

DDL

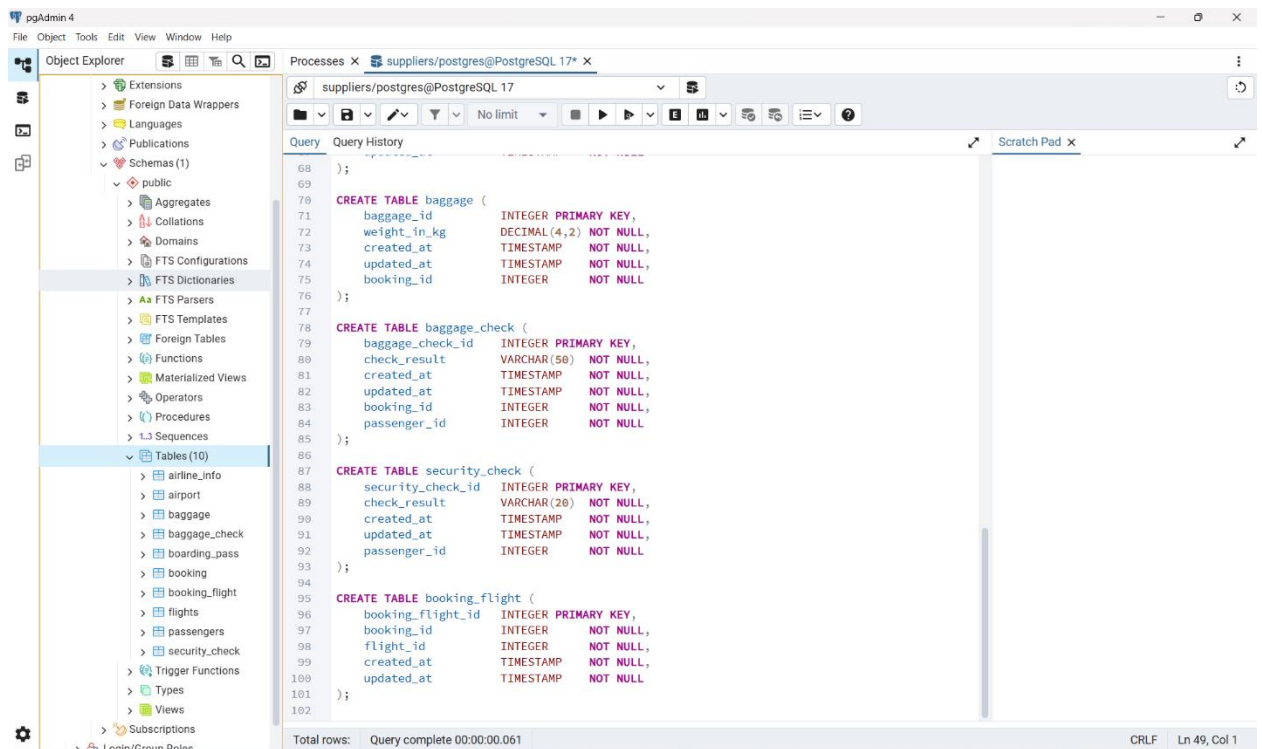
1, 2, 4

The screenshot shows the pgAdmin 4 interface with the 'Query' tab selected. The 'Query History' pane displays three SQL queries for creating tables in the 'public' schema. The 'Object Explorer' on the left shows the 'Tables (10)' folder expanded, listing the tables created by the queries: airline_info, airport, baggage, baggage_check, boarding_pass, booking, booking_flight, flights, passengers, security_check, and types. The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.061'.

