

pgAdmin 4 Object Tools Edit View Window Help

pgAdmin 4

Object Explorer

- Rules
- Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- flights
 - Columns (12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
 - Constraints
 - Indexes

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #1
2 CREATE VIEW flights_by_date AS
3 SELECT *
4 FROM flights
5 WHERE DATE(act_departure_time) = '2025-11-23';
6
7 #2
8 CREATE VIEW bookings_next_week AS
9 SELECT b.*
10 FROM bookings b
11 JOIN flights f ON b.flight_id = f.flight_id
12 WHERE f.departure_time BETWEEN NOW() AND NOW() + INTERVAL 7 DAY;
13
14 #3
15 CREATE VIEW top_5_routes AS
16 SELECT
17     f.departure_city,
18     f.arrival_city,
19     COUNT(b.booking_id) as booking_count
20 FROM flights f
21 JOIN bookings b ON f.flight_id = b.flight_id
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 70 msec.

Total rows: Query complete 00:00:00.070

LF Ln 2, Col 1

Object Explorer

Rules

Triggers

booking_flight

Columns (5)

booking_flight

booking_id

flight_id

created_at

updated_at

Constraints

Indexes

RLS Policies

Rules

Triggers

flights

Columns (12)

flight_id

sch_departur

sch_arrival_ti

departing_air

arriving_airpc

departing_ga

arriving_gate

airline_id

act_departun

act_arrival_tli

created_at

updated_at

Constraints

Indexes

RLS Policies

Rules

Triggers

passengers

Columns (10)

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query Query History

1 #1

2 CREATE VIEW flights_by_date AS

3 SELECT *

4 FROM flights

5 WHERE DATE(act_departure_time) = '2025-11-23';

6

7 #2

8 CREATE VIEW bookings_next_week AS

9 SELECT b.*

10 FROM booking b

11 JOIN flights f ON b.flight_id = f.flight_id

12 WHERE f.act_departure_time BETWEEN NOW() AND NOW() + INTERVAL '7 DAY';

13

14 #3

15 CREATE VIEW top_5_routes AS

16 SELECT

17 f.departure_city,

18 f.arrival_city,

19 COUNT(b.booking_id) as booking_count

20 FROM flights f

21 JOIN bookings b ON f.flight_id = b.flight_id

22 GROUP BY f.departure_city, f.arrival_city

23 ORDER BY booking_count DESC

24 LIMIT 5;

25

Data Output

Messages

Notifications

CREATE VIEW

Query returned successfully in 101 msec.

Total rows: Query complete 00:00:00.101

LF Ln 8, Col 1

Object Explorer

- Rules
- Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - updated_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- flights
 - Columns (12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- passengers
 - Columns (10)

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
10 FROM booking b
11 JOIN flights f ON b.flight_id = f.flight_id
12 WHERE f.act_departure_time BETWEEN NOW() AND NOW() + INTERVAL '7 DAY';
13
14 #3
15 CREATE VIEW top_5_routes AS
16 SELECT
17     f.departing_airport_id,
18     f.arriving_airport_id,
19     COUNT(b.booking_id) as booking_count
20 FROM flights f
21 JOIN booking b ON f.flight_id = b.flight_id
22 GROUP BY f.departing_airport_id, f.arriving_airport_id
23 ORDER BY booking_count DESC
24 LIMIT 5;
25
26 #4.
27 CREATE VIEW airline_flights AS
28 SELECT *
29 FROM flights
30 WHERE airline = 'Leffler-Thompson';
31
32 #5
33 CREATE OR REPLACE VIEW airline_flights AS
34 SELECT *
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 68 msec.

Total rows: Query complete 00:00:00.068 LF Ln 15, Col 1

Object Explorer

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (10)

airline

Columns (6)

airline_id

airline_code

airline_name

airline_country

created_at

updated_at

Constraints

Indexes

RLS Policies

Rules

Triggers

airport

Columns (7)

airport_id

airport_name

country

state

city

created_at

updated_at

Constraints

Indexes

RLS Policies

Rules

Triggers

baggage

baggage_check

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query

Query History

14

#3

15

CREATE VIEW top_5_routes AS

16

SELECT

17

f.departing_airport_id,

18

f.arriving_airport_id,

19

COUNT(b.booking_id) as booking_count

20

FROM flights f

21

JOIN booking b ON f.flight_id = b.flight_id

22

GROUP BY f.departing_airport_id, f.arriving_airport_id

23

ORDER BY booking_count DESC

24

LIMIT 5;

25

26

#4.

