

Lab2Version control

Database Explorer

postgres@localhost1 of 3
postgres1 of 3
public
tables 10
airline
airport
baggage
baggage_check
boarding_pass
booking

consoleairportbookingairlineflights

1 ✓
2
3
4
5
6
7

select f.flight_id, f.act_arrival_time, f.departing_gate, f.arriving_gate, a.airline_name
from flights f
join airline a 1.n<->1: on a.airline_id = f.airline_id
join airport dep 1.n<->1: on f.departing_airport_id = dep.airport_id
join airport arr 1.n<->1: on f.arriving_airport_id = arr.airport_id
where arr.country = 'Country_2';

postgres.public

Services

Tx
Database
postgres@localhost
airport 1 s 182 ms
flights 1 s 206 ms
airline 631 ms
console 696 ms
booking 697 ms

OutputResult 39

flight_idact_arrival_timedeparting_gatearriving_gateairline_name
1392025-10-18 10:10:00.000000G8H9FlyFly
232024-12-02 13:40:00.000000A102B102AirEasy

2 rows

Database Consoles > postgres@localhost > console

6:31CRLFUTF-84 spaces23:2504.11.2025

Lab2Version control

Database Explorer

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public
tables10
airline
airport

Services

Tx
Database
postgres@localhost
flights1 s 206 ms
airline631 ms
console896 ms

consoleairlineflights
Tx: AutoPlayground
postgres.public
1 ✓
2
3
4
5
6
7
select a.airline_name
from airline a
left join flights f on a.airline_id = f.airline_id
and f.act_arrival_time >= current_date
and f.act_arrival_time < current_date + interval '1 month'
group by a.airline_name
having count(f.flight_id) = 0;

Outputpostgres.public.airline
airline_name
1 KazAir
2 Airline I
3 Airline H
4 Airline D
5 FlyFly
6 AirEasy
7 Airline J
8 Airline A
9 FlyHigh
10 Airline G
11 Airline E
12 Airline C
13 Airline F
14 Airline B
14 rows

Database Consoles > postgres@localhost > console

22:33
04.11.2025

Database Explorer

postgres@localhost

- baggage_check
- boarding_pass
- booking
- booking_flight
- flights
- passengers
- security_check
- Database Objects
- Server Objects

Services

- airport 1 s 182 ms
- flights 1 s 206 ms
- booking 587 ms
- airline 631 ms
- console 645 ms
- passengers 609 ms

console

```
1 ✓ select p.first_name, p.passport_number, f.act_arrival_time
2 from passengers p
3 join booking b 1<->1..n: on p.passenger_id = b.passenger_id
4 join flights f on b.flight_id = f.flight_id;
5
```

Output

Result 60

	first_name	passport_number	act_arrival_time
1	Laura	P1023456	2025-05-01 16:05:00.000000
2	Alex	P100000	2024-12-01 12:10:00.000000
3	Anna	P223456	2024-12-01 12:10:00.000000
4	Alex	P192832	2024-12-02 13:40:00.000000
5	John	P323456	2024-12-02 13:40:00.000000
6	Alice	A1234567	2024-12-03 10:25:00.000000
7	Maria	P423456	2024-12-03 10:25:00.000000
8	Liam	C2345678	2024-12-04 16:10:00.000000
9	Sophia	B3456789	2024-12-05 18:35:00.000000
10	Olga	P623456	2024-12-05 18:35:00.000000
11	Mason	D4567890	2024-12-06 19:10:00.000000

14 rows

Database Consoles > postgres@localhost > console

5:1 CRLF UTF-8 4 spaces

23:43 04.11.2025

Database Explorer

postgres@localhost

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

Database Objects

Server Objects

Services

Database

postgres@localhost

airport 1 s 182 ms

flights 1 s 206 ms

booking 587 ms

airline 631 ms

console 611 ms

passengers 609 ms

console

passengers

airport

booking

airline

flights

postgres@localhost

select p.first_name, p.age, arr.airport_name
from passengers p
join booking b on p.passenger_id = b.passenger_id
join flights f on b.flight_id = f.flight_id
join airport arr on f.arriving_airport_id = arr.airport_id
where p.age < 18;

Output

Result 59

first_name

age

airport_name

1

Alice

16

Airport_106

2

Liam

17

Airport_108

3

Mason

15

Airport_112

4

Isabella

16

Airport_114

4 rows

Database Consoles > postgres@localhost > console

6:18 CRLF UTF-8 4 spaces

Поиск

23:41 04.11.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3
postgres1 of 3
public

Services

Database
postgres@localhost
flights1 s 206 ms
airline631 ms
console695 ms

consoleairlineflights

Tx: AutoPlayground

postgres.public

1select f.flight_id, f.sch_departure_time, a.airport_name
2from flights f
3join airport a 1..n<->1: on f.departing_airport_id = a.airport_id;
4

