

Object Explorer

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- Servers (1)
 - PostgreSQL 17
 - Databases (2)
 - BD_Lab2
 - Casts
 - Catalogs
 - Event Triggers
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 - Publications
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 - Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights

BD_Lab2/postgres@PostgreSQL 17*

Query

```
399 (4, 'OK', NOW(), NOW(), 4),
400 (5, 'SECONDARY', NOW(), NOW(), 5);
401
402
403 -- 2
404 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_a
405 VALUES (999, 'KZ99', 'KazAir', 'Kazakhstan', NOW(), NOW());
406
407 -- 3
408 UPDATE airline
409 SET airline_country = 'Turkey'
410 WHERE airline_name = 'KazAir';
411
412 -- 4
413 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_a
414 VALUES
415 (1001, 'FR77', 'AirEasy', 'France', NOW(), NOW()),
416 (1002, 'BR77', 'FlyHigh', 'Brazil', NOW(), NOW()),
417 (1003, 'PL77', 'FlyFly', 'Poland', NOW(), NOW());
418
419 -- 5
420 DELETE FROM flights
421 WHERE EXTRACT(YEAR FROM sch_arrival_time) = 2024;
422
423 -- 6
424 UPDATE booking
425 SET ticket_price = ticket_price * 1.15;
426
427
428 -- 7
429
430 DELETE FROM booking
431 WHERE ticket_price < 10000;
432
433
434
435
```

Query History

Scratch Pad

Total rows: Query complete 00:00:00.054

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 - postgres
 - Login/Group Roles
 - Tablespaces

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 CREATE TABLE Airline_info(  
2     airline_id INT PRIMARY KEY,  
3     airline_code VARCHAR(30) NOT NULL,  
4     airline_name VARCHAR(50) NOT NULL,  
5     airline_country VARCHAR(50) NOT NULL,  
6     created_at TIMESTAMP NOT NULL,  
7     updated_at TIMESTAMP NOT NULL,  
8     info VARCHAR(50) NOT NULL  
9 );  
10  
11 CREATE TABLE Airport (  
12     airport_id INT PRIMARY KEY,  
13     airport_name VARCHAR(50) NOT NULL,  
14     country VARCHAR(50) NOT NULL,  
15     state VARCHAR(50) NOT NULL,  
16     city VARCHAR(50) NOT NULL,  
17     created_at TIMESTAMP NOT NULL,  
18     updated_at TIMESTAMP NOT NULL  
19 );  
20  
21 CREATE TABLE Passengers (  
22     passenger_id INT PRIMARY KEY,  
23     first_name VARCHAR(50) NOT NULL,  
24     last_name VARCHAR(50) NOT NULL,  
25     date_of_birth DATE NOT NULL,  
26     gender VARCHAR(50) NOT NULL,  
27     country_of_citizenship VARCHAR(50) NOT NULL,  
28     country_of_residence VARCHAR(50) NOT NULL,  
29     passport_number VARCHAR(20) NOT NULL,  
30     created_at TIMESTAMP NOT NULL,  
31     updated_at TIMESTAMP NOT NULL  
32 );  
33  
34 CREATE TABLE Flights (  
35     flight_id INT PRIMARY KEY,  
36     sch_departure_time TIMESTAMP NOT NULL,  
37     sch_arrival_time TIMESTAMP NOT NULL
```

Total rows: Query complete 00:00:00.054

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BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
34 CREATE TABLE Flights (  
35     flight_id          INT PRIMARY KEY,  
36     sch_departure_time TIMESTAMP NOT NULL,  
37     sch_arrival_time   TIMESTAMP NOT NULL,  
38     departing_airport_id INT NOT NULL,  
39     arriving_airport_id INT NOT NULL,  
40     departing_gate     VARCHAR(50) NOT NULL,  
41     arriving_gate      VARCHAR(50) NOT NULL,  
42     airline_id         INT NOT NULL,  
43     act_departure_time  TIMESTAMP NOT NULL,  
44     act_arrival_time    TIMESTAMP NOT NULL,  
45     created_at          TIMESTAMP NOT NULL,  
46     updated_at         TIMESTAMP NOT NULL  
47 );  
48  
49 CREATE TABLE Booking (  
50     booking_id      INT PRIMARY KEY,  
51     flight_id       INT NOT NULL,  
52     passenger_id    INT NOT NULL,  
53     booking_platform VARCHAR(50) NOT NULL,  
54     created_at      TIMESTAMP NOT NULL,  
55     updated_at      TIMESTAMP NOT NULL,  
56     status          VARCHAR(50) NOT NULL,  
57     price           DECIMAL(7,2) NOT NULL  
58 );  
59  
60 CREATE TABLE Booking_flight (  
61     booking_flight_id INT PRIMARY KEY,  
62     booking_id        INT NOT NULL,  
63     flight_id         INT NOT NULL,  
64     created_at        TIMESTAMP NOT NULL,  
65     updated_at        TIMESTAMP NOT NULL  
66 );  
67  
68 CREATE TABLE Boarding_pass (  
69     boarding_pass_id INT PRIMARY KEY,  
70     booking_id       INT NOT NULL
```

