

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17*

Servers (1) PostgreSQL 17 Databases (1)

postgres

- Casts
- Catalogs
- Event Triggers
- Extensions
- Foreign Data Wrappers
- Languages
- Publications

Schemas (1)

public

- Aggregates
- Collations
- Domains
- FTS Configurations
- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures

Sequences (1.3)

Tables (11)

- airline
- airport
- baggage
- baggage_check
- boarding_pass
- booking

 - Columns (8)
 - booking_id
 - passenger_id
 - booking_platform

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17*

Query History

```
BEGIN;
DELETE FROM baggage_check
WHERE booking_id = 10;
SELECT invalid_column FROM booking;
DELETE FROM booking
WHERE booking_id = 10;

ROLLBACK;

SELECT * FROM booking WHERE booking_id = 10;
```

Data Output Messages Notifications

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

	booking_id [PK] integer	passenger_id integer	booking_platform character varying (50)	created_at date	update_at date	status character varying (50)	price numeric (7,2)	ticket_discount numeric (5,2)
1	10	92	Ferry, Braun and Gleichner	2024-01-07	2023-08-12	Male	1668.38	[null]

Total rows: 1 Query complete 00:00:00.304 CRLF Ln 12, Col 1

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17* X

Servers (1) PostgreSQL 17 Databases (1) postgres Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Publications Schemas (1) public Aggregates Collations Domains FTS Configurations FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized Views Operators Procedures Sequences (1.3) Tables (11) airline airport baggage baggage_check boarding_pass booking Columns (8) booking_id passenger_id booking_platform

postres/postgres@PostgreSQL 17 No limit E I

Query Query History Scratch Pad X

```
1 BEGIN;
2
3 UPDATE flights
4 SET scheduled_departure = '2025-12-20'
5 WHERE flight_id = 3;
6
7 SELECT invalid_column;
8
9 COMMIT;
10
11 ROLLBACK;
12
13 SELECT * FROM flights WHERE flight_id = 3;
```

Data Output Messages Notifications Showing rows: 1 to 1 Page No: 1 of 1 CRLF Ln 14, Col 1

	flight_id [PK] integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	air int
1	3	FI-OL	2023-03-29	2023-08-01	18	12	47	9	

Total rows: 1 Query complete 00:00:00.176

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17* X

postgres/postgres@PostgreSQL 17

Query History Scratch Pad X

```
1 BEGIN;
2
3 UPDATE passengers
4 SET first_name = 'Aruzhan', passport_number = 'N123456'
5 WHERE passenger_id = 5;
6
7 COMMIT;
8
9 SELECT * FROM booking WHERE passenger_id = 5;
10
11 BEGIN;
12
13 UPDATE passengers
14 SET first_name = NULL
15 WHERE passenger_id = 5;
16
17 ROLLBACK;
18
```

Data Output Messages Notifications

ROLLBACK

Query returned successfully in 107 msec.

Total rows: 0 Query complete 00:00:00.107

✓ Query returned successfully in 107 msec. ✎

BOOKING_PLATFORM

- created_at
- update_at
- status
- price
- ticket_discount

> Constraints

> Indexes

> RLS Policies

> Rules

> Triggers

> booking_flight

> flights

> passengers

- Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number
 - created_at
 - update_at

> Constraints

> Indexes

> RLS Policies

> Rules

> Triggers

> security_check

> student

> Trigger Functions

> Types

> Views

> Subscriptions

> Login/Group Roles

TABLES

The screenshot shows the pgAdmin 4 interface. The top navigation bar includes links for Dashboard, Properties, SQL, Statistics, Dependencies, Dependents, Processes, and the current connection, `postgres/postgres@PostgreSQL 17*`. Below the navigation is a toolbar with various icons for file operations, search, and database management. The main area is divided into two panes: the left pane contains a query editor with numbered SQL statements, and the right pane is a scratch pad. The query editor contains the following code:

```
1 BEGIN;
2
3 UPDATE booking
4 SET price = price - 50
5 WHERE booking_id IN (SELECT bf.booking_id FROM booking_flight bf
6 WHERE bf.flight_id = 10);
7
8 SELECT * FROM booking;
9 ROLLBACK;
10
11
12 UPDATE booking
13 SET price = price - 50
14 WHERE booking_id IN (SELECT bf.booking_id FROM booking_flight bf
15 WHERE bf.flight_id = 10);
```

Below the query editor is a tab bar with `Data Output`, `Messages` (which is selected), and `Notifications`. The data output section shows the result of the last query:

UPDATE 0

Query returned successfully in 112 msec.

