

The screenshot shows a DataGrip IDE interface with the following components:

- Database Explorer** (left sidebar): Shows the database structure. Under the `postgres@localhost` connection, there is a `lab2` schema containing three tables: `airline_info`, `airport`, and `passengers`.
- console** (central panel): Displays the SQL DDL statements used to create the tables. The statements are:

```
CREATE TABLE airline_info (
    airline_id      INT PRIMARY KEY,
    airline_code    VARCHAR(30) NOT NULL,
    airline_name    VARCHAR(50) NOT NULL,
    airline_country VARCHAR(50) NOT NULL,
    created_at      TIMESTAMP NOT NULL,
    updated_at      TIMESTAMP NOT NULL,
    info            VARCHAR(50) NOT NULL
);

CREATE TABLE airport (
    airport_id     INT PRIMARY KEY,
    airport_name   VARCHAR(50) NOT NULL,
    country        VARCHAR(50) NOT NULL,
    state          VARCHAR(50) NOT NULL,
    city           VARCHAR(50) NOT NULL,
    created_at     TIMESTAMP NOT NULL,
    updated_at     TIMESTAMP NOT NULL
);

CREATE TABLE passengers (
    passenger_id   INT PRIMARY KEY,
    first_name     VARCHAR(50) NOT NULL,
    last_name      VARCHAR(50) NOT NULL,
    date_of_birth  DATE      NOT NULL,
    gender         VARCHAR(50) NOT NULL,
    country_of_citizenship VARCHAR(50) NOT NULL,
    country_of_residence  VARCHAR(50) NOT NULL,
    passport_number VARCHAR(20) NOT NULL,
    created_at     TIMESTAMP NOT NULL,
    updated_at     TIMESTAMP NOT NULL
);
```
- Files** (right sidebar): Shows the project structure under `Lab 2 DB`, including `Scratches and Consoles`.

## Services

+ ⌂ ⌂ ⌂

country\_of\_residence VARCHAR(50) NOT NULL,

34:1 LF UTF-8 4 spaces ⌂ ⌂

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 6

- airline\_info
- airport
- booking
- flights
- passengers
- security\_check

public

Database Objects

Server Objects

console

Tx: Auto Playground postgres.lab2

```
CREATE TABLE security_check (
    security_check_id INT PRIMARY KEY,
    check_result VARCHAR(20) NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL,
    passenger_id INT NOT NULL
);

CREATE TABLE flights (
    flight_id INT PRIMARY KEY,
    sch_departure_time TIMESTAMP NOT NULL,
    sch_arrival_time TIMESTAMP NOT NULL,
    departing_airport_id INT NOT NULL,
    arriving_airport_id INT NOT NULL,
    departing_gate VARCHAR(50) NOT NULL,
    arriving_gate VARCHAR(50) NOT NULL,
    airline_id INT NOT NULL,
    act_departure_time TIMESTAMP NOT NULL,
    act_arrival_time TIMESTAMP NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL
);

CREATE TABLE booking (
    booking_id INT PRIMARY KEY,
    flight_id INT NOT NULL,
    passenger_id INT NOT NULL,
    booking_platform VARCHAR(50) NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL,
    status VARCHAR(50) NOT NULL,
    price DECIMAL(7,2) NOT NULL
);
```

Files

Scratches and Consoles

## Services

+

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

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

public

Database Objects

Server Objects

console

Tx: Auto Playground postgres.lab2

```
CREATE TABLE baggage (
    baggage_id INT PRIMARY KEY,
    weight_in_kg DECIMAL(4,2) NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL,
    booking_id INT NOT NULL
);

CREATE TABLE boarding_pass (
    boarding_pass_id INT PRIMARY KEY,
    booking_id INT NOT NULL,
    seat VARCHAR(50) NOT NULL,
    boarding_time TIMESTAMP NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL
);

CREATE TABLE booking_flight (
    booking_flight_id INT PRIMARY KEY,
    booking_id INT NOT NULL,
    flight_id INT NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL
);

CREATE TABLE baggage_check (
    baggage_check_id INT PRIMARY KEY,
    check_result VARCHAR(50) NOT NULL,
    created_at TIMESTAMP NOT NULL,
    updated_at TIMESTAMP NOT NULL,
    booking_id INT NOT NULL,
    passenger_id INT NOT NULL
);
```

