

# DDL

1,2,4

pgAdmin 4

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
1 create table airline_info(  
2 airline_id integer 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 integer 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 TIMESTAMPT NOT NULL,  
18 updated_at TIMESTAMPT NOT NULL  
19 );  
20  
21 create table baggage_check (  
22 baggage_check_id integer PRIMARY KEY,  
23 check_result varchar(50) NOT NULL,  
24 created_at timestamp NOT NULL,  
25 updated_at timestamp NOT NULL,  
26 booking_id integer NOT NULL,  
27 passenger_id integer NOT NULL  
28 );  
29  
30 CREATE TABLE Baggage(  
31 baggage_id integer PRIMARY KEY,  
32 weight_in_kg DECIMAL(4,2) NOT NULL,  
33 created_at TIMESTAMPT NOT NULL,  
34 updated_at TIMESTAMPT NOT NULL,  
35 booking_id integer NOT NULL  
36 );  
37  
38 create table boarding_pass(  
39 boarding_pass_id integer PRIMARY KEY,  
40 booking_id integer NOT NULL,  
41 seat varchar(50) NOT NULL,  
42 boarding_time timestamp NOT NULL,  
43 created_at timestamp NOT NULL,  
44 updated_at timestamp NOT NULL  
45 );  
46  
47 CREATE TABLE booking_flight(  
48 booking_flight_id integer PRIMARY KEY,  
49 booking_id integer NOT NULL,  
50 flight_id integer NOT NULL,  
51 created_at timestamp NOT NULL,  
52 updated_at timestamp NOT NULL  
53 );  
54  
55 CREATE TABLE booking (  
56 booking_id integer PRIMARY KEY,  
57 flight_id integer NOT NULL,  
58 passenger_id integer NOT NULL,  
59 booking_platform varchar(50) NOT NULL,  
60 created_at timestamp NOT NULL,  
61 updated_at timestamp NOT NULL  
62 );
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.048 CRLF

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
30 CREATE TABLE Baggage(  
31 baggage_id integer PRIMARY KEY,  
32 weight_in_kg DECIMAL(4,2) NOT NULL,  
33 created_at TIMESTAMPT NOT NULL,  
34 updated_at TIMESTAMPT NOT NULL,  
35 booking_id integer NOT NULL  
36 );  
37  
38 create table boarding_pass(  
39 boarding_pass_id integer PRIMARY KEY,  
40 booking_id integer NOT NULL,  
41 seat varchar(50) NOT NULL,  
42 boarding_time timestamp NOT NULL,  
43 created_at timestamp NOT NULL,  
44 updated_at timestamp NOT NULL  
45 );  
46  
47 CREATE TABLE booking_flight(  
48 booking_flight_id integer PRIMARY KEY,  
49 booking_id integer NOT NULL,  
50 flight_id integer NOT NULL,  
51 created_at timestamp NOT NULL,  
52 updated_at timestamp NOT NULL  
53 );  
54  
55 CREATE TABLE booking (  
56 booking_id integer PRIMARY KEY,  
57 flight_id integer NOT NULL,  
58 passenger_id integer NOT NULL,  
59 booking_platform varchar(50) NOT NULL,  
60 created_at timestamp NOT NULL,  
61 updated_at timestamp NOT NULL  
62 );
```

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Total rows: Query complete 00:00:00.048 CRLF

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postgres/postgres@PostgreSQL 17\* X

postgres/postgres@PostgreSQL 17

Query Query History

```
55 CREATE TABLE booking (
56   booking_id integer PRIMARY KEY,
57   flight_id integer NOT NULL,
58   passenger_id integer NOT NULL,
59   booking_platform varchar(50) NOT NULL,
60   created_at timestamp NOT NULL,
61   updated_at timestamp NOT NULL,
62   status varchar(50) NOT NULL,
63   price decimal(7,2) NOT NULL
64 );
65
66 create table flights(
67   flight_id integer PRIMARY KEY,
68   sch_departure_time timestamp NOT NULL,
69   sch_arrival_time timestamp NOT NULL,
70   departing_airport_id integer NOT NULL,
71   arriving_airport_id integer NOT NULL,
72   departing_gate varchar(50) NOT NULL,
73   arriving_gate varchar(50) NOT NULL,
74   airline_id integer NOT NULL,
75   act_departure_time timestamp NOT NULL,
76   act_arrival_time timestamp NOT NULL,
77   created_at timestamp NOT NULL,
78   updated_at timestamp NOT NULL
79 );
80
81 CREATE TABLE passengers(
82   passenger_id integer PRIMARY KEY,
83   first_name varchar(50) NOT NULL,
84   last_name varchar(50) NOT NULL,
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.048 CRLF

