Database Explorer

lab2 | console_5 | airport

postgres.lab2 | Lab 2 DB

Scratches

```sql
ALTER TABLE passengers
ADD CONSTRAINT chk_age CHECK (AGE(date_of_birth) >= INTERVAL '10 years');
```

postgres@localhost

- lab2
  - tables 10
    - airline
    - airport
    - baggage
    - baggage_check
    - boarding_pass
    - booking
    - booking_flight
    - flights
    - passengers
    - security_check
  - public

Services

- Database
  - postgres@localhost
    - console_5   509 ms
      - airport   392 ms

```
[2025-10-14 23:55:34] Connected
[2025-10-14 23:55:34] postgres.lab2> set search_path = "lab2"
[2025-10-14 23:55:34] completed in 2 ms
[2025-10-14 23:55:34] postgres.lab2> ALTER TABLE passengers
                                     ADD CONSTRAINT chk_age CHECK (AGE(date_of_birth) >= INTERVAL '10 years')
[2025-10-14 23:55:34] completed in 19 ms
```

Database Consoles > postgres@localhost > console_5

2:74   LF   UTF-8   4 spaces

lab2   console_5

postgres.lab2   Lab 2 DB

Scratches

```
1   ALTER TABLE booking
2   ADD CONSTRAINT chk_ticket_price CHECK (ticket_price <= 50000 AND ticket_price >= 0);
```

postgres@localhost

- booking
- booking_flight
- flights
- passengers
  - columns 10
  - keys 1
  - indexes 1
  - checks 1
  - security_check
- public
- Database Objects
- Server Objects

Services

Database
- postgres@localhost
  - console_5 22 ms

```
[2025-10-14 23:55:34] Connected
[2025-10-14 23:55:34] postgres.lab2> set search_path = "lab2"
[2025-10-14 23:55:34] completed in 2 ms
[2025-10-14 23:55:34] postgres.lab2> ALTER TABLE passengers
                                     ADD CONSTRAINT chk_age CHECK (AGE(date_of_birth) >= INTERVAL '10 years')
[2025-10-14 23:55:34] completed in 19 ms
[2025-10-15 00:16:07] postgres.lab2> ALTER TABLE booking
                                     ADD CONSTRAINT chk_ticket_price CHECK (ticket_price <= 50000 AND ticket_price >= 0)
[2025-10-15 00:16:07] completed in 6 ms
```

Database Explorer

lab2   console_5

Tx: Auto   Playground   postgres.lab2   Lab 2 DB

Scratches

```sql
1  ALTER TABLE baggage
2  ADD CONSTRAINT chk_baggage_weight CHECK (weight_in_kg >= 1 AND weight_in_kg <= 23);
```

postgres@localhost
- booking
- booking_flight
- flights
- passengers
  - columns 10
  - keys 1
  - indexes 1
  - checks 1
  - security_check
- public
- Database Objects
- Server Objects

Services

Database
- postgres@localhost
  - console_5 14 ms

Output   postgres.lab2.baggage

```
[2025-10-15 00:29:51] postgres.lab2> SELECT baggage_id, weight_in_kg
                                     FROM baggage
                                     WHERE weight_in_kg < 1 OR weight_in_kg > 23
[2025-10-15 00:29:51] 0 rows retrieved in 343 ms (execution: 4 ms, fetching: 339 ms)
[2025-10-15 00:30:03] postgres.lab2> ALTER TABLE baggage
                                     ADD CONSTRAINT chk_baggage_weight CHECK (weight_in_kg >= 1 AND weight_in_kg <= 23)
[2025-10-15 00:30:03] completed in 2 ms
```

Database Explorer

lab2   console_5

ALTER TABLE airport
Playground   postgres.lab2

```sql
ALTER TABLE airport
ADD CONSTRAINT chk_airport_name_length CHECK (LENGTH(airport_name) >= 8);
```

postgres@localhost   1 of 5
postgres   2 of 4
lab2
tables   10
airline
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
passengers
columns   10

Lab 2 DB
Scratches

Services

Database
postgres@localhost
console_5   15 ms

[2025-10-15 00:57:50] postgres.lab2> ALTER TABLE airport
                                      ADD CONSTRAINT chk_airport_name_length CHECK (LENGTH(airport_name) >= 8)
[2025-10-15 00:57:50] completed in 3 ms

