

Database Explorer

postgres@localhost

first\_name varchar(50)

last\_name varchar(50)

date\_of\_birth date

gender varchar(50)

country\_of\_citizenship varchar(50)

country\_of\_residence varchar(50)

passport\_number varchar(20)

Services

Database

airport 439 ms

flights 441 ms

airline 10 s

console 413 ms

passengers 666 ms

console

passengers

airport

flights

airline

postgres@localhost

SELECT first\_name,

date\_of\_birth,

CASE

WHEN AGE(date\_of\_birth) BETWEEN INTERVAL '18 years' AND INTERVAL '35 years' THEN 'Young'

WHEN AGE(date\_of\_birth) BETWEEN INTERVAL '36 years' AND INTERVAL '55 years' THEN 'Adult'

ELSE 'Other'

END AS age\_group

FROM passengers;

Output

Result 33

first\_name

date\_of\_birth

age\_group

1 Ivan 1990-01-01 Other

2 Anna 1992-02-02 Young

3 John 1988-03-03 Adult

4 Maria 1995-04-04 Young

5 Chen 1991-05-05 Young

6 Olga 1993-06-06 Young

7 James 1987-07-07 Adult

8 Sakura 1994-08-08 Young

9 Ali 1996-09-09 Young

10 Laura 1990-10-10 Young

11 Alex 1995-01-01 Young

12 Alex 1990-10-12 Young

12 rows

Database Consoles

postgres@localhost

console

8:17 CRLF UTF-8 4 spaces

23:08 07.10.2025

Database Explorer

postgres@localhost

airport

baggage

baggage\_check

boarding\_pass

booking

columns 8

booking\_id integer

flight\_id integer

passenger\_id integer

booking\_platform varchar(50)

created\_at timestamp

console x booking

Tx: Auto Playground

postgres.public

1 ✓

2

3

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13

SELECT booking\_id,

flight\_id,

passenger\_id,

ticket\_price,

CASE

WHEN ticket\_price <= 12000 THEN 'Cheap'

WHEN ticket\_price BETWEEN 12000 AND 13000 THEN 'Medium'

WHEN ticket\_price > 13000 THEN 'Expensive'

END AS price\_category

FROM booking;

Services

Tx

Database

postgres@localhost

booking 598 ms

console 414 ms

Output Result 35

CSV

Download

Copy

Refresh

Search

Fullscreen

Settings

	booking_id	flight_id	passenger_id	ticket_price	price_category
1	2	2	2	13800.00	Expensive
2	3	3	3	10925.00	Cheap
3	4	4	4	17250.00	Expensive
4	6	6	6	12650.00	Medium
5	7	7	7	14950.00	Expensive
6	9	9	9	23000.00	Expensive
7	10	10	10	11270.00	Cheap

7 rows

Database Consoles

postgres@localhost

console

6:35 CRLF UTF-8 4 spaces

23:14 07.10.2025

Lab2

Version control

Database Explorer

postgres@localhost 1 of 3

postgres 1 of 3

public

tables 10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

console

airline

postgres.public

SELECT UPPER(airline\_name) AS airline\_name\_uppercase FROM airline;

Services

Database

postgres@localhost

airline 10 s

console 469 ms

Output

airline\_name\_uppercase:text

airline\_name\_uppercase

1 KAZAIR

2 AIREASY

3 FLYHIGH

4 FLYFLY

4 rows

Database Consoles > postgres@localhost > console

21:57 07.10.2025

Lab2Version control

Database Explorer

postgres@localhost

- booking
- booking\_flight
- flights
- passengers
  - columns 10
    - passenger\_id integer
    - first\_name varchar(50)
    - last\_name varchar(50)
    - date\_of\_birth date
    - gender varchar(50)
    - country\_of\_citizenship varchar

consoleairportflightsairline

1SELECT flight\_id

2FROM flights

3WHERE act\_arrival\_time > sch\_arrival\_time;

4

postgres.public

Services

Database

- postgres@localhost
  - airport 439 ms
  - flights 441 ms
  - airline 10 s
  - console 412 ms