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postgres/postgres@PostgreSQL 17\* X

postgres/postgres@PostgreSQL 17

Query Query History

```
71   arriving_airport_id integer NOT NULL,
72   departing_gate varchar(50) NOT NULL,
73   arriving_gate varchar(50) NOT NULL,
74   airline_id integer NOT NULL,
75   act_departure_time timestamp NOT NULL,
76   act_arrival_time timestamp NOT NULL,
77   created_at timestamp NOT NULL,
78   updated_at timestamp NOT NULL
79 );
80
81 CREATE TABLE passengers(
82   passenger_id integer PRIMARY KEY,
83   first_name varchar(50) NOT NULL,
84   last_name varchar(50) NOT NULL,
85   date_of_birth date NOT NULL,
86   gender varchar(50) NOT NULL,
87   country_of_citizenship varchar(50) NOT NULL,
88   country_of_residence varchar(50) NOT NULL,
89   passport_number varchar(20) NOT NULL,
90   created_at timestamp NOT NULL,
91   updated_at timestamp NOT NULL
92 );
93
94 create table security_check(
95   security_check_id integer PRIMARY KEY,
96   check_result varchar(20) NOT NULL,
97   created_at timestamp NOT NULL,
98   updated_at timestamp NOT NULL,
99   passenger_id integer NOT NULL
100 );
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.048 CRLF

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
1 ALTER TABLE airline_info RENAME TO airline;
2
3 SELECT * FROM airline;
```

Data Output Messages Notifications

airline_id	airline_code	airline_name	airline_country	created_at	updated_at	info
integer	character varying (30)	character varying (50)	character varying (50)	timestamp without time zone	timestamp without time zone	character varying (50)

Total rows: 0 Query complete 00:00:00.121 CRLF Ln 3

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
1 ALTER TABLE booking RENAME COLUMN price to ticket_price;
2 SELECT * FROM booking;
```

Data Output Messages Notifications

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

Total rows: 0 Query complete 00:00:00.085 CRLF Ln

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
1 ALTER TABLE flights RENAME COLUMN departing_gate TO TEXT;  
2 SELECT * FROM flights;
```

Scratch Pad

Data Output Messages Notifications

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

Total rows: 0 Query complete 00:00:00.063 CRLF Ln 1, Co

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postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

Query Query History

```
1 ALTER TABLE airline DROP info;  
2 SELECT * FROM airline;
```

Scratch Pad

Data Output Messages Notifications

airline_id	airline_code	airline_name	airline_country	created_at	updated_at
integer	character varying (30)	character varying (50)	character varying (50)	timestamp without time zone	timestamp without time zone

Total rows: 0 Query complete 00:00:00.063 CRLF

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postgres/postgres@PostgreSQL 17\* x

postgres/postgres@PostgreSQL 17

Query Query History

```
1 ALTER TABLE security_check
2 ADD CONSTRAINT fk_secure_to_pass
3 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
4
5 ALTER TABLE booking
6 ADD CONSTRAINT fk_booking_to_pass
7 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
8
9 ALTER TABLE baggage_check
10 ADD CONSTRAINT fk_baggagheck_to_pas
11 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
12
13 ALTER TABLE baggage_check
14 ADD CONSTRAINT fk_baggagheck_to_booking
15 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
16
17 ALTER TABLE baggage
18 ADD CONSTRAINT fk_baggage_to_bookin
19 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
20
21 ALTER TABLE boarding_pass
22 ADD CONSTRAINT fk_boardingpass_to_booking
23 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
24
25 ALTER TABLE booking_flight
26 ADD CONSTRAINT fk_bookingflight_booking
27 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
28
29 ALTER TABLE booking_flight
30 ADD CONSTRAINT fk_bookingflight_flight
31 FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
```

Total rows: 0 Query complete 00:00:00.053

Scratch Pad x

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postgres/postgres@PostgreSQL 17\* x

postgres/postgres@PostgreSQL 17

Query Query History

```
13 ALTER TABLE baggage_check
14 ADD CONSTRAINT fk_baggagheck_to_booking
15 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
16
17 ALTER TABLE baggage
18 ADD CONSTRAINT fk_baggage_to_bookin
19 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
20
21 ALTER TABLE boarding_pass
22 ADD CONSTRAINT fk_boardingpass_to_booking
23 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
24
25 ALTER TABLE booking_flight
26 ADD CONSTRAINT fk_bookingflight_booking
27 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
28
29 ALTER TABLE booking_flight
30 ADD CONSTRAINT fk_bookingflight_flight
31 FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
32
33 ALTER TABLE flights
34 ADD CONSTRAINT fk_flights_departing_airport
35 FOREIGN KEY (departing_airport_id) REFERENCES airport(airport_id);
36
37 ALTER TABLE flights
38 ADD CONSTRAINT fk_flights_arriving_airport
39 FOREIGN KEY (arriving_airport_id) REFERENCES airport(airport_id);
40
41 ALTER TABLE flights
42 ADD CONSTRAINT fk_flights_airline
43 FOREIGN KEY (airline_id) REFERENCES airline(airline_id);
```

