

```
1 -- 1
2 ✓ create or replace view v_flights_on_date as
3 select
4     f.flight_id,
5     f.actual_departure,
6     f.actual_arrival,
7     dep.airport_name as departure_airport,
8     arr.airport_name as arrival_airport,
9     a.airline_name
10    from flights f
11   join airport dep on f.departure_airport_id = dep.airport_id
12   join airport arr on f.arrival_airport_id = arr.airport_id
13   join airline a on f.airline_id = a.airline_id
14 where date(f.actual_departure) = '2025-11-20';
15
16 -- Проверка
17 select * from v_flights_on_date;
```



flight_id	actual_departure	actual_arrival	departure_airport	arrival_airport	airline_name
integer	date	date	character varying (50)	character varying (50)	character varying (50)

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Lab1ok/postgres@Lab1



Query Query History

Scratch Pad X

```
1 -- 2
2 ✓ create or replace view v_bookings_next_week as
3 select
4     b.booking_id,
5     f.flight_id,
6     f.actual_departure,
7     p.first_name || ' ' || p.last_name as passenger_name,
8     dep.airport_name || ' → ' || arr.airport_name as route
9 from booking_flight bf
10 join booking b on bf.booking_id = b.booking_id
11 join passengers p on b.passenger_id = p.passenger_id
12 join flights f on bf.flight_id = f.flight_id
13 join airport dep on f.departure_airport_id = dep.airport_id
14 join airport arr on f.arrival_airport_id = arr.airport_id
15 where f.actual_departure between current_date and current_date + interval '7 days'
16 order by f.actual_departure;
17 |
18 select * from v_bookings_next_week;
19
```

Data Output Messages Notifications

SQL

booking_id	flight_id	actual_departure	passenger_name	route
integer	integer	date	text	text

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Query Query History

```
1 -- 3
2 ✓ create or replace view v_top5_routes as
3 select
4     dep.country || ' → ' || arr.country as route,
5     dep.airport_name || ' → ' || arr.airport_name as airports,
6     count(*) as bookings_count
7 from booking_flight bf
8 join flights f on bf.flight_id = f.flight_id
9 join airport dep on f.departure_airport_id = dep.airport_id
10 join airport arr on f.arrival_airport_id = arr.airport_id
11 group by dep.country, arr.country, dep.airport_name, arr.airport_name
12 order by bookings_count desc
13 limit 5;
14
15 select * from v_top5_routes;
16
17
18
19
```

Data Output Messages Notifications

Showing rows: 1 to 5 | Page No: 1 of 1 |

	route text	airports text	bookings_count bigint
1	Indonesia → Tanzania	Henri Coandă International Airport → Armidale Airport	18
2	Indonesia → Indonesia	Garbaharey Airport → Henri Coandă International Airport	15
3	United States → Slovenia	Hana Airport → Zephyrhills Municipal Airport	14
4	Brazil → Indonesia	Figari Sud-Corse Airport → Garbaharey Airport	14
5	Philippines → Tanzania	Industrial Airpark → Armidale Airport	11

Total rows: 5 Query complete 00:00:00.108

Successfully run. Total query runtime: 108 msec. 5 rows affected.

CRLF Ln 15, Col 28

Welcome Lab1ok/postgres@Lab1\*

Lab1ok/postgres@Lab1

No limit

Query History

Scratch Pad X

```
1 -- 4
2 ✓ create or replace view v_delta_flights as
3 select
4     f.flight_id,
5     f.actual_departure,
6     f.actual_arrival,
7     dep.airport_name as from_airport,
8     arr.airport_name as to_airport
9 from flights f
10 join airport dep on f.departure_airport_id = dep.airport_id
11 join airport arr on f.arrival_airport_id = arr.airport_id
12 join airline a on f.airline_id = a.airline_id
13 where a.airline_name ilike 'delta air lines';
14
15 select * from v_delta_flights;
```

