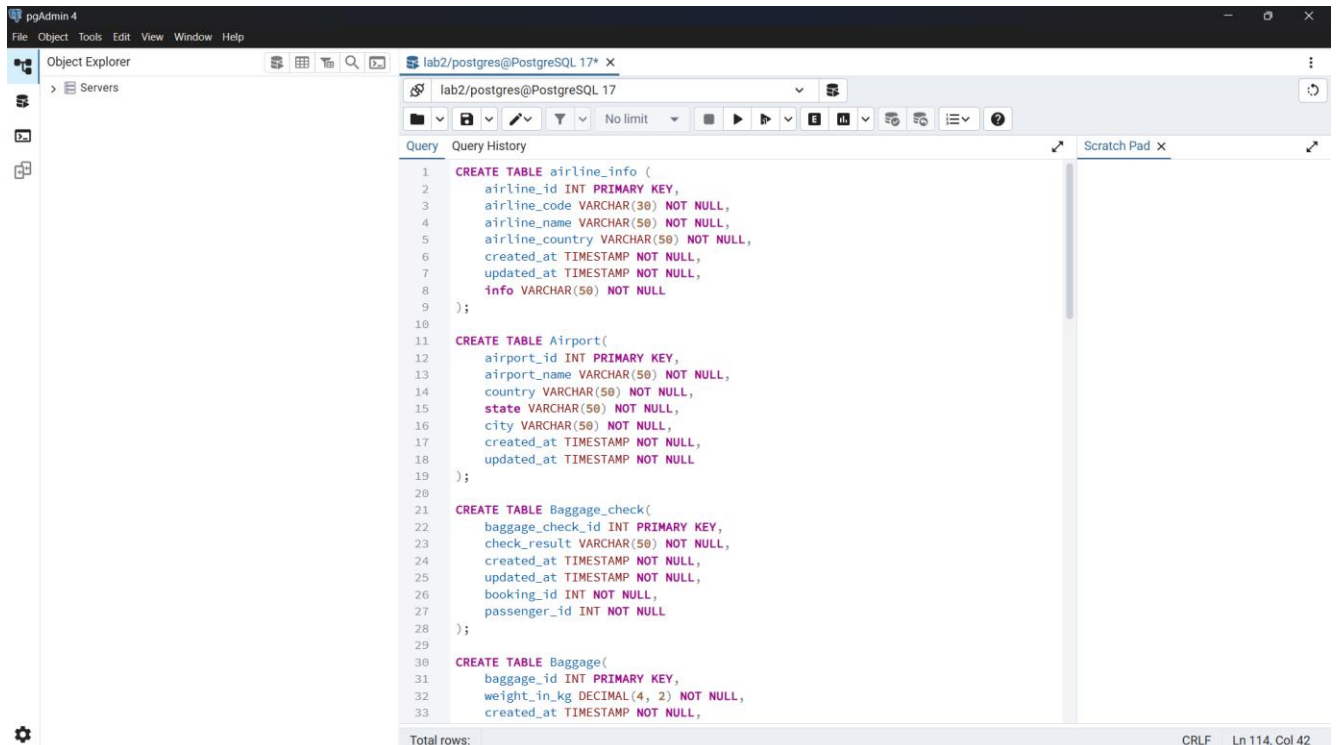


# DDL

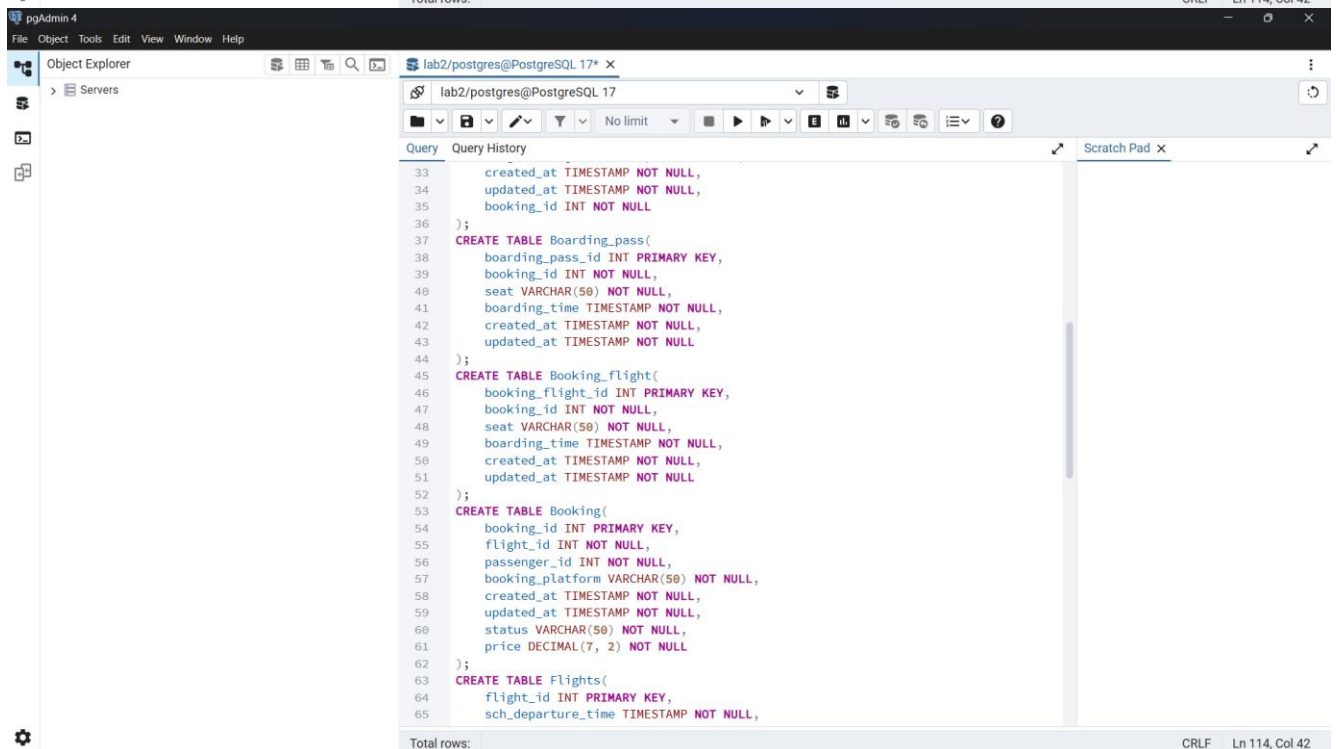


pgAdmin 4

lab2/postgres@PostgreSQL 17\*

```
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 Baggage_check(  
22     baggage_check_id INT PRIMARY KEY,  
23     check_result VARCHAR(50) NOT NULL,  
24     created_at TIMESTAMP NOT NULL,  
25     updated_at TIMESTAMP NOT NULL,  
26     booking_id INT NOT NULL,  
27     passenger_id INT NOT NULL  
28 );  
29  
30 CREATE TABLE Baggage(  
31     baggage_id INT PRIMARY KEY,  
32     weight_in_kg DECIMAL(4, 2) NOT NULL,  
33     created_at TIMESTAMP NOT NULL,
```

