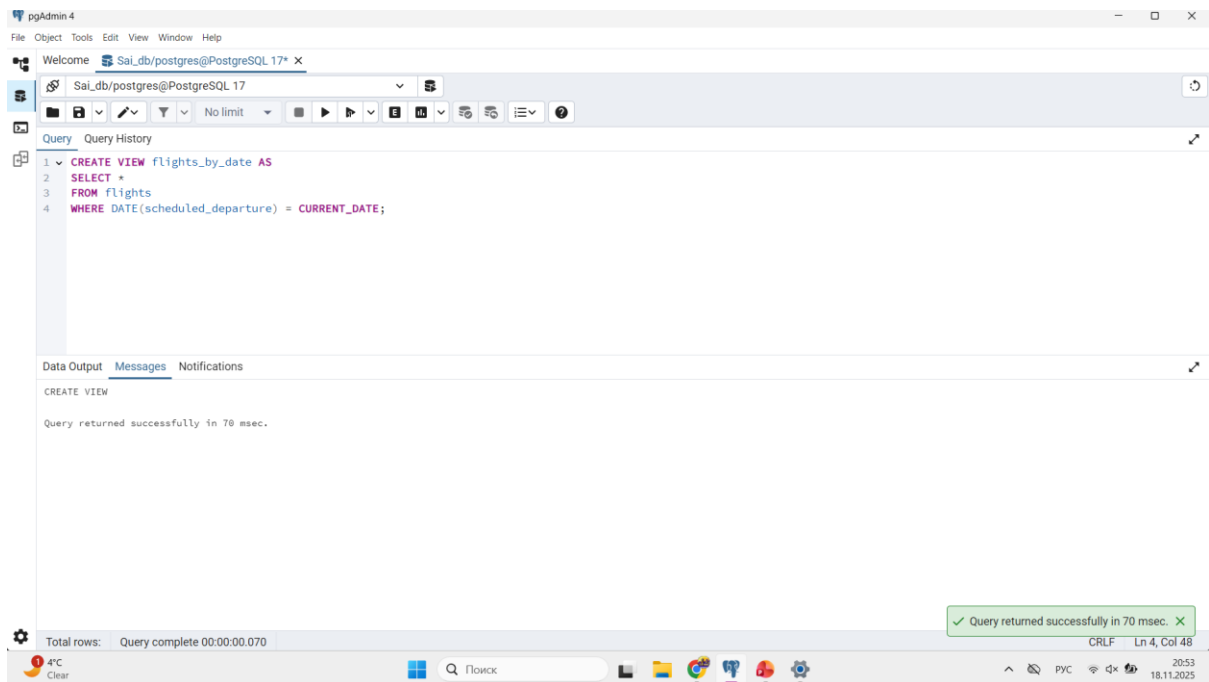


1. Create a view to show details of all flights that are departing on a specific date.

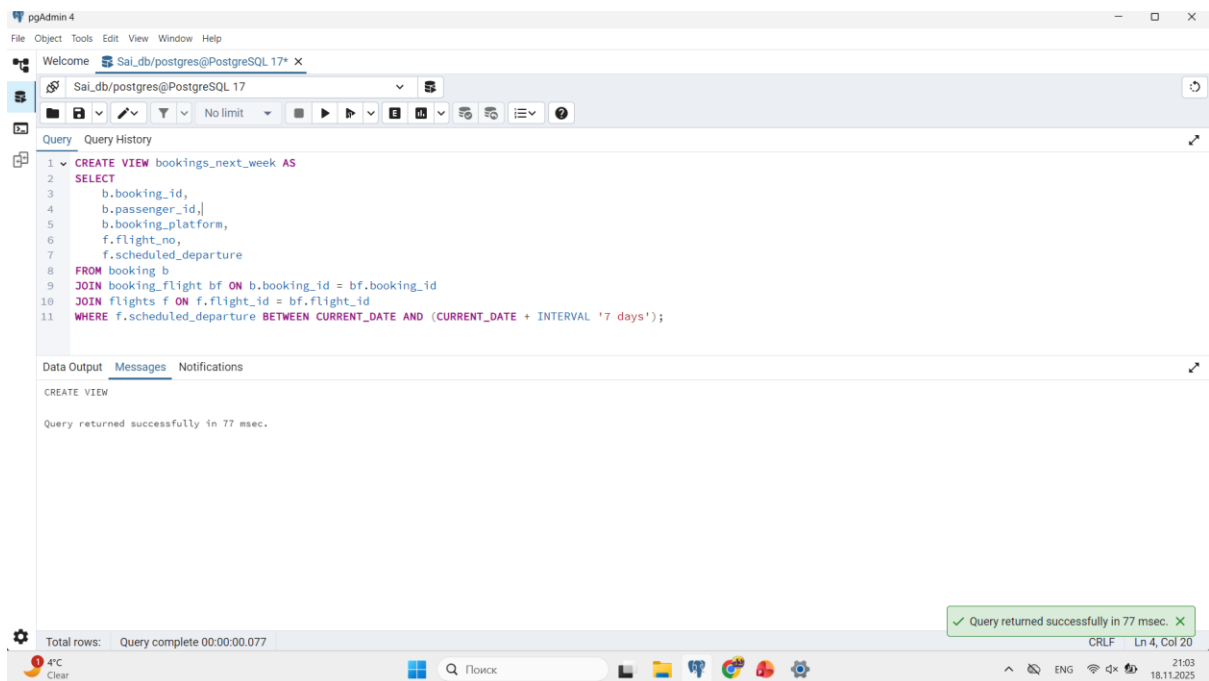


The screenshot shows the pgAdmin 4 interface. The 'Query' tab is active, displaying the following SQL code:

```
1 CREATE VIEW flights_by_date AS
2 SELECT *
3 FROM flights
4 WHERE DATE(scheduled_departure) = CURRENT_DATE;
```

The 'Messages' tab is also visible, showing the message: 'CREATE VIEW' and 'Query returned successfully in 70 msec.' A green status bar at the bottom right confirms: 'Query returned successfully in 70 msec.'

