

Object T S Q D databaseprac1/postgres@Local PostgreSQL X databaseprac1/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL*

Query History

```
1 CREATE VIEW flights_by_date AS
2   SELECT flight_id,
3         flight_no,
4         scheduled_departure,
5         scheduled_arrival,
6         departure_airport_id,
7         arrival_airport_id,
8         airline_id,
9         status,
10        actual_departure,
11        actual_arrival,
12        created_at,
13        update_at
14   FROM flights;
```

Scratch Pad

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 54 msec.

Total rows: Query complete 00:00:00.054 ✓ Query returned successfully in 54 msec. LF Ln 14, Col 14

Object T S Q L T databaseprac1/postgres@Local PostgreSQL X databaseprac1/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL*

Query History

```
1 CREATE VIEW bookings_next_week AS
2   SELECT bf.booking_id,
3         bf.flight_id,
4         f.scheduled_departure,
5         f.scheduled_arrival,
6         f.departure_airport_id,
7         f.arrival_airport_id
8   FROM booking_flight bf JOIN flights f ON bf.flight_id = f.flight_id
9   WHERE f.scheduled_departure BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '1 week'
```

Scratch Pad X

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 6, Col 20

Object T S Q D databaseprac1/postgres@Local PostgreSQL X databaseprac1/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL X database_subj/postgres@Local PostgreSQL*

Query History

```
CREATE VIEW top5_routes AS
SELECT
    departure_airport_id,
    arrival_airport_id,
    COUNT(*) AS total_bookings
FROM booking_flight bf
JOIN flights f ON bf.flight_id = f.flight_id
GROUP BY departure_airport_id, arrival_airport_id
ORDER BY total_bookings DESC
LIMIT 5;
```

Scratch Pad

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 53 msec.

Total rows: Query complete 00:00:00.053 ✓ Query returned successfully in 53 msec. LF Ln 3, Col 14

The screenshot shows the pgAdmin 4 interface for PostgreSQL. On the left is the Object Browser tree, which includes a 'Databases' node with 'book_app' and 'database_subj' expanded, and a 'Tables' node with 'airline' expanded to show columns like 'airline_id', 'airline_code', 'airline_name', 'airline_count', and 'created_at'. The main window contains a query editor with the following SQL code:

```
1 CREATE VIEW flights_by_airlines 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 = 'IPC';
```

Below the query editor is a 'Data Output' tab showing the results of the query:

CREATE VIEW

Query returned successfully in 74 msec.

Total rows: Query complete 00:00:00.074

A green message bar at the bottom right indicates: ✓ Query returned successfully in 74 msec. LF Ln 4, Col 13

The screenshot shows the pgAdmin 4 interface with the following details:

- Object Navigator:** On the left, it lists the database structure under "PostgreSQL FastAPI (2) > Local PostgreSQL > PostgreSQL 17". The "Tables (10)" section is expanded, showing the "airline" table with its columns: id, airline_name, scheduled_departure, and created_at.
- Query Editor:** The main window contains a SQL query to create a view named "flights_by_airlines". The query uses an INNER JOIN between the "flights" and "airline" tables based on their "airline_id" columns. It filters for flights where the airline name is 'IPC' and the scheduled departure is between the current date and 7 days from the current date.

```
CREATE VIEW flights_by_airlines AS
SELECT f.*, a.airline_name
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE a.airline_name = 'IPC'
AND f.scheduled_departure BETWEEN CURRENT_DATE
                                AND CURRENT_DATE + INTERVAL '7 days';
```
- Data Output:** Below the query editor, the "Messages" tab shows the output of the query: "CREATE VIEW" and "Query returned successfully in 37 msec."
- Status Bar:** At the bottom, it displays "Total rows: 0" and "Query complete 00:00:00.037". A green status bar at the bottom right indicates "✓ Query returned successfully in 37 msec." and "LF Ln 4, Col 13".

