Database Explorer

Files

Tx: Auto   Playground   postgres.lab2

```
1   select f.flight_id, al.airline_name
2   from flights f
3   join airline al  1..n<->1:  on f.airline_id = al.airline_id
4   where al.airline_name = 'Airline_1'
5
```

Lab 2 DB   ~/Data

Scratches and Co

postgres@localhost

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

columns 12

keys 1

foreign keys 3

indexes 1

passengers

security_check

Services

Output   Result 173

Tx: Auto   DDL   CSV

Database

postgres@localhost

flights 686 ms

airline 386 ms

console_5 876 ms

🔑 flight_id ▽ ⇕	◰ airline_name ▽ ⇕
1	200	Airline_1
2	999	Airline_1

2 rows

Database Explorer

console_5   ⊞ flights   ⊞ airline

Files ⌄

⊞ ▷ DDL ↔ 👁   ▷ ⏱ ⏲ ⚙ ⬚   Tx: Auto ⌄   ⬛   Playground ⌄   ⊞ postgres.lab2 ⌄

⌄ ⊟ Lab 2 DB   ~/Data

```
1 ✓  select f.flight_id,
2           f.sch_departure_time,
3           a_from.airport_name as departing_airport
4    from flights f
5    join airport a_from  1..n<->1: on a_from.airport_id = f.departing_airport_id
6
```

✓

⌄ ≡ Scratches and Co

🐘 postgres@localhost

⌄ 🗁 tables 10
  › ⊞ airline
  › ⊞ airport
  › ⊞ baggage
  › ⊞ baggage_check
  › ⊞ boarding_pass
  › ⊞ booking
  › ⊞ booking_flight
  ⌄ ⊞ flights
    › 🗁 columns 12
    › 🗁 keys 1
    › 🗁 foreign keys 3
    › 🗁 indexes 1
  › ⊞ passengers
  › ⊞ security_check

Services

Tx ⊕ 👁 ⟳ ⇅ ⤫

⊞ ⟳ ⏱ ⬛   ⊕ ⊖ ↶ ⟳ ⬆   Tx: Auto ⌄   DDL   📌 🔍 ⊟ 🎨   CSV ⌄   ⬇ ⬆ ↔ 👁 ⚙

⌄ 🗁 Database
  ⌄ 🐘 postgres@localhost
    ⊞ flights 686 ms
    ⊞ airline 386 ms
    🐘 console_5 813 ms

⬜ Output   ⊞ Result 175

	🔑 flight_id ▽ ⇕	⊞ sch_departure_time ▽ ⇕	⊞ departing_airport ▽ ⇕
1	1	2025-09-23 21:46:32.067402	Airport_2
2	2	2025-09-23 22:46:32.067402	Airport_3
3	3	2025-09-23 23:46:32.067402	Airport_4
4	4	2025-09-24 00:46:32.067402	Airport_5
5	5	2025-09-24 01:46:32.067402	Airport_6
6	6	2025-09-24 02:46:32.067402	Airport_7
7	7	2025-09-24 03:46:32.067402	Airport_8
8	8	2025-09-24 04:46:32.067402	Airport_9
9	9	2025-09-24 05:46:32.067402	Airport_10
10	10	2025-09-24 06:46:32.067402	Airpo

201 rows ⌄

```sql
select al.airline_id, al.airline_name, f.flight_id
from airline al
left join flights f
  on f.airline_id = al.airline_id
  and f.sch_departure_time >= timestamp '2025-09-01 00:00:00'
  and f.sch_departure_time <  timestamp '2025-10-01 00:00:00'
group by al.airline_id, al.airline_name, f.flight_id
having count(f.flight_id) = 0
order by al.airline_name;
```

postgres@localhost
  tables 10
    airline
    airport
    baggage
    baggage_check
    boarding_pass
    booking
    booking_flight
    flights
      columns 12
      keys 1
      foreign keys 3
      indexes 1
    passengers
    security_check

Services

Output   Result 187

Database
  postgres@localhost
    flights 686 ms
    airline 386 ms
    console_5 372 ms

CSV

airline_id	airline_name	flight_id
1	202	AirEasy	<null>
2	1	Airline_1	<null>
3	173	Airline_173	<null>
4	174	Airline_174	<null>
5	175	Airline_175	<null>
6	176	Airline_176	<null>
7	177	Airline_177	<null>
8	178	Airline_178	<null>
9	179	Airline_179	<null>
10	180	Airline_180	

