

LD Lab 2 DB

Version control

Database Explorer

postgres@localhost

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views 1

public

tables 3

console_5

flights

postgres.lab2

create view task1_8 as

select

flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id

from flights

where sch_departure_time::date = '2025-09-29';

Services

Tx

Database

postgres@localhost

console_5 28 ms

flights 915 ms

flights

flights

flights

flights 915 ms

[2025-11-19 08:29:16] postgres.lab2> create view task1_8 as

select

flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id

from flights

where sch_departure_time::date = '2025-09-29'

[2025-11-19 08:29:16] completed in 15 ms

Database Consoles

postgres@localhost

console_5

7:1

LF

UTF-8

4 spaces

LD Lab 2 DB

Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views 2

public

tables 3

routes 4

sequences 1

Database Objects

Server Objects

console_5 flights

play

stop

refresh

settings

terminal

Tx: Auto

Playground

1

2

3

4

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6

7

create view task2_8 as

select

b.booking_id, b.flight_id, b.passenger_id, b.booking_platform, f.sch_departure_time

from booking b

join flights f on f.flight_id = b.flight_id

where f.sch_departure_time >= now() and f.sch_departure_time < now() + interval '7 days';

✓

Services

Tx

+

eye

copy

undo

redo

Database

postgres@localhost

console_5 28 ms

flights 915 ms

flights

flights

flights

[2025-11-19 08:33:32] postgres.lab2> create view task2_8 as

select

b.booking_id, b.flight_id, b.passenger_id, b.booking_platform, f.sch_departure_time

from booking b

join flights f on f.flight_id = b.flight_id

where f.sch_departure_time >= now() and f.sch_departure_time < now() + interval '7 days'

[2025-11-19 08:33:32] completed in 11 ms

undo

redo

copy

paste

delete

Database Consoles

postgres@localhost

console_5

7:1

LF

UTF-8

4 spaces

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🔔

LD Lab 2 DB

Version control

Database Explorer

postgres@localhost

postgres

lab2

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views

public

console_5

flights

Playground

1

2

3

4

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8

9

10

11

create view top5_routes_by_bookings as

select f.departing_airport_id, f.arriving_airport_id, count(b.booking_id) AS bookings_count

from booking_flight bf

join booking b

join flights f

join airport arr

group by

f.departing_airport_id,

f.arriving_airport_id

order by bookings_count desc

limit 5;

✓

Services

Tx

Database

postgres@localhost

console_5 19 ms

flights 915 ms

flights

flights

flights

flights 915 ms

[2025-11-19 08:40:22] postgres.lab2> create view top5_routes_by_bookings as

select f.departing_airport_id, f.arriving_airport_id, count(b.booking_id) AS bookings_count

from booking_flight bf

join booking b

join flights f

join airport arr

group by

f.departing_airport_id,

f.arriving_airport_id

order by bookings_count desc

limit 5

[2025-11-19 08:40:22] completed in 8 ms

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Database Consoles

postgres@localhost

console_5

11:9

LF

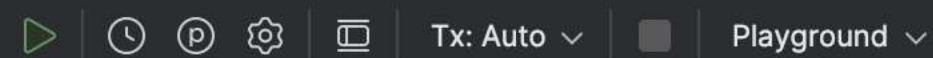
UTF-8

4 spaces

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🐘 console_5 × 🗑️ airline



postgres.lab2 ▾

```
1 ✓ create view task_4 as
2 select f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name
3 from flights f
4 join airline a on f.airline_id = a.airline_id
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
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5 where a.airline_name = 'KazAir';
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```
5 where a.airline_name = 'KazAir';
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5 where a.airline_name = 'KazAir';
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5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
5 where a.airline_name = 'KazAir';
```

```
[2025-11-19 08:44:39] postgres.lab2> create view task_4 as
      select f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name
      from flights f
      join airline a      ON f.airline_id = a.airline_id
      where a.airline_name = 'KazAir'
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```