The screenshot shows the pgAdmin 4 interface with the following details:

- Object Navigator:** On the left, it lists the database structure under "PostgreSQL FastAPI (2)". It includes sections for Local PostgreSQL, PostgreSQL 17, Databases (10), and Schemas (1). A specific database named "database_subj" is selected.
- Query Editor:** The main area contains a query window titled "database_subj/postgres@Local PostgreSQL".
 - Toolbar:** Includes icons for file operations, search, and various database management functions.
 - Query Tab:** Contains the SQL code for creating a view:

```
1 CREATE VIEW delayed_24h AS
2 SELECT *
3 FROM flights
4 WHERE actual_departure IS NOT NULL
5 AND actual_departure > scheduled_departure + INTERVAL '24 hours';
```
 - Data Output Tab:** Shows the result of the query: "CREATE VIEW". Below it, a message states "Query returned successfully in 43 msec."
 - Messages Tab:** Displays the success message: "✓ Query returned successfully in 43 msec.".
 - Notifications Tab:** Empty.
- Status Bar:** At the bottom, it shows "Total rows: 0" and "Query complete 00:00:00.043".
- Bottom Right:** Status bar with "LF Ln 5, Col 68".

The screenshot shows the pgAdmin 4 interface. On the left is the Object Browser tree, which includes sections for PostgreSQL FastAPI (2), Local PostgreSQL, PostgreSQL 17, Databases (10), and public.airline (10 tables). The 'public' schema is expanded to show 'Tables (10)', 'airline', 'Columns', and several unnamed temporary tables. The main window contains a query editor with the following SQL code:

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

The 'Messages' tab below the query editor shows the message: "CREATE VIEW". At the bottom of the interface, a status bar indicates "Total rows: 0" and "Query complete 00:00:00.041". A green success message box in the bottom right corner states "✓ Query returned successfully in 41 msec." with "LF Ln 9, Col 47" details.

Object T S M Q X c1/po... X databaseprac1/po... X database_subj/po... X database_subj/po... X database_subj/postgres@Local PostgreSQL* X public.airline/data... X v

Object Browser Database: database_subj/postgres@Local PostgreSQL No limit

Query Query History Scratch Pad

```
1 CREATE VIEW top_10_visited_countries AS
2   SELECT
3     a.country AS arrival_country,
4     COUNT(*) AS flights_count,
5     CURRENT_DATE AS created_at,
6     CURRENT_DATE AS update_at
7   FROM flights f
8   JOIN airport a
9     ON f.arrival_airport_id = a.airport_id
10  GROUP BY a.country
11  ORDER BY flights_count DESC
12  LIMIT 10;
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 56 msec.

Total rows: Query complete 00:00:00.056

✓ Query returned successfully in 56 msec. LF Ln 12, Col 10

Object T S M T Q X c1/po... X databaseprac1/po... X database_subj/po... X database_subj/po... X database_subj/postgres@Local PostgreSQL* X public.airline/data... X v

database_subj/postgres@Local PostgreSQL

No limit ▾

Query History Scratch Pad

Query

```
1 CREATE OR REPLACE VIEW flights_ipc_simple AS
2   SELECT
3     flight_id,
4     flight_no,
5     airline_id,
6     scheduled_departure,
7     scheduled_arrival,
8     CURRENT_DATE AS created_at,
9     CURRENT_DATE AS update_at
10    FROM flights
11   WHERE airline_id = 1;
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 46 msec.

Total rows: Query complete 00:00:00.046 ✓ Query returned successfully in 46 msec. LF Ln 11, Col 22

Object T S G W Q Database c1/po... X databaseprac1/po... X database_subj/po... X database_subj/po... X database_subj/postgres@Local PostgreSQL* X public.airline/data... X v

Object Tree Database Structure

Query History

Query Pad

Scratch Pad

Query

```
1  DROP VIEW IF EXISTS
2    flights_by_date,
3    bookings_next_week,
4    top5_routes,
5    flights_by_airline,
6    delayed_24h,
7    leffler_passengers,
8    top10_countries;
```

Data Output Messages Notifications

NOTICE: view "top10_countries" does not exist, skipping

DROP VIEW

Query returned successfully in 41 msec.

Total rows: Query complete 00:00:00.041

LF Ln 8, Col 21