38 rows

Database Explorer

console_5   booking   flights   airline

Files

Tx: Auto   Playground   postgres.lab2   taGripProjects/Lab 2 DB

Consoles

```sql
1  select p.passenger_id,
2         p.first_name || ' ' || p.last_name as full_name
3  from booking b
4  join passengers p 1..n<->1: on p.passenger_id = b.passenger_id
5  where b.flight_id = '1';
```

postgres@localhost
  tables 10
    airline
    airport
    baggage
    baggage_check
    boarding_pass
    booking
    booking_flight
    flights
      columns 12
      keys 1
      foreign keys 3
      indexes 1
    passengers
    security_check

Services

Output   Result 188   Result 188

CSV

passenger_id	full_name
1	Name_1 Surname_1

Database
  postgres@localhost
    flights 686 ms
    booking 381 ms
    Airline 386 ms
    console_5 368 ms

1 row

Database Explorer

console_5   booking   flights   airline

Files

postgres.lab2   taGripProjects/Lab 2 DB

postgres@localhost

tables 10
  airline
  airport
  baggage
  baggage_check
  boarding_pass
  booking
  booking_flight
  flights
    columns 12
    keys 1
    foreign keys 3
    indexes 1
  passengers
  security_check

```
1    select
2      f.flight_id,
3      ROUND(AVG(b.ticket_price), 2) as avg_price,
4      SUM(b.ticket_price) as total_price,
5      MAX(b.ticket_price) as max_price,
6      MIN(b.ticket_price) as min_price
7    from flights f
8    join booking b  1<->1..n: on b.flight_id = f.flight_id
9    group by f.flight_id
10   order by f.flight_id;
```

Consoles

Services

Tx

Database
  postgres@localhost
    flights 686 ms
    booking 381 ms
    airline 386 ms
    console_5 358 ms

Output   Result 204

CSV

flight_id	avg_price	total_price	max_price	min_price
1	1	11730	11730	11730	11730
2	2	11501.15	11501.15	11501.15	11501.15
3	3	11502.3	11502.3	11502.3	11502.3
4	4	11503.45	11503.45	11503.45	11503.45
5	5	11504.6	11504.6	11504.6	11504.6
6	6	11505.75	11505.75	11505.75	11505.75
7	7	11506.9	11506.9	11506.9	11506.9
8	8	11508.05	11508.05	11508.05	11508.05
9	9	11509.2	11509.2	11509.2	11509.2
10	10	11510.35	11510.35	11510.35	11510.35

200 rows

Database Consoles > postgres@localhost > console_5

10:22   LF   UTF-8   4 spaces

Database Explorer

console_5   airport   booking   flights   airline

Tx: Auto   Playground   postgres.lab2   taGripProjects/Lab 2 DB

Consoles

```sql
 1   select f.flight_id,
 2           al.airline_name,
 3           a_from.city  as from_city,  a_from.country  as from_country,
 4           a_to.city    as to_city,    a_to.country    as to_country
 5   from flights f
 6   join airline al      1..n<->1:  on al.airline_id = f.airline_id
 7   join airport a_from  1..n<->1:  on a_from.airport_id  = f.departing_airport_id
 8   join airport a_to    1..n<->1:  on a_to.airport_id    = f.arriving_airport_id
 9   where a_to.country = 'Country_1';
10
```

postgres@localhost
  tables 10
    airline
    airport
    baggage
    baggage_check
    boarding_pass
    booking
    booking_flight
    flights
      columns 12
      keys 1
      foreign keys 3
      indexes 1
    passengers
    security_check

Services

Database
  postgres@localhost
    flights 686 ms
    booking 381 ms
    Airline 386 ms
    console_5 362 ms
    airport 416 ms

Output   Result 211   CSV

flight_id	airline_name	from_city	from_country	to_city	to_country
1	9 Airline_10	City_11	Country_1	City_11	Country_1
2	19 Airline_20	City_1	Country_1	City_1	Country_1
3	29 Airline_30	City_11	Country_1	City_11	Country_1
4	39 Airline_40	City_1	Country_1	City_1	Country_1
5	49 Airline_50	City_11	Country_1	City_11	Country_1
6	59 Airline_60	City_1	Country_1	City_1	Country_1
7	69 Airline_70	City_11	Country_1	City_11	Country_1
8	79 Airline_80	City_1	Country_1	City_1	Country_1
9	89 Airline_90	City_11	Country_1	City_11	Country_1
10	99 Airline_100	City_1	Country_1	City_1	Country_1