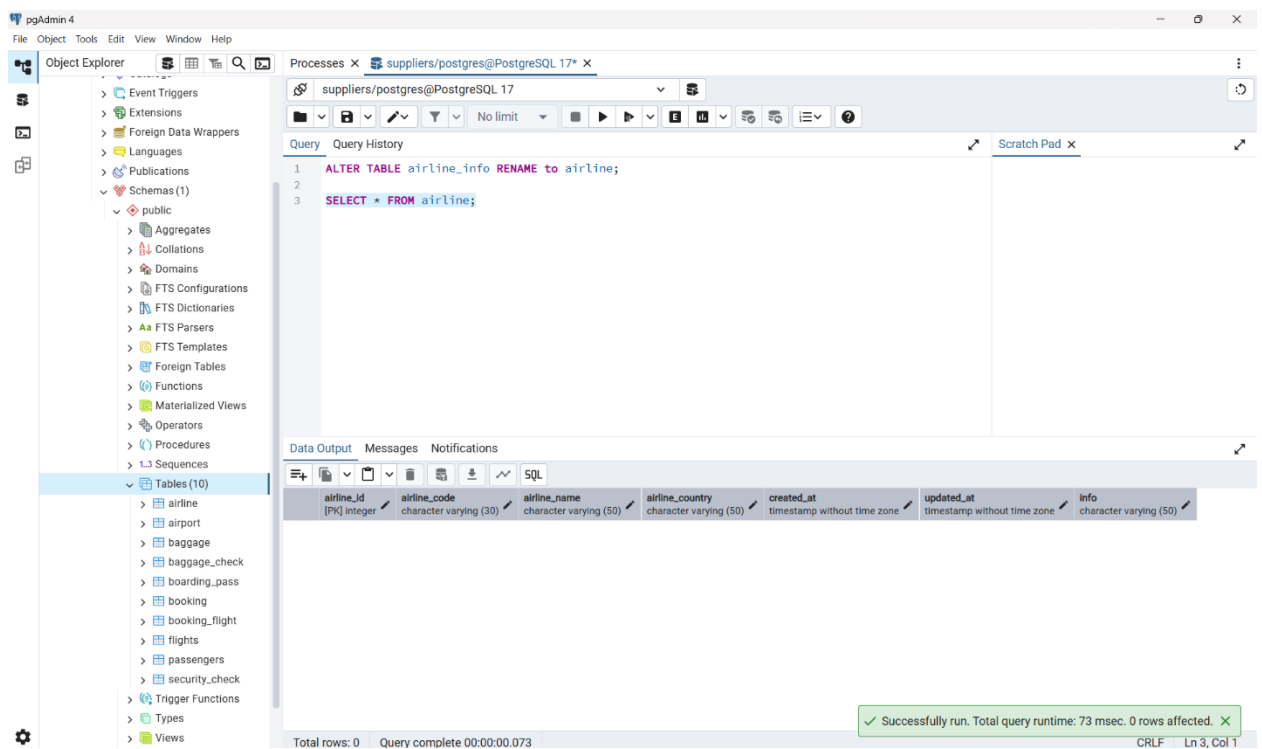
```
1 CREATE TABLE airline_info (  
2     airline_id      INTEGER PRIMARY KEY,  
3     airline_code    VARCHAR(30) NOT NULL,  
4     airline_name     VARCHAR(50) NOT NULL,  
5     airline_country  VARCHAR(50) NOT NULL,  
6     created_at       TIMESTAMP NOT NULL,  
7     updated_at       TIMESTAMP NOT NULL,  
8     info            VARCHAR(50) NOT NULL  
9 );  
10  
11  
12 CREATE TABLE airport (  
13     airport_id      INTEGER PRIMARY KEY,  
14     airport_name     VARCHAR(50) NOT NULL,  
15     country         VARCHAR(50) NOT NULL,  
16     state           VARCHAR(50) NOT NULL,  
17     city            VARCHAR(50) NOT NULL,  
18     created_at       TIMESTAMP NOT NULL,  
19     updated_at       TIMESTAMP NOT NULL  
20 );  
21  
22 CREATE TABLE passengers (  
23     passenger_id     INTEGER PRIMARY KEY,  
24     first_name       VARCHAR(50) NOT NULL,  
25     last_name        VARCHAR(50) NOT NULL,  
26     date_of_birth    DATE NOT NULL,  
27     gender           VARCHAR(50) NOT NULL,  
28     country_of_citizenship VARCHAR(50) NOT NULL,  
29     country_of_residence VARCHAR(50) NOT NULL,  
30     passport_number  VARCHAR(20) NOT NULL,  
31     created_at       TIMESTAMP NOT NULL,  
32     updated_at       TIMESTAMP NOT NULL  
33 );  
34  
35 CREATE TABLE flights (  
36     flight_id        INTEGER PRIMARY KEY,  
37     sch_departure_time TIMESTAMP NOT NULL,  
38     sch_arrival_time  TIMESTAMP NOT NULL,  
39     departing_airport_id INTEGER NOT NULL,  
40     arriving_airport_id INTEGER NOT NULL,  
41     departing_gate    VARCHAR(50) NOT NULL,  
42     arriving_gate     VARCHAR(50) NOT NULL,  
43     airline_id        INTEGER NOT NULL,  
44     act_departure_time TIMESTAMP NOT NULL,  
45     act_arrival_time  TIMESTAMP NOT NULL,  
46     created_at        TIMESTAMP NOT NULL,  
47     updated_at        TIMESTAMP NOT NULL  
48 );  
49  
50 CREATE TABLE booking (  
51     booking_id       INTEGER PRIMARY KEY,  
52     flight_id        INTEGER NOT NULL,  
53     passenger_id     INTEGER NOT NULL,  
54     booking_platform  VARCHAR(50) NOT NULL,  
55     created_at        TIMESTAMP NOT NULL,  
56     updated_at        TIMESTAMP NOT NULL,  
57     status           VARCHAR(50) NOT NULL,  
58     price            DECIMAL(7,2) NOT NULL  
59 );  
60  
61 CREATE TABLE boarding_pass (  
62     boarding_pass_id INTEGER PRIMARY KEY,  
63     booking_id       INTEGER NOT NULL,  
64     seat            VARCHAR(50) NOT NULL,  
65     boarding_time    TIMESTAMP NOT NULL,  
66     created_at       TIMESTAMP NOT NULL,  
67     updated_at       TIMESTAMP NOT NULL  
68 );  
69  
70
```