Total rows: CRLF Ln 114, Col 42

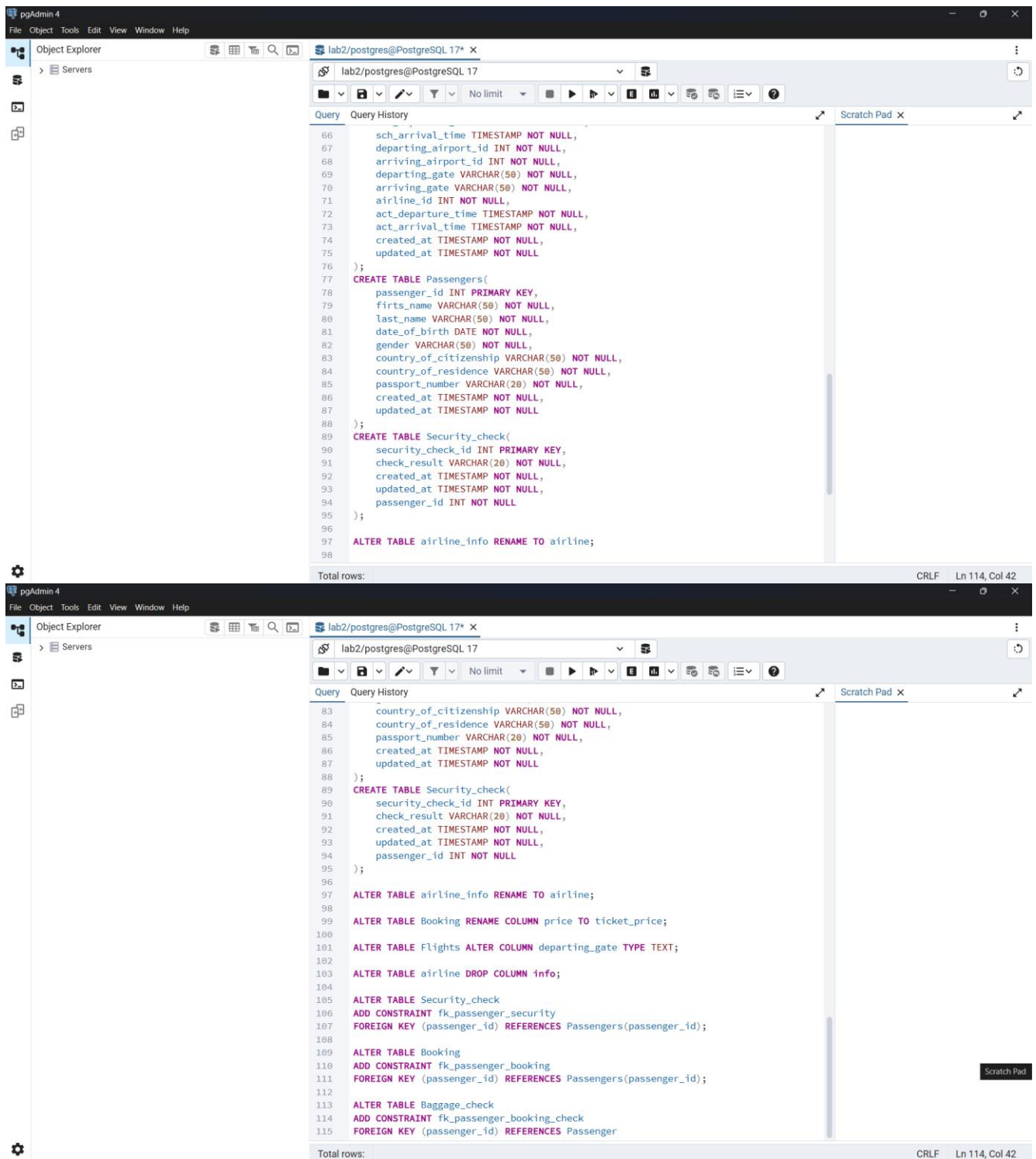


pgAdmin 4

lab2/postgres@PostgreSQL 17\*

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

Total rows: CRLF Ln 114, Col 42



# DML

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lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 COPY Airport(airport_id, airport_name, country, state, city, created_at, updated_at)
2 FROM 'C:/airports.csv'
3 DELIMITER ';'
4 CSV HEADER;
5
6 SELECT * FROM Airport
7 LIMIT 10;
8
```

Scratch Pad x

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 10 Page No: 1 of 1

airport_id	airport_name	country	state	city	created_at	updated_at
1	Airport_1	Country_1	State_1	City_1	2025-09-23 18:37:35	2025-09-23 18:37:35
2	Airport_2	Country_3	State_3	City_2	2025-09-23 18:37:35	2025-09-23 18:37:35
3	Airport_3	Country_4	State_4	City_3	2025-09-23 18:37:35	2025-09-23 18:37:35
4	Airport_4	Country_5	State_5	City_4	2025-09-23 18:37:35	2025-09-23 18:37:35
5	Airport_5	Country_6	State_6	City_5	2025-09-23 18:37:35	2025-09-23 18:37:35
6	Airport_6	Country_7	State_7	City_6	2025-09-23 18:37:35	2025-09-23 18:37:35
7	Airport_7	Country_8	State_8	City_7	2025-09-23 18:37:35	2025-09-23 18:37:35
8	Airport_8	Country_9	State_9	City_8	2025-09-23 18:37:35	2025-09-23 18:37:35
9	Airport_9	Country_10	State_10	City_9	2025-09-23 18:37:35	2025-09-23 18:37:35
10	Airport_10	Country_11	State_11	City_10	2025-09-23 18:37:35	2025-09-23 18:37:35

Total rows: 10 Query complete 00:00:00.068 LF Ln 4, Col 12

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File Object Tools Edit View Window Help

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    - baggage
    - baggage\_check
    - boarding\_pass
    - booking

lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
2 VALUES (1, 'KZ001', 'KazAir', 'Kazakhstan', NOW(), NOW());
3
4 SELECT * FROM airline;
```

