

Database Explorer

postgres@localhost [2]

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

act_arrival_time timestamp

lab5 lab6 lab7 lab8 x console_7 console_8 console_9

lab2.public Analyzing...

1 --lab8

2 --1

3 create view flight_info AS

4 select * from flights

5 where sch_departure_time = '2020-06-06 19:08:20';

6

7 ✓ select * from flight_info;

Files

firstpr C:\Users\Lenovo\DataGripProjects\firstpr

Scratches and Consoles

Database Consoles

postgres@localhost [2]

Databases

console

console_1

console_2

console_3

console_4

console_5

console_6

console_7

console_8

console_9

console_10

Services

Tx

Output lab2.public.flight_info x

CSV

1 row

flight_id sch_departure_time sch_arrival_time departing_airport_id arriving_airport_id departing_gate arriving_gate

16 2020-06-06 19:08:20.000000 2022-08-11 20:30:31.000000 46 39 R4 F5

Activate Windows

Go to Settings to activate Windows.

7:26 CRLF UTF-8 4 spaces

5°C Cloudy

Search

16:59 13.11.2024

firstprVersion control

Database Explorer

postgres@localhost [2]

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

foreign keys

lab5lab6lab7lab8console_7console_8console_9

lab2.public

7select * from flight_info;

8

9--2

10create view booking_info as

11select

12b.booking_id, b.passenger_id, f.flight_id, f.sch_departure_time

13from booking b

14join flights f on b.flight_id = f.flight_id

15where f.sch_departure_time between '2024-11-13 19:08:20' and '2024-11-20 19:08:20';

16

17INSERT INTO Flights (flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, ar

18INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, update

19

20

21select * from booking_info;

Files

firstprC:\Users\Lenovo\DataGripProjects\firstpr

Scratches and Consoles

Database Consoles

postgres@localhost [2]

Databases

console

console_1

console_2

console_3

console_4

console_5

console_6

console_7

console_8

console_9

console_10

Services

Outputlab2.public.booking_info

CSV

lab2.public.booking_info

booking_idpassenger_idflight_idsch_departure_time

188941542024-11-15 13:54:45.000000

Database Consoles

postgres@localhost [2]

lab8

21:24CRLFUTF-84 spaces

Activate Windows

Go to Settings to activate Windows.

17:0913.11.2024

firstpr - Version control

Database Explorer

- postgres@localhost [2]
 - country varchar(50)
 - state varchar(50)
 - city varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - keys 2
 - indexes 2
 - checks 1
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flight

lab5 lab6 lab7 lab8 x console_7 console_8 console_9

```
20
21 select * from booking_info;
22 --3
23 --join flights on airport
24 create view routes_info as
25     select da.airport_name as departing_airpot, aa.airport_name as arriving_airport, count(b.flight_id) as number_of_routes
26 from flights f
27 join booking b on f.flight_id = b.flight_id
28 join airport da on f.departing_airport_id = da.airport_id
29 join airport aa on f.arriving_airport_id = aa.airport_id
30 group by da.airport_name, aa.airport_name
31 order by number_of_routes desc
32 limit 5;
33
34 select * from routes_info;
```

Files

- firstpr - C:\Users\Lenovo\DataGripProjects\firstpr
- Scratches and Consoles
 - Database Consoles
 - postgres@localhost [2]
 - Databases
 - console
 - console_1
 - console_2
 - console_3
 - console_4
 - console_5
 - console_6
 - console_7
 - console_8
 - console_9
 - console_10

Services

Output lab2.public.routes_info

	departing_airpot	arriving_airport	number_of_routes
1	Robbinstown Airport	East Travis Airport	5
2	East April Airport	Rowebury Airport	4
3	Melvinbury Airport	Timothyside Airport	3
4	Danielchester Airport	East James Airport	3
5	Pamelaport Airport	West Johnchester Airport	3

Database Consoles > postgres@localhost [2] > lab8

Activate Windows
Go to Settings to activate Windows.