Total rows: 0 Query complete 00:00:00.053

Scratch Pad x

# DML

1

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' pane shows a tree view of the database schema, with 'Tables (10)' expanded. The main query editor on the right contains the following SQL code:

```
1 WITH countries AS (  
2     SELECT unnest(ARRAY[  
3         'Kazakhstan', 'USA', 'UK', 'Germany', 'France', 'Turkey', 'Brazil', 'Poland',  
4         'Italy', 'Spain', 'Canada', 'UAE', 'Qatar', 'Japan', 'Korea', 'China', 'India',  
5         'Russia', 'Australia', 'Netherlands'  
6     ]) AS country  
7 ),  
8 states AS (  
9     SELECT unnest(ARRAY['State A', 'State B', 'State C', 'State D', 'State E',  
10        'State F', 'State G', 'State H', 'State I', 'State J']) AS state  
11 ),  
12 cities AS (  
13     SELECT unnest(ARRAY[  
14         'Almaty', 'Astana', 'Atyrau', 'Shymkent', 'Aktobe', 'Pavlodar', 'Oskemen',  
15         'Kostanay', 'Karaganda', 'Taraz', 'Paris', 'Berlin', 'Warsaw', 'Istanbul',  
16         'Ankara', 'Milan', 'Rome', 'Madrid', 'Doha', 'Dubai'  
17     ]) AS city  
18 )  
19 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at)  
20 SELECT  
21     'Airport ' || gs::text,  
22     (SELECT country FROM countries ORDER BY random() LIMIT 1),  
23     (SELECT state FROM states ORDER BY random() LIMIT 1),  
24     (SELECT city FROM cities ORDER BY random() LIMIT 1),  
25     now(), now()
```

Below the query editor, the 'Data Output' tab shows the message: 'INSERT 0 200'. The 'Messages' tab shows: 'Query returned successfully in 55 msec.' The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.055'.

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pgAdmin 4

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postgres/postgres@PostgreSQL 17\* x

postgres/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO airline (airline_code, airline_name, airline_country, created_at, updated_at)
2 VALUES ('KZK','KazAir','Kazakhstan', now(), now());
```

Scratch Pad x

Data Output Messages Notifications

INSERT 0 1

Query returned successfully in 50 msec.

Total rows: Query complete 00:00:00.050 CRLF

3

pgAdmin 4

File Object Tools Edit View Window Help

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postgres/postgres@PostgreSQL 17\* x

postgres/postgres@PostgreSQL 17

Query Query History

```
1 UPDATE airline
2 SET airline_country = 'Turkey',
3     updated_at = now()
4 WHERE airline_name = 'KazAir';
```

Scratch Pad x

Data Output Messages Notifications

UPDATE 1

Query returned successfully in 66 msec.

Total rows: Query complete 00:00:00.066 CRLF

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postgres/postgres@PostgreSQL 17\* X

postgres/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO airline (airline_code, airline_name, airline_country, created_at, updated_at)
2 VALUES
3 ('EZF','AirEasy','France', now(), now()),
4 ('FLH','FlyHigh','Brazil', now(), now()),
5 ('FLY','FlyFly','Poland', now(), now());
```

Data Output Messages Notifications

INSERT 0 3

Query returned successfully in 58 msec.

Total rows: Query complete 00:00:00.058 CRLF

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postgres/postgres@PostgreSQL 17\* X

postgres/postgres@PostgreSQL 17

Query Query History

```
1 DELETE FROM flights
2 WHERE sch_arrival_time >= TIMESTAMP '2024-01-01'
3 AND sch_arrival_time < TIMESTAMP '2025-01-01';
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.045 CRLF

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postgres/postgres@PostgreSQL 17\* X

postgres/postgres@PostgreSQL 17

Query Query History

```
1 UPDATE booking
2 SET ticket_price = ROUND(ticket_price * 1.15, 2),
3    updated_at = now();
```

Data Output Messages Notifications

UPDATE 0

Query returned successfully in 70 msec.

Total rows: Query complete 00:00:00.070 CRLF

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postgres/postgres@PostgreSQL 17

Query Query History

```
1 DELETE FROM booking
2 WHERE ticket_price < 10000;
```

Data Output Messages Notifications

DELETE 0

Query returned successfully in 48 msec.

Total rows: Query complete 00:00:00.048 CRLF