The screenshot shows the pgAdmin 4 interface with the 'Query' tab selected. The 'Query History' pane displays three SQL queries for creating tables in the 'public' schema. The 'Object Explorer' on the left shows the 'Tables (10)' folder expanded, listing the tables created by the queries: airline_info, airport, baggage, baggage_check, boarding_pass, booking, booking_flight, flights, passengers, security_check, and types. The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.061'.

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



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pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query Query History

```

1 ALTER TABLE booking RENAME COLUMN price TO ticket_price;
2 SELECT * FROM booking;
3

```

Scratch Pad X

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: 105 msec. 0 rows affected. X

Total rows: 0 Query complete 00:00:00.105 CRLF Ln 2, Col 1

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query Query History

```

1 ALTER TABLE flights ALTER COLUMN departing_gate TYPE TEXT;
2 SELECT * FROM flights;
3

```

Scratch Pad X

Data Output Messages Notifications

al_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline_id	act_departure_time	act_arrival_time
timestamp without time zone	integer	integer	text	character varying (50)	integer	timestamp without time zone	timestamp without time zone

Total rows: 0 Query complete 00:00:00.096 CRLF Ln 2, Col 22

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Processes x suppliers/postgres@PostgreSQL 17* x

suppliers/postgres@PostgreSQL 17

Query

```
1 ALTER TABLE airline DROP info;  
2 SELECT * FROM airline;  
3
```

Execute script (F5)

Query History

Scratch Pad

Data Output Messages Notifications

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

Total rows: 0 Query complete 00:00:00.083

Successfully run. Total query runtime: 83 m
CRLF Ln 2, Col 22

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Processes x suppliers/postgres@PostgreSQL 17* x

suppliers/postgres@PostgreSQL 17

Query

```
1 ALTER TABLE security_check  
2 ADD CONSTRAINT fk_security_check_passenger  
3 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);  
4  
5 ALTER TABLE booking  
6 ADD CONSTRAINT fk_booking_passenger  
7 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);  
8  
9 ALTER TABLE baggage_check  
10 ADD CONSTRAINT fk_baggage_check_passenger  
11 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);  
12  
13 ALTER TABLE baggage_check  
14 ADD CONSTRAINT fk_baggage_check_booking  
15 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);  
16  
17 ALTER TABLE baggage  
18 ADD CONSTRAINT fk_baggage_booking  
19 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);  
20  
21 ALTER TABLE boarding_pass  
22 ADD CONSTRAINT fk_boarding_pass_booking  
23 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);  
24  
25
```

