

Database Explorer

postgres@localhost [2]

- airport
- baggage
- baggage_check
- boarding_pass
- booking
 - columns
 - booking_id integer
 - flight_id integer
 - passenger_id integer
 - booking_platform varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - ticket_discount integer

console_5 console_9 lab5 lab6 x passengers airport_db.sql console_7 console_6

1 --lab6

2 --1

3 ✓ SELECT F.FLIGHT_ID, F.AIRLINE_ID, A.AIRLINE_NAME, A.AIRLINE_COUNTRY FROM flights F JOIN airline A 1.n<->1: ON F.AIRLINE_ID

4 --2

5 SELECT F.FLIGHT_ID, F.departing_airport_id, A.AIRPORT_NAME FROM FLIGHTS F JOIN AIRPORT A 1.n<->1: ON F.departing_airport_id

6 --3

7 SELECT A.airline_name

8 FROM AirLine A

9 LEFT JOIN Flights F

10 ON A.airline_id = F.airline_id

11 AND EXTRACT(YEAR FROM F.sch_departure_time) = EXTRACT(YEAR FROM NOW())

12 AND EXTRACT(MONTH FROM F.sch_departure_time) = EXTRACT(MONTH FROM NOW()) + 1

13 WHERE F.flight_id IS NULL;

14 --4

15 SELECT P.passenger_id, P.first_name , P.last_name, b.booking_id, f.departing_airport_id

16 FROM booking b

17 join passengers p 1.n<->1: on p.passenger_id = b.passenger_id

18 JOIN Flights F ON b.flight_id = F.flight_id

Services

Tx +> Output --1 x

1 row

flight_id	airline_id	airline_name	airline_country
59	47	Maddox Inc	Vietnam

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Database Consoles > postgres@localhost [2] > lab6 3:164 CRLF UTF-8 4 spaces

03:21
31.10.2024

firstprVersion control

Database Explorer

postgres@localhost [2]

- flights
 - columns 12
 - flight_id integer
 - sch_departure_time timestamp
 - sch_arrival_time timestamp
 - departing_airport_id integer
 - arriving_airport_id integer
 - departing_gate text
 - arriving_gate varchar(50)
 - airline_id integer
 - act_departure_time timestamp
 - act_arrival_time timestamp
 - created_at timestamp
 - updated_at timestamp
 - keys 2

console_5console_9lab5lab6passengersairport_db.sqlconsole_7console_6lab2_public

1--lab6

2--1

3SELECT F.FLIGHT_ID, F.AIRLINE_ID, A.AIRLINE_NAME, A.AIRLINE_COUNTRY FROM flights F JOIN airline A 1.n<->1: ON F.AIRLINE_ID =

4--2

5✓SELECT F.FLIGHT_ID, F.departing_airport_id, A.AIRPORT_NAME FROM FLIGHTS F JOIN AIRPORT A 1.n<->1: ON F.departing_airport_id

6--3

7

8

Services

Output--2x

84 rows

CSV

	flight_id	departing_airport_id	airport_name
1	1	53	Danielchester Airport
2	2	15	Robbinstown Airport
3	3	28	Priceborough Airport
4	7	61	Christopherfurt Airport
5	8	62	Lake Nicole Airport

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Database Consoles > postgres@localhost [2] > lab66.4CRLFUTF-84 spaces

Search

ENG31.10.202400:56

Database Explorer

postgres@localhost [2]

- baggage_check
- boarding_pass
- booking
- booking_flight
- flights
 - columns 12
 - flight_id integer
 - sch_departure_time timestamp
 - sch_arrival_time timestamp
 - departing_airport_id integer
 - arriving_airport_id integer
 - departing_gate text
 - arriving_gate varchar(50)
 - airline_id integer
 - act_departure_time timestamp

console_5 console_9 lab5 lab6 x passengers airport_db.sql console_7 console_6

1 --lab6

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3 SELECT F.FLIGHT_ID, F.AIRLINE_ID, A.AIRLINE_NAME, A.AIRLINE_COUNTRY FROM flights F JOIN airline A 1.n<->1: ON F.AIRLINE_ID=

4 --2

5 SELECT F.FLIGHT_ID, F.departing_airport_id, A.AIRPORT_NAME FROM FLIGHTS F JOIN AIRPORT A 1.n<->1: ON F.departing_airport_id