Files

Lab 2 DB ~/DataGripProjects/Lab 2 DB

Scratches and Consoles

Services

+ ⌂ ⌂ ⌂

country\_of\_residence VARCHAR(50) NOT NULL,

33:3 LF UTF-8 4 spaces ⌂ ⌂

Database Consoles > postgres@localhost > console

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

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

public

Database Objects

Server Objects

console

Tx: Auto

Playground

postgres.lab2

1 ✓ ALTER TABLE airline\_info RENAME TO airline;

2

3 ✓ ALTER TABLE booking RENAME COLUMN price TO ticket\_price;

4

5 ✓ ALTER TABLE flights ALTER COLUMN departing\_gate TYPE TEXT;

6

7 ✓ ALTER TABLE airline DROP COLUMN info;

8

Files

Lab 2 DB ~/DataGripProjects/Lab 2 DB

Scratches and Consoles

Services

Database

postgres@localhost

console 8 ms

passenger\_id INT NOT NULL

)

[2025-09-24 00:08:11] completed in 3 ms

[2025-09-24 00:11:49] postgres.lab2> SET search\_path = lab2

[2025-09-24 00:11:49] completed in 2 ms

[2025-09-24 00:15:41] postgres.lab2> ALTER TABLE airline\_info RENAME TO airline

[2025-09-24 00:15:41] completed in 4 ms

[2025-09-24 00:15:41] postgres.lab2> ALTER TABLE booking RENAME COLUMN price TO ticket\_price

[2025-09-24 00:15:41] completed in 1 ms

[2025-09-24 00:15:41] postgres.lab2> ALTER TABLE flights ALTER COLUMN departing\_gate TYPE TEXT

[2025-09-24 00:15:41] completed in 4 ms

[2025-09-24 00:15:41] postgres.lab2> ALTER TABLE airline DROP COLUMN info

[2025-09-24 00:15:41] completed in 2 ms

Database Consoles > postgres@localhost > console

8:1 LF UTF-8 4 spaces

The screenshot shows the DataGrip IDE interface with the following components:

- Top Bar:** Includes tabs for "Lab 2 DB" and "Version control", along with standard window controls.
- Database Explorer:** On the left, it shows the database structure:
  - Postgres@localhost (1 of 5)
  - Postgres (2 of 4)
  - Lab2
    - Tables (10)
      - Airline
      - Airport
      - Baggage
      - Baggage\_check
      - Boarding\_pass
      - Booking
      - Booking\_flight
      - Flights
      - Passengers
      - Security\_check
  - Public
  - Database Objects
  - Server Objects
- Console Tab:** Active tab, titled "console". It contains a list of DDL statements for creating foreign keys across several tables:

  - Passengers with Security\_check, Booking, Baggage\_check by passenger\_id;
  - ALTER TABLE security\_check ADD CONSTRAINT fk\_security\_check\_passenger FOREIGN KEY (passenger\_id) REFERENCES passengers(passenger\_id);
  - ALTER TABLE booking ADD CONSTRAINT fk\_booking\_passenger FOREIGN KEY (passenger\_id) REFERENCES passengers(passenger\_id);
  - ALTER TABLE baggage\_check ADD CONSTRAINT fk\_baggage\_check\_passenger FOREIGN KEY (passenger\_id) REFERENCES passengers(passenger\_id);
  - Booking with Baggage\_check, Baggage, Boarding\_pass, Booking\_flight by booking\_id;
  - ALTER TABLE baggage\_check ADD CONSTRAINT fk\_baggage\_check\_booking FOREIGN KEY (booking\_id) REFERENCES booking(booking\_id);
  - ALTER TABLE baggage ADD CONSTRAINT fk\_baggage\_booking FOREIGN KEY (booking\_id) REFERENCES booking(booking\_id);
  - ALTER TABLE boarding\_pass ADD CONSTRAINT fk\_boarding\_pass\_booking FOREIGN KEY (booking\_id) REFERENCES booking(booking\_id);
  - ALTER TABLE booking\_flight ADD CONSTRAINT fk\_booking\_flight\_booking FOREIGN KEY (booking\_id) REFERENCES booking(booking\_id);

- Files Tab:** Shows the project structure under "Lab 2 DB".
- Services Tab:** Shows the status of various services.
- Bottom Status Bar:** Displays the date and time (2025-09-24 00:36:51), completion time (completed in 2 ms), and file encoding (UTF-8).