Query History

Scratch Pad

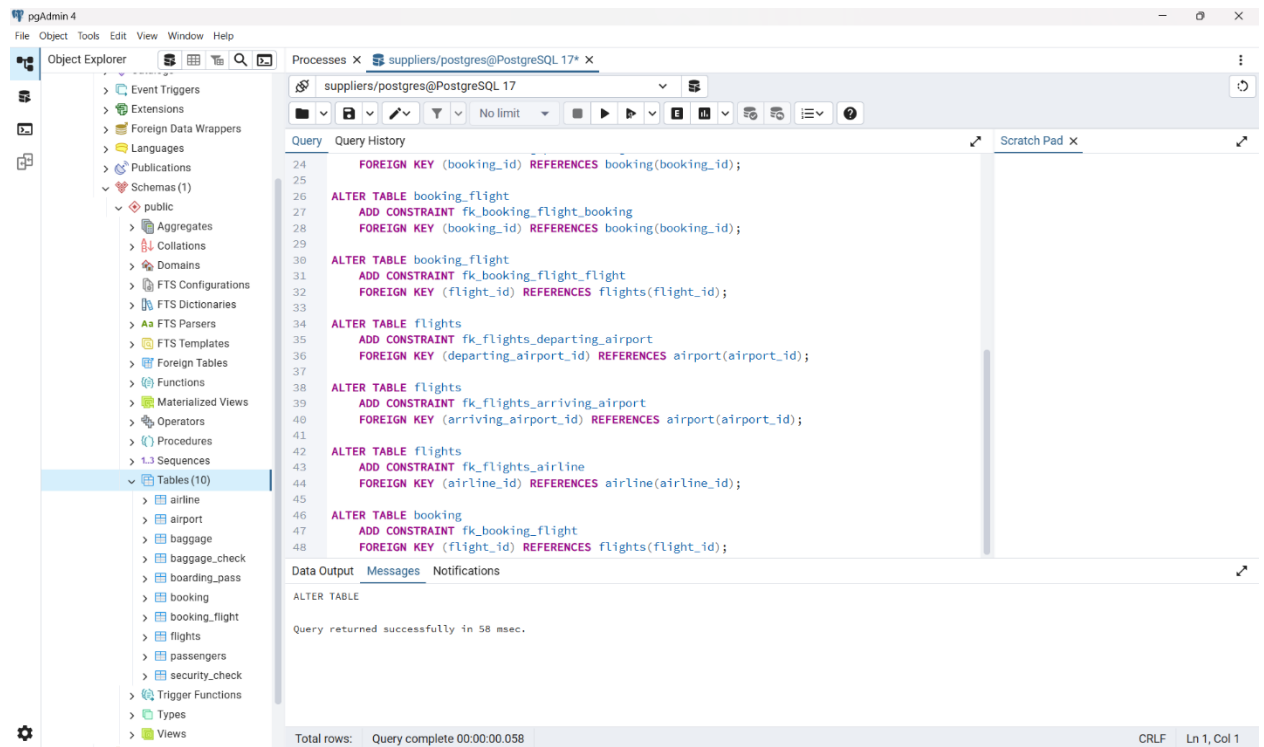
Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 58 msec.

Total rows: 0 Query complete 00:00:00.058

CRLF Ln 1, Col 1



DML

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Processes X suppliers/postgres@PostgreSQL 17 X

suppliers/postgres@PostgreSQL 17

Query Query History

```
1
2 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
3 SELECT
4 1000 + gs,
5 'CODE' || gs,
6 'Airline ' || gs,
7 CASE (gs % 4)
8   WHEN 0 THEN 'Kazakhstan'
9   WHEN 1 THEN 'Turkey'
10  WHEN 2 THEN 'France'
11  ELSE 'USA'
12 END,
13 now(), now()
14 FROM generate_series(1, 200) AS gs;
15
16 SELECT COUNT(*) FROM airline;
17
```

Data Output Messages Notifications

count	bigint
1	204

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

Total rows: 1 Query complete 00:00:00.053 CRLF Ln 17, Col 30

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Processes X suppliers/postgres@PostgreSQL 17 X

suppliers/postgres@PostgreSQL 17

Query Query History

```
1
2 INSERT INTO passengers (passenger_id, first_name, last_name, date_of_birth, gender,
3                          country_of_citizenship, country_of_residence, passport_number,
4                          created_at, updated_at)
5 SELECT
6 3000 + gs,
7 'Name' || gs,
8 'Surname' || gs,
9 DATE '1990-01-01' + (gs * 10),
10 CASE WHEN gs % 2 = 0 THEN 'Male' ELSE 'Female' END,
11 'Country' || gs,
12 'P' || (3000 + gs),
13 now(), now()
14 FROM generate_series(1, 200) AS gs;
15 SELECT COUNT(*) FROM passengers;
16
17
18
```

Data Output Messages Notifications

count	bigint
1	200

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

✓ Successfully run. Total query runtime: 62 msec. 1 rows affected. ✕

Total rows: 1 Query complete 00:00:00.062 CRLF Ln 15, Col 1

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query

```

1
2 INSERT INTO booking (booking_id, flight_id, passenger_id,
3 booking_platform, created_at, updated_at,
4 status, ticket_price)
5
6 SELECT
7 5000 + gs,
8 4000 + ((gs % 200) + 1),
9 3000 + ((gs % 200) + 1),
10 'Web',
11 now(), now(),
12 'Confirmed',
13 5000 + gs*10
14 FROM generate_series(1, 200) AS gs;
15
16 SELECT COUNT(*) FROM booking;

```

Data Output Messages Notifications

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

count	bigint
1	200

Total rows: 1 Query complete 00:00:00.055

Successfully run. Total query runtime: 55 msec. 1 rows affected.