Database Consoles > postgres@localhost > console_5
2:72   LF   UTF-8   4 spaces

Version control

Database Explorer

postgres.lab2   Lab 2 DB

Tx: Auto   Playground

Scratches

```sql
1   ALTER TABLE airline
2   ADD CONSTRAINT unique_airline_id UNIQUE (airline_id);
3
4   ALTER TABLE passengers
5   ADD CONSTRAINT unique_passenger_passport UNIQUE (passport_number);
6
7   ALTER TABLE booking
8   ADD CONSTRAINT unique_booking_platform UNIQUE (booking_id);
9
10  ALTER TABLE flights
11  ADD CONSTRAINT unique_flight_id UNIQUE (flight_id);
12
13  ALTER TABLE booking_flight
14  ADD CONSTRAINT unique_booking_flight UNIQUE (booking_flight_id);
15
16  ALTER TABLE boarding_pass
17  ADD CONSTRAINT unique_boarding_pass UNIQUE (boarding_pass_id);
```

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

Services

Tx
- Database
  - postgres@localhost
    - console_5 9 ms

```
[2025-10-15 01:20:30] postgres.lab2> ALTER TABLE passengers
                                      ADD CONSTRAINT unique_passenger_passport UNIQUE (passport_number)
[2025-10-15 01:20:30] completed in 3 ms
[2025-10-15 01:20:30] postgres.lab2> ALTER TABLE booking
                                      ADD CONSTRAINT unique_booking_platform UNIQUE (booking_id)
[2025-10-15 01:20:30] completed in 5 ms
[2025-10-15 01:20:30] postgres.lab2> ALTER TABLE flights
                                      ADD CONSTRAINT unique_flight_id UNIQUE (flight_id)
[2025-10-15 01:20:30] completed in 4 ms
[2025-10-15 01:20:30] postgres.lab2> ALTER TABLE booking_flight
                                      ADD CONSTRAINT unique_booking_flight UNIQUE (booking_flight_id)
[2025-10-15 01:20:30] completed in 3 ms
[2025-10-15 01:20:30] postgres.lab2> ALTER TABLE boarding_pass
                                      ADD CONSTRAINT unique_boarding_pass UNIQUE (boarding_pass_id)
[2025-10-15 01:20:30] completed in 3 ms
```

lab2   console_5   passengers

postgres.lab2   Lab 2 DB

Scratches

```sql
1  SELECT passenger_id, first_name, last_name, gender, date_of_birth
2  FROM passengers
3  WHERE (gender = 'Male' AND EXTRACT(YEAR FROM AGE(date_of_birth)) < 18)
4     OR (gender = 'Female' AND EXTRACT(YEAR FROM AGE(date_of_birth)) < 19);
```

postgres@localhost   1 of 5
- postgres   2 of 4
  - lab2
    - tables   10
      - airline
      - airport
      - baggage
      - baggage_check
      - boarding_pass
      - booking
      - booking_flight
      - flights
      - passengers
        - columns   10
          - passenger_id   integer
          - first_name   varchar(50)

- Database
  - postgres@localhost
    - passengers   404 ms
    - console_5   335 ms

Output   postgres.lab2.passengers

CSV

passenger_id	first_name	last_name	gender	date_of_birth

0 rows

Database Explorer

postgres.lab2

Lab 2 DB

Scratches

```sql
1   ALTER TABLE passengers
2   ADD CONSTRAINT chk_gender_age CHECK (
3       (gender = 'Male' AND EXTRACT(YEAR FROM AGE(date_of_birth)) >= 18) OR
4       (gender = 'Female' AND EXTRACT(YEAR FROM AGE(date_of_birth)) >= 19)
5   );
```

- postgres@localhost 1 of 5
  - postgres 2 of 4
    - lab2
      - tables 10
        - airline
        - airport
        - baggage
        - baggage_check
        - boarding_pass
        - booking
        - booking_flight
        - flights
        - passengers
          - columns 10
            - passenger_id integer
            - first_name varchar(50)

[23514] ERROR: check constraint "chk_gender_age" of relation "passengers" is violated by some row

