

firstprVersion control

Database Explorer

postgres@localhost [2]

- gender varchar(50)
- country_of_citizenship varchar(50)
- country_of_residence varchar(50)
- passport_number varchar(20)
- created_at timestamp
- updated_at timestamp
- keys
 - check_age (extract(year from ...))
- indexes
- checks
- security_check

Database Objects

- postgres
- Server Objects

console_5console_9lab3lab5passengersairport_db.sql

lab2.public

1--lab5
2--1
3ALTER TABLE passengers
4ADD CONSTRAINT check_age CHECK(
5extract(YEAR FROM date_of_birth) < 2014
6);
7--2
8ALTER TABLE booking
9ADD CONSTRAINT CHECK_PRICE CHECK(
10ticket_price BETWEEN 0 AND 50000
11);
12

Files

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- Scratches and Consoles
 - Database Consoles
 - postgres@localhost [2]
 - Databases
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 - lab3
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Services

Outputlab2.public.passengers

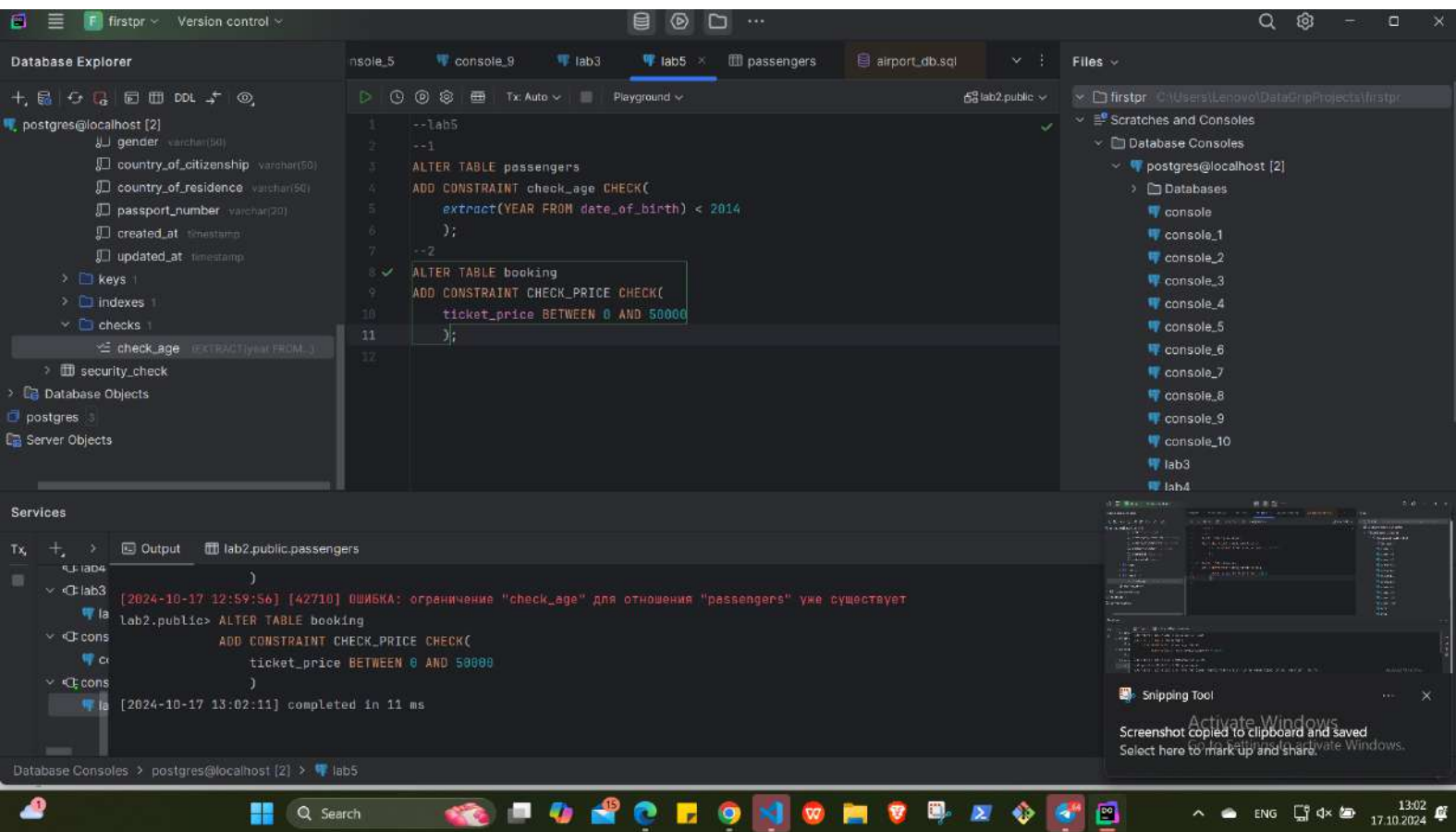
[2024-10-17 12:57:50] Connected to lab2
lab2> ALTER TABLE passengers
ADD CONSTRAINT check_age CHECK(
extract(YEAR FROM date_of_birth) < 2014
);
[2024-10-17 12:57:51] completed in 48 ms
lab2.public> SELECT * FROM passengers
[2024-10-17 12:58:10] 106 rows retrieved starting from 1 in 500 ms (execution: 14 ms, fetching: 486 ms)
lab2.public> ALTER TABLE passengers