2. Create a view that shows bookings for flights scheduled to depart within the next week.

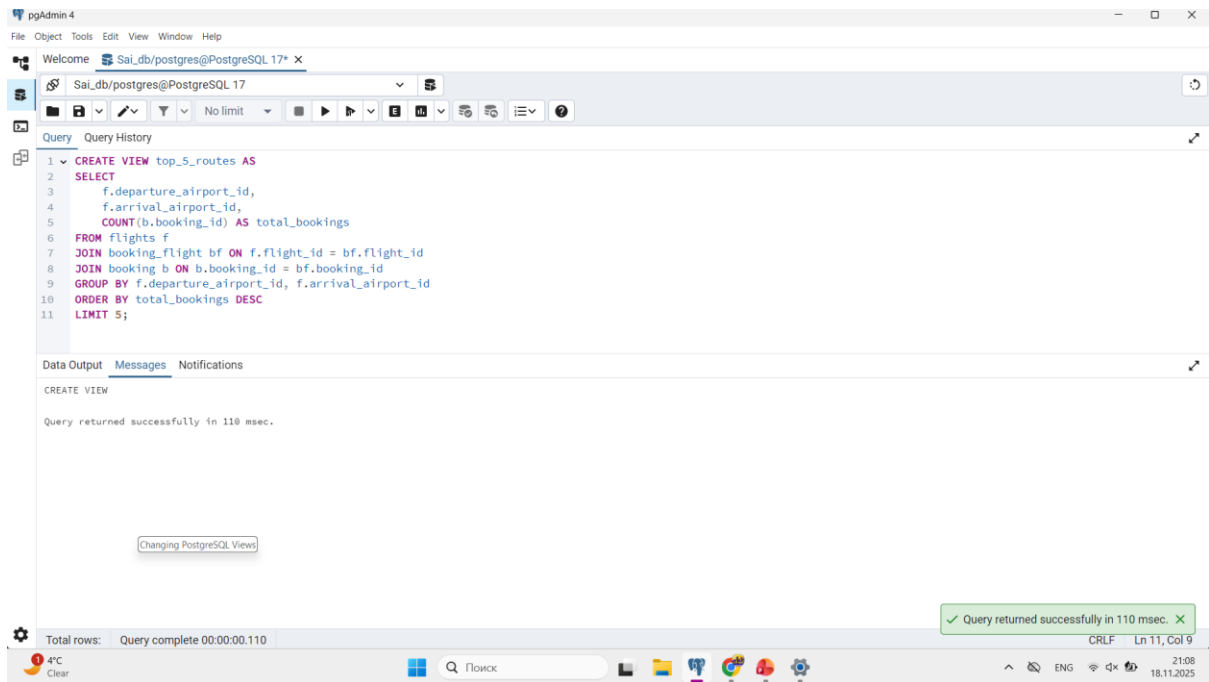


The screenshot shows the pgAdmin 4 interface. The 'Query' tab is active, displaying the following SQL code:

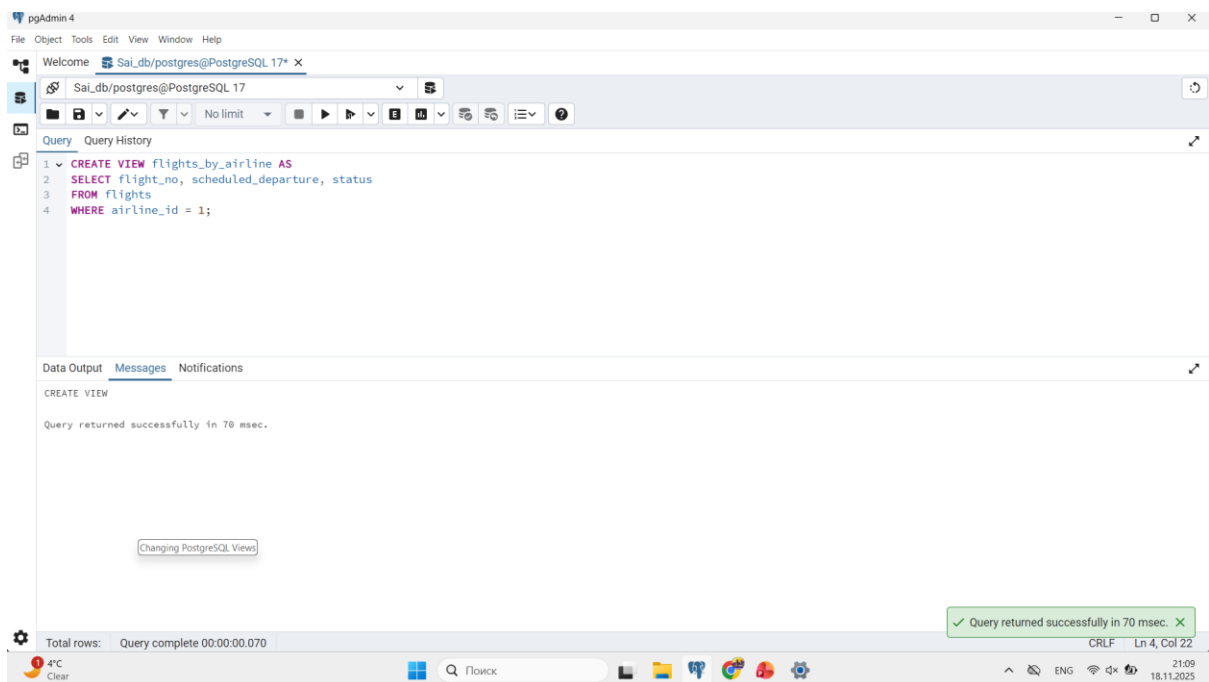
```
1 CREATE VIEW bookings_next_week AS
2 SELECT
3     b.booking_id,
4     b.passenger_id,
5     b.booking_platform,
6     f.flight_no,
7     f.scheduled_departure
8 FROM booking b
9 JOIN booking_flight bf ON b.booking_id = bf.booking_id
10 JOIN flights f ON f.flight_id = bf.flight_id
11 WHERE f.scheduled_departure BETWEEN CURRENT_DATE AND (CURRENT_DATE + INTERVAL '7 days');
```