34:24 CRLF UTF-8 4 spaces

5°C Light rain

Search

18:29 13.11.2024

firstprVersion control

lab5lab6lab7lab8console_7console_8console_9console_6console_2console_5

lab2 public

```
33
34 select * from routes_info;
35 --4
36 create or replace view flights_of_airline as
37     select f.flight_id, a.airline_id, a.airline_name
38     from flights f
39     join airline a 1,1 on f.airline_id = a.airline_id
40     where a.airline_id = 1;
41
42
43
44 select * from flights_of_airline;
```

Services

Outputlab2.public.flights_of_airline

2 rows

DDL

CSV

44:14

CRLF

UTF-8

4 spaces

	flight_id	airline_id	airline_name
1	31	1	Tanner-Randall
2	81	1	Tanner-Randall

Database Consoles

postgres@localhost [2]lab8

44:14CRLFUTF-84 spaces

5°C
Light rain

Search

ENG18:36
13.11.2024

firstprVersion control

lab5lab6lab7lab8console_7console_8console_9console_6console_2console_5

lab2 public

1^v

--5

create or replace view flights_of_airline as

select f.flight_id, a.airline_id, a.airline_name

from flights f

join airline a 1,nc>1 on f.airline_id = a.airline_id

where a.airline_id = 1 and f.sch_departure_time between '2024-11-13 19:08:20' and '2024-11-20 19:08:20';

--6

create view lfights_delayed_24_hours as

select flight_id, sch_departure_time, act_departure_time

from flights

where

extract(epoch from act_departure_time) - extract(epoch from sch_departure_time) > 86400;

select * from lfights_delayed_24_hours;

Services

Outputlab2.public.lights_delayed_24_hours

56 rows

Tx: AutoDDL

CSV

59:8CRLFUTF-84 spaces

lab8

	flight_id	sch_departure_time	act_departure_time
1	1	2020-08-09 14:44:46.000000	2023-11-04 18:14:00.000000
2	2	2021-07-30 22:08:44.000000	2022-10-29 16:00:58.000000
3	3	2021-01-02 13:54:45.000000	2023-04-20 16:23:46.000000
4	8	2022-02-25 07:50:40.000000	2022-05-24 16:58:43.000000
5	9	2021-02-25 10:15:38.000000	2024-01-06 14:45:30.000000
6	10	2020-06-25 00:39:44.000000	2023-02-27 00:22:33.000000
7	12	2020-02-11 08:41:49.000000	2023-03-07 17:48:05.000000

Activate Windows
Go to Settings to activate Windows.

Database Consolespostgres@localhost [2]lab8

5°C
Light rain

Search

ENG18:50
13.11.2024

Database Explorer

postgres@localhost [2]

- flights
- passengers
 - columns
 - passenger_id integer
 - first_name varchar(50)
 - last_name varchar(50)
 - date_of_birth date
 - gender varchar(50)
 - country_of_citizenship varchar(50)
 - country_of_residence varchar(50)
 - passport_number varchar(20)
 - created_at timestamp
 - updated_at timestamp

Services

Output lab2.public.booking_platform_lt

	full_name	country_of_citizenship	booking_platform
1	Angela Kirk	United States of America	Agent
2	Alyssa Powell	Cocos (Keeling) Islands	Agent
3	Heather Aguilar	Bolivia	Agent
4	Katherine Vincent	Thailand	Agent
5	Marc English	Ukraine	Agent
6	Veronica Allen	Tuvalu	Agent
7	Connie Hardy	Cameroon	Agent

lab5 lab6 lab7 lab8 console_7 console_8 console_9 console_6 console_2 console_5

lab8

```
55 create view lfights_delayed_24_hours as
56 where
57     extract(epoch from act_departure_time) - extract(epoch from sch_departure_time) > 86400;
58
59 select * from lfights_delayed_24_hours;
60 --7
61 create view booking_platform_lt as
62     select CONCAT(p.first_name, ' ', p.last_name) as full_name, p.country_of_citizenship, b.booking_platform
63 from booking b
64 join passengers p on b.passenger_id = p.passenger_id
65 where booking_platform = 'Agent';
66
67 select * from booking_platform_lt;
68 --8
69
```

Database Consoles

postgres@localhost [2] lab8

67:10 CRLF UTF-8 4 spaces

19:02 13.11.2024

Database Explorer

postgres@localhost [2]

tables 10

airline

columns 6

airline_id integer

airline_code varchar(30)

airline_name varchar(50)

airline_country varchar(50)

created_at timestamp

updated_at timestamp

keys 2

indexes 2

airport

baggage

lab5 lab6 lab7 lab8 console_7 console_8 console_9 console_6 console_2 console_5

lab8

create view most_vivsted_countries as

from flights f

join booking b on f.flight_id = b.flight_id

join airport de on f.departing_airport_id = de.airport_id

join airport ae on f.arriving_airport_id = ae.airport_id

group by de.airport_name, ae.airport_name, ae.country

order by number_of_flights desc

limit 5;

select * from most_vivsted_countries;

Services

Output lab2.public.most_vivsted_countries

5 rows

DDL

CSV

77:8 CRLF UTF-8 4 spaces

Activate Windows
Go to Settings to activate Windows.