Database Consoles > postgres@localhost [2] > lab5

11:7 CRLF UTF-8 4 spaces

Activate Windows
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13:02
17.10.2024



Database Explorer

postgres@localhost [2]

tables 10

airline

airport

baggage

columns 5

baggage_id integer

weight_in_kg numeric(4,2)

created_at timestamp

updated_at timestamp

booking_id integer

keys 1

foreign keys 1

indexes 1

checks 1

baggage_check

console_5 console_9 lab5 baggage passengers airport_db.sql

lab2.public

```
5      extract(YEAR FROM date_of_birth) < 2014
6      );
7      --2
8      ALTER TABLE booking
9      ADD CONSTRAINT CHECK_PRICE CHECK(
10         ticket_price BETWEEN 0 AND 50000
11      );
12      --3
13      update baggage set weight_in_kg = 23.00 where weight_in_kg > 23.00;
14      update baggage set weight_in_kg = 1.00 where weight_in_kg < 1.00;
15
16
17 ✓ ALTER TABLE baggage
18 ADD CONSTRAINT CHECK_WEIGHT CHECK(
19     weight_in_kg >= 1.00 AND weight_in_kg <= 23.00
20 );
21
```

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Scratches and Consoles

Database Consoles

postgres@localhost [2]

Databases

console

console_1

console_2

console_3

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console_8

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console_10

lab3

lab4

Services

Output lab2.public.passengers

lab2.public> update baggage set weight_in_kg = 1.00 where weight_in_kg < 1.00
[2024-10-17 13:16:41] completed in 3 ms

lab2.public> ALTER TABLE baggage
ADD CONSTRAINT CHECK_WEIGHT CHECK(
 weight_in_kg >= 1.00 AND weight_in_kg <= 23.00
)
[2024-10-17 13:17:02] completed in 6 ms

Database Consoles > postgres@localhost [2] > lab5

20:7 CRLF UTF-8 4 spaces

Activate Windows
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13:17
17.10.2024

firstprVersion control

Database Explorer

postgres@localhost [2]

tables 10

airline

airport

baggage

columns 5

baggage_id integer

weight_in_kg numeric(4,2)

created_at timestamp

updated_at timestamp

booking_id integer

keys 1

foreign keys 1

indexes 1

checks 1

baggage_check

insole_5console_9lab5 ×baggagepassengersairport_db.sql

lab2.public

```
9      ADD CONSTRAINT CHECK_PRICE CHECK(
10          ticket_price BETWEEN 0 AND 50000
11      );
12      --3
13      update baggage set weight_in_kg = 23.00 where weight_in_kg > 23.00;
14      update baggage set weight_in_kg = 1.00 where weight_in_kg < 1.00;
15
16
17      ALTER TABLE baggage
18      ADD CONSTRAINT CHECK_WEIGHT CHECK(
19          weight_in_kg >= 1.00 AND weight_in_kg <= 23.00
20      );
21      --4
22      ✓ alter table airport
23      add constraint check_name check(
24          length(airport_name) >= 10
25      );
26
```

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Scratches and Consoles

postgres@localhost [2]

Databases

console

console_1

console_2

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console_9

console_10

lab3

lab4

Services

Outputlab2.public.passengers

lab4

[2024-10-17 13:17:02] completed in 6 ms

lab3

lab2.public> alter table airport

cons

add constraint check_name check(

cons

length(airport_name) >= 10

cons

)

lab

[2024-10-17 13:22:19] completed in 9 ms

Database Consoles > postgres@localhost [2] > lab5

25:7CRLFUTF-84 spaces

Activate Windows
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13:22
17.10.2024

Database Explorer

postgres@localhost [2]

- country_of_residence varchar(50)
- passport_number varchar(20)
- created_at timestamp
- updated_at timestamp
- keys 2
- indexes 2
- checks 1
- security_check
 - columns 5
 - security_check_id integer
 - check_result varchar(20)
 - created_at timestamp
 - updated_at timestamp
 - passenger_id integer
 - keys 2