The 'Messages' tab is also visible, showing the message: 'CREATE VIEW' and 'Query returned successfully in 77 msec.' A green status bar at the bottom right confirms: 'Query returned successfully in 77 msec.'

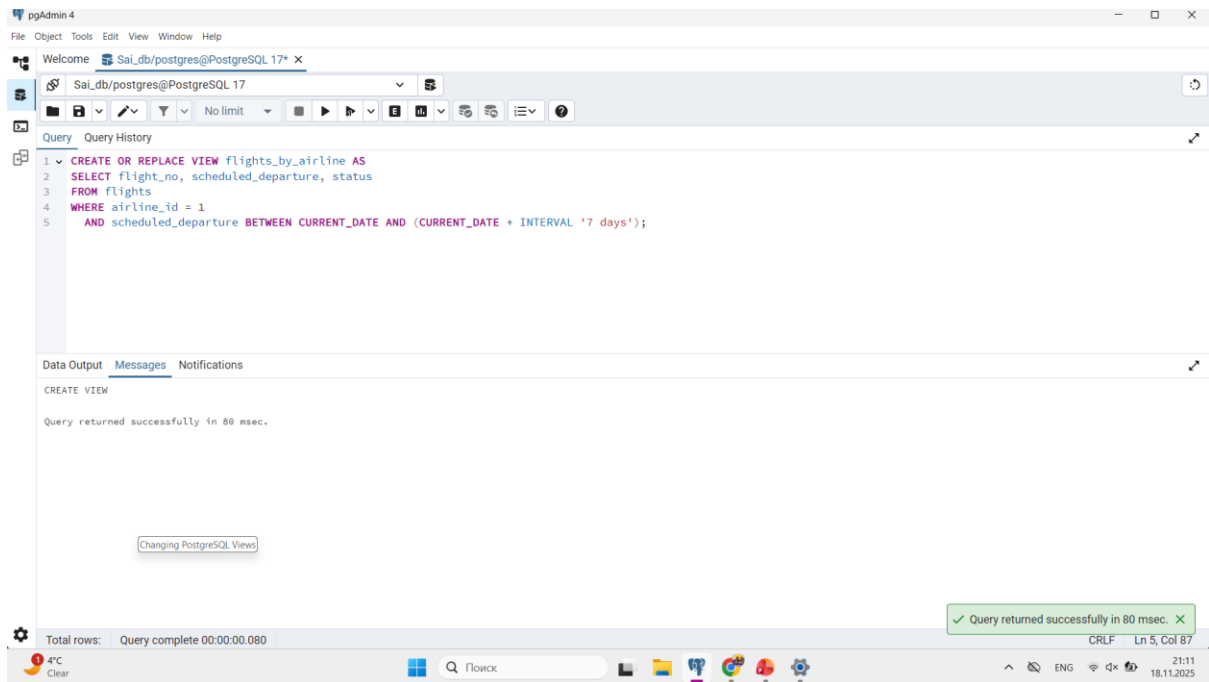
3. Create a view to show the top 5 most popular flight routes based on the number of bookings.