Services

- Database
  - postgres@localhost
    - passengers 404 ms
    - console_5 17 ms

Output   postgres.lab2.passengers

```
[2025-10-15 01:40:58] postgres.lab2> SELECT passenger_id, first_name, last_name, gender, date_of_birth
                                     FROM passengers
                                     WHERE (gender = 'Male' AND EXTRACT(YEAR FROM AGE(date_of_birth)) < 18)
                                     OR (gender = 'Female' AND EXTRACT(YEAR FROM AGE(date_of_birth)) < 19)
[2025-10-15 01:40:58] 0 rows retrieved in 322 ms (execution: 6 ms, fetching: 316 ms)
[2025-10-15 01:41:15] postgres.lab2> ALTER TABLE passengers
                                     ADD CONSTRAINT chk_gender_age CHECK (
                                         (gender = 'Male' AND EXTRACT(YEAR FROM AGE(date_of_birth)) >= 18) OR
                                         (gender = 'Female' AND EXTRACT(YEAR FROM AGE(date_of_birth)) >= 19)
                                     )
[2025-10-15 01:41:15] [23514] ERROR: check constraint "chk_gender_age" of relation "passengers" is violated by some row
```

Database Explorer

Tx: Auto   Playground   postgres.lab2   Lab 2 DB

Scratches

- postgres@localhost 1 of 5
  - postgres 2 of 4
    - lab2
      - tables 10
        - airline
        - airport
        - baggage
        - baggage_check
        - boarding_pass
        - booking
        - booking_flight
        - flights
        - passengers
          - columns 10
            - passenger_id integer
            - first_name varchar(50)

```sql
1  ALTER TABLE passengers
2  ADD CONSTRAINT chk_country_age CHECK (
3      (country_of_citizenship = 'Kazakhstan' AND AGE(date_of_birth) >= INTERVAL '18 years') OR
4      (country_of_citizenship = 'France' AND AGE(date_of_birth) >= INTERVAL '17 years') OR
5      (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND AGE(date_of_birth) >= INTERVAL '19 years')
6  );
```

Services

Tx

- Database
  - postgres@localhost
    - passengers 404 ms
    - console_5 19 ms

Output   postgres.lab2.passengers

```
[2025-10-15 01:39:45] postgres.lab2> ALTER TABLE passengers
                                     ADD CONSTRAINT chk_country_age CHECK (
                                         (country_of_citizenship = 'Kazakhstan' AND AGE(date_of_birth) >= INTERVAL '18
                                         years') OR
                                         (country_of_citizenship = 'France' AND AGE(date_of_birth) >= INTERVAL '17
                                         years') OR
                                         (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND AGE(date_of_birth)
                                         >= INTERVAL '19 years')
                                     )
[2025-10-15 01:39:45] completed in 5 ms
```

Database Explorer

lab2   console_5   passengers

postgres.lab2   Lab 2 DB

Scratches

Tx: Auto   Playground

```
1   ALTER TABLE booking
2   ADD COLUMN ticket_discount DECIMAL(5,2),
3   ADD CONSTRAINT chk_ticket_discount CHECK (
4       (created_at > '2024-01-01' AND ticket_discount = 5) OR
5       (created_at <= '2024-01-01' AND ticket_discount = 10)
6   );
```

- postgres@localhost 1 of 5
  - postgres 2 of 4
    - lab2
      - tables 10
        - airline
        - airport
        - baggage
        - baggage_check
        - boarding_pass
        - booking
        - booking_flight
        - flights
        - passengers
          - columns 10
            - passenger_id integer
            - first_name varchar(50)

Services

Database
- postgres@localhost
  - passengers 404 ms
  - console_5 17 ms

Output   postgres.lab2.passengers

```
[2025-10-15 01:40:14] postgres.lab2> ALTER TABLE booking
                                     ADD COLUMN ticket_discount DECIMAL(5,2),
                                     ADD CONSTRAINT chk_ticket_discount CHECK (
                                         (created_at > '2024-01-01' AND ticket_discount = 5) OR
                                         (created_at <= '2024-01-01' AND ticket_discount = 10)
                                     )
[2025-10-15 01:40:14] completed in 5 ms
```