5 console_9 lab5 x baggage passengers airport_db.sql

lab2.public

```
45 alter table booking_flight
46 add constraint unique_booking_id unique(booking_id);
47
48 alter table flights
49 add constraint unique_flight_id unique (flight_id);
50
51 alter table passengers
52 add constraint unique_passen_id unique(passenger_id);
53
54 alter table security_check
55 add constraint unique_security_id unique(security_check_id);
56
57
```

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Services

Tx +> Output lab2.public.passengers

lab4

lab3

cons

lab2.public

cons

lab

Lab2.public> alter table security_check
add constraint unique_passengers_id unique(passenger_id)
[2024-10-17 13:40:13] [23505] ОШИБКА: создать уникальный индекс "unique_passengers_id" не удалось
[2024-10-17 13:40:13] Detail: Ключ (passenger_id)=(88) дублируется.
Lab2.public> alter table security_check
add constraint unique_security_id unique(security_check_id)
[2024-10-17 13:40:37] completed in 6 ms

Database Consoles

postgres@localhost [2] > lab5

55:31 CRLF UTF-8 4 spaces

Activate Windows

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13:40 17.10.2024

Database Explorer

postgres@localhost [2]

- keys 3
- foreign keys 3
- indexes 2
- passengers
 - columns 10
 - 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

5 console_9 lab5 baggage passengers airport_db.sql

lab2.public

```
47
48 alter Open Query Execution Settings...
49 add constraint unique_flight_id unique (flight_id);
50
51 alter table passengers
52 add constraint unique_passen_id unique(passenger_id);
53
54 alter table security_check
55 add constraint unique_securityid unique(security_check_id);
56
57 --6
58 ✓ alter table passengers
59 add constraint check_age_gender check(
60 (gender = 'Male' and extract(year from date_of_birth) <= 2006) or
61 (gender = 'Female' and extract(year from date_of_birth) <= 2005)
62 );
63
```

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Services

Tx +> Output lab2.public.passengers

lab4

lab3

cons

cons

lab

```
[2024-10-17 13:46:39] Position: 111
lab2.public> alter table passengers
add constraint check_age_gender check(
(gender = 'Male' and extract(year from date_of_birth) <= 2006) or
(gender = 'Female' and extract(year from date_of_birth) <= 2005)
)
[2024-10-17 13:47:19] completed in 12 ms
```

Database Consoles > postgres@localhost [2] > lab5

61:46 CRLF UTF-8 4 spaces

Activate Windows
Go to Settings to activate Windows.

13:47 17.10.2024

firstpr Version control

Database Explorer

- postgres@localhost [2]
 - keys 3
 - foreign keys 3
 - indexes 2
 - passengers
 - columns 10
 - 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

console_9 lab5 baggage passengers airport_db.sql cons

```
60 (gender = 'Male' and extract(year from date_of_birth) <= 2006) or
61 (gender = 'Female' and extract(year from date_of_birth) <= 2005)
62 );
63 --7\
64
65 ✓ alter table passengers
66 add constraint check_age_country check(
67 (country_of_citizenship = 'Kazakhstan' and extract(year from date_of_birth) <= 2006) or
68 (country_of_citizenship = 'France' and extract(year from date_of_birth) <= 2007) or
69 (country_of_citizenship != 'Kazakhstan' AND country_of_citizenship != 'France' AND
70 )
71 );
```

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Services

Output lab2.public.passengers

0 rows

passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_residence
--------------	------------	-----------	---------------	--------	------------------------	----------------------

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Database Consoles > postgres@localhost [2] > lab5

65:1 (378 chars, 5 line breaks) CRLF UTF-8 4 spaces

14:07 17.10.2024

firstpr

Version control

Database Explorer

postgres@localhost [2]

booking

columns 0

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

console_5

console_9

lab5

baggage

passengers

airport_c

lab2.public

alter table passengers

add constraint check_age_country check(

(country_of_citizenship = 'Kazakhstan' and extract(year from date_of_birth) <= 20

(country_of_citizenship = 'France' and extract(year from date_of_birth) <= 2007)

(country_of_citizenship != 'Kazakhstan' AND country_of_citizenship != 'France' AN

);

--8

alter table booking

add ticket_discount int , add constraint check_date check(

case

when created_at >= '2024-01-01 00:00:00' then ticket_discount = 5

when created_at < '2024-01-01 00:00:00' then ticket_discount = 10

else ticket_discount = 0

end

)

;

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lab4

Services

Output

lab2.public.passengers

0 rows

passenger_id

first_name

last_name

date_of_birth

gender

country_of_citizenship

country_of_residence

Database Consoles

postgres@localhost [2]

lab5

Activate Windows

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81:2 CRLF UTF-8 4 spaces

14:26 17.10.2024