Data Output Messages Notifications

SQL

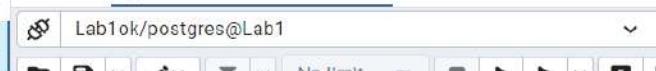
flight_id	actual_departure	actual_arrival	from_airport	to_airport
integer	date	date	character varying (50)	character varying (50)

✓ Successfully run. Total query runtime: 87 msec. 0 rows affected. X

Total rows: 0 Query complete 00:00:00.087

CRLF Ln 15, Col 31

Welcome Lab1ok/postgres@Lab1\*



Query Query History

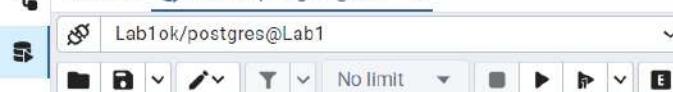
```
1 -- 5
2 v create or replace view v_delta_flights as
3 select
4     f.flight_id,
5     f.actual_departure,
6     f.actual_arrival,
7     dep.airport_name as from_airport,
8     arr.airport_name as to_airport
9 from flights f
10 join airport dep on f.departure_airport_id = dep.airport_id
11 join airport arr on f.arrival_airport_id = arr.airport_id
12 join airline a on f.airline_id = a.airline_id
13 where a.airline_name ilike 'delta air lines'
14     and f.actual_departure between current_date and current_date + interval '7 days';
15
16 select * from v_delta_flights;
17
18
19
```

Scratch Pad X

Data Output Messages Notifications



flight_id	actual_departure	actual_arrival	from_airport	to_airport
integer	date	date	character varying (50)	character varying (50)



```

1 -- 6
2 v create or replace view v_delayed_flights_24h as
3 select
4   f.flight_id,
5   f.scheduled_departure,
6   f.actual_departure,
7   f.actual_departure - f.scheduled_departure as delay_interval,
8   dep.airport_name || ' → ' || arr.airport_name as route,
9   a.airline_name
10 from flights f
11 join airport dep on f.departure_airport_id = dep.airport_id
12 join airport arr on f.arrival_airport_id = arr.airport_id
13 join airline a on f.fairline_id = a.airline_id
14 where f.actual_departure is not null
15   and f.scheduled_departure is not null
16   and f.actual_departure > f.scheduled_departure + interval '24 hours';
17
18 select * from v_delayed_flights_24h;
19

```

Scratch Pad

	flight_id	scheduled_departure	actual_departure	delay_interval	route	airline_name
	integer	date	date	integer	text	character varying (50)
1	2	2023-07-21	2024-02-09	203	Figari Sud-Corse Airport → Zephyrhills Municipal Airport	SMM
2	3	2023-03-29	2024-02-21	329	Darchula Airport → Elorza Airport	SMM
3	5	2023-07-03	2023-11-18	138	Hana Airport → Alert Bay Airport	PIR
4	6	2023-07-07	2024-02-19	227	Darchula Airport → Akunaq Heliport	SMM
5	7	2023-10-12	2023-12-04	53	Ocean Falls Seaplane Base → Darchula Airport	SOZ
6	9	2023-05-18	2023-06-17	30	Hana Airport → Pitalito Airport	IFH
7	11	2023-03-28	2024-02-06	315	Delta County Airport → Delta County Airport	YBQ
8	12	2023-03-22	2023-04-28	37	Elorza Airport → Figari Sud-Corse Airport	KKL

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Lab1ok/postgres@Lab1



Query Query History

Scratch Pad X

```
1 -- 7
2 ✓ create or replace view v_leffler_thompson_passengers as
3 select distinct
4     p.first_name || ' ' || p.last_name as full_name,
5     p.passport_number,
6     a.airline_country as citizenship_country
7 from booking b
8 join passengers p on b.passenger_id = p.passenger_id
9 join booking_flight bf on b.booking_id = bf.booking_id
10 join flights f on bf.flight_id = f.flight_id
11 join airport arr on f.arrival_airport_id = arr.airport_id
12 join airline a on f.airline_id = a.airline_id
13 where b.booking_platform ilike 'Leffler-Thompson';
14
15 select * from v_leffler_thompson_passengers;
16
17
18
19
```

