### **DDL**

# 1,2,4

```
Query Query History
                                                                                                                                                                                                                                              Scratch Pad X
                     > ( ) Procedures
                                                                         CREATE TABLE airline_info (
airline_id INT PRIMARY KEY,
airline_code VARCHAR(30) NOT NULL,
airline_name VARCHAR(36) NOT NULL,
airline_country VARCHAR(56) NOT NULL,
created_at IIMESTAMP NOT NULL,
info VARCHAR(58) NOT NULL,
info VARCHAR(58) NOT NULL
                     > 1.3 Sequences

→ Tables (10)

                       > = airline
                        > 🖽 airport
                         > 🖽 baggage
                        > Baggage_check
                        > 🖽 boarding_pass
                                                                        );
                        > 🛅 booking
                                                                        CREATE TABLE airport (
airport_id INT PRIMARY KEY,
airport_name VARCHAR(S9) NOT NULL,
country VARCHAR(S9) NOT NULL,
city VARCHAR(S9) NOT NULL,
created_at TIMESTAMP NOT NULL,
updated_at TIMESTAMP NOT NULL
                        > = booking flight
                        > III flights
                        > = security check
                     > ( Trigger Functions
                     > 🛅 Types
                                                                18
19
20
21
                     > | Views
                                                                          );
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,
               > Subscriptions
           > = postgres
            > suppliers
        > 4 Login/Group Roles
                   > ( Procedures
                                                                        CREATE TABLE baggage check
                                                              20
21
                                                                              ATE TABLE baggage_check (
baggage_check_id INT PRIMARY KEY,
check_result VARCHAR(50) NOT NULL,
created_at TIMESTAMP NOT NULL,
booking_id INT NOT NULL,
                   > 1..3 Sequences

→ (=) Tables (10)

                      > 🔠 airline
                      > == airport
                      > iii baggage
                                                                              passenger_id INT NOT NULL
                      > iii baggage_check
                                                                       );
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
                      > == boarding_pass
                      > == booking
                      > iii booking_flight
                      s III flights
                      > = passengers
                      > == security_check
                                                                      );
                   > ( Trigger Functions
                                                                       CREATE TABLE boarding_pass (
boarding_pass_id INT PRIMARY KEY,
booking_id INT NOT NULL,
seat VARCHAR(50) NOT NULL,
                   > Types
             > 5 Subscriptions
                                                                              boarding_time TIMESTAMP NOT NULL,
created_at TIMESTAMP NOT NULL,
updated_at TIMESTAMP NOT NULL
         > = postares
         > suppliers
      > 🚣 Login/Group Roles
      > 🏪 Tablespaces

✓ 

Servers (1)

                                                            Data Output Messages Notifications
   V PostgreSQL 17
                                                            ALTER TABLE
     v = Databases (5)
                                                            Query returned successfully in 51 msec.
        > 🥞 lab10
         > 🥞 lab11
          > structure my_airport
                                                                                                                                                           v S
                                                             ₩ my_airport/postgres@MyDB
                     > ( Functions
                                                               ■ ∨ P ∨ ✓ ∨ No limit ▼ ■ ▶ ▶ ∨ B ■ ∨ S S ≣ ∨ Ø
                     > R Materialized Views
                     > 🐁 Operators
                                                              Query Query History
                                                                                                                                                                                                                                                Scratch Pad X
                     > ( ) Procedures
                                                                          CREATE TABLE booking_flight (
booking_flight_id INT PRIMARY KEY,
booking_id INT NOT NULL,
                     > 1..3 Sequences

√ 
☐ Tables (10)

                       > III airline
                                                                                  flight id INT NOT NULL,
                                                                                created_at TIMESTAMP NOT NULL,
updated_at TIMESTAMP NOT NULL
                        > III airport
                        > 

baggage
                        > ## baggage_check
                                                                         CREATE TABLE booking (
booking_id INT PRIMARY KEY,
flight_id INT NOT NULL,
passenger_id INT NOT NULL,
booking_platform VARCHAR(50) NOT NULL,
                         > ## boarding_pass
                        > == booking
                        > III booking_flight
                         > iii flights
                        > == passengers
                                                                                 created_at TIMESTAMP NOT NULL, updated_at TIMESTAMP NOT NULL,
                         > ## security_check
                                                                                status VARCHAR(50) NOT NULL,
price DECIMAL(7,2) NOT NULL
                     > ( Trigger Functions
                     > 🛅 Types
                                                                          );
                     > III Views
               > 2 Subscriptions
                                                                          CREATE TABLE flights (
flight_id INT PRIMARY KEY,
sch_departure_time TIMESTAMP NOT NULL,
sch_arrival_time TIMESTAMP NOT NULL,
           > = postgres
           > suppliers
        > 各 Login/Group Roles
                                                                                 departing_airport_id INT NOT NULL,
         > 🦰 Tablespaces
                                                               Data Output Messages Notifications
  Servers (1)
    ALTER TABLE

√ ■ Databases (5)

                                                               Query returned successfully in 51 msec.