The screenshot shows the DataGrip IDE interface with the following components:

- Database Explorer** (Left): Shows the database schema structure for the `postgres` database on `localhost`. It includes tables like `booking`, `flight`, `passenger`, and `airline`, along with their respective columns, keys, and indexes.
- console** (Center): A SQL editor pane showing the execution of several `ALTER TABLE` statements to add foreign key constraints. The constraints relate `Booking` to `Flight`, `Flight` to `Airport`, and `Flight` to `Airline`. The last statement is currently being executed, indicated by a progress bar.
- Files** (Right): A file browser pane showing the project structure under `Lab 2 DB`, including `Scratches and Consoles`.

```
-- Flights → Booking_flight
ALTER TABLE booking_flight
ADD CONSTRAINT fk_booking_flight_flight
FOREIGN KEY (flight_id) REFERENCES flights(flight_id);

ALTER TABLE booking
ADD CONSTRAINT fk_booking_flight
FOREIGN KEY (flight_id) REFERENCES flights(flight_id);

-- Airport → Flights (departing & arriving)
ALTER TABLE flights
ADD CONSTRAINT fk_flights_departing_airport
FOREIGN KEY (departing_airport_id) REFERENCES airport(airport_id);

ALTER TABLE flights
ADD CONSTRAINT fk_flights_arriving_airport
FOREIGN KEY (arriving_airport_id) REFERENCES airport(airport_id);

-- Airline → Flights
ALTER TABLE flights
ADD CONSTRAINT fk_flights_airline
FOREIGN KEY (airline_id) REFERENCES airline(airline_id);
```

**Services** (Bottom Left): Shows connection status and a toolbar with icons for creating new connections, opening files, and navigating.

**Bottom Status Bar**: [2025-09-24 00:36:51] completed in 2 ms | 22:59 LF UTF-8 4 spaces | Database > postgres@localhost > postgres > lab2 > tables > airline

## Database Explorer

+	File
↻	Refresh
✖	Close
▶	Run
DDL	DDL
↶	Cancel
🕒	Time
...	More

postgres@localhost 1 of 5

postgres 2 of 4

lab2

- tables 10
  - airline
  - airport
  - baggage
  - baggage\_check
  - boarding\_pass
  - booking
  - booking\_flight
  - flights
  - passengers
  - security\_check
- public
- Database Objects
- Server Objects

