

Object Explorer

- > Triggers
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- > baggage\_check
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- > booking
  - > Columns
  - > Constraints
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- > booking\_flight
- > flights
  - > Columns (13)
    - 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
    - flight\_no
  - > Constraints
  - > Indexes
  - > RLS Policies
  - > Rules
  - > Triggers
- > passengers
  - > Columns
  - > Constraints
  - > Indexes
  - > RLS Policies

public.flights/postgres/postgres@localhost\*

public.flights/postgres/postgres@localhost

No limit

Query History

```
1 CREATE VIEW view_flights_by_date AS
2 SELECT * FROM flights
3 WHERE DATE(sch_departure_time) = '2024-11-08'
```

Scratch Pad

CREATE VIEW

Query returned successfully in 55 msec.

Total rows: Query complete 00:00:00.055

LF Ln 3, Col 45

Object Explorer

- CREATE VIEW view\_bookings\_next\_week AS
- SELECT b.booking\_id,
- b.flight\_id,
- b.passenger\_id,
- b.ticket\_price,
- f.sch\_departure\_time
- FROM booking b
- JOIN flights f ON f.flight\_id = b.flight\_id
- WHERE f.sch\_departure\_time BETWEEN CURRENT\_DATE AND CURRENT\_DATE + INTERVAL '7 days';

Data Output

CREATE VIEW

Query returned successfully in 44 msec.

Total rows: Query complete 00:00:00.044

✓ Query returned successfully in 44 msec. LF Ln 8, Col 27

Object Explorer

public.flights/postgres@localhost\* public.booking/postgres@localhost\* public.flights/postgres@localhost\*

public.flights/postgres@localhost

No limit

Query History

Scratch Pad

Query

```
CREATE VIEW view_top5_routes AS
SELECT f.departing_airport_id,
       f.arriving_airport_id,
       COUNT(b.booking_id) AS total_bookings
FROM flights f
JOIN booking b ON f.flight_id = b.flight_id
GROUP BY departing_airport_id, arriving_airport_id
ORDER BY total_bookings DESC
LIMIT 5;
```

Data Output

Messages Notifications

CREATE VIEW

Query returned successfully in 51 msec.

Total rows: Query complete 00:00:00.051 ✓ Query returned successfully in 51 msec. LF Ln 4, Col 28

Object Explorer

public.flights/postgres@localhost\* public.booking/postgres@localhost\* public.flights/postgres@localhost\*

Query History

```
1 CREATE VIEW view_airline_flights AS
2 SELECT f.*, a.airline_name
3 FROM flights f
4 JOIN airline a ON a.airline_id = f.airline_id
5 WHERE a.airline_name = 'Air Astana';
```

Scratch Pad

Booking

Columns (9)

- booking\_id
- flight\_id
- passenger\_id
- booking\_platform
- created\_at
- updated\_at
- status
- ticket\_price
- ticket\_discount

Constraints

Indexes

RLS Policies

Rules

Triggers

booking\_flight

flights

Columns (13)

- 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
- flight\_no

Constraints

Indexes

RLS Policies

Rules

Data Output

Messages

Notifications

CREATE VIEW

Query returned successfully in 39 msec.

Total rows: Query complete 00:00:00.039 ✓ Query returned successfully in 39 msec. LF Ln 5, Col 37

The screenshot shows a PostgreSQL database interface with three tabs open in the background: 'public.flights/postgres@localhost\*', 'public.booking/postgres@localhost\*', and 'public.flights/postgres@localhost\*'. The foreground window is focused on the 'flights' table, which has 13 columns: 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, and flight\_no. A query is being run in the central pane to create a view named 'view\_airline\_flights' that selects all columns from the 'flights' table and joins it with the 'airline' table on the 'airline\_id' column, filtering for the airline 'Air Astana'. The message pane at the bottom right indicates that the query was successful and completed in 39 msec. The status bar at the bottom shows 'Total rows: Query complete 00:00:00.039'.

Object Explorer

public.flights/postgres@localhost\* public.booking/postgres@localhost\* public.flights/postgres@localhost\*

public.flights/postgres@localhost

No limit

Query History

Scratch Pad

Query

```
1 CREATE OR REPLACE VIEW view_airline_flihgts AS
2 SELECT f.*, a.airline_name
3 FROM flights f
4 JOIN airline a ON f.airline_id = a.airline_id
5 WHERE a.airline_name = 'Air Astana'
6 AND sch_departure_time BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '7 days';
```

Data Output

Messages Notifications

CREATE VIEW

Query returned successfully in 29 msec.