OutputResult 11

Tx: AutoDDL

CSV

	flight_id	sch_departure_time	airport_name
1	10	2024-12-31 14:00:00.000000	Airport_10
2	31	2025-10-10 10:00:00.000000	Airport_11
3	21	2025-10-10 10:00:00.000000	Airport_11
4	32	2025-10-11 09:00:00.000000	Airport_13
5	22	2025-10-15 08:00:00.000000	Airport_13
6	33	2025-10-12 08:00:00.000000	Airport_15
7	23	2025-10-18 09:00:00.000000	Airport_15
8	24	2025-10-19 07:30:00.000000	Airport_17
9	34	2025-10-13 07:30:00.000000	Airport_17
10	25	2025-10-20 06:00:00.000000	Airport_19
11	35	2025-10-14 06:00:00.000000	Airport_19
12	36	2025-10-15 10:00:00.000000	Airport_21
13	37	2025-10-16 09:00:00.000000	Airport_23
14	38	2025-10-17 08:00:00.000000	Airport_25
15	39	2025-10-18 07:30:00.000000	Airport_27
16	40	2025-10-19 06:00:00.000000	

16 rows9

Database Consoles > postgres@localhost > console

2:15CRLFUTF-84 spaces

22:3004.11.2025

Database Explorer

postgres@localhost

- baggage_check
- boarding_pass
- booking
- booking_flight
- flights
- passengers
- security_check
- Database Objects
- Server Objects

Services

Database

- postgres@localhost
 - airport 1 s 182 ms
 - flights 1 s 206 ms
 - booking 587 ms
 - airline 631 ms
 - console 640 ms
 - passengers 609 ms

console

- passengers
- airport
- booking
- airline
- flights

select f.flight_id, f.act_arrival_time, f.departing_gate, f.arriving_gate, a.airline_name, count(b.booking_id) as booking_count from flights f join booking b on f.flight_id = b.flight_id join airline a on f.airline_id = a.airline_id group by f.flight_id, f.act_arrival_time, f.departing_gate, f.arriving_gate, a.airline_name;

OutputResult 62

	flight_id	act_arrival_time	departing_gate	arriving_gate	airline_name	book
1	6	2024-12-05 18:35:00.000000	A105	B105	Airline E	
2	10	2025-05-01 16:05:00.000000	A10	B10	AirEasy	
3	8	2024-12-07 20:40:00.000000	A107	B107	Airline G	
4	7	2024-12-06 19:10:00.000000	A106	B106	Airline F	
5	2	2024-12-01 12:10:00.000000	A101	B101	KazAir	
6	4	2024-12-03 10:25:00.000000	A103	B103	FlyHigh	
7	5	2024-12-04 16:10:00.000000	A104	B104	FlyFly	
8	3	2024-12-02 13:40:00.000000	A102	B102	AirEasy	
9	9	2024-12-08 11:10:00.000000	A108	B108	Airline H	

9 rows

Database Consoles > postgres@localhost > console

6:93CRLFUTF-84 spaces23:4604.11.2025

Database Explorer

postgres@localhost 1 of 3

postgres 1 of 3

public

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

Services

Database

postgres@localhost

airport 1 s 182 ms

flights 1 s 206 ms

airline 631 ms

console 599 ms

booking 697 ms

console

airport

booking

airline

flights

postgres.public

select f.flight_id,
avg(b.ticket_price) as average_price,
sum(b.ticket_price) as total_price,
max(b.ticket_price) as max_price,
min(b.ticket_price) as min_price
from booking b
join flights f on b.flight_id = f.flight_id
group by f.flight_id;

Output

Result 24

	flight_id	average_price	total_price	max_price	min_price
1	3	10925	10925	10925	10925
2	4	17250	17250	17250	17250
3	2	13800	13800	13800	13800
4	9	23000	23000	23000	23000
5	7	14950	14950	14950	14950
6	6	12650	12650	12650	12650
7	10	11270	11270	11270	11270

7 rows

Database Consoles

postgres@localhost

console

8:22

CRLF

UTF-8

4 spaces

23:03

04.11.2025

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postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

consolebookingairlineflights

console

select p.first_name, p.passport_number
from passengers p
join booking b on p.passenger_id = b.passenger_id
where b.flight_id = 2;

Services

Database

postgres@localhost

flights1 s 206 ms

airline631 ms

console713 ms

booking697 ms

Outputpostgres.public.passengers

first_namepassport_number

1AnnaP223456

1 row

Database Consoles > postgres@localhost > console

4:22CRLFUTF-84 spaces

22:3804.11.2025