CRLF Ln 15, Col 30

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query

```

1
2 INSERT INTO boarding_pass (boarding_pass_id, booking_id, seat, boarding_time, created_at, updated_at)
3
4 SELECT
5 6000 + gs,
6 5000 + ((gs % 200) + 1),
7 'Seat ' || gs,
8 now() + (gs || ' minutes')::interval,
9 now(), now()
10 FROM generate_series(1, 200) AS gs;
11
12 SELECT COUNT(*) FROM boarding_pass;

```

Data Output Messages Notifications

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

count	bigint
1	200

Total rows: 1 Query complete 00:00:00.062

CRLF Ln 11, Col 35

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query

```
1 INSERT INTO baggage (baggage_id, weight_in_kg, created_at, updated_at, booking_id)
2 SELECT
3 7000 + gs,
4 15.0 + (gs % 10),
5 now(), now(),
6 5000 + ((gs % 200) + 1)
7 FROM generate_series(1, 200) AS gs;
8 SELECT COUNT(*) FROM baggage;
9
10
11
```

Query History

Data Output Messages Notifications

count	bigint
1	200

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

SQL

Successfully run. Total query runtime: 61 msec. 1 rows affected. X

Total rows: 1 Query complete 00:00:00.061 CRLF Ln 8, Col 1

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query

```
1 INSERT INTO baggage_check (baggage_check_id, check_result, created_at, updated_at, booking_id, passenger_id)
2 SELECT
3 8000 + gs,
4 CASE WHEN gs % 3 = 0 THEN 'OK' ELSE 'MANUAL' END,
5 now(), now(),
6 5000 + ((gs % 200) + 1),
7 3000 + ((gs % 200) + 1)
8 FROM generate_series(1, 200) AS gs;
9 SELECT COUNT(*) FROM baggage_check;
10
11
```

Query History

Data Output Messages Notifications

count	bigint
1	200

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

SQL

Successfully run. Total query runtime: 75 msec. 1 rows affected. X

Total rows: 1 Query complete 00:00:00.075 CRLF Ln 9, Col 35

pgAdmin 4

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- Login/Group Roles

Processes x suppliers/postgres@PostgreSQL 17* x

suppliers/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO security_check (security_check_id, check_result, created_at, updated_at, passenger_id)
2 SELECT
3     9000 + gs,
4     CASE WHEN gs % 2 = 0 THEN 'PASS' ELSE 'FAIL' END,
5     now(), now(),
6     3000 + ((gs % 200) + 1)
7 FROM generate_series(1, 200) AS gs;
8 SELECT COUNT(*) FROM security_check;
9
10
```

Data Output Messages Notifications

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

	count
bigint	200

Total rows: 1 Query complete 00:00:00.067

✓ Successfully run. Total query runtime: 67 msec. 1 rows affected. ✕

CRLF Ln 8, Col 36

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- Login/Group Roles

Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query Query History

```
1 INSERT INTO booking_flight (booking_flight_id, booking_id, flight_id, created_at, updated_at)
2 SELECT
3     10000 + gs,
4     5000 + ((gs % 200) + 1),
5     4000 + ((gs % 200) + 1),
6     now(), now()
7 FROM generate_series(1, 200) AS gs;
8 SELECT COUNT(*) FROM booking_flight;
9
10
11
```

Data Output Messages Notifications

count	bigint
1	200

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

Total rows: 1 Query complete 00:00:00.084

Successfully run. Total query runtime: 84 msec. 1 rows affected.

CRLF Ln 8, Col 36

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query Query History