6

7 ✓ SELECT A.airline_name

8 FROM Airline A

9 LEFT JOIN Flights F

10 ON A.airline_id = F.airline_id

11 AND EXTRACT(YEAR FROM F.sch_departure_time) = EXTRACT(YEAR FROM NOW())

12 AND EXTRACT(MONTH FROM F.sch_departure_time) = EXTRACT(MONTH FROM NOW()) + 1

13 WHERE F.flight_id IS NULL;

14

15

16

17

Services

Tx +> Output --3 x

pass

cons

lab5

cons

cons

cons

airline_name

1 Tanner-Randall

2 Martinez Group

3 Mendez Group

4 Myers-Daniel

5 Brown LLC

Database Consoles > postgres@localhost [2] > lab6

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7:22 CRLF UTF-8 4 spaces

03:03 31.10.2024

Database Explorer

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console_5 console_9 lab5 lab6 x passengers airport_db.sql console_7 console_6

```
--2
SELECT F.FLIGHT_ID, F.departing_airport_id, A.AIRPORT_NAME FROM FLIGHTS F JOIN AIRPORT A ON F.departing_airport_id = A.airport_id;
--3
SELECT A.airline_name
FROM Airline A
LEFT JOIN Flights F
ON A.airline_id = F.airline_id
AND EXTRACT(YEAR FROM F.sch_departure_time) = EXTRACT(YEAR FROM NOW())
AND EXTRACT(MONTH FROM F.sch_departure_time) = EXTRACT(MONTH FROM NOW()) + 1
WHERE F.flight_id IS NULL;
--4
SELECT P.passenger_id, P.first_name, P.last_name, b.booking_id, f.departing_airport_id
FROM booking b
join passengers p on p.passenger_id = b.passenger_id
JOIN Flights F ON b.flight_id = F.flight_id
where f.flight_id = 10;
--5
select min(ticket_price), max(booking.ticket_price), avg(ticket_price), sum(booking.ticket_price) from booking;
```

Services

Output --4 x

passenger_id	first_name	last_name	booking_id	departing_airport_id
20	Jonathan	Green	85	21

Database Consoles > postgres@localhost [2] > lab6

19:23 CRLF UTF-8 4 spaces

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03:20
31.10.2024

Database Explorer

postgres@localhost [2]

- airport
- baggage
- baggage_check
- boarding_pass
- booking
 - columns
 - booking_id integer
 - flight_id integer
 - passenger_id integer
 - booking_platform varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - ticket_discount integer

console_5 console_9 lab5 lab6 x passengers airport_db.sql console_7 console_6

```
--2
5 SELECT F.FLIGHT_ID, F.departing_airport_id, A.AIRPORT_NAME FROM FLIGHTS F JOIN AIRPORT A 1..n<->1 ON F.departing_airport_id
6 --3
7 SELECT A.airline_name
8 FROM AirLine A
9 LEFT JOIN Flights F
10 ON A.airline_id = F.airline_id
11 AND EXTRACT(YEAR FROM F.sch_departure_time) = EXTRACT(YEAR FROM NOW())
12 AND EXTRACT(MONTH FROM F.sch_departure_time) = EXTRACT(MONTH FROM NOW()) + 1
13 WHERE F.flight_id IS NULL;
14 --4
15 SELECT P.passenger_id, P.first_name, P.last_name, b.booking_id, f.departing_airport_id
16 FROM booking b
17 join passengers p 1..n<->1 on p.passenger_id = b.passenger_id
18 JOIN Flights F ON b.flight_id = F.flight_id;
19
20 select min(ticket_price), max(booking.ticket_price), avg(ticket_price), sum(booking.ticket_price) from booking;
```

Services

Output --5 x

	min	max	avg	sum
lab5	59.24	3000	208.700873786407767	21496.19

Database Consoles > postgres@localhost [2] > lab6

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20:38 CRLF UTF-8 4 spaces

03:16
31.10.2024

Database Explorer

postgres@localhost [2]

- airport
- baggage
- baggage_check
- boarding_pass
- booking
 - columns ()
 - booking_id integer
 - flight_id integer
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 - booking_platform varchar(50)
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console_5 console_9 lab5 lab6 passengers airport_db.sql console_7 console_6

13 WHERE F.flight_id IS NULL;

14 --4

15 SELECT P.passenger_id, P.first_name, P.last_name, b.booking_id, f.departing_airport_id

16 FROM booking b

17 join passengers p 1.n<->1: on p.passenger_id = b.passenger_id

18 JOIN Flights F ON b.flight_id = F.flight_id

19 where f.flight_id = 10;

20 --5

21 select min(ticket_price), max(booking.ticket_price), avg(ticket_price), sum(booking.ticket_price) from booking;

22 --6

23 ✓ SELECT F.flight_id, A.airline_name, F.departing_airport_id, F.arriving_airport_id, AP.airport_name, AP.country

24 FROM Flights F

25 JOIN Airport AP 1.n<->1: ON F.arriving_airport_id = AP.airport_id

26 JOIN Airline A 1.n<->1: ON F.airline_id = A.airline_id

27 WHERE AP.country = 'Iran';

28

29

30

Services

Tx +> Output --6 x

3 rows

flight_id	airline_name	departing_airport_id	arriving_airport_id	airport_name	country
3	Graham-Peterson	28	71	West Tiffanymouth Airport	Iran
86	Adams-McCullough	38	71	West Tiffanymouth Airport	Iran
183	Graham-Peterson	28	71	West Tiffanymouth Airport	Iran

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Database Consoles > postgres@localhost [2] > lab6 27:25 CRLF UTF-8 4 spaces

03:25 31.10.2024

Database Explorer

postgres@localhost [2]