Total rows: Query complete 00:00:00.054

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BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
66 );
67
68 CREATE TABLE Boarding_pass (
69     boarding_pass_id INT PRIMARY KEY,
70     booking_id INT NOT NULL,
71     seat VARCHAR(50) NOT NULL,
72     boarding_time TIMESTAMP NOT NULL,
73     created_at TIMESTAMP NOT NULL,
74     updated_at TIMESTAMP NOT NULL
75 );
76
77 CREATE TABLE Baggage (
78     baggage_id INT PRIMARY KEY,
79     weight_in_kg DECIMAL(4,2) NOT NULL,
80     created_at TIMESTAMP NOT NULL,
81     updated_at TIMESTAMP NOT NULL,
82     booking_id INT NOT NULL
83 );
84
85 CREATE TABLE Baggage_check (
86     baggage_check_id INT PRIMARY KEY,
87     check_result VARCHAR(50) NOT NULL,
88     created_at TIMESTAMP NOT NULL,
89     updated_at TIMESTAMP NOT NULL,
90     booking_id INT NOT NULL,
91     passenger_id INT NOT NULL
92 );
93
94
95 CREATE TABLE Security_check (
96     security_check_id INT PRIMARY KEY,
97     check_result VARCHAR(20) NOT NULL,
98     created_at TIMESTAMP NOT NULL,
99     updated_at TIMESTAMP NOT NULL,
100     passenger_id INT NOT NULL
101 );
102
```

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Query

```
104 ALTER TABLE airline_info RENAME TO airline;
105 ALTER TABLE booking RENAME COLUMN price TO ticket_price;
106 ALTER TABLE flights ALTER COLUMN departing_gate TYPE TEXT;
107 ALTER TABLE airline DROP COLUMN info;
108
109 -- 9.1
110
111 ALTER TABLE security_check
112     ADD CONSTRAINT fk_sec_passenger
113     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
114
115 ALTER TABLE booking
116     ADD CONSTRAINT fk_booking_passenger
117     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
118
119 ALTER TABLE baggage_check
120     ADD CONSTRAINT fk_bagchk_passenger
121     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
122
123 -- 9.2
124
125 ALTER TABLE baggage_check
126     ADD CONSTRAINT fk_bagchk_booking
127     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
128
129 ALTER TABLE baggage
130     ADD CONSTRAINT fk_baggage_booking
131     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
132
133 ALTER TABLE boarding_pass
134     ADD CONSTRAINT fk_boarding_booking
135     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
136
137 ALTER TABLE booking_flight
138     ADD CONSTRAINT fk_bookingflight_booking
139     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
140
```

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Query

```
139 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
140
141 -- 9.3
142 ALTER TABLE booking_flight
143 ADD CONSTRAINT fk_bookingflight_flight
144 FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
145
146 -- 9.4
147 ALTER TABLE flights
148 ADD CONSTRAINT fk_flights_airport_depart
149 FOREIGN KEY (departing_airport_id) REFERENCES airport(airport_id);
150
151 ALTER TABLE flights
152 ADD CONSTRAINT fk_flights_airport_arrive
153 FOREIGN KEY (arriving_airport_id) REFERENCES airport(airport_id);
154
155 -- 9.5
156 ALTER TABLE flights
157 ADD CONSTRAINT fk_flights_airline
158 FOREIGN KEY (airline_id) REFERENCES airline(airline_id);
159
160 -- 9.6
161 ALTER TABLE booking
162 ADD CONSTRAINT fk_booking_flight
163 FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
164
165 -- DML
166
167 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_a
168 (1, 'KZ01', 'KazAir', 'Kazakhstan', NOW(), NOW()),
169 (2, 'FR01', 'AirFrance', 'France', NOW(), NOW()),
170 (3, 'BR01', 'FlyBrazil', 'Brazil', NOW(), NOW()),
171 (4, 'PL01', 'PolAir', 'Poland', NOW(), NOW()),
172 (5, 'TR01', 'TurkishWings', 'Turkey', NOW(), NOW()),
173 (6, 'US01', 'USAir', 'USA', NOW(), NOW()),
174 (7, 'DE01', 'Lufthansa', 'Germany', NOW(), NOW()),
175 (8, 'GB01', 'BritishFly', 'UK', NOW(), NOW()),
```

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