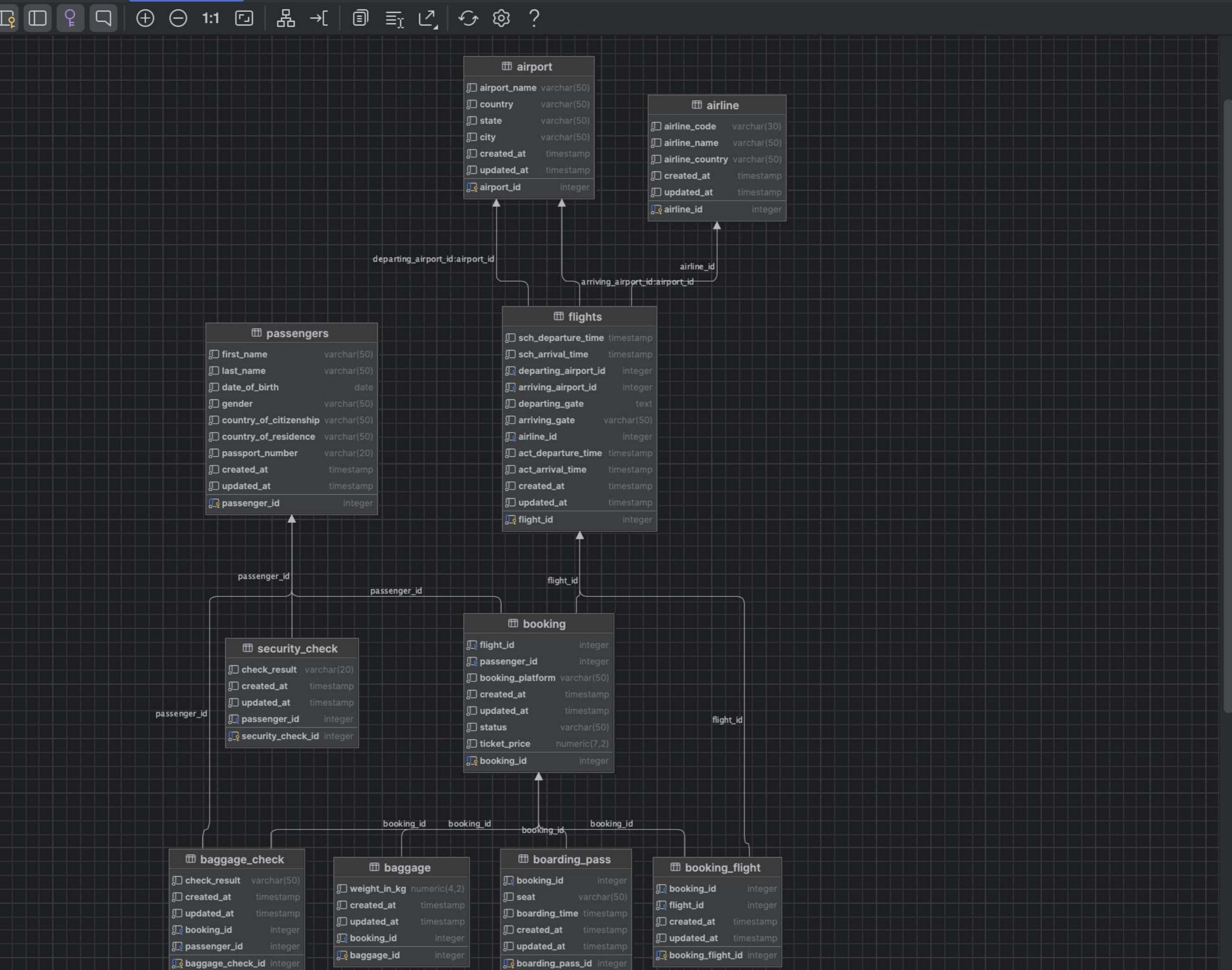
## console

## lab2



## Files

Lab 2 DB	...
Scratches and	...



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Lab 2 DB Version control

Database Explorer

console lab2

postres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

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

> public

> Database Objects

> Server Objects

-- 1) airline

```
1 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
2 SELECT airline_id gs,
3     airline_code 'AL' || gs::text,
4     airline_name 'Airline_' || gs::text,
5     airline_country 'Country_' || ((gs % 10) + 1)::text,
6     created_at now(), updated_at now()
7 FROM generate_series(1,200) AS gs
8 ON CONFLICT (airline_id) DO NOTHING;
```

-- 2) airport

```
11 INSERT INTO airport (airport_id, airport_name, country, state, city, created_at, updated_at)
12 SELECT airport_id gs,
13     airport_name 'Airport_' || gs::text,
14     country 'Country_' || ((gs % 10) + 1)::text,
15     state 'State_' || ((gs % 5) + 1)::text,
16     city 'City_' || ((gs % 20) + 1)::text,
17     created_at now(), updated_at now()
18 FROM generate_series(1,200) AS gs
19 ON CONFLICT (airport_id) DO NOTHING;
```

-- 3) passengers

```
22 INSERT INTO passengers (passenger_id, first_name, last_name, date_of_birth, gender,
23     country_of_citizenship, country_of_residence, passport_number, created_at, updated_at)
24 SELECT passenger_id gs,
25     first_name 'Name_' || gs::text,
26     last_name 'Surname_' || gs::text,
27     date_of_birth date '1980-01-01' + (gs::text || ' days')::interval,
28     CASE WHEN gs % 2 = 0 THEN 'male' ELSE 'female' END,
29     country_of_citizenship 'Country_' || ((gs % 10) + 1)::text,
30     country_of_residence 'Country_' || ((gs % 10) + 1)::text,
31     passport_number 'P' || gs::text,
32     created_at now(), updated_at now()
33 FROM generate_series(1,200) AS gs
34 ON CONFLICT (passenger_id) DO NOTHING;
```

Files

Lab 2 DB

Scratches

postres.lab2

## Database Explorer

- + Database
- postgres@localhost 1 of 5
  - postgres 2 of 4
    - lab2
      - tables 10
        - airline
        - airport
        - baggage
        - baggage\_check
        - boarding\_pass
        - booking
        - booking\_flight
        - flights
        - passengers
        - security\_check
      - public
      - Database Objects
      - Server Objects