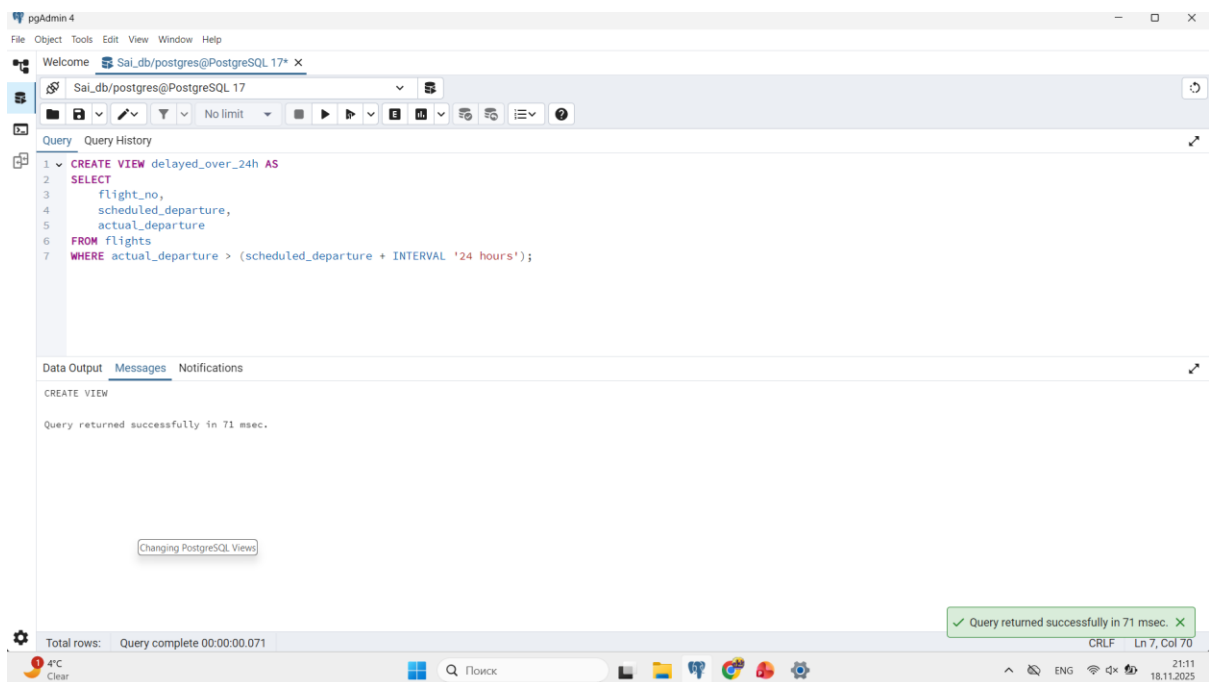
4. Create a view that lists all flights for a specific airline.



5. Modify the view created in task 4 to show only flights departing within the next 7 days for a specific airline.



6. Create a view to show flights that are delayed by more than 24 hours.



7. Create a view in which you can display the full name and country of origin of passengers who made bookings on Leffler-Thompson platform. Then show the list of that passengers.

pgAdmin 4

Welcome Sai\_db/postgres@PostgreSQL 17\* X

Sai\_db/postgres@PostgreSQL 17

Query Query History

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

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 77 msec.