           > 🥞 lab10
           > 🥞 lab11
```

```
> 4 Operators
                                                              Query Query History
                                                                                                                                                                                                                                              Scratch Pad X
                     > ( ) Procedures
                                                                         CREATE TABLE flights
                     > 1..3 Sequences
                                                                                 flight_id INT PRIMARY KEY,

→ (=) Tables (10)

                                                                                 sch_departure_time TIMESTAMP NOT NULL,
sch_arrival_time TIMESTAMP NOT NULL,
departing_airport_id INT NOT NULL,
arriving_airport_id INT NOT NULL,
                        > == airline
                        > III airport
                        > III baggage
                                                                                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_ITHESTAMP_NOT NULL, act_arrival_time_ITHESTAMP_NOT NULL,
                         > iii baggage_check
                        > == boarding pass
                        > III booking
                        > == booking_flight
                                                                                 created_at TIMESTAMP NOT NULL, updated_at TIMESTAMP NOT NULL
                                                                75
76
77
78
79
80
81
82
83
84
85
86
87
                         > III flights
                        > == passengers
                                                                         );
                         > == security_check
                     > ( Trigger Functions
                                                                         CREATE TABLE passengers
                                                                                ATE 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,
passport_number VARCHAR(20) NOT NULL,
passport_number VARCHAR(20) NOT NULL,
                     > Types
                     > III Views
              > 2 Subscriptions
            > 

postgres
           > suppliers
        > 🚣 Login/Group Roles
        > Pablespaces
                                                              Data Output Messages Notifications
 Servers (1)

√ MP PostgreSQL 17

                                                              ALTER TABLE

✓ ■ Databases (5)

                                                               Query returned successfully in 51 msec.
            > 🚅 lab10
            > = lab11
            > structure my_airport
            > = postgres
            > suppliers
                 > R Materialized Views
                                                            ■ ∨ 🖪 ∨ 🖍 ▼ ∨ No limit 🔻 ■ ▶ ▶ ∨ 🖪 🔟 ∨ 👼 👼 🖃 🛛
                  > % Operators
                                                           Query Query History
                                                                                                                                                                                                                                         Scratch Pad ×