Scratch Pad x

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1

airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	KZ001	KazAir	Kazakhstan	2025-09-24 00:14:29.241882	2025-09-24 00:14:29.241882

Total rows: 1 Query complete 00:00:00.084 LF Ln 4, Col 1

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lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 UPDATE airline
2 SET airline_country = 'Turkey',
3     updated_at = NOW()
4 WHERE airline_name = 'KazAir';
5
6
7 SELECT * FROM airline;
```

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	1	KZ001	KazAir	Turkey	2025-09-24 00:14:29.241882	2025-09-24 00:15:29.69134

Total rows: 1 Query complete 00:00:00.049 LF Ln 7, Col 23

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    - airport
    - baggage
    - baggage\_check
    - boarding\_pass
    - booking

lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
2 VALUES
3 (2, 'FR001', 'AirEasy', 'France', NOW(), NOW()),
4 (3, 'BR001', 'FlyHigh', 'Brazil', NOW(), NOW()),
5 (4, 'PL001', 'FlyFly', 'Poland', NOW(), NOW());
6
7
8 SELECT * FROM airline;
```

Data Output Messages Notifications

Showing rows: 1 to 4 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	1	KZ001	KazAir	Turkey	2025-09-24 00:14:29.241882	2025-09-24 00:15:29.69134
2	2	FR001	AirEasy	France	2025-09-24 00:16:00.605389	2025-09-24 00:16:00.605389
3	3	BR001	FlyHigh	Brazil	2025-09-24 00:16:00.605389	2025-09-24 00:16:00.605389
4	4	PL001	FlyFly	Poland	2025-09-24 00:16:00.605389	2025-09-24 00:16:00.605389

Successfully run. Total query runtime: 50 msec. 4 rows affected. X

Total rows: 4 Query complete 00:00:00.050 LF Ln 6, Col 1

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lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 DELETE FROM Flights
2 WHERE EXTRACT(YEAR FROM sch_arrival_time) = 2024
3 OR EXTRACT(YEAR FROM act_arrival_time) = 2024;
4
5
6
7 SELECT * FROM Flights;
```

Execute script (F5)

Data Output Messages Notifications

flight_id	sch_departure_time	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline_id
[PK] integer	timestamp without time zone	timestamp without time zone	integer	integer	text	character varying (50)	integer

Successfully run. Total query runtime: 53 msec. 0 rows affected.

Total rows: 0 Query complete 00:00:00.053 LF Ln 7, Col 23

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        - airline\_country
        - created\_at
        - updated\_at
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    - airport
    - baggage
    - baggage\_check
    - boarding\_pass
    - booking

lab2.sql\* x

lab2/postgres@PostgreSQL 17

Query Query History

```
1 UPDATE Booking
2 SET ticket_price = ticket_price * 1.15,
3     updated_at = NOW();
4
5
6 SELECT * FROM Booking;
```

Data Output Messages Notifications

booking_id	flight_id	passenger_id	booking_platform	created_at	updated_at	status	ticket_price
[PK] integer	integer	integer	character varying (50)	timestamp without time zone	timestamp without time zone	character varying (50)	numeric (7,2)

Successfully run. Total query runtime: 67 msec. 0 rows affected.

Total rows: 0 Query complete 00:00:00.067 LF Ln 1, Col 1

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lab2.sql\*

lab2/postgres@PostgreSQL 17

Query Query History

```
1 DELETE FROM Booking
2 WHERE ticket_price < 10000;
3
4
5 SELECT * FROM Booking;
```

Scratch Pad

Data Output Messages Notifications

booking_id	flight_id	passenger_id	booking_platform	created_at	updated_at	status	ticket_price
[PK] Integer	Integer	Integer	character varying (50)	timestamp without time zone	timestamp without time zone	character varying (50)	numeric (7,2)

Successfully run. Total query runtime: 51 msec. 0 rows affected.

Total rows: 0 Query complete 00:00:00.051 LF Ln 5, Col 22