Outputpostgres.public.flights

- flight\_id
- 16
- 27
- 38
- 49
- 510
- 611
- 71001
- 81002

8 rows

Database Consoles > postgres@localhost > console

4:1CRLFUTF-84 spaces23:0407.10.2025



The screenshot displays a PostgreSQL client application with a dark theme. The main window shows a table named 'airline' with 14 rows. The table columns are: airline\_id, airline\_code, airline\_name, airline\_country, created\_at, and updated\_at. The data is sorted by airline\_id in ascending order. The interface includes a top toolbar with icons for file operations, a sidebar with 'console' and 'airline' tabs, and a bottom status bar showing the database path and a SUM function error.

	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	1	KZ001	KazAir	Turkey	2025-09-30 17:48:36.754084	2025-09-30 17:48:36.754084
2	2	FR001	AirEasy	France	2025-09-30 18:05:56.417510	2025-09-30 18:05:56.417510
3	3	BR001	FlyHigh	Brazil	2025-09-30 18:05:56.417510	2025-09-30 18:05:56.417510
4	4	PL001	FlyFly	Poland	2025-09-30 18:05:56.417510	2025-09-30 18:05:56.417510
5	11	A001	Airline A	USA	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
6	12	A002	Airline B	USA	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
7	13	B001	Airline C	UK	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
8	14	B002	Airline D	UK	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
9	5	C001	Airline E	Canada	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
10	6	C002	Airline F	Canada	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
11	7	D001	Airline G	Australia	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
12	8	D002	Airline H	Australia	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
13	9	E001	Airline I	India	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359
14	10	E002	Airline J	India	2025-10-07 18:22:17.256359	2025-10-07 18:22:17.256359

Database > postgres@localhost > postgres > public > tables > airline

SUM: Not enough values

Lab2

Version control

Database Explorer

postgres@localhost 1 of 3

postgres 1 of 3

public

tables 10

airline

airport

columns 7

airport\_id integer

airport\_name varchar(50)

country varchar(50)

state varchar(50)

city varchar(50)

created\_at timestamp

updated\_at timestamp

keys 1

indexes 1

console

airport

flights

airline

SELECT airport\_name

FROM airport

WHERE airport\_name LIKE '%Regional%' AND airport\_name LIKE '%Air%';

Services

Database

postgres@localhost

airport 439 ms

flights 441 ms

airline 10 s

console 395 ms

Output postgres.public.airport

airport\_name

1 Regional Air Airport

2 Air Regional Airport

2 rows

Database Consoles

postgres@localhost

console

4:1 CRLF UTF-8 4 spaces

22:59 07.10.2025

Lab2Version control

Database Explorer

postgres@localhost

- booking
- booking\_flight
- flights
- passengers
  - columns 10
    - passenger\_id integer
    - first\_name varchar(50)

consoleairportflightsairline

postgres@localhost1SELECT first\_name, TO\_CHAR(date\_of\_birth, 'FMMonth DD, YYYY') AS formatted\_birth\_date FROM passengers;2

Services

Database

- postgres@localhost
  - airport 439 ms
  - flights 441 ms
  - airline 10 s
  - console 798 ms

OutputResult 31

	first_name	formatted_birth_date
1	Ivan	January 01, 1990
2	Anna	February 02, 1992
3	John	March 03, 1988
4	Maria	April 04, 1995
5	Chen	May 05, 1991
6	Olga	June 06, 1993
7	James	July 07, 1987
8	Sakura	August 08, 1994
9	Ali	September 09, 1996
10	Laura	October 10, 1990
11	Alex	January 01, 1995
12	Alex	October 12, 1990

Database Consoles > postgres@localhost > console2:1CRLFUTF-84 spaces23:0207.10.2025

Поиск

ENG 23:02 07.10.2025

Database Explorer

postgres@localhost

- airport
- baggage
- baggage\_check
- boarding\_pass
- booking
- booking\_flight
- flights
- passengers
- security\_check