                  > (C) Procedures
                                                                      );
                  > 1..3 Sequences

→ (10)

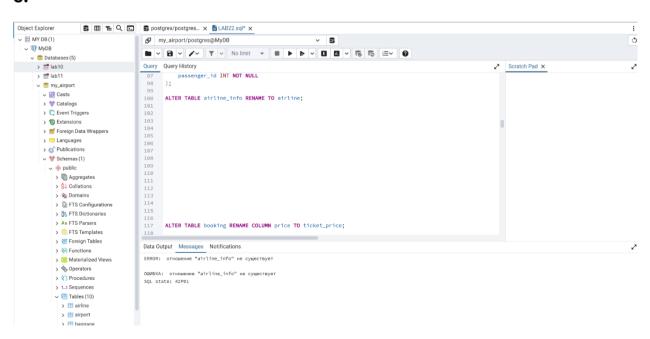
                                                                      CREATE TABLE passengers (
                                                                            ATE TABLE passengers (
passenger_id INT PRIMARY KEY,
first_name VARCHAR(S@) NOT NULL,
last_name VARCHAR(S@) NOT NULL,
date_of_birth DATE NOT NULL,
gender VARCHAR(S@) NOT NULL,
country_of_critizenship VARCHAR(S@) NOT NULL,
country_of_residence VARCHAR(S@) NOT NULL,
passport_number VARCHAR(2@) NOT NULL,
updated_at TIMESTAMP NOT NULL,
updated_at TIMESTAMP NOT NULL
                     ) El airline
                     > = airport
                      > 🖽 baggage
                      > 🖽 baggage_check
                      boarding pass
                      > 🖽 booking
                      > | booking_flight
                                                             88
89
90
91
92
                      ) III flights
                      > III passengers
                                                                    );
                      > = security_check
                                                                     CREATE TABLE security_check (
security_check_id INT PRIMARY KEY,
check_result VARCHAR(20) NOT NULL,
created_at TIMESTAMP NOT NULL,
passenger_id INT NOT NULL,
                  > ( Trigger Functions
                  > Types
                  > iii Views
           > 20 Subscriptions
         > = postares
                                                           98
99
100
                                                                     );
         > suppliers
      > 🚣 Login/Group Roles
                                                                    ALTER TABLE airline_info RENAME TO airline;
     > Tablespaces
                                                           Data Output Messages Notifications
✓ 🖺 Servers (1)

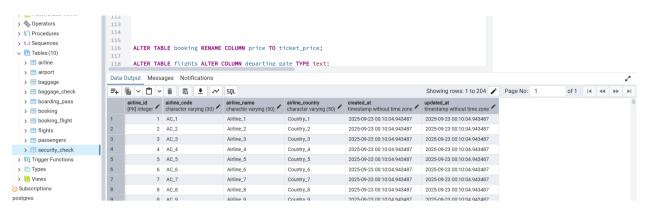
√ PostgreSQL 17

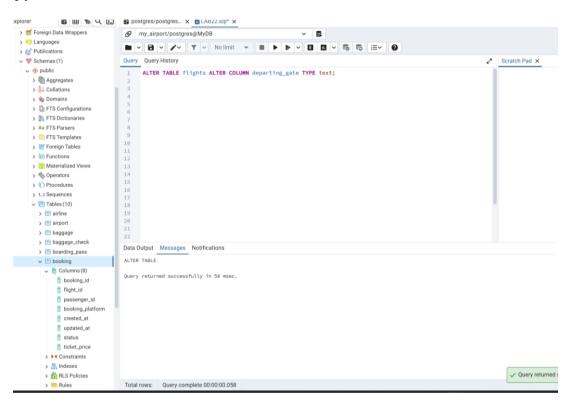
                                                           ALTER TABLE

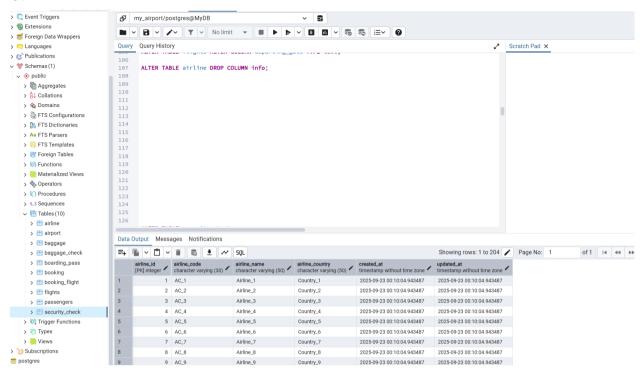
√ ■ Databases (5)

                                                           Query returned successfully in 51 msec.
        > = lab10
```









```
ALTER TABLE security_check

ADD CONSTRAINT fk_security_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);

REFERENCES passengers (passenger_id);

ALTER TABLE baggage_check

ADD CONSTRAINT fk_baggage_check_passenger FOREIGN KEY (passenger_id)

REFERENCES passengers (passenger_id);

REFERENCES passengers (passenger_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);

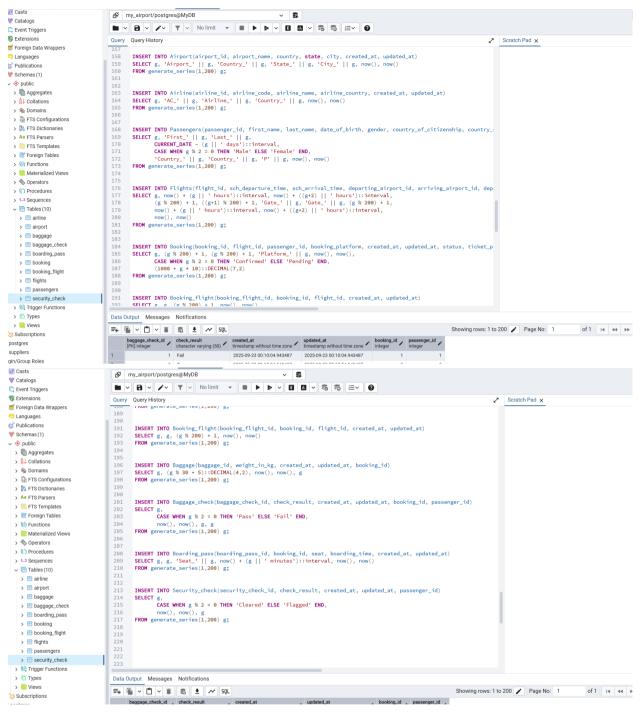
ALTER TABLE booking_flight
ADD CONSTRAINT fk_booking_flight_flight FOREIGN KEY (flight_id)
REFERENCES flights (flight_id);

ALTER TABLE flights
ADD CONSTRAINT fk_flight_departure_airport FOREIGN KEY (departing_airport_id)
REFERENCES airport (airport_id);

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

ALTER TABLE flights
ADD CONSTRAINT fk_flight_airline FOREIGN KEY (airline_id)
REFERENCES airline (airline_id);
```

**DML** 



3.

> fff passengers
> fff security\_check
> fff trigger Functions
> fff types

