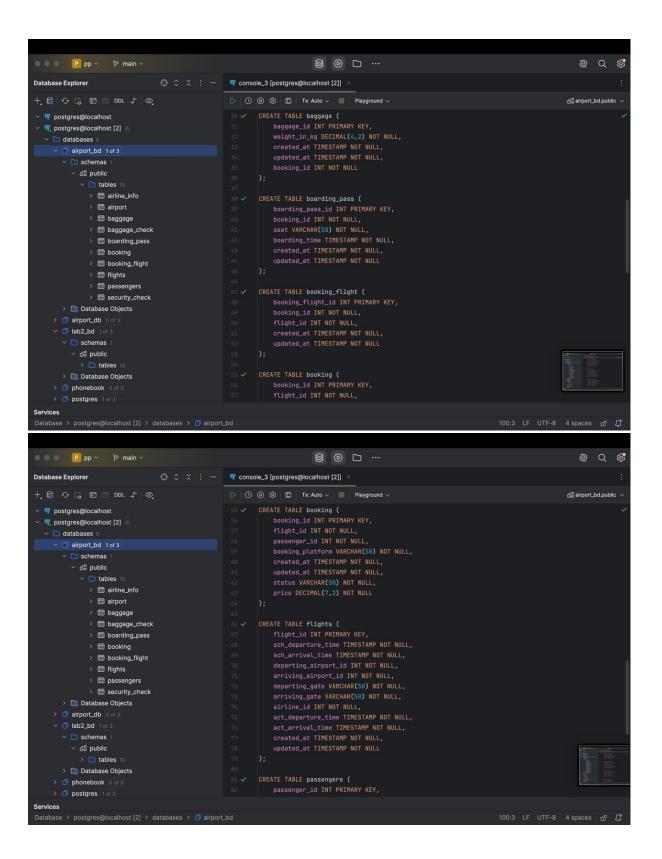
## LAB 2

## **DDL**

- 1. Create following tables with corresponding attributes:
- 2. Define Primary Keys for each tables;
- 3. Define for all attributes not null constraint;

```
@ Q 65
 ● ● ● Pp × Pomain ×
                                                                                                            ● ● □ …
                                             ⊕ ≎ ≍ : — 🔻 console_3 [postgres@localhost [2]]
Database Explorer
                                                                                                                                                                                                              £ airport_bd.public ∨
                                                                             1 ✓ CREATE TABLE airline_info (
 v 🌹 postgres@localhost
 v 🌹 postgres@localhost [2]
                                                                                         airline_name VARCHAR(50) NOT NULL,
airline_country VARCHAR(50) NOT NULL,
created_at TIMESTAMP NOT NULL,
                                                                                           info VARCHAR(50) NOT NULL
                    > III airline_info
                    > III airport
                    > IIII baggage
                                                                            11 V CREATE TABLE airport (
                                                                                       airport_id INT PRIMARY KEY ,
airport_name VARCHAR($6) NOT NULL,
country VARCHAR($6) NOT NULL,
state VARCHAR($6) NOT NULL,
city VARCHAR($6) NOT NULL,
created_at TIMESTAMP NOT NULL,
                    > fff baggage_check
                    > fff boarding_pass
                    > III booking
                    > III booking_flight
                    > 🌐 flights
                    > III passengers
                                                                           18 updated_at TIMESTAMP NOT NULL
19 );
                     > III security_check
          > 🛅 Database Objects
        > airport_db 0 of 3
                                                                                       baggage_check_id INT PRIMARY KEY,
check_result VARCHAR(Se) NOT NULL,
created_at TIMESTAMP NOT NULL,
updated_at TIMESTAMP NOT NULL,
booking_id INT NOT NULL,
           v 🗀 schemas
             ∨ 🔂 public
           > 🛅 Database Objects
        > phonebook 0 of 3
       > postgres 1 of 3
```