20 rows

Database Explorer

console_5 × | passengers | airport | booking | flights | airline

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
public
Database Objects

Tx: Auto   Playground   postgres.lab2

```sql
select p.passenger_id,
       p.first_name || ' ' || p.last_name as full_name,
       EXTRACT(YEAR FROM age(p.date_of_birth)) as age_years,
       a_to.city, a_to.country, a_to.airport_name
from passengers p
join booking b   1<->1..n: on b.passenger_id = p.passenger_id
join flights f   1..n<->1: on f.flight_id     = b.flight_id
join airport a_to  1..n<->1: on a_to.airport_id = f.arriving_airport_id
where EXTRACT(year from age(p.date_of_birth)) < 18;
```

Services

Output | Result 247 ×

Database
postgres@localhost
flights 686 ms
booking 381 ms
airline 386 ms
passengers 394 ms
console_5 355 ms
airport 416 ms

CSV

passenger_id	full_name	age_years	city	country	airport_name
201	Максим Донков	15	City_3	Country_3	Airport_102

1 row

Database Explorer

postgres.lab2 ∨

```
1  select p.first_name || ' ' || p.last_name as full_name,
2         p.passport_number,
3         f.act_arrival_time as cur_arrival_time
4  from passengers p
5  join booking b  1<->1..n: on b.passenger_id = p.passenger_id
6  join flights  f  1..n<->1: on f.flight_id = b.flight_id;
```

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
      public
    Database Objects

Services

  Database
    postgres@localhost
      flights 686 ms
      booking 381 ms
      airline 386 ms
      passengers 394 ms
      console_5 352 ms
      airport 416 ms

Output | ⊞ Result 252 ✕

CSV ∨

	⊞ full_name	🔽	⊞ passport_number	🔽		⊞ cur_arrival_time	🔽	
1	Name_8 Surname_8		P8			2025-09-24 06:46:32.067402		
2	Name_9 Surname_9		P9			2025-09-24 07:46:32.067402		
3	Name_10 Surname_10		P10			2025-09-24 08:46:32.067402		
4	Name_11 Surname_11		P11			2025-09-24 09:46:32.067402		
5	Name_12 Surname_12		P12			2025-09-24 10:46:32.067402		
6	Name_13 Surname_13		P13			2025-09-24 11:46:32.067402		
7	Name_14 Surname_14		P14			2025-09-24 12:46:32.067402		
8	Name_15 Surname_15		P15			2025-09-24 13:46:32.067402		
9	Name_16 Surname_16		P16			2025-09-24 14:46:32.067402		
10	Name_17 Surname_17		P17			2025-0...67402		

202 rows ∨

Database Explorer

Tx: Auto ∨   Playground ∨   postgres.lab2 ∨

```sql
1   select f.flight_id, al.airline_name, a_from.country
2   from flights f
3   join airline al  1..n<->1:  on al.airline_id = f.airline_id
4   join airport a_from  1..n<->1:  on a_from.airport_id = f.departing_airport_id
5   where al.airline_country = a_from.country
6   order by a_from.country, f.flight_id;
```

- ∨ 🐘 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
      - ∨ 🗂 public
      - ∨ 🗄 Database Objects

Services

- ∨ 🗂 Database
  - ∨ 🐘 postgres@localhost
    - ⊞ flights 686 ms
    - ⊞ booking 381 ms
    - ⊞ airline 386 ms
    - ⊞ passengers 394 ms
    - 🐘 console_5 356 ms
    - ⊞ airport 416 ms

🔲 Output   ⊞ Result 254 ✕

Tx: Auto ∨   DDL   CSV ∨

	🔑 flight_id ▽ ⇅	▭ airline_name ▽ ⇅	▭ country ▽ ⇅
1	9	Airline_10	Country_1
2	19	Airline_20	Country_1
3	29	Airline_30	Country_1
4	39	Airline_40	Country_1
5	49	Airline_50	Country_1
6	59	Airline_60	Country_1
7	69	Airline_70	Country_1
8	79	Airline_80	Country_1
9	89	Airline_90	Country_1
10	99	Airline_100	Country_1

201 rows ∨