- airport
- baggage
- baggage_check
- boarding_pass
- booking
 - columns
 - booking_id integer
 - flight_id integer
 - passenger_id integer
 - booking_platform varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - ticket_discount integer
 - keys 2
 - foreign keys 1
 - indexes 2
 - checks 2
- booking_flight

console_5 console_9 lab5 lab6 passengers airport_db.sql console_7 console_6

```
27 WHERE AP.country = 'Iran';
28 --7
29 alter table passengers drop constraint check_age_country;
30 alter table passengers drop constraint check_age_gender;
31
32 INSERT INTO Passengers(PASSENGER_ID, FIRST_NAME, LAST_NAME, DATE_OF_BIRTH, GENDER, COUNTRY_OF_CITIZENSHIP, COUNTRY_OF_RESID
33 INSERT INTO Passengers(PASSENGER_ID, FIRST_NAME, LAST_NAME, DATE_OF_BIRTH, GENDER, COUNTRY_OF_CITIZENSHIP, COUNTRY_OF_RESID
34 INSERT INTO Passengers(PASSENGER_ID, FIRST_NAME, LAST_NAME, DATE_OF_BIRTH, GENDER, COUNTRY_OF_CITIZENSHIP, COUNTRY_OF_RESID
35
36 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) V
37 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) V
38 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) V
39
40 SELECT P.passenger_id, P.first_name, P.date_of_birth, AP.airport_name
41 FROM booking b
42 join passengers P 1.n<->1: on P.passenger_id = b.passenger_id
43 JOIN Flights F ON b.flight_id = F.flight_id
44 JOIN Airport AP 1.n<->1: ON F.arriving_airport_id = AP.airport_id
45 WHERE 2024 - extract(year from date_of_birth) < 18; -- Assuming minors are passengers under 18 years old
46
47
48
```

Services

Output Result 23 x

passenger_id	first_name	date_of_birth	airport_name
1120	ALIKHAN	2012-12-20	Rowebury Airport

Database Consoles > postgres@localhost [2] > lab6

39.1 CRLF UTF-8 4 spaces

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03:38
31.10.2024

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 - booking_id integer
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 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - ticket_discount integer

console_5 console_9 lab5 lab6 x passengers airport_db.sql console_7 console_6

```
38 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, t
39
40 SELECT P.passenger_id, P.first_name, P.date_of_birth, AP.airport_name
41 FROM booking b
42 join passengers P 1.n<>1: on P.passenger_id = b.passenger_id
43 JOIN Flights F ON b.flight_id = F.flight_id
44 JOIN Airport AP 1.n<>1: ON F.arriving_airport_id = AP.airport_id
45 WHERE 2024 - extract(year from date_of_birth) < 18;
46 --8
47 SELECT CONCAT(P.first_name, ' ', P.last_name) AS full_name, P.passport_number, F.arriving_airport_id
48 FROM Passengers P
49 JOIN Booking B 1.<>1.n: ON P.passenger_id = B.passenger_id
50 JOIN Flights F ON B.flight_id = F.flight_id
51 WHERE F.act_arrival_time IS NOT NULL;
52
53 --9
54
```

Services

Output --8 x

	full_name	passport_number	arriving_airport_id
1	Tracy Freeman	804118895	59
2	Angela Kirk	265106968	24
3	Lacey Parks	560000022	17
4	Alyssa Powell	840694069	71
5	Alicia Andrews	346130978	63
6	Heather Aguilar	364433472	58

Database Consoles > postgres@localhost [2] > lab6

53:4 CRLF UTF-8 4 spaces

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03:41
31.10.2024

firstpr Version control

Database Explorer

- postgres@localhost [2]
 - arriving_airport_id integer
 - departing_gate text
 - arriving_gate varchar(50)
 - airline_id integer
 - act_departure_time timestamp
 - act_arrival_time timestamp
 - created_at timestamp
 - updated_at timestamp
 - keys 2
 - foreign keys 3
 - fk_airline_flights (airline_id) → airline (airline_id)
 - fk_arriving_airport (arriving_airport_id) → airport (airport_id)
 - fk_departing_airport (departing_airport_id) → airport (airport_id)
 - indexes 2
 - constraints

Services

Output airport_country:varchar(50) ×

airport_country
Kazakhstan

Database Consoles > postgres@localhost [2] > lab6

61:37 CRLF UTF-8 4 spaces

03:58 31.10.2024

```
20 JOIN Flights F ON F.flight_id = F.flight_id
51 WHERE F.act_arrival_time IS NOT NULL;
52
53 --9
54 INSERT INTO Airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at) VALUES (airline_id 149,
55 INSERT INTO Airport (airport_id, airport_name, country, state, city, created_at, updated_at) VALUES (airport_id 1175, airport_
56
57
58 INSERT INTO Flights (flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id, departing_
59
60
61 SELECT AP.country AS airport_country
62 FROM Flights F
63 JOIN Airline A 1..n<=>1 ON F.airline_id = A.airline_id
64 JOIN Airport AP 1..n<=>1 ON F.departing_airport_id = AP.airport_id
65 WHERE A.airline_country = AP.country
66 GROUP BY AP.country;
```