Object Explorer

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- Columns (8)
- booking_id
- passenger_id

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17*

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No limit

Query History

Scratch Pad X

```
1 BEGIN;
2 INSERT INTO passengers(passenger_id,first_name,last_name,date_of_birth,gender, country_of_cit
3 country_of_residence, passport_number, created_at, update_at)
4 VALUES(203, 'Stefan', 'Salvatore', '1985-08-16', 'Male', 'Canada', 'USA', '8546931559-0', NOW()
5 INSERT INTO booking(booking_id, passenger_id, booking_platform, created_at, update_at, status
6 VALUES(601,203,'Hagenes-Klein', NOW(), NOW(), 'Male', 4555.6, NULL );
7 COMMIT;
8
9 SELECT *FROM passengers p
10 JOIN booking b ON p.passenger_id = b.passenger_id
11 WHERE p.passenger_id = 203
```

Data Output Messages Notifications

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

	passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_residence	passport_number
1	203	Stefan	Salvatore	1985-08-16	Male	Canada	USA	8546931559-0

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- Tables(11)
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Dashboard × Properties × SQL × Statistics × Dependencies × Dependents × Processes × postgres/postgres@PostgreSQL 17*

postres/postgres@PostgreSQL 17

Query History

```
1 BEGIN;
2
3 UPDATE booking b
4 SET price = LEAST(b.price + 3000, 5000)
5 FROM booking_flight bf
6 WHERE b.booking_id = bf.booking_id
7 AND bf.flight_id = 3;
8
9 COMMIT;
10
11 SELECT b.*, p.*
12 FROM booking b
13 JOIN passengers p ON b.passenger_id = p.passenger_id
14 JOIN booking_flight bf ON b.booking_id = bf.booking_id
15 WHERE bf.flight_id = 3;
16
17
```

Data Output Messages Notifications

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

	booking_id	passenger_id	booking_platform	created_at	update_at	status	price	ticket_discount	passenger_id	first_name
1	174	11	Breitenberg-Hayes	2023-04-03	2023-06-19	Female	5000.00	[null]	11	Vanda

Successfully run. Total query runtime: 138 msec. 1 rows affected.

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17*

> Functions
> Materialized Views
> Operators
> Procedures
> 1.. Sequences
> Tables(11)
 > airline
 > airport
 > baggage
 > Columns(5)
 baggage_id
 weight_in_kg
 created_date
 update_date
 booking_id
 > Constraints
 > Indexes
 > RLS Policies
 > Rules
 > Triggers
 > baggage_check
 > Columns(6)
 baggage_check_id
 check_result
 created_at
 update_at
 booking_id
 passenger_id
 > Constraints
 > Indexes
 > RLS Policies
 > Rules
 > Triggers
 > boarding_pass
 > booking
 > Columns(8)

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No limit

Query Query History

```
1 BEGIN;
2
3 UPDATE baggage
4 SET weight_in_kg = 23
5 WHERE booking_id = 601;
6
7 COMMIT;
8
9 SELECT *
10 FROM booking b
11 JOIN baggage bg ON b.booking_id = bg.booking_id
12 JOIN passengers p ON p.passenger_id = b.passenger_id
13 WHERE bg.booking_id = 601;
14
15
```

Data Output Messages Notifications

SQL

booking_id	passenger_id	booking_platform	created_at	update_at	status	price	ticket_discount	baggage_id	weight_in_kg
------------	--------------	------------------	------------	-----------	--------	-------	-----------------	------------	--------------

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Functions Materialized Views Operators Procedures 1.3 Sequences Tables (11) airline airport baggage Columns (5) baggage_id weight_in_kg created_date update_date booking_id Constraints Indexes RLS Policies Rules Triggers baggage_check Columns (6) baggage_check_id check_result created_at update_at booking_id passenger_id Constraints Indexes RLS Policies Rules Triggers boarding_pass booking Columns (8)

postgres/postgres@PostgreSQL 17

Query History

```
BEGIN;
UPDATE booking
SET price = price * 0.85
WHERE passenger_id = 203 AND booking_id = 601;

COMMIT;

SELECT *
FROM booking b
JOIN passengers p ON b.passenger_id = p.passenger_id
WHERE b.booking_id = 601;
```

Data Output Messages Notifications

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

	booking_id	passenger_id	booking_platform	created_at	update_at	status	price	ticket_discount	passenger_id	first_name
1	601	203	Hagenes-Klein	2025-11-25	2025-11-25	Male	3872.26	[null]	203	Stefan

✓ Successfully run. Total query runtime: 176 msec. 1 rows affected.

File Object Tools Edit View Window Help

Object Explorer

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X postgres/postgres@PostgreSQL 17*

Query History

```
1 BEGIN;
2
3 UPDATE booking_flight
4 SET flight_id = 4
5 WHERE flight_id = 3;
6
7 COMMIT;
8
9 SELECT *
10 FROM booking b
11 JOIN booking_flight bf ON b.booking_id=bf.booking_id
12 JOIN passengers p ON b.passenger_id = p.passenger_id
13 WHERE bf.flight_id IN (3,4);
14
```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	booking_id	passenger_id	booking_platform	created_at	update_at	status	price	ticket_discount	booking_flight_id	booking_id
1	174	11	Breitenberg-Hayes	2023-04-03	2023-06-19	Female	5000.00	[null]	580	174
2	395	21	Bednar Group	2023-12-18	2024-01-06	Female	4044.13	[null]	697	395

Total rows: 2 Query complete 00:00:00.228 ✓ Successfully run. Total query runtime: 223 msec. 2 rows affected. CRLF Ln 13, Col 9