```
[2025-11-19 08:44:39] completed in 8 ms
```


LD Lab 2 DB

Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views 5

public

console_5

airline

play

stop

refresh

settings

terminal

Tx: Auto

Playground

postgres.lab2

1

2

3

4

5

6

create view task_5 as

select f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name

from flights f

join airline a ON f.airline_id = a.airline_id

where a.airline_name = 'KazAir'

and f.sch_arrival_time between current_date and current_date + interval '7 days';

✓

Services

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Database

postgres@localhost

console_5 348 ms

flights 915 ms

flights

flights

flights

airline 381 ms

[2025-11-19 08:44:39] completed in 8 ms

[2025-11-19 09:15:16] Connected

[2025-11-19 09:15:16] postgres.lab2> set search_path = "lab2"

[2025-11-19 09:15:16] completed in 1 ms

[2025-11-19 09:15:16] postgres.lab2> create view task_5 as

select f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name

from flights f

join airline a ON f.airline_id = a.airline_id

where a.airline_name = 'KazAir'

and f.sch_arrival_time between current_date and current_date + interval '7 days'

[2025-11-19 09:15:16] completed in 11 ms

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Database Consoles

postgres@localhost

console_5

6:83

LF

UTF-8

4 spaces

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LD Lab 2 DB

Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views 6

public

console_5

airline

play

stop

refresh

settings

terminal

Tx: Auto

Playground

1

2

3

4

create view task_6 as

select flight_id, sch_departure_time, act_departure_time, act_arrival_time

from flights

where act_departure_time > sch_departure_time + interval '1 day';

✓

Services

Tx

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Database

postgres@localhost

console_5 23 ms

flights 915 ms

flights

flights

flights

airline 381 ms

[2025-11-19 09:15:16] postgres.lab2> set search_path = "lab2"

[2025-11-19 09:15:16] completed in 1 ms

[2025-11-19 09:15:16] postgres.lab2> create view task_5 as

select f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name

from flights f

join airline a ON f.airline_id = a.airline_id

where a.airline_name = 'KazAir'

and f.sch_arrival_time between current_date and current_date + interval '7 days'

[2025-11-19 09:15:16] completed in 11 ms

[2025-11-19 09:18:47] postgres.lab2> create view task_6 as

select flight_id, sch_departure_time, act_departure_time, act_arrival_time

from flights

where act_departure_time > sch_departure_time + interval '1 day'

[2025-11-19 09:18:47] completed in 7 ms

Database Consoles

postgres@localhost

console_5

4:67

LF

UTF-8

4 spaces

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LD Lab 2 DB

Version control

Database Explorer

postgres@localhost

postgres

lab2

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views

public

console_5

booking

airline

create view task_7 as

select

p.passenger_id,

p.first_name || ' ' || p.last_name as full_name,

p.country_of_citizenship as country_of_origin

from passengers p

join booking b on b.passenger_id = p.passenger_id

where b.booking_platform = 'bplatform_1';

Services

Tx

Database

postgres@localhost

booking 378 ms

console_5 24 ms

flights 915 ms

flights

flights

flights

airline 381 ms

[2025-11-19 09:21:19] postgres.lab2> create view task_7 as

select

p.passenger_id,

p.first_name || ' ' || p.last_name as full_name,

p.country_of_citizenship as country_of_origin

from passengers p

join booking b on b.passenger_id = p.passenger_id

where b.booking_platform = 'bplatform_1'

[2025-11-19 09:21:19] completed in 8 ms

Database Consoles > postgres@localhost > console_5

8:41 LF UTF-8 4 spaces

LD Lab 2 DB

Version control

Database Explorer

postgres@localhost

postgres

lab2

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views

public

console_5

booking

airline

postgres.lab2

create view task_8 as

select

a.country, count(b.booking_id) AS visits_count

from booking_flight bf

join booking b 1..n<->1: on bf.booking_id = b.booking_id

join flights f 1..n<->1: on f.flight_id = b.flight_id

join airport a 1..n<->1: on a.airport_id = f.arriving_airport_id

group by a.country

order by visits_count desc

limit 10;

Services

Database

postgres@localhost

booking 378 ms

console_5 23 ms

flights 915 ms

flights

flights

flights

airline 381 ms

[2025-11-19 09:21:19] completed in 8 ms

[2025-11-19 09:24:18] postgres.lab2> create view task_8 as

select

a.country, count(b.booking_id) AS visits_count

from booking_flight bf

join booking b on bf.booking_id = b.booking_id

join flights f on f.flight_id = b.flight_id

join airport a on a.airport_id = f.arriving_airport_id

group by a.country

order by visits_count desc

limit 10

[2025-11-19 09:24:18] completed in 10 ms

Database Consoles > postgres@localhost > console_5

10:10 LF UTF-8 4 spaces

LD Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

views 9

public

console_5 booking airline

Tx: Auto Playground

postgres.lab2

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CREATE OR REPLACE VIEW task_9 AS

SELECT DISTINCT

p.passenger_id,

p.first_name || ' ' || p.last_name AS full_name,

p.country_of_citizenship AS country_of_origin,

b.booking_id,

b.ticket_price

FROM passengers p

JOIN booking b 1<->1..n: ON b.passenger_id = p.passenger_id

WHERE b.booking_platform = 'platform_1';

Services

Tx

Database

postgres@localhost

booking 378 ms

console_5 17 ms

flights 915 ms

flights

flights

flights

airline 381 ms

[2025-11-19 09:25:53] postgres.lab2> CREATE OR REPLACE VIEW task_9 AS

SELECT DISTINCT

p.passenger_id,

p.first_name || ' ' || p.last_name AS full_name,

p.country_of_citizenship AS country_of_origin,

b.booking_id,

b.ticket_price

FROM passengers p

JOIN booking b ON b.passenger_id = p.passenger_id

WHERE b.booking_platform = 'platform_1'

[2025-11-19 09:25:53] completed in 7 ms

Database Consoles > postgres@localhost > console_5

10:41 LF UTF-8 4 spaces

LD Lab 2 DB

Version control

Database Explorer

postgres@localhost

postgres

lab2

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

public

tables

console_5

booking

airline

play

stop

refresh

settings

terminal

Tx: Auto

Playground

postgres.lab2

1

✓

drop view task1_8

2

✓

drop view task2_8

3

✓

drop view top5_routes_by_bookings

4

✓

drop view task_4

5

✓

drop view task_5

6

✓

drop view task_6

7

✓

drop view task_7

8

✓

drop view task_8

9

✓

drop view task_9

Services

Tx

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Database

postgres@localhost

booking

console_5

flights

flights

flights

flights

airline

Output

postgres.information_schema.views

[2025-11-19 09:31:00] completed in 2 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_4

[2025-11-19 09:31:00] completed in 3 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_5

[2025-11-19 09:31:00] completed in 3 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_6

[2025-11-19 09:31:00] completed in 3 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_7

[2025-11-19 09:31:00] completed in 2 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_8

[2025-11-19 09:31:00] completed in 3 ms

[2025-11-19 09:31:00] postgres.lab2> drop view task_9

[2025-11-19 09:31:00] completed in 3 ms

Database Consoles

postgres@localhost

console_5

9:17

LF

UTF-8

4 spaces

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