27

CREATE VIEW airline_flights AS

28

SELECT *

29

FROM airline

30

WHERE airline_name = 'Leffler-Thompson';

31

32

#5

33

CREATE OR REPLACE VIEW airline_flights AS

34

SELECT *

35

FROM flights

36

WHERE airline = 'Leffler-Thompson'

37

AND departure_time BETWEEN NOW() AND NOW() + INTERVAL 7 DAY;

38

Data Output

Messages

Notifications

CREATE VIEW

Query returned successfully in 80 msec.

Total rows:

Query complete 00:00:00.080

✓ Query returned successfully in 80 msec. ✕

LF Ln 27, Col 1

Object Explorer

- updated_at
- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- flights
 - Columns(12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- passengers
 - Columns(10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
21 JOIN booking b ON f.flight_id = b.flight_id
22 GROUP BY f.departing_airport_id, f.arriving_airport_id
23 ORDER BY booking_count DESC
24 LIMIT 5;
25
26 #4
27 CREATE VIEW airline_flights AS
28 SELECT *
29 FROM airline
30 WHERE airline_name = 'Leffler-Thompson';
31
32 #5
33 CREATE OR REPLACE VIEW airline_flights AS
34 SELECT f.*
35 FROM flights f
36 JOIN airline a ON f.airline_id = a.airline_id
37 WHERE a.airline_name = 'Leffler-Thompson'
38 AND f.act_departure_time BETWEEN NOW() AND NOW() + INTERVAL '7 days';
39
40
41
42
43 #6
44 CREATE VIEW delayed_flights AS
45 SELECT *
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 46 msec.

Total rows: Query complete 00:00:00.046

LF Ln 33, Col 1

Object Explorer

- created_at
- updated_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- flights
 - Columns (12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
34 SELECT r.*
35 FROM flights f
36 JOIN airline a ON f.airline_id = a.airline_id
37 WHERE a.airline_name = 'Leffler-Thompson'
38 AND f.act_departure_time BETWEEN NOW() AND NOW() + INTERVAL '7 days';
39
40
41
42
43 #6
44 CREATE OR REPLACE VIEW delayed_flights AS
45 SELECT *
46 FROM flights
47 WHERE act_departure_time > sch_departure_time + INTERVAL '24 hours';
48
49
50 #7
51 CREATE VIEW leffler_thompson_passengers AS
52 SELECT
53     p.first_name,
54     p.last_name,
55     p.country
56 FROM passengers p
57 JOIN bookings b ON p.passenger_id = b.passenger_id
58 JOIN flights f ON b.flight_id = f.flight_id
59 WHERE f.airline = 'Leffler-Thompson';
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 84 msec.

Total rows: Query complete 00:00:00.084

✓ Query returned successfully in 84 msec. ✕

LF Ln 44, Col 1

Object Explorer

- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- > flights
 - Columns(12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
 - > Constraints
 - > Indexes
 - > RLS Policies
 - > Rules
 - > Triggers
- > passengers
 - Columns(10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number
 - created_at
 - updated_at
 - > Constraints

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
41
42
43 #6
44 CREATE OR REPLACE VIEW delayed_flights AS
45 SELECT *
46 FROM flights
47 WHERE act_departure_time > sch_departure_time + INTERVAL '24 hours';
48
49
50 #7
51 CREATE OR REPLACE VIEW leffler_thompson_passengers AS
52 SELECT
53     p.first_name,
54     p.last_name,
55     p.country_of_citizenship
56 FROM passengers p
57 JOIN booking b ON p.passenger_id = b.passenger_id
58 JOIN flights f ON b.flight_id = f.flight_id
59 JOIN airline a ON f.airline_id = a.airline_id
60 WHERE a.airline_name = 'Leffler-Thompson';
61
62
63
64 SELECT * FROM leffler_thompson_passengers;
65
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 57 msec.

