

pgAdmin 4 Object Explorer

Servers (1)
RuslanUser
Databases (4)
instagram_bot
lab3
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
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country

lab3/ruslan@RuslanUser

Query

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

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 29 msec.

Total rows: Query complete 00:00:00.029

Ln 4, Col 48

✓ Query returned successfully in 29 msec. ✕

pgAdmin 4

Object Explorer

- boarding_pass
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking
 - Columns (7)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

lab3/ruslan@RuslanUser

No limit

Query

```
1 CREATE VIEW bookings_next_week AS
2 SELECT b.*, f.scheduled_departure
3 FROM booking AS b
4 JOIN booking_flight AS bf ON b.booking_id = bf.booking_id
5 JOIN flights AS f ON bf.booking_flight_id = f.flight_id
6 WHERE f.scheduled_departure BETWEEN NOW() AND NOW() + INTERVAL '7 days';
```

Query History

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 33 msec.

Total rows: Query complete 00:00:00.033

Ln 5, Col 49

Query returned successfully in 33 msec.

Mac OS X dock with various application icons including Safari, Chrome, VS Code, and others.

pgAdmin 4 Object Tools Edit View Window Help

pgAdmin 4

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X Untitled.sql* X lab3/ruslan@Rusl... X

Object Explorer

- Operators
- Procedures
- 1-3 Sequences
- Tables (10)
 - airline
 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage
 - baggage_check
 - boarding_pass

lab3/ruslan@RuslanUser

No limit

Query Query History

```
1 CREATE VIEW top_5_routes AS
2 SELECT
3     f.departure_airport_id,
4     f.arrival_airport_id,
5     COUNT(b.booking_id) AS booking_count
6 FROM booking b
7 JOIN booking_flight AS bf ON b.booking_id = bf.booking_id
8 JOIN flights AS f ON bf.booking_flight_id = f.flight_id
9 GROUP BY f.departure_airport_id, f.arrival_airport_id
10 ORDER BY booking_count DESC
11 LIMIT 5;
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 33 msec.

Total rows: Query complete 00:00:00.033

LF Ln 9, Col 1

✓ Query returned successfully in 33 msec. ✕

pgAdmin 4

Object Explorer

- boarding_pass
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking
 - Columns (7)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

lab3/ruslan@RuslanUser

No limit

Query

```
1 CREATE VIEW flights_by_airline AS
2 SELECT *
3 FROM flights;
4
5 SELECT * FROM flights_by_airline
6 WHERE airline_id = 12;
7
```

Data Output

Showing rows: 1 to 22 Page No: 1 of 1

	flight_id 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)
1	8	US-AZ	2023-07-29	2023-04-08	13	6	5045	1985
2	127	ZA-NL	2023-12-30	2023-04-21	14	7	3548	243
3	131	RU-ORL	2023-11-05	2023-09-13	13	17	656	595
4	154	AU-WA	2023-08-26	2023-08-31	13	12	[null]	1099
5	163	US-CA	2023-07-12	2023-10-20	5	5	62	23
6	165	US-FL	2023-04-30	2023-08-20	1	3	19	144
7	168	IL-D	2023-03-21	2023-05-24	1	18	249	236
8	322	MW-BL	2023-11-26	2023-09-13	6	13	2555	2575
9	360	US-NJ	2023-10-20	2023-08-16	7	10	23	1831

Successfully run. Total query runtime: 61 msec. 22 rows affected.

Total rows: 22 Query complete 00:00:00.061

LF Ln 4, Col 1

pgAdmin 4 Object Tools Edit View Window Help

pgAdmin 4

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X Untitled.sql*

lab3/ruslan@RuslanUser

No limit

Query Query History

```
1 CREATE OR REPLACE VIEW flights_by_airline AS
2 SELECT *
3 FROM flights
4 WHERE scheduled_departure BETWEEN NOW() AND NOW() + INTERVAL '7 days';
5
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 20 msec.