Total rows: Query complete 00:00:00.029 ✓ Query returned successfully in 29 msec. LF Ln 6, Col 83

Object Explorer

public.flights/postgres@localhost\* public.booking/postgres@localhost\* public.flights/postgres@localhost\*

Query History

```
CREATE VIEW view_delayed_more_24h AS
SELECT * FROM flights
WHERE act_departure_time > sch_departure_time + INTERVAL '24 hours';
```

Scratch Pad

Query

CREATE VIEW view\_delayed\_more\_24h AS  
SELECT \* FROM flights  
WHERE act\_departure\_time > sch\_departure\_time + INTERVAL '24 hours';

Data Output

Messages Notifications

CREATE VIEW

Query returned successfully in 37 msec.

Total rows: Query complete 00:00:00.037 ✓ Query returned successfully in 37 msec. LF Ln 3, Col 20

This screenshot shows the pgAdmin 4 interface. On the left is the Object Explorer pane, which lists database objects like 'booking', 'flights', and 'flights' under the 'flights' schema. The main pane shows a query editor with a SQL command to create a view named 'view\_delayed\_more\_24h'. The query is successfully executed, and the results are shown in the Data Output tab, indicating a successful return in 37 msec. A message bar at the bottom right also confirms the success of the query.

Object Explorer

- public.flights/postgres@localhost\*
- public.booking/postgres@localhost\*
- public.flights/postgres@localhost\*
- public.passengers/postgres@localhost\*

public.passengers/postgres@localhost

Query History

```
1 CREATE VIEW view_leffler_passengers AS
2   SELECT p.passenger_id,
3         p.first_name || ' ' || p.last_name AS full_name,
4         p.country_of_citizenship,
5         b.booking_id
6   FROM passengers p
7   JOIN booking b ON b.passenger_id = p.passenger_id
8 WHERE b.booking_platform = 'Leffler-Thompson';
```

Scratch Pad

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
- Rules
- Triggers

Data Output

CREATE VIEW

Query returned successfully in 49 msec.

Total rows: Query complete 00:00:00.049

✓ Query returned successfully in 49 msec. ✘

LF Ln 8, Col 47

Object Explorer    public.flights/postgres@localhost    public.booking/postgres@localhost    public.flights/postgres@localhost    public.passengers/postgres@localhost    public.flights/postgres@localhost\*

public.flights/postgres@localhost

Query   Query History   Scratch Pad

```
1 CREATE VIEW view_top10_countries AS
2 SELECT ap.country,
3        COUNT(*) AS total_visits
4 FROM flights f
5 JOIN airport ap ON f.arriving_airport_id = ap.airport_id
6 GROUP BY ap.country
7 ORDER BY total_visits DESC
8 LIMIT 10;
```

flights

Columns (13)

- 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
- flight\_no

Constraints   Indexes   RLS Policies   Rules   Triggers

passengers

Columns (10)

- passenger\_id
- first\_name
- last\_name

Data Output   Messages   Notifications

CREATE VIEW

Query returned successfully in 52 msec.

Total rows:    Query complete 00:00:00.052

✓ Query returned successfully in 52 msec.    LF   Ln 8, Col 10

Object Explorer

public.flights/postgres@localhost public.booking/postgres@localhost public.flights/postgres@localhost public.passengers/postgres@localhost public.flights/postgres@localhost\*

Query History

```
1. CREATE OR REPLACE VIEW view_flights_by_date AS
2. SELECT f.*, a.airline_name
3. FROM flights f
4. JOIN airline a ON a.airline_id = f.airline_id
5. WHERE DATE(sch_departure_time) = '2024-05-10';
```

Scratch Pad

flights

Columns (13)

- 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
- flight\_no

passengers

Columns (10)

- passenger\_id
- first\_name
- last\_name

Data Output

CREATE VIEW

Query returned successfully in 37 msec.

Total rows: Query complete 00:00:00.037 ✓ Query returned successfully in 37 msec. LF Ln 3, Col 8

Object Explorer

public.flights/postgres@localhost\*

public.booking/postgres@localhost\*

public.flights/postgres@localhost\*

public.passengers/postgres@localhost\*

public.flights/postgres@localhost\*

Query History

```
1 DROP VIEW IF EXISTS
2     view_flights_by_date,
3     view_bookings_next_week,
4     view_top5_routes,
5     view_airline_flights,
6     view_delayed_more_24h,
7     view_leffler_passengers,
8     view_top10_countries
9 CASCADE;
```

Scratch Pad

flights

Columns (13)

- 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
- flight\_no

Constraints

Indexes

RLS Policies

Rules

Triggers

passengers

Columns (10)

- passenger\_id
- first\_name
- last\_name

Data Output

Messages

Notifications

DROP VIEW

Query returned successfully in 37 msec.

Total rows: Query complete 00:00:00.037

✓ Query returned successfully in 37 msec. ✘

LF Ln 2, Col 2