## console x lab2

```
36
37 -- 4) flights
38 ✓ INSERT INTO flights (flight_id, sch_departure_time, sch_arrival_time,
39                     departing_airport_id, arriving_airport_id,
40                     departing_gate, arriving_gate, airline_id,
41                     act_departure_time, act_arrival_time, created_at, updated_at)
42     SELECT flight_id gs,
43             sch_departure_time now() + (gs::text || ' hours')::interval,
44             sch_arrival_time now() + (gs::text || ' hours')::interval + interval '2 hours',
45             ((gs % 200) + 1),
46             ((gs % 200) + 1),
47             departing_gate 'DG_' || gs::text,
48             arriving_gate 'AG_' || gs::text,
49             ((gs % 200) + 1),
50             act_departure_time now() + (gs::text || ' hours')::interval,
51             act_arrival_time now() + (gs::text || ' hours')::interval + interval '2 hours',
52             created_at now(), updated_at now()
53     FROM generate_series(1,200) AS gs
54     ON CONFLICT (flight_id) DO NOTHING;
55
56 -- 5) booking (поле уже переименовано на ticket_price)
57 ✓ INSERT INTO booking (booking_id, flight_id, passenger_id, booking_platform,
58                         created_at, updated_at, status, ticket_price)
59     SELECT booking_id gs,
60             ((gs % 200) + 1),
61             ((gs % 200) + 1),
62             booking_platform 'platform_' || ((gs % 3) + 1)::text,
63             created_at now(), updated_at now(),
64             status 'status_' || ((gs % 3) + 1)::text,
65             (10000 + gs)::numeric(7,2)
66     FROM generate_series(1,200) AS gs
67     ON CONFLICT (booking_id) DO NOTHING;
68
69 -- 6) booking_flight
70 ✓ INSERT INTO booking_flight (booking_flight_id, booking_id, flight_id, created_at, updated_at)
```

## Files

- Lab 2 DB
  - Scratches

LD Lab 2 DB Version control

Database Explorer

console lab2

postres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

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

public

Database Objects

Server Objects

Tx: Auto

Playground

postres.lab2

Scrapes

```
68
69 -- 6) booking_flight
70 ✓ INSERT INTO booking_flight (booking_flight_id, booking_id, flight_id, created_at, updated_at)
71 SELECT booking_flight_id gs, booking_id gs, ((gs % 200) + 1), created_at now(), updated_at now()
72 FROM generate_series(1,200) AS gs
73 ON CONFLICT (booking_flight_id) DO NOTHING;
74
75 -- 7) baggage
76 ✓ INSERT INTO baggage (baggage_id, weight_in_kg, created_at, updated_at, booking_id)
77 SELECT baggage_id gs,
78 (10 + (gs % 20))::numeric(4,2),
79 created_at now(), updated_at now(),
80 booking_id gs
81 FROM generate_series(1,200) AS gs
82 ON CONFLICT (baggage_id) DO NOTHING;
83
84 -- 8) baggage_check
85 ✓ INSERT INTO baggage_check (baggage_check_id, check_result, created_at, updated_at, booking_id, passenger_id)
86 SELECT baggage_check_id gs, check_result 'OK', created_at now(), updated_at now(), booking_id gs, passenger_id gs
87 FROM generate_series(1,200) AS gs
88 ON CONFLICT (baggage_check_id) DO NOTHING;
89
90 -- 9) boarding_pass
91 ✓ INSERT INTO boarding_pass (boarding_pass_id, booking_id, seat, boarding_time, created_at, updated_at)
92 SELECT boarding_pass_id gs, booking_id gs, seat 'Seat_' || gs::text, boarding_time now(), created_at now(), updated_at now()
93 FROM generate_series(1,200) AS gs
94 ON CONFLICT (boarding_pass_id) DO NOTHING;
95
96 -- 10) security_check
97 ✓ INSERT INTO security_check (security_check_id, check_result, created_at, updated_at, passenger_id)
98 SELECT security_check_id gs, check_result 'OK', created_at now(), updated_at now(), passenger_id gs
99 FROM generate_series(1,200) AS gs
100 ON CONFLICT (security_check_id) DO NOTHING;
```

The screenshot shows a PostgreSQL database interface with the following details:

**Database Explorer** (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected database: `lab2`
- Tables under `lab2`:
  - `airline`: 6 columns, 1 key, 1 index
  - `airport`
  - `baggage`
  - `baggage_check`
  - `boarding_pass`
  - `booking`
  - `booking_flight`

**Console Tab (Top Right):**

- Tab title: `console` (highlighted)
- Tab content: `lab2`
- Query history:
  - 1 ✓ `SELECT COUNT(*) FROM airport;`
  - 2 ✓ `SELECT COUNT(*) FROM airline;`
  - 3 ✓ `SELECT COUNT(*) FROM passengers;`
  - 4 ✓ `SELECT COUNT(*) FROM flights;`
  - 5 ✓ `SELECT COUNT(*) FROM booking;`
- Toolbar icons: play, stop, refresh, settings, Tx: Auto, Playground.
- File dropdown: `postgres.lab2`

**Services Tab (Bottom Left):**

- Connected to `postgres@localhost`
- Console tab active: `console` (337 ms)
- Output tab active: `COUNT(*):bigint`
- Output table:

	count
1	200
- Toolbar icons: Tx, +, ⏪, ⏴, ⏵, ⏹, ⏷, Database, CSV, CSV, ⏵, ⏴, ⏹, ⏷.

**File Explorer (Right Side):**

- Lab 2 DB folder:
  - Scratches



Lab 2 DB Version control

Database Explorer

console lab2

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

columns 6

keys 1

indexes 1

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

File

postres.lab2

Lab 2 DB

Scratches

```
1 ✓ UPDATE airline
2   SET airline_country='Turkey', updated_at=now()
3   WHERE airline_name='KazAir';
4
5 -- Проверка
6 ✓ SELECT * FROM airline WHERE airline_name='KazAir';
```

## Services

Tx + ⌂ ⌂ X

Database

postgres@localhost

console 339 ms

Output Проверка

airline\_id airline\_code airline\_name airline\_country created\_at updated\_at

	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	201	KZ	KazAir	Turkey	2025-09-23 20:54:26.378997	2025-09-23 20:54:26.378997

1 row :

Lab 2 DB Version control

Database Explorer

console lab2

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

columns 6

keys 1

indexes 1

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

Tx: Auto Playground

postres.lab2

Files

Lab 2 DB

Scratches

```
1 ✓ INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
VALUES
(airline_id 202, airline_code 'AE', airline_name 'AirEasy', airline_country 'France', created_at now(), updated_at now()),
(airline_id 203, airline_code 'FH', airline_name 'FlyHigh', airline_country 'Brazil', created_at now(), updated_at now()),
(airline_id 204, airline_code 'FF', airline_name 'FlyFly', airline_country 'Poland', created_at now(), updated_at now());
-- Проверка
8 ✓ SELECT airline_id, airline_code, airline_name, airline_country
FROM airline
WHERE airline_id BETWEEN 202 AND 204;
```

Services

Tx + ⌂ ⌂ ×

Database

postgres@localhost

console 353 ms

Output Проверка

airline\_id airline\_code airline\_name airline\_country

airline_id	airline_code	airline_name	airline_country
1	202	AirEasy	France
2	203	FlyHigh	Brazil
3	204	FlyFly	Poland

3 rows

Lab 2 DB Version control

Database Explorer

console lab2

```
-- До удаления
SELECT flight_id, sch_arrival_time, act_arrival_time
FROM flights
WHERE (sch_arrival_time BETWEEN '2024-01-01' AND '2024-12-31')
    OR (act_arrival_time BETWEEN '2024-01-01' AND '2024-12-31');

-- Удаление
DELETE FROM flights
WHERE (sch_arrival_time BETWEEN '2024-01-01' AND '2024-12-31')
    OR (act_arrival_time BETWEEN '2024-01-01' AND '2024-12-31');

-- После удаления
SELECT flight_id, sch_arrival_time, act_arrival_time FROM flights LIMIT 10;
```