```
1 WITH dep AS (
2     SELECT airport_id, ROW_NUMBER() OVER (ORDER BY airport_id) AS rn
3     FROM airport
4 ),
5 al AS (
6     SELECT airline_id, ROW_NUMBER() OVER (ORDER BY airline_id) AS rn
7     FROM airline
8 ),
9 cnt AS (
10     SELECT (SELECT COUNT(*) FROM dep) AS a_cnt,
11            (SELECT COUNT(*) FROM al) AS l_cnt
12 )
13 INSERT INTO flights (
14     flight_id, sch_departure_time, sch_arrival_time,
15     departing_airport_id, arriving_airport_id,
16     departing_gate, arriving_gate,
17     airline_id, act_departure_time, act_arrival_time,
18     created_at, updated_at
19 )
20 SELECT
21     9000 + gs AS flight_id,
22     now() + (gs || ' hours')::interval,
23     now() + (gs || ' hours')::interval + interval '2 hours',
24     d1.airport_id,
25     d2.airport_id,
26     'Gate ' || gs
27
```

Data Output Messages Notifications

count	bigint
1	200

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

Total rows: 1 Query complete 00:00:00.080

CRLF Ln 39, Col 1

2

pgAdmin 4 interface showing the execution of an INSERT query. The Object Explorer on the left shows the database structure, with the 'airline' table selected under the 'public' schema. The Query editor displays the following SQL:

```
1 INSERT INTO airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
2 VALUES
3 (5001, 'KZR', 'KazAir', 'Kazakhstan', now(), now());
4 SELECT * FROM airline;
5
```

The Data Output pane shows the result of the query, displaying one row of data:

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	5001	KZR	KazAir	Kazakhstan	2025-09-22 11:17:30.881562

A status message at the bottom indicates: "Successfully run. Total query runtime: 74 msec. 1 rows affected."

3

pgAdmin 4 interface showing the execution of an UPDATE query. The Object Explorer on the left shows the database structure, with the 'airline' table selected under the 'public' schema. The Query editor displays the following SQL:

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

The Data Output pane shows the result of the query, displaying one row of data:

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	5001	KZR	KazAir	Turkey	2025-09-22 11:18:31.109079

A status message at the bottom indicates: "Successfully run. Total query runtime: 73 msec. 1 rows affected."

4

pgAdmin 4

File Object Tools Edit View Window Help

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/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 (5002, 'AEZ', 'AirEasy', 'France', now(), now()),
4 (5003, 'FLH', 'FlyHigh', 'Brazil', now(), now()),
5 (5004, 'FLY', 'FlyFly', 'Poland', now(), now());
6 SELECT * FROM airline;
7
```

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	5001	KZR	KazAir	Turkey	2025-09-22 11:17:30.881562	2025-09-22 11:18:31.109079
2	5002	AEZ	AirEasy	France	2025-09-22 11:19:13.455441	2025-09-22 11:19:13.455441
3	5003	FLH	FlyHigh	Brazil	2025-09-22 11:19:13.455441	2025-09-22 11:19:13.455441
4	5004	FLY	FlyFly	Poland	2025-09-22 11:19:13.455441	2025-09-22 11:19:13.455441

Total rows: 4 Query complete 00:00:00.068 CRLF Ln 6, Col 3

5

pgAdmin 4

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Processes X suppliers/postgres@PostgreSQL 17* X

suppliers/postgres@PostgreSQL 17

Query Query History

```
1 DELETE FROM flights
2 WHERE act_arrival_time >= DATE '2024-01-01'
3 AND act_arrival_time < DATE '2025-01-01';
4
5
```

Data Output Messages Notifications

Showing rows: 1 to 0 Page No: 1 of 1

flight_id [PK] integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone	departing_airport_id integer	arriving_airport_id integer	departing_gate text	arriving_gate character varying (50)	airline_id integer	act_depart timestamp
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Total rows: 0 Query complete 00:00:00.088 CRLF Ln 5, Col 1

6

The screenshot shows the pgAdmin 4 interface with the 'suppliers/postgres@PostgreSQL 17' process selected. The 'Query' tab is active, displaying the following SQL code:

```
1 UPDATE booking
2 SET ticket_price = ticket_price * 1.15,
3   updated_at = now();
4
5
```

The 'Messages' tab is selected in the bottom panel, showing the execution result:

```
UPDATE 0
Query returned successfully in 49 msec.
```

The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.049' and 'CRLF Ln 5, Col 1'.

7

The screenshot shows the pgAdmin 4 interface with the 'suppliers/postgres@PostgreSQL 17' process selected. The 'Query' tab is active, displaying the following SQL code:

```
1 DELETE FROM booking
2 WHERE ticket_price < 10000;
3
```

The 'Messages' tab is selected in the bottom panel, showing the execution result:

```
DELETE 0
Query returned successfully in 46 msec.
```

The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.046' and 'CRLF Ln 3, Col 1'. A green notification box in the bottom right corner states: '✓ Query returned successfully in 46 msec. ✕'.