT fa.airline_id) = 2;
```

Query History

Scratch Pad

Data Output

flight_no
1 KC101

Showing rows: 1 to 1 Page No: 1 of 1

Total rows: 1 Query complete 00:00:00.287

CRRLF Ln 8, Col 1

Активация Windows
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lab4/postgres@PostgreSQL 17*

Query

```
--4 Task
SELECT *
FROM airports
WHERE name ILIKE '%air%'
AND (name ILIKE '%reginal%' OR name ILIKE '%regional%');
```

Query History

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1

id	name	city	country
[PK] integer	character varying (100)	character varying (100)	character varying (100)
1	5 Frankfurt Regional Air Hub	Frankfurt	Germany

Total rows: 1 Query complete 00:00:00.885

CRRLF Ln 6, Col 1

Активация Windows
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17:55 07.10.2025

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lab4/postgres@PostgreSQL 17

Query

```
--5 tack
SELECT
  full_name,
  TO_CHAR(birth_date, 'Month DD, YYYY') AS birth_date_formatted
FROM passengers;
```

Query History

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	full_name character varying (100)	birth_date_formatted text
1	Aruzhan Sadykova	April 12, 2000
2	Nursultan Alim	August 21, 1990
3	Diana Kadyrova	February 10, 1987
4	Timur Bek	November 03, 1975
5	Aigerim Nur	September 09, 2004

Total rows: 5 Query complete 00:00:00.191

CRRLF Ln 6, Col 1

Активация Windows
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lab4/postgres@PostgreSQL 17*

lab4/postgres@PostgreSQL 17

Query Query History

```
--6 Task
SELECT
  flight_no,
  (EXTRACT(EPOCH FROM (actual_arrival - scheduled_arrival)) / 60)::INT AS delay_minutes
FROM flights
WHERE actual_arrival > scheduled_arrival;
```

Data Output Messages Notifications

Showing rows: 1 to 3 Page No: 1 of 1

	flight_no character varying (20)	delay_minutes integer
1	KC101	10
2	QZ202	30
3	LH505	45

Total rows: 3 Query complete 00:00:00.165

Активация Windows
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✓ Successfully run. Total query runtime: 165 msec. 3 rows affected. ✕

CRLF Ln 1, Col 9

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lab4/postgres@PostgreSQL 17

Query Query History

```
--7 tack
SELECT
  full_name,
  DATE_PART('year', AGE(CURRENT_DATE, birth_date)) AS age,
  CASE
    WHEN DATE_PART('year', AGE(CURRENT_DATE, birth_date)) BETWEEN 18 AND 35 THEN 'Y
    WHEN DATE_PART('year', AGE(CURRENT_DATE, birth_date)) BETWEEN 36 AND 55 THEN 'A
    ELSE 'Other'
  END AS age_group
FROM passengers;
```

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	full_name character varying (100)	age double precision	age_group text
1	Aruzhan Sadykova	25	Young
2	Nursultan Alim	35	Young
3	Diana Kadyrova	38	Adult
4	Timur Bek	49	Adult
5	Aigerim Nur	21	Young

Total rows: 5 Query complete 00:00:00.167

Активация Windows
Чтобы активировать Windows, перейдите в

✓ Successfully run. Total query runtime: 167 msec. 5 rows affected. ✕

CRLF Ln 11, Col 1

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lab4/postgres@PostgreSQL 17

Query

```
--8 tack
SELECT
  id AS ticket_id,
  price,
  CASE
    WHEN price < 100 THEN 'Cheap'
    WHEN price BETWEEN 100 AND 300 THEN 'Medium'
    ELSE 'Expensive'
  END AS price_category
FROM tickets;
```

Query History

Scratch Pad

Data Output

Showing rows: 1 to 5 Page No: 1 of 1

	ticket_id integer	price numeric(10,2)	price_category text
1	1	95.50	Cheap
2	2	180.00	Medium
3	3	320.00	Expensive
4	4	280.00	Medium
5	5	120.00	Medium

Total rows: 5 Query complete 00:00:00.301

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lab4/postgres@PostgreSQL 17*

Query

```
--9 Task
SELECT
  country,
  COUNT(*) AS airline_count
FROM airlines
GROUP BY country
ORDER BY airline_count DESC;
```

Query History

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 4 Page No: 1 of 1

	country character varying (50)	airline_count bigint
1	Kazakhstan	2
2	UAE	1
3	Turkey	1
4	Germany	1

Total rows: 4 Query complete 00:00:00.233

Активация Windows
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Successfully run. Total query runtime: 233 msec. 4 rows affected.

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lab4/postgres@PostgreSQL 17

Query

```
--10 task
SELECT
  flight_no,
  scheduled_arrival,
  actual_arrival,
  (EXTRACT(EPOCH FROM (actual_arrival - scheduled_arrival)) / 60)::INT AS delay_min
FROM flights
WHERE actual_arrival > scheduled_arrival
ORDER BY delay_minutes DESC;
```

Data Output

	flight_no character varying (20)	scheduled_arrival timestamp without time zone	actual_arrival timestamp without time zone	delay_minutes integer
1	LH505	2025-10-07 08:00:00	2025-10-07 08:45:00	45
2	QZ202	2025-10-07 09:00:00	2025-10-07 09:30:00	30
3	KC101	2025-10-07 14:00:00	2025-10-07 14:10:00	10

Total rows: 3 Query complete 00:00:00.135

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12°C Partly cloudy 1805 07.10.2025