Database Explorer

- postgres@localhost 2 of 3
  - lab2_db 3
    - information_schema
    - pg_catalog
    - public
      - tables 10
        - airline
        - airport
        - baggage
        - baggage_check
        - boarding_pass
        - booking
        - booking_flight
        - flights
        - passengers

lab2_db.public   postgres@localhost

```sql
1  ALTER TABLE passengers
2  ADD CONSTRAINT check_passenger_age
3  CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10) not valid;
4
5  ALTER TABLE booking
6  ADD CONSTRAINT check_booking_price
7  CHECK (ticket_price > 0 AND ticket_price <= 50000);
8
9
```

Files

- Lab3 C:\Users\amina\D
- lab4 C:\Users\amina\De
  - 1.sql [postgres@localho
- Scratches and Consoles

Services

- Database
  - postgres@localhost
    - 1.sql 93 ms

```
[2025-10-15 09:16:39] Connected to lab2_db
[2025-10-15 09:16:40] completed in 2 s 299 ms
[2025-10-15 09:16:50] lab2_db> ALTER TABLE passengers
                              ADD CONSTRAINT check_passenger_age
                              CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10)
[2025-10-15 09:16:50] [23514] ОШИБКА: ограничение-проверку "check_passenger_age" отношения "passengers" нарушает нек
[2025-10-15 09:17:39] lab2_db.public> ALTER TABLE passengers
                              ADD CONSTRAINT check_passenger_age
                              CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10) not valid
[2025-10-15 09:17:39] completed in 22 ms
[2025-10-15 09:18:52] lab2_db.public> ALTER TABLE booking
                              ADD CONSTRAINT check_booking_price
                              CHECK (ticket_price > 0 AND ticket_price <= 50000)
[2025-10-15 09:18:52] completed in 21 ms
```

lab4 1.sql

7:52 CRLF UTF-8 4 spaces Trial: 7 days

```sql
ALTER TABLE passengers
ADD CONSTRAINT check_passenger_age
CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10) not valid;

ALTER TABLE booking
ADD CONSTRAINT check_booking_price
CHECK (ticket_price > 0 AND ticket_price <= 50000);

ALTER TABLE baggage
ADD CONSTRAINT check_baggage_weight
CHECK (weight_in_kg BETWEEN 1 AND 23) not valid;
```

Services

```
                                           CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10) not valid
[2025-10-15 09:17:39] completed in 22 ms
[2025-10-15 09:18:52] lab2_db.public> ALTER TABLE booking
                                      ADD CONSTRAINT check_booking_price
                                      CHECK (ticket_price > 0 AND ticket_price <= 50000)
[2025-10-15 09:18:52] completed in 21 ms
[2025-10-15 09:19:35] lab2_db.public> ALTER TABLE baggage
                                      ADD CONSTRAINT check_baggage_weight
                                      CHECK (weight_in_kg BETWEEN 1 AND 23)
[2025-10-15 09:19:35] [23514] ОШИБКА: ограничение-проверку "check_baggage_weight" отношения "baggage" нарушает некото
[2025-10-15 09:19:47] lab2_db.public> ALTER TABLE baggage
                                      ADD CONSTRAINT check_baggage_weight
                                      CHECK (weight_in_kg BETWEEN 1 AND 23) not valid
[2025-10-15 09:19:47] completed in 14 ms
```

1.sql

Tx: Auto   Playground   lab2_db.public   postgres@localhost

```
2    ADD CONSTRAINT check_passenger_age
3    CHECK (DATE_PART('year', age(current_date, date_of_birth)) >= 10) not valid;
4
5    ALTER TABLE booking
6    ADD CONSTRAINT check_booking_price
7    CHECK (ticket_price > 0 AND ticket_price <= 50000);
8
9    ALTER TABLE baggage
10   ADD CONSTRAINT check_baggage_weight
11   CHECK (weight_in_kg BETWEEN 1 AND 23) not valid;
12
13   ALTER TABLE airport
14   ADD CONSTRAINT check_airport_name_length
15   CHECK (LENGTH(airport_name) >= 10);
16
17
```

Database Explorer tree:

- postgres@localhost 2 of 3
  - lab2_db
    - information_schema
    - pg_catalog
    - public
      - tables 10
        - airline
        - airport
        - baggage
        - baggage_check
        - boarding_pass
        - booking
        - booking_flight
        - flights
        - passengers

Project tree (right panel):
- Lab3 C:\Users\amina\D
- lab4 C:\Users\amina\De
  - 1.sql [postgres@localhos
- Scratches and Consoles

Services:

- Database
  - postgres@localhost
    - 1.sql 65 ms

```
                                        CHECK (ticket_price > 0 AND ticket_price <= 50000)
[2025-10-15 09:18:52] completed in 21 ms
[2025-10-15 09:19:35] lab2_db.public> ALTER TABLE baggage
                                      ADD CONSTRAINT check_baggage_weight
                                      CHECK (weight_in_kg BETWEEN 1 AND 23)
[2025-10-15 09:19:35] [23514] ОШИБКА: ограничение-проверку "check_baggage_weight" отношения "baggage" нарушает некотс
[2025-10-15 09:19:47] lab2_db.public> ALTER TABLE baggage
                                      ADD CONSTRAINT check_baggage_weight
                                      CHECK (weight_in_kg BETWEEN 1 AND 23) not valid
[2025-10-15 09:19:47] completed in 14 ms
[2025-10-15 09:20:22] lab2_db.public> ALTER TABLE airport
                                      ADD CONSTRAINT check_airport_name_length
                                      CHECK (LENGTH(airport_name) >= 10)
[2025-10-15 09:20:22] completed in 19 ms
```

lab4 > 1.sql

15:36 CRLF UTF-8 4 spaces   Trial: 7 days

```sql
ALTER TABLE passengers
ADD CONSTRAINT unique_passport UNIQUE (passport_number);

ALTER TABLE airline
ADD CONSTRAINT unique_airline_code UNIQUE (airline_code) ;

ALTER TABLE airport
ADD CONSTRAINT unique_airport_code UNIQUE (airport_id);

ALTER TABLE flights
ADD CONSTRAINT unique_flight_code UNIQUE (flight_id);

ALTER TABLE booking
ADD CONSTRAINT unique_booking_number UNIQUE (booking_id);
```

Database Explorer

1.sql

Tx: Auto   Playground   lab2_db.public   postgres@localhost

```sql
29    ALTER TABLE booking
30    ADD CONSTRAINT unique_booking_number UNIQUE (booking_id);
31
32
33 ✓  ALTER TABLE passengers
34    ADD CONSTRAINT check_gender_age
35    CHECK (
36      (gender = 'Male'   AND DATE_PART('year', age(current_date, date_of_birth)) >= 18)
37      OR
38      (gender = 'Female' AND DATE_PART('year', age(current_date, date_of_birth)) >= 19)
39    ) not valid ;
40
41
42
43
44
```

postgres@localhost 2 of 3
  lab2_db 3
    information_schema
    pg_catalog
    public
      tables 10
        airline
        airport
        baggage
        baggage_check
        boarding_pass
        booking
        booking_flight
        flights
        passengers

Services

Tx,
  Database
    postgres@localhost
      1.sql 63 ms

```
                              CHECK (
                                (gender = 'Male'   AND DATE_PART('year', age(current_date, date_of_birth)) >:
                                OR
                                (gender = 'Female' AND DATE_PART('year', age(current_date, date_of_birth)) >:
                              )
[2025-10-15 09:22:26] [23514] ОШИБКА: ограничение-проверку "check_gender_age" отношения "passengers" нарушает некотор
[2025-10-15 09:22:35] lab2_db.public> ALTER TABLE passengers
                              ADD CONSTRAINT check_gender_age
                              CHECK (
                                (gender = 'Male'   AND DATE_PART('year', age(current_date, date_of_birth)) >:
                                OR
                                (gender = 'Female' AND DATE_PART('year', age(current_date, date_of_birth)) >:
                              ) not valid
[2025-10-15 09:22:35] completed in 13 ms
```