Data Output Messages Notifications

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

	full_name	passport_number	citizenship_country
1	Philbert Shambroke	251255686-7	Sudan

pgAdmin 4

File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab1\* X

Lab1ok/postgres@Lab1

No limit ▾

Query History

Scratch Pad X

```
1 -- 8
2 ✓ create or replace view v_top10_visited_countries as
3 select
4     arr.country,
5     count(*) as arrivals_count
6 from booking_flight bf
7 join flights f on bf.flight_id = f.flight_id
8 join airport arr on f.arrival_airport_id = arr.airport_id
9 group by arr.country
10 order by arrivals_count desc
11 limit 10;
12
13 select * from v_top10_visited_countries;
```

Data Output Messages Notifications

Showing rows: 1 to 10 Page No: 1 of 1

	country	arrivals_count
1	China	232
2	Indonesia	167
3	Philippines	137
4	Tanzania	78
5	United States	62
6	Russia	59
7	Poland	49
8	Slovenia	48

Total rows: 10 Query complete 00:00:00.119 ✓ Successfully run. Total query runtime: 119 msec. 10 rows affected. CRLF Ln 13, Col 23

pgAdmin 4

File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab1\* X

Lab1ok/postgres@Lab1 No limit

Query History Scratch Pad X

```
1 -- 9
2 ✓ create or replace view v_top5_routes as
3 select
4     dep.country || ' → ' || arr.country as route,
5     dep.airport_name || ' → ' || arr.airport_name as airports,
6     count(*) as bookings_count,
7     round(100.0 * count(*) / sum(count(*)) over (), 2) as percent_of_total
8 from booking_flight bf
9 join flights f on bf.flight_id = f.flight_id
10 join airport dep on f.departure_airport_id = dep.airport_id
11 join airport arr on f.arrival_airport_id = arr.airport_id
12 group by dep.country, arr.country, dep.airport_name, arr.airport_name
13 order by bookings_count desc
14 limit 5;
15
16 select * from v_top5_routes;
17
18
19
```

Data Output Messages Notifications

route airports bookings\_count percent\_of\_total

	route text	airports text	bookings_count bigint	percent_of_total numeric
1	Indonesia → Tanzania	Henri Coandă International Airport → Armidale Airport	18	1.80
2	Indonesia → Indonesia	Garbaharey Airport → Henri Coandă International Airport	15	1.50
3	United States → Slovenia	Hana Airport → Zephyrhills Municipal Airport	14	1.40
4	Brazil → Indonesia	Figari Sud-Corse Airport → Garbaharey Airport	14	1.40
5	Philippines → Tanzania	Industrial Airpark → Armidale Airport	11	1.10

Showing rows: 1 to 5 Page No: 1 of 1

Total rows: 5 Query complete 00:00:00.103

✓ Successfully run. Total query runtime: 103 msec. 5 rows affected. X

CRLF Ln 16, Col 11

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Lab1ok/postgres@Lab1



Query Query History

```
1 -- 10
2 drop view if exists v_flights_on_date;
3 drop view if exists v_bookings_next_week;
4 drop view if exists v_top5_routes;
5 drop view if exists v_delta_flights;
6 drop view if exists v_delayed_flights_24h;
7 drop view if exists v_leffler_thompson_passengers;
8 drop view if exists v_top10_visited_countries;
9
10
11 → select schemaname, viewname from pg_views
12 where schemaname = 'public' and viewname like 'v_%';
13
14
15
16
17
18
19
```

Data Output Messages Notifications

Showing rows: 1 to 6 Page No: 1 of 1

	schemaname name	viewname name
1	public	v_bookings_next_week
2	public	v_delayed_flights_24h
3	public	v_delta_flights
4	public	v_flights_on_date
5	public	v_top10_visited_countries
6	public	v_top5_routes

Successfully run. Total query runtime: 115 msec. 6 rows affected.

Total rows: 6 Query complete 00:00:00.115

CRLF Ln 12, Col 36