Total rows: Query complete 00:00:00.020

Ln 1, Col 11

✓ Query returned successfully in 20 msec. ✕

Object Explorer

- boarding_pass
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking
 - Columns (7)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

Object Explorer

- Servers (1)
 - RuslanUser
 - Databases (4)
 - instagram_bot
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 - Languages
 - Publications
 - Schemas (1)
 - public
 - Aggregates
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 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (10)
 - airline
 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country

lab3/ruslan@RuslanUser

Query

Query History

```
1 CREATE VIEW flights_delayed_24h AS
2 SELECT *,
3     actual_departure - scheduled_departure AS delay
4 FROM flights
5 WHERE (actual_departure - scheduled_departure) > 1;
```

Data Output

Messages

Notifications

```
CREATE VIEW

Query returned successfully in 33 msec.
```

Total rows: 0

Query complete 00:00:00.033

Ln 5, Col 51

✓ Query returned successfully in 33 msec. ✕

pgAdmin 4

Object Explorer

- airport_name
- country
- state
- city
- created_at
- update_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- baggage
- baggage_check
- boarding_pass
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking
 - Columns (7)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

lab3/ruslan@RuslanUser

Query

```

1 CREATE VIEW passengers_leffler_thompson AS
2 SELECT
3     p.first_name,
4     p.last_name,
5     p.country_of_citizenship
6 FROM passengers p
7 JOIN booking b ON p.passenger_id = b.passenger_id
8 WHERE b.booking_platform = 'Leffler-Thompson';
9
10 SELECT * FROM passengers_leffler_thompson;
11

```

Data Output Messages Notifications

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

| | first_name
character varying (50) | last_name
character varying (50) | country_of_citizenship
character varying (50) |
|---|--------------------------------------|-------------------------------------|--|
| 1 | Philbert | Shambroke | Colombia |

Total rows: 1 Query complete 00:00:00.033

Successfully run. Total query runtime: 33 msec. 1 rows affected.

LF Ln 11, Col 1

pgAdmin 4

Object Explorer

- Operators
- Procedures
- Sequences
- Tables (10)
 - airline
 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage
 - baggage_check
 - boarding_pass

lab3/ruslan@RuslanUser

Query

```
1 CREATE VIEW top_10_visited_countries AS
2 SELECT a.country, COUNT(b.booking_id) AS visits
3 FROM booking b
4 JOIN booking_flight AS bf ON b.booking_id = bf.booking_id
5 JOIN flights AS f ON bf.booking_flight_id = f.flight_id
6 JOIN airport a ON a.airport_id = f.arrival_airport_id
7 GROUP BY a.country
8 ORDER BY visits DESC
9 LIMIT 10;
```

Query History

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 42 msec.

Total rows: Query complete 00:00:00.042

Ln 6, Col 13

✓ Query returned successfully in 42 msec. ✕



pgAdmin 4 Object Tools Edit View Window Help

pgAdmin 4

Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X Untitled.sql* X lab3/ruslan@Rusl... X

Object Explorer

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 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage
 - baggage_check
 - boarding_pass

lab3/ruslan@RuslanUser

No limit

Query Query History

```
1 DROP VIEW IF EXISTS flights_delayed_24h;
2
3 CREATE VIEW flights_delayed_24h AS
4 SELECT
5     flight_no,
6     scheduled_departure,
7     actual_departure,
8     actual_departure - scheduled_departure AS delay
9 FROM flights
10 WHERE (actual_departure - scheduled_departure) > 1;
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 30 msec.

Total rows: Query complete 00:00:00.030

✓ Query returned successfully in 30 msec. ✕

LF Ln 3, Col 1

pgAdmin 4

Object Explorer

- Operators
- Procedures
- 1.3 Sequences
- Tables (10)
 - airline
 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage
 - baggage_check
 - boarding_pass

lab3/ruslan@RuslanUser

No limit

Query Query History

```
1 DROP VIEW IF EXISTS
2   flights_by_date,
3   bookings_next_week,
4   flights_by_airline,
5   flights_delayed_24h,
6   passengers_leffler_thompson,
7   top_10_visited_countries;
```

Total rows: Query complete 00:00:00.029

LF Ln 7, Col 30