Files

Lab 2 DB Scratches

Services

Tx

Database

postgres@localhost

console 337 ms

Output

До удаления

После удаления

	flight_id	sch_arrival_time	act_arrival_time
1	1	2025-09-23 23:46:32.067402	2025-09-23 23:46:32.067402
2	2	2025-09-24 00:46:32.067402	2025-09-24 00:46:32.067402
3	3	2025-09-24 01:46:32.067402	2025-09-24 01:46:32.067402
4	4	2025-09-24 02:46:32.067402	2025-09-24 02:46:32.067402
5	5	2025-09-24 03:46:32.067402	2025-09-24 03:46:32.067402
6	6	2025-09-24 04:46:32.067402	2025-09-24 04:46:32.067402
7	7	2025-09-24 05:46:32.067402	2025-09-24 05:46:32.067402
8	8	2025-09-24 06:46:32.067402	2025-09-24 06:46:32.067402
9	9	2025-09-24 07:46:32.067402	2025-09-24 07:46:32.067402
10	10	2025-09-24 08:46:32.067402	2025-09-24 08:46:32.067402

10 rows

Lab 2 DB Version control

Database Explorer

console lab2

1 -- До  
2 SELECT booking\_id, ticket\_price FROM booking ORDER BY booking\_id LIMIT 10;  
3  
4 -- Обновление  
5 UPDATE booking  
6 SET ticket\_price = ROUND(ticket\_price \* 1.15, 2),  
7 updated\_at = now();  
8  
9 -- После  
10 SELECT booking\_id, ticket\_price FROM booking ORDER BY booking\_id LIMIT 10;

Files

Lab 2 DB Scratches

This screenshot shows a database development environment with a sidebar for 'Database Explorer' and a main area for 'console lab2'. The 'Database Explorer' sidebar lists databases (postgres@localhost, postgres, lab2) and tables (airline, airport, baggage, baggage\_check, boarding\_pass, booking, booking\_flight) under the 'lab2' database. The 'console lab2' tab contains two SQL scripts. The first script (lines 1-4) selects the top 10 bookings from the 'booking' table. The second script (lines 5-7) updates the 'ticket\_price' column by multiplying it by 1.15 and rounding to two decimal places, then sets the 'updated\_at' column to the current time using 'now()'. The third script (lines 9-10) re-selects the top 10 bookings to show the updated prices. The right side of the interface shows a file tree for 'Lab 2 DB' and 'Scratches'.

Services

Tx + ⌂ ⌂ X

Database postgres@localhost

console 361 ms

Output -- До Показать

booking_id	ticket_price
1	11501.15
2	11502.30
3	11503.45
4	11504.60
5	11505.75
6	11506.90
7	11508.05
8	11509.20
9	11510.35
10	11511.50

10 rows

This screenshot shows the results of the update operation from the previous console. It displays a table titled 'Output' with two columns: 'booking\_id' and 'ticket\_price'. The table contains 10 rows, each showing a booking ID and its corresponding ticket price after the 15% increase. The prices are listed as 11501.15, 11502.30, 11503.45, 11504.60, 11505.75, 11506.90, 11508.05, 11509.20, 11510.35, and 11511.50. The 'Services' section at the top left shows transaction status and database connections. The bottom status bar indicates the query took 361 ms.

Lab 2 DB Version control

Database Explorer

console lab2

1 -- До  
2 ✓ SELECT booking\_id, ticket\_price FROM booking WHERE ticket\_price < 10000 LIMIT 10;  
3  
4 -- Удаление  
5 ✓ DELETE FROM booking WHERE ticket\_price < 10000;  
6  
7 -- После  
8 ✓ SELECT booking\_id, ticket\_price FROM booking ORDER BY ticket\_price LIMIT 10;

Files

Lab 2 DB Scratches

```
-- До
SELECT booking_id, ticket_price FROM booking WHERE ticket_price < 10000 LIMIT 10;
-- Удаление
DELETE FROM booking WHERE ticket_price < 10000;
-- После
SELECT booking_id, ticket_price FROM booking ORDER BY ticket_price LIMIT 10;
```

## Services

Tx + ⌂ ⌂ X

Database postgres@localhost

console 286 ms

Output -- До Показать

booking\_id ticket\_price

booking_id	ticket_price
1	11501.15
2	11502.30
3	11503.45
4	11504.60
5	11505.75
6	11506.90
7	11508.05
8	11509.20
9	11510.35
10	11511.50

10 rows

booking_id	ticket_price
1	11501.15
2	11502.30
3	11503.45
4	11504.60
5	11505.75
6	11506.90
7	11508.05
8	11509.20
9	11510.35
10	11511.50