Services

- Database
  - postgres@localhost
    - console 416 ms
    - flights 883 ms

console × flights

Tx: Auto Playground

postgres.public

1 ✓  
2  
3  
4

```
SELECT flight_id, sch_arrival_time, act_arrival_time
FROM flights
WHERE act_arrival_time > sch_arrival_time;
```

Output postgres.public.flights ×

flight\_id sch\_arrival\_time act\_arrival\_time

1	6	2025-01-01 12:00:00.000000	2025-01-01 12:05:00.000000
2	7	2025-02-01 13:00:00.000000	2025-02-01 13:05:00.000000
3	8	2025-03-01 14:00:00.000000	2025-03-01 14:05:00.000000
4	9	2025-04-01 15:00:00.000000	2025-04-01 15:05:00.000000
5	10	2025-05-01 16:00:00.000000	2025-05-01 16:05:00.000000
6	11	2025-10-01 01:32:28.901466	2025-10-01 01:42:28.901466
7	1001	2025-10-10 12:00:00.000000	2025-10-10 12:05:00.000000
8	1002	2025-10-10 12:30:00.000000	2025-10-10 12:35:00.000000

8 rows

Database Consoles > postgres@localhost > console

23:26 07.10.2025



Lab2Version control

postgres.public

consoleairline

Tx: AutoPlayground

postgres.public

1

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12

INSERT INTO airline (airline\_id, airline\_code, airline\_name, airline\_country, created\_at, updated\_at)

VALUES

(airline\_id 11, airline\_code 'A001', airline\_name 'Airline A', airline\_country 'USA', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 12, airline\_code 'A002', airline\_name 'Airline B', airline\_country 'USA', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 13, airline\_code 'B001', airline\_name 'Airline C', airline\_country 'UK', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 14, airline\_code 'B002', airline\_name 'Airline D', airline\_country 'UK', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 5, airline\_code 'C001', airline\_name 'Airline E', airline\_country 'Canada', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 6, airline\_code 'C002', airline\_name 'Airline F', airline\_country 'Canada', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 7, airline\_code 'D001', airline\_name 'Airline G', airline\_country 'Australia', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 8, airline\_code 'D002', airline\_name 'Airline H', airline\_country 'Australia', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 9, airline\_code 'E001', airline\_name 'Airline I', airline\_country 'India', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP),

( airline\_id 10, airline\_code 'E002', airline\_name 'Airline J', airline\_country 'India', created\_at CURRENT\_TIMESTAMP, updated\_at CURRENT\_TIMESTAMP);

Services

Tx

Database

postgres@localhost

airline 582 ms

console 60 ms

Output

Result 36

VALUES

(11, 'A001', 'Airline A', 'USA', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(12, 'A002', 'Airline B', 'USA', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(13, 'B001', 'Airline C', 'UK', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(14, 'B002', 'Airline D', 'UK', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(5, 'C001', 'Airline E', 'Canada', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(6, 'C002', 'Airline F', 'Canada', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(7, 'D001', 'Airline G', 'Australia', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(8, 'D002', 'Airline H', 'Australia', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(9, 'E001', 'Airline I', 'India', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(10, 'E002', 'Airline J', 'India', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP)

[2025-10-07 23:22:17] 10 rows affected in 43 ms

Database Consoles > postgres@localhost > console

2:7CRLFUTF-84 spaces

23:2207.10.2025

Database Explorer

postgres@localhost

- tables 10
  - airline
    - columns 6
      - airline\_id integer
      - airline\_code varchar(30)
      - airline\_name varchar(50)
      - airline\_country varchar(50)
      - created\_at timestamp
      - updated\_at timestamp
    - keys 1

console × airline

postgres.public

SELECT airline\_country, COUNT(DISTINCT airline\_name) AS airline\_count

FROM airline

GROUP BY airline\_country;