Total rows: Query complete 00:00:00.077 CRLF Ln 8, Col 1

pgAdmin 4

Welcome Sai\_db/postgres@PostgreSQL 17\* X

Sai\_db/postgres@PostgreSQL 17

Query Query History

```
1 SELECT * FROM lt_passengers;
```

Data Output Messages Notifications

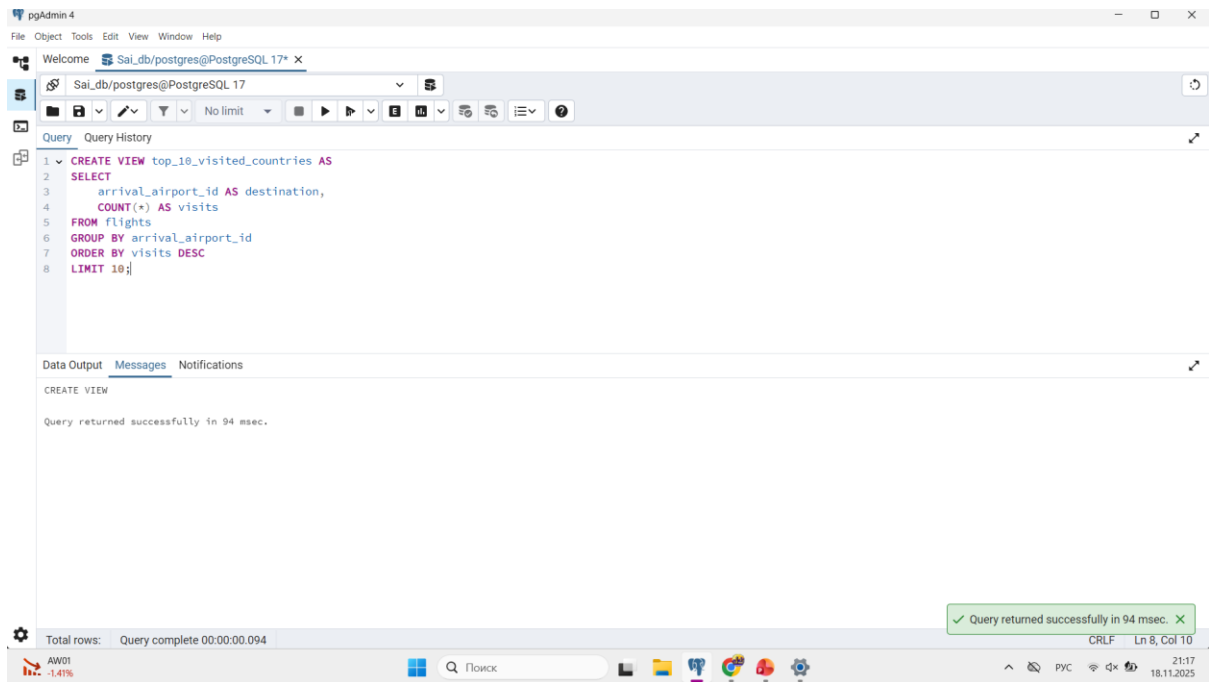
Showing rows: 1 to 1 Page No: 1 of 1

	full_name	country_of_citizenship
	text	character varying (50)
1	Philbert Shambroke	Colombia

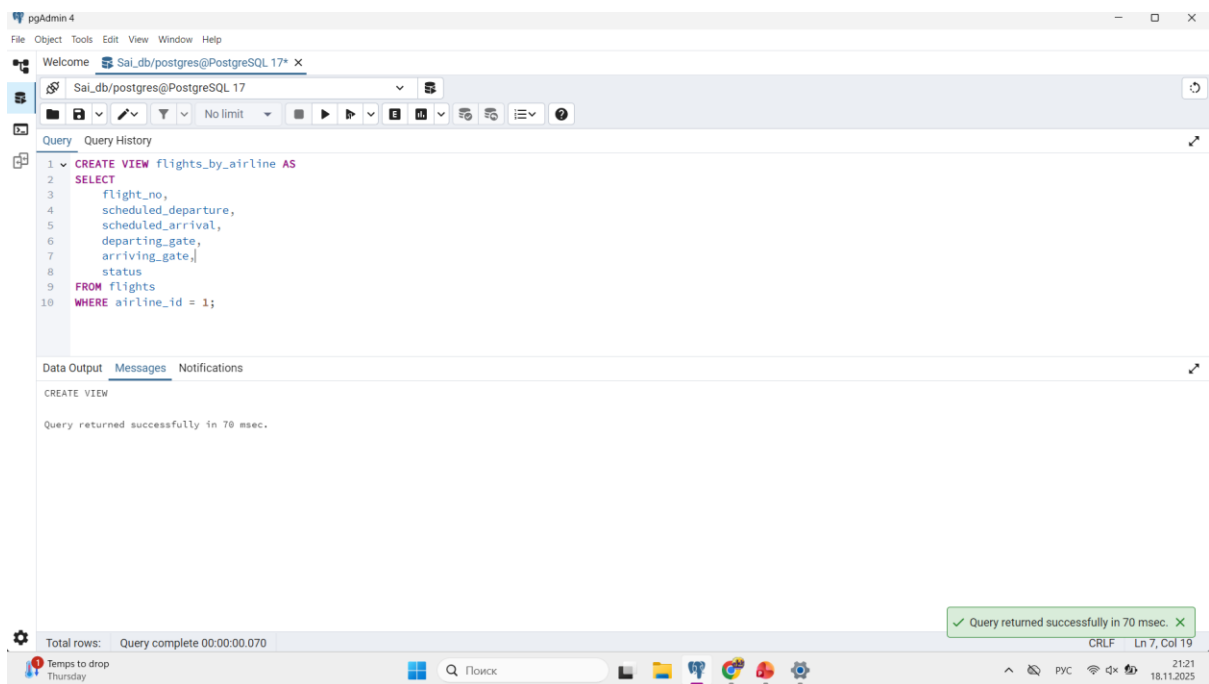
Total rows: 1 Query complete 00:00:00.098 CRLF Ln 1, Col 29