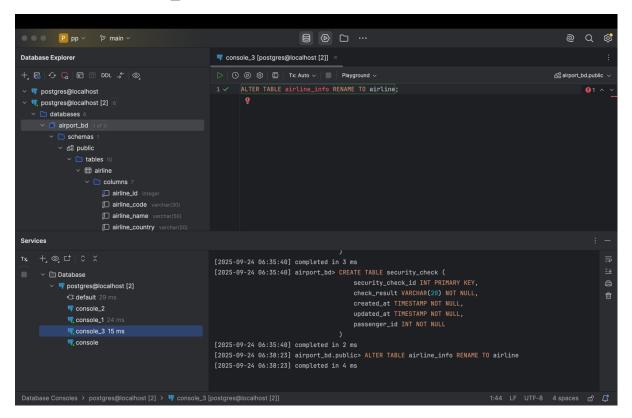


```
P pp ~
                                                                                   8 № □ …
                                                                                                                                                                 @ Q $
                                    ⊕ ≎ X : - ¶ console_3 [postgres@localhost [2]]
                                                             © ② ③ □ Tx: Auto ∨ ■ Playground ∨
+, 🗟 🗗 🖟 🗇 🗇 DDL 🗲 🞯
                                                                  CREATE TABLE flights (
postgres@localhost [2]
   airport_bd 1 of 3

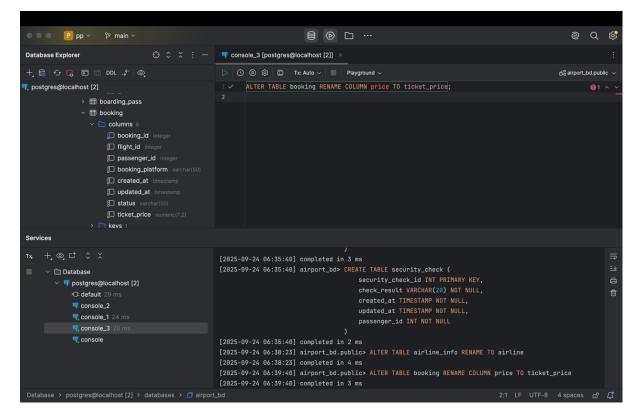
∨ □ schemas

                                                                      first_name VARCHAR(50) NOT NULL,
          ∨ 68 public
             ✓ 🗀 tables 10
→ 🖽 airline_info
                                                                   gender VARCHAR(58) NOT NULL,
country_of_citizenship VARCHAR(50) NOT NULL,
country_of_residence VARCHAR(50) NOT NULL,
passport_number VARCHAR(20) NOT NULL,
               > III airport
               > III baggage
                > fff baggage_check
                > fill boarding_pass
                > III booking
                > fff booking_flight
                > IIII flights
                > 🏻 passengers
                > III security_check
                                                                     check_result VARCHAR(20) NOT NULL,
        > 🛅 Database Objects
     > airport_db | 0 of 3
      ∨ 👩 lab2_bd 1 of
                                                                      passenger_id INT NOT NULL
        > 🛅 Database Objects
     > phonebook of
Services
```

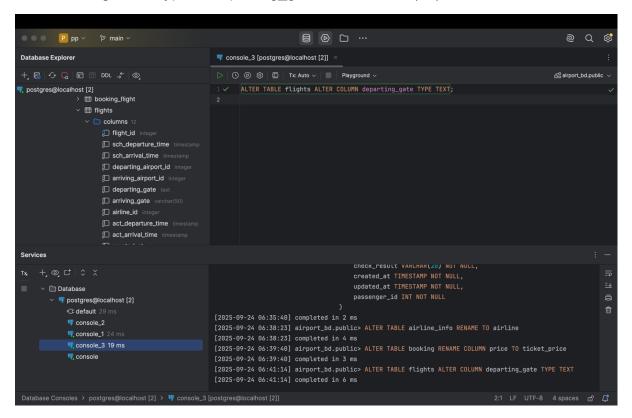
**5.** Rename airline\_info table to airline;



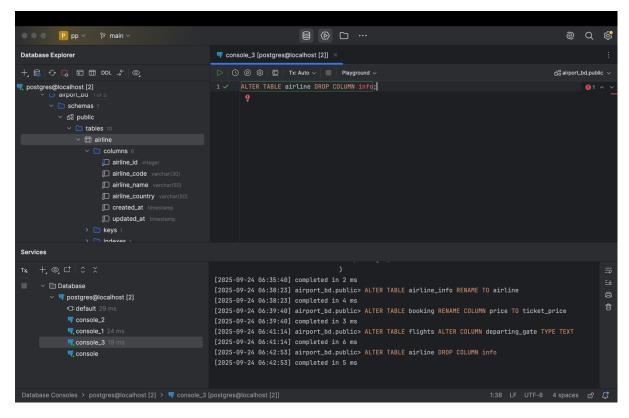
6. Rename column price to ticket\_price in booking table;



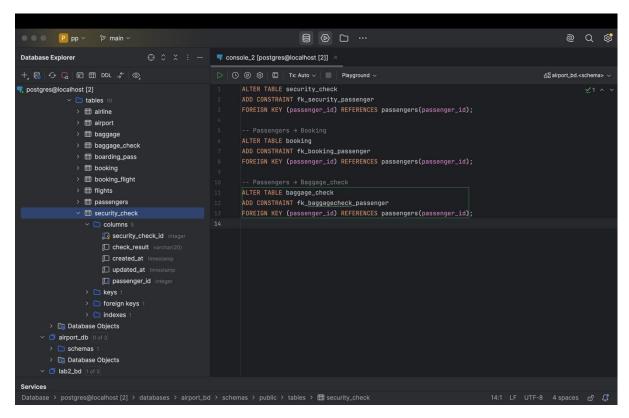
7. Change data type of departing\_gate from varchar(50) to text;