Services

Database

- postgres@localhost
  - airline 389 ms
  - console 418 ms

Output Result 39 ×

airline\_country airline\_count

1	Australia	2
2	Brazil	1
3	Canada	2
4	France	1
5	India	2
6	Poland	1
7	Turkey	1
8	UK	2
9	USA	

Database Consoles > postgres@localhost > console

4:1 CRLF UTF-8 4 spaces

23:24 07.10.2025

Lab2

Version control

Database Explorer

postgres@localhost 1 of 3

postgres 1 of 3

public

tables 10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

console

airline

postgres.public

SELECT UPPER(airline\_name) AS airline\_name\_uppercase FROM airline;

Services

Database

postgres@localhost

airline 10 s

console 469 ms

Output

airline\_name\_uppercase:text

airline\_name\_uppercase

1 KAZAIR

2 AIREASY

3 FLYHIGH

4 FLYFLY

4 rows

Database Consoles > postgres@localhost > console

1:55 CRLF UTF-8 4 spaces

Поиск

21:57 07.10.2025

Lab2Version control

Database Explorer

postgres@localhost

- baggage\_check
- boarding\_pass
- booking
- booking\_flight
- flights
  - columns 12
    - flight\_id integer
    - sch\_departure\_time timestamp
    - sch\_arrival\_time timestamp
    - departing\_airport\_id integer
    - arriving\_airport\_id integer
    - departing\_gate text
    - arriving\_gate varchar(50)
    - airline\_id integer
    - act\_departure\_time timestamp