Total rows: Query complete 00:00:00.057

✓ Query returned successfully in 57 msec. ✕

LF Ln 51, Col 1

Object Explorer

- BD_Lab2/postgres@PostgreSQL 17*
- BD_Lab2/postgres@PostgreSQL 17
- Triggers
- flights
 - Columns (12)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies

BD_Lab2/postgres@PostgreSQL 17

Query

```
57 JOIN booking b ON p.passenger_id = b.passenger_id
58 JOIN flights f ON b.flight_id = f.flight_id
59 JOIN airline a ON f.airline_id = a.airline_id
60 WHERE a.airline_name = 'Leffler-Thompson';
61
62
63
64 SELECT * FROM leffler_thompson_passengers;
65
66 #8.
67 CREATE VIEW top_10_countries AS
68 SELECT
69     p.country_of_citizenship,
70     COUNT(b.booking_id) as visit_count
71 FROM passengers p
72 JOIN booking b ON p.passenger_id = b.passenger_id
73 GROUP BY p.country_of_citizenship
74 ORDER BY visit_count DESC
75 LIMIT 10;
76
77 #9
78 CREATE OR REPLACE VIEW top_5_routes AS
79 SELECT
80     f.departure_city,
81     f.arrival_city,
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 88 msec.

Total rows: Query complete 00:00:00.088

✓ Query returned successfully in 88 msec. ✕

LF Ln 67, Col 1

Object Explorer

boarding_pass_id

booking_id

seat

boarding_time

created_at

updated_at

> Constraints

> Indexes

> RLS Policies

> Rules

> Triggers

> booking

> Columns (9)

booking_id

flight_id

passenger_id

booking_platform

created_at

updated_at

status

price

ticketdiscount

> Constraints

> Indexes

> RLS Policies

> Rules

> Triggers

> booking_flight

> Columns (5)

booking_flight_id

booking_id

flight_id

created_at

updated_at

> Constraints

> Indexes

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query

Query History

```
73 GROUP BY p.country_of_citizenship
74 ORDER BY visit_count DESC
75 LIMIT 10;
76
77 #9
78 CREATE OR REPLACE VIEW top_5_routes AS
79 SELECT
80     da.city AS departure_city,
81     aa.city AS arrival_city,
82     al.airline_name AS airline,
83     COUNT(b.booking_id) AS booking_count,
84     AVG(b.price) AS avg_booking_amount
85 FROM flights f
86 JOIN booking b ON f.flight_id = b.flight_id
87 JOIN airport da ON f.departing_airport_id = da.airport_id
88 JOIN airport aa ON f.arriving_airport_id = aa.airport_id
89 JOIN airline al ON f.airline_id = al.airline_id
90 GROUP BY da.city, aa.city, al.airline_name
91 ORDER BY booking_count DESC
92 LIMIT 5;
93
94
95
96
97 SELECT * FROM top_5_routes;
```

Data Output

Messages

Notifications

CREATE VIEW

Query returned successfully in 77 msec.

Total rows: Query complete 00:00:00.077

LF Ln 78, Col 1

✓ Query returned successfully in 77 msec. ✕

Object Explorer

- boarding_pass_id
- booking_id
- seat
- boarding_time
- created_at
- updated_at
- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- booking
 - Columns (9)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - price
 - ticketdiscount
 - > Constraints
 - > Indexes
 - > RLS Policies
 - > Rules
 - > Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - updated_at
 - > Constraints
 - > Indexes

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
82      al.airline_name AS airline,
83      COUNT(b.booking_id) AS booking_count,
84      AVG(b.price) AS avg_booking_amount
85  FROM flights f
86  JOIN booking b ON f.flight_id = b.flight_id
87  JOIN airport da ON f.departing_airport_id = da.airport_id
88  JOIN airport aa ON f.arriving_airport_id = aa.airport_id
89  JOIN airline al ON f.airline_id = al.airline_id
90  GROUP BY da.city, aa.city, al.airline_name
91  ORDER BY booking_count DESC
92  LIMIT 5;
93
94
95
96
97  SELECT * FROM top_5_routes;
98
99  #10
100 DROP VIEW IF EXISTS flights_by_date;
101 DROP VIEW IF EXISTS bookings_next_week;
102 DROP VIEW IF EXISTS top_5_routes;
103 DROP VIEW IF EXISTS airline_flights;
104 DROP VIEW IF EXISTS delayed_flights;
105 DROP VIEW IF EXISTS leffler_thompson_passengers;
106 DROP VIEW IF EXISTS top_10_countries;
```

Data Output Messages Notifications

DROP VIEW

Query returned successfully in 65 msec.

Total rows: Query complete 00:00:00.065

✓ Query returned successfully in 65 msec. ✕

LF Ln 100, Col 1