Successfully run. Total query runtime: 98 msec. 1 rows affected.

8. Create a view that shows top 10 most visited countries.



9. Update any of the created views by adding new information in the view table. Show results.



pgAdmin 4

Welcome Sai\_db/postgres@PostgreSQL 17\* X

Sai\_db/postgres@PostgreSQL 17

Query Query History

```
1 SELECT * FROM flights_by_airline;
```

Data Output Messages Notifications

Showing rows: 1 to 32 Page No: 1 of 1

	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departing_gate character varying (50)	arriving_gate character varying (50)	status character varying (50)
1	BR-PE	2024-01-16	2023-06-02	1891	5429	Delayed
2	MZ-G	2023-09-21	2023-11-29	[null]	9380	Delayed
3	AU-NT	2023-03-29	2023-05-06	[null]	13	Delayed
4	FR-K	2023-12-26	2023-04-30	144	23	Delayed
5	US-VT	2023-08-28	2023-08-02	335	515	Delayed
6	PH-BUK	2023-08-20	2023-10-24	919	1330	Delayed
7	SD-01	2023-12-02	2023-12-17	897	1147	Delayed
8	PA-8	2023-03-19	2023-08-21	150	38	Boarding
9	NA-KU	2023-06-26	2023-12-04	2000	996	Delayed
10	US-CT	2023-11-07	2023-05-03	30	100	Boarding
11	RU-CU	2023-04-16	2023-09-15	558	33	Boarding
12	BE-VAN	2023-05-03	2023-06-01	53	57	Boarding
13	US-AK	2024-03-01	2023-11-27	[null]	31	Boarding
14	PG-NSB	2023-11-26	2023-12-05	230	13	Boarding
15	US-MS	2023-03-28	2023-10-25	298	16	Boarding

Total rows: 32 Query complete 00:00:00.120

Successfully run. Total query runtime: 120 msec. 32 rows affected.

CRLF Ln 1, Col 34

4°C Clear

Поиск

21:21 18.11.2025

## 10. Drop all existing views.

pgAdmin 4

Welcome Sai\_db/postgres@PostgreSQL 17\* X

Sai\_db/postgres@PostgreSQL 17

Query Query History

```
1 DROP VIEW IF EXISTS
2   flights_by_date,
3   bookings_next_week,
4   top_5_routes,
5   flights_by_airline,
6   delayed_over_24h,
7   lt_passengers,
8   top_10_visited_countries
9 CASCADE;
```

Data Output Messages Notifications

DROP VIEW

Query returned successfully in 107 msec.

Total rows: Query complete 00:00:00.107

Query returned successfully in 107 msec.

CRLF Ln 10, Col 1

4°C Clear

Поиск

21:22 18.11.2025