consoleflightsairline

1SELECT DISTINCT f.flight\_id

2FROM flights f

3JOIN flights f1 ON f.departing\_airport\_id = f1.arriving\_airport\_id

4AND f.arriving\_airport\_id = f1.departing\_airport\_id

postgres.public

Services

Database

- postgres@localhost
  - flights 441 ms
  - airline 10 s
  - console 429 ms

Outputpostgres.public.flights

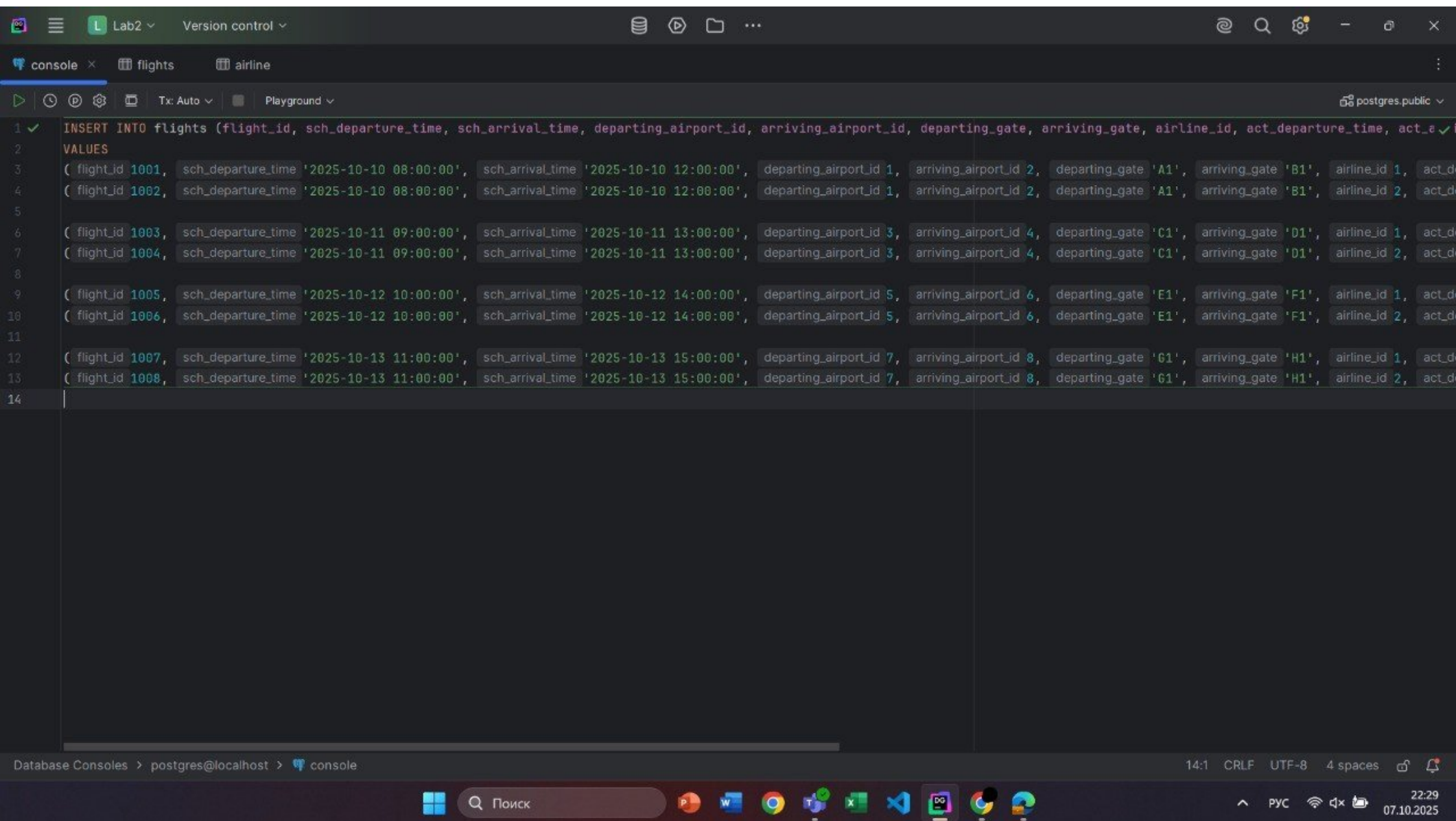
- flight\_id
- 11001
- 21002

2 rows

Database Consolespostgres@localhostconsole

4:52CRLFUTF-84 spaces22:4807.10.2025





Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consoleairline

Tx: AutoPlayground

postgres.public

1✓SELECT REPLACE(airline\_name, 'Air', 'Aero') as updated\_airline\_name FROM airline

Services

Tx

Database

postgres@localhost

airline10 s

console462 ms

Outputupdated\_airline\_name:text

updated\_airline\_name

1KazAero

2AeroEasy

3FlyHigh

4FlyFly

4 rows

Database Consoles > postgres@localhost > console

1:81CRLFUTF-84 spaces

21:5907.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consoleairline

Tx: AutoPlayground

postgres.public

1✓SELECT REPLACE(airline\_name, 'Air', 'Aero') as updated\_airline\_name FROM airline

Services

Tx

Database

postgres@localhost

airline10 s

console462 ms

Outputupdated\_airline\_name:text

updated\_airline\_name

1KazAero

2AeroEasy

3FlyHigh

4FlyFly

4 rows

Database Consoles > postgres@localhost > console1:81CRLFUTF-84 spaces21:5907.10.2025

Lab2Version control

consoleairportflightsairline

Tx: AutoPlaygroundpostgres.public

```
1 INSERT INTO airport (airport_id, airport_name, country, state, city, created_at, updated_at)
2 VALUES
3 (airport_id 202, airport_name 'Regional Air Airport', country 'USA', state 'California', city 'Los Angeles', created_at CURRENT_TIMESTAMP, updated_at CURRENT_TIMESTAMP),
4 (airport_id 203, airport_name 'Air Regional Airport', country 'USA', state 'Texas', city 'Houston', created_at CURRENT_TIMESTAMP, updated_at CURRENT_TIMESTAMP);
```

Services

Tx+🔍📄↕✕

Database

- postgres@localhost
  - airport 616 ms
  - flights 441 ms
  - airline 10 s
  - console 30 ms

Outputpostgres.public.airport✕

📄🔍🔄🕒⏏+−↶↷🔍DDL🔍🔍🔍

Tx: AutoDDL🔍🔍🔍🔍

airport\_name🔍:

0 rows⌵⋮

Database Consoles > postgres@localhost > console4:10CRLFUTF-84 spaces🔗🔔22:5507.10.2025

🪟🔍Поиск

📄📄📄📄📄📄📄📄📄📄

⬆️📶🔊🔌🔌22:5507.10.2025