Database Explorer

1.sql

Tx: Auto | Playground | lab2_db.public | postgres@localhost

Lab3 C:\Users\amina\D
lab4 C:\Users\amina\De
1.sql[postgres@localhos
Scratches and Consoles

```sql
34        ADD CONSTRAINT check_gender_age
38      (gender = 'Female' AND DATE_PART('year', age(current_date, date_of_birth)) >= 19)
39    ) not valid ;
40
41
42    ALTER TABLE passengers
43    ADD CONSTRAINT check_citizenship_age
44    CHECK (
45      (country_of_citizenship = 'Kazakhstan' AND DATE_PART('year', age(current_date, date_of_birth)) >= 18)
46      OR
47      (country_of_citizenship = 'France'    AND DATE_PART('year', age(current_date, date_of_birth)) >= 17)
48      OR
49      (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND DATE_PART('year', age(current_date, date_of_
50    ) not valid ;
51
52
53
```

postgres@localhost 2 of 3
lab2_db 3
information_schema
pg_catalog
public
tables 10
airline
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
passengers

Services

Tx
Database
postgres@localhost
1.sql 64 ms

```
                        OR
                        (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND DATE_PART('year'
                        )
[2025-10-15 09:23:04] [23514] ОШИБКА: ограничение-проверку "check_citizenship_age" отношения "passengers" нарушает не
[2025-10-15 09:23:13] lab2_db.public> ALTER TABLE passengers
                        ADD CONSTRAINT check_citizenship_age
                        CHECK (
                        (country_of_citizenship = 'Kazakhstan' AND DATE_PART('year', age(current_date
                        OR
                        (country_of_citizenship = 'France'    AND DATE_PART('year', age(current_date
                        OR
                        (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND DATE_PART('year'
                        ) not valid
[2025-10-15 09:23:13] completed in 13 ms
```

lab4 | 1.sql | 50:13 | CRLF | UTF-8 | 4 spaces | Trial: 7 days

7°C Sunny | ENG | 09:23 15.10.2025

Database Explorer

1.sql ✕

Tx: Auto   ▢   Playground ▾   🗄lab2_db.public ▾   🐘postgres@localhost ▾

Files ▾
> 📁 Lab3 C:\Users\amina\D
v 📁 lab4 C:\Users\amina\De
    🗄 1.sql[postgres@localhos
> 📁 Scratches and Consoles

```
60
61 ✓    ALTER TABLE booking
62       ADD CONSTRAINT check_ticket_discount
63       CHECK (
64         (created_at > '2024-01-01' AND ticket_discount = ticket_price * 0.95)
65         OR
66       💡(created_at <= '2024-01-01' AND ticket_discount = ticket_price * 0.90)
67       ) not valid ;
68
69
70
71
72
73
74
```

v 🐘 postgres@localhost 2 of 3
  v 🗄 lab2_db 3
    > 🗄 information_schema
    > 🗄 pg_catalog
    v 🗄 public
      v 📁 tables 10
        > 🎫 airline
        > 🎫 airport
        > 🎫 baggage
        > 🎫 baggage_check
        > 🎫 boarding_pass
        > 🎫 booking
        > 🎫 booking_flight
        > 🎫 flights
        > 🎫 passengers

Services

Tx   ➕ 👁 ⊞ ⇅ ✕

☐   v 📁 Database
      v 🐘 postgres@localhost
          🗄 1.sql 56 ms

```
                                        (created_at <= '2024-01-01' AND ticket_discount = ticket_price * 0.90)
                                        ) not valid
[2025-10-15 09:23:50] [42703] ОШИБКА: столбец "ticket_discount" не существует
[2025-10-15 09:25:56] lab2_db.public> ALTER TABLE booking
                                        ADD COLUMN ticket_discount NUMERIC(10,2)
[2025-10-15 09:25:56] completed in 14 ms
[2025-10-15 09:26:02] lab2_db.public> ALTER TABLE booking
                                        ADD CONSTRAINT check_ticket_discount
                                        CHECK (
                                          (created_at > '2024-01-01' AND ticket_discount = ticket_price * 0.95)
                                          OR
                                          (created_at <= '2024-01-01' AND ticket_discount = ticket_price * 0.90)
                                        ) not valid
[2025-10-15 09:26:02] completed in 12 ms
```

7°C
Sunny

ENG   09:26   15.10.2025