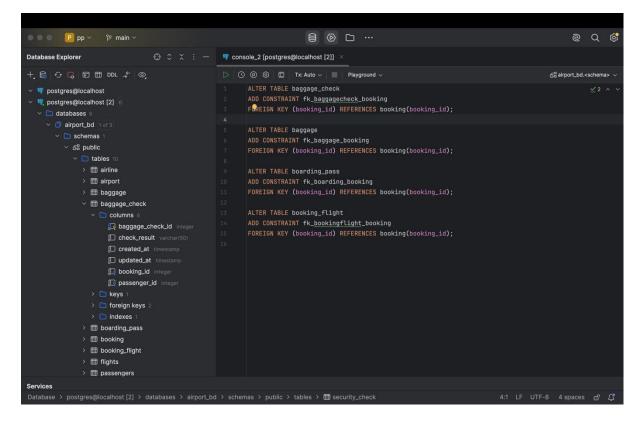
**8.** Drop the column info(varchar(50)) from the airline table.



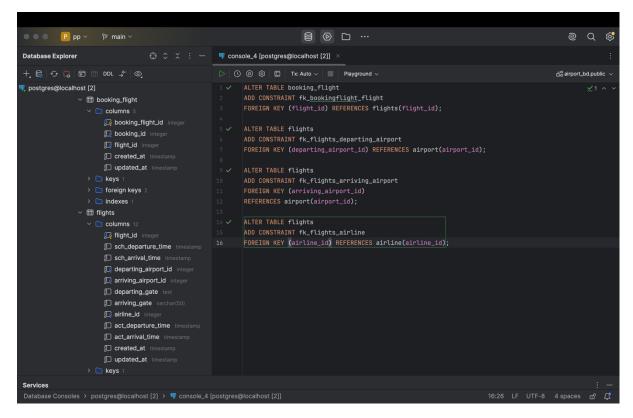
- **9.** Make a relationship between following tables:
- Passengers with Secuitiry\_check, Booking, Baggage\_check by passenger\_id;



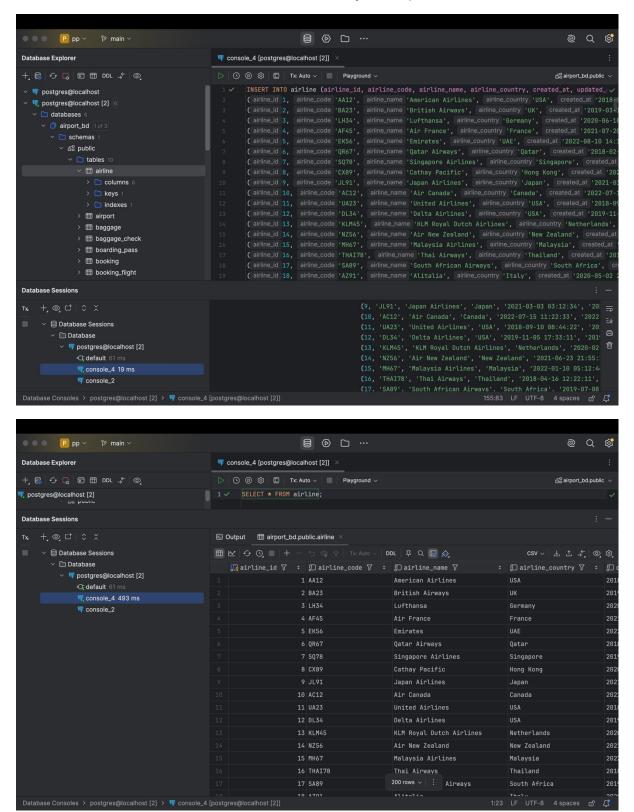
 Booking with Baggage\_check, Baggage, Boarding\_pass, Booking\_flight by booking\_id;



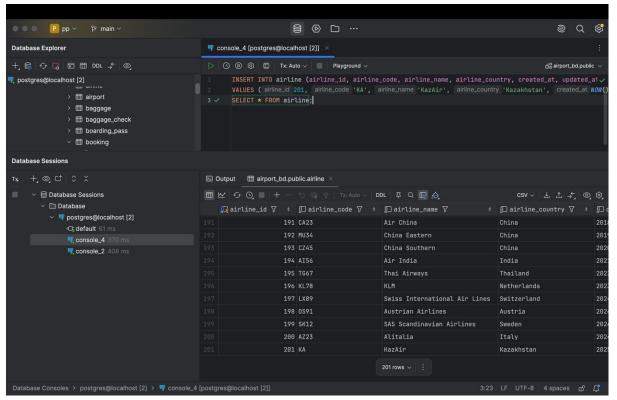
- Flights with Booking\_flight by flight\_id;
- Airport with Flights by departing\_airport\_id;
- Airport with Flights by arriving\_airport\_id;
- Airline with Flights by airline\_id;