Database Consoles > postgres@localhost [2] > lab8

5°C Light rain

Search

19:08 13.11.2024

Database Explorer

postgres@localhost [2]

- tables 10
 - airline
 - columns 6
 - airline_id integer
 - airline_code varchar(30)
 - airline_name varchar(50)
 - airline_country varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - keys 2
 - indexes 2
 - airport
 - baggage

lab5lab6lab7lab8console_7console_8console_9console_6console_2console_5

lab8 x Playground

```
77 limit 5;
78
79 select * from most_vivsted_countries;
80
81 --9
82 create or replace view most_vivsted_countries as
83     select da.airport_name as departing_airpot, aa.airport_name as arriving_airport, count(b.booking_id) as number_of_flights, aa.country as
84 from flights f
85 join booking b on f.flight_id = b.flight_id
86 join airport da 1.n<->1: on f.departing_airport_id = da.airport_id
87 join airport aa 1.n<->1: on f.arriving_airport_id = aa.airport_id
88 group by da.airport_name, aa.airport_name , aa.country, aa.city
89 order by number_of_flights desc
90 limit 10;
91 ✓ select * from most_vivsted_countries;
92
```

Services

Output lab2.public.most_vivsted_countries x

cons lab7 lab8

	departing_airport	arriving_airport	number_of_flights	country	city
1	Robbinstown Airport	East Travis Airport	5	Niger	Bakerberg
2	East April Airport	Rowebury Airport	4	Greenland	Contrerashaven
3	Pamelaport Airport	West Johnchester Airport	3	Isle of Man	Kennethmouth
4	Melvinbury Airport	Timothyside Airport	3	Tunisia	East Stephanie
5	Danielchester Airport	East James Airport	3	Croatia	South Cindy
6	West Johnchester Airport	North Tombury Airport	3	Mauritania	New Allisonbury
7	Mooreborough Airport	West Tiffanvmouth Airport	3	Iran	East Jacqueline

Database Consoles > postgres@localhost [2] > lab8

5°C Light rain

Search

ENG 19:09 13.11.2024

Activate Windows
Go to Settings to activate Windows.

Database Explorer

postgres@localhost [2] 3 of 7

db 3

lab2 3

information_schema

pg_catalog

public

tables 10

airline

columns 6

airline_id integer

airline_code varchar(30)

airline_name varchar(50)

airline_country varchar(50)

created_at timestamp

lab5 lab6 lab7 lab8 console_7 console_8 console_9 console_6 console_2 console_5

lab2.public

79 select * from most_vivsted_countries;

80

81 --9

82 create or replace view most_vivsted_countries as

83 select da.airport_name as departing_airpot, aa.airport_name as arriving_airport, count(b.booking_id) as number_of_flights, aa.country as

84 from flights f

85 join booking b on f.flight_id = b.flight_id

86 join airport da on f.departing_airport_id = da.airport_id

87 join airport aa on f.arriving_airport_id = aa.airport_id

88 group by da.airport_name, aa.airport_name, aa.country, aa.city

89 order by number_of_flights desc

90 limit 10;

91 select * from most_vivsted_countries;

92 --10

93 drop view most_vivsted_countries, booking_platform_LT, lfights_delayed_24_hours, flights_of_airline, routes_info, booking_info, flight_info;

94

Services

lab2.public.most_vivsted_countries

join airport aa on f.arriving_airport_id = aa.airport_id

group by da.airport_name, aa.airport_name, aa.country, aa.city

order by number_of_flights desc

limit 10

[2024-11-13 19:09:18] completed in 10 ms

lab2.public> select * from most_vivsted_countries

[2024-11-13 19:09:37] 10 rows retrieved starting from 1 in 52 ms (execution: 9 ms, fetching: 43 ms)

lab2.public> drop view most_vivsted_countries, booking_platform_LT, lfights_delayed_24_hours, flights_of_airline, routes_info, booking_info, flight_info

[2024-11-13 19:19:42] completed in 35 ms

lab7

lab5

Database Consoles > postgres@localhost [2] > lab8

93.144 CRLF UTF-8 4 spaces

19:19 13.11.2024

5°C Light rain

Search

ENG