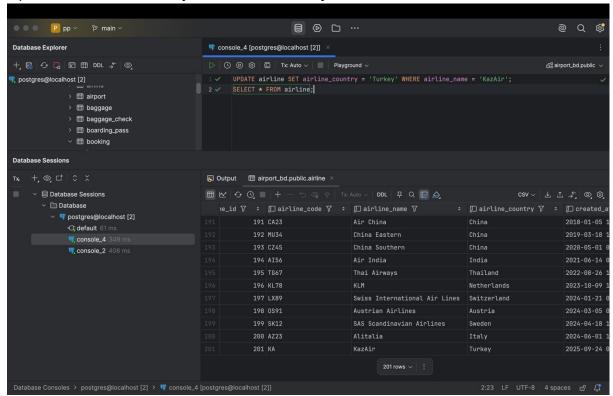
**1.** Generate and insert 200 random rows in your airport database.



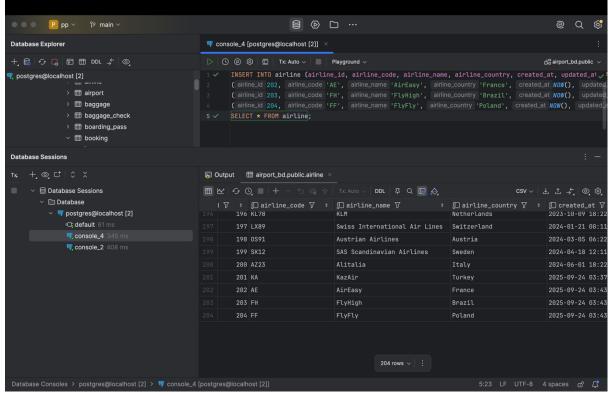
2. Add a new airline named "KazAir" based in "Kazakhstan" to the airline table.



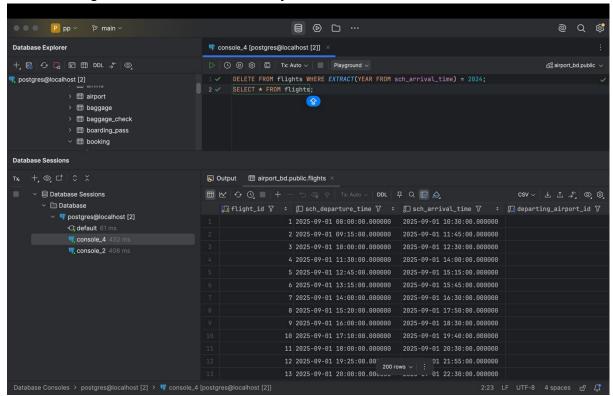
3. Update the airline country "KazAir" to "Turkey".



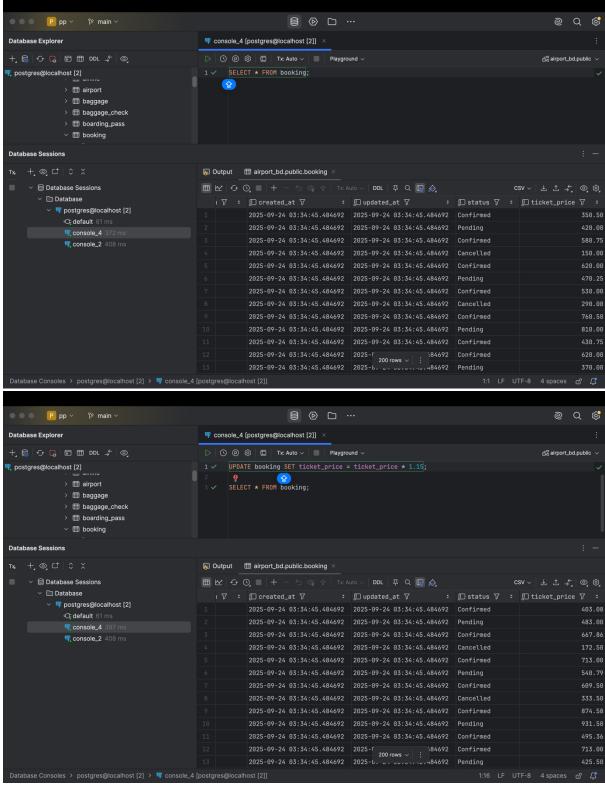
**4.** Add three airlines at once: "AirEasy" in "France", "FlyHigh" in "Brazil" and "FlyFly" in "Poland".



5. Delete all flights whose arrival in 2024 year.



**6.** Increase the price of all tickets in booking table for flights by 15%.



**7.** Delete all tickets where price is less than 10000.

