



Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

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)

airport.sql

console

airline

airport

baggage\_check

baggage

flights

1

2

3

4

5

6

7

8

9

10

ALTER TABLE passengers

ADD CONSTRAINT chk\_passenger\_age CHECK (DATE\_PART('year', AGE(date\_of\_birth)) >= 10);

ALTER TABLE booking

ADD CONSTRAINT chk\_booking\_price CHECK (ticket\_price BETWEEN 0 AND 50000);

ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23);

ALTER TABLE airport

passengers

booking

1 row

booking\_id

flight\_id

passenger\_id

booking\_platform

created\_at

updated\_at

1

1

1

1

123

2024-09-26 07:24:58.225077

2024-09-26

Services

booking 92 ms

airport

baggage

console 21 ms

baggage\_check

postgres.public> ALTER TABLE passengers

ADD CONSTRAINT chk\_passenger\_age CHECK (DATE\_PART('year', AGE(date\_of\_birth)) >= 10)

[2024-10-17 00:01:28] [23514] ОШИБКА: ограничение-проверку "chk\_passenger\_age" отношения "passengers" нарушает некоторы

postgres.public> ALTER TABLE passengers

ADD CONSTRAINT chk\_passenger\_age CHECK (DATE\_PART('year', AGE(date\_of\_birth)) >= 10)

[2024-10-17 00:03:20] completed in 3 ms

postgres.public> ALTER TABLE booking

ADD CONSTRAINT chk\_booking\_price CHECK (ticket\_price BETWEEN 0 AND 50000)

[2024-10-17 00:03:37] completed in 4 ms

postgres.public> ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23)

[2024-10-17 00:03:51] completed in 4 ms

postgres public> ALTER TABLE airport

Database Consoles

postgres@localhost

console

4:1 (94 chars, 1 line break)

CRLF

UTF-8

4 spaces

Database Explorer

postgres@localhost

postgres

public

tables

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baggage\_check

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flights

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last\_name varchar(50)

date\_of\_birth date

gender varchar(50)

country\_of\_citizenship varchar(50)

country\_of\_residence varchar(50)

airport.sql

console

airline

airport

baggage\_check

flights

4

ALTER TABLE booking

5

ADD CONSTRAINT chk\_booking\_price CHECK (ticket\_price BETWEEN 0 AND 50000);

6

7

ALTER TABLE baggage

8

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23);

9

10

ALTER TABLE airport

11

ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10);

12

13

ALTER TABLE airline

passengers

booking

baggage

0 rows

DDL

WHERE

baggage\_id

weight\_in\_kg

created\_at

updated\_at

booking\_id

ORDER BY

Services

booking 92 ms

airport

airport

baggage 123 ms

baggage

baggage 123 ms

console 21 ms

console 21 ms

baggage\_check

postgres.public> ALTER TABLE passengers

ADD CONSTRAINT chk\_passenger\_age CHECK (DATE\_PART('year', AGE(date\_of\_birth)) >= 10)

[2024-10-17 00:03:20] completed in 3 ms

postgres.public> ALTER TABLE booking

ADD CONSTRAINT chk\_booking\_price CHECK (ticket\_price BETWEEN 0 AND 50000)

[2024-10-17 00:03:37] completed in 4 ms

postgres.public> ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23)

[2024-10-17 00:03:51] completed in 4 ms

postgres.public> ALTER TABLE airport

ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10)

[2024-10-17 00:04:03] completed in 3 ms

postgres.public> ALTER TABLE airline

Database Consoles > postgres@localhost > console

7:1 (92 chars, 1 line break) CRLF UTF-8 4 spaces



Database Explorer

postgres@localhost

postgres

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last\_name varchar(50)

date\_of\_birth date

gender varchar(50)

country\_of\_citizenship varchar(50)

country\_of\_residence varchar(50)

airport.sql

console

airline

baggage\_check

flights

postgres.public

ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23);

ALTER TABLE airport

ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10);

ALTER TABLE airline

ADD CONSTRAINT unique\_airline\_code UNIQUE (airline\_code,airline\_name);

ALTER TABLE airport ADD CONSTRAINT unique\_airport\_id

passengers

booking

baggage

airport

100 rows

Tx: Auto

DDL

WHERE

airport\_id

airport\_name

country

state

city

1 Bathurst Airport China <null> Zhongxing

2 Aklavik/Freddie Carmichael Airport Russia <null> Neryungri

3 Carcassonne Airport Yemen <null> Al Jabīn

4 Mukalla International Airport Japan <null> Kushiro

5 Yakutsk Airport Mozambique <null> Manjacaze

ORDER BY

Services

Tx

airport 166 ms

baggage 123 ms

console 21 ms

console 21 ms

baggage\_check

postgres.public> ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23)

[2024-10-17 00:03:51] completed in 4 ms

postgres.public> ALTER TABLE airport

ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10)

[2024-10-17 00:04:03] completed in 3 ms

postgres.public> ALTER TABLE airline

ADD CONSTRAINT unique\_airline\_code UNIQUE (airline\_code,airline\_name)

[2024-10-17 00:04:11] completed in 11 ms

postgres.public> ALTER TABLE airportADD CONSTRAINT unique\_airport\_id

UNIQUE (airport\_id,airport\_name)

[2024-10-17 00:04:56] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "CONSTRAINT")

[2024-10-17 00:04:56] Position: 24

Database Consoles > postgres@localhost > console10:1 (94 chars, 1 line break) CRLF UTF-8 4 spaces

Database Explorer

postgres@localhost

postgres

public

tables

airline

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boarding\_pass

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flights

passengers

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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)

airport.sql

console

baggage\_check

flights

postgres.public

10 ALTER TABLE airport

11 ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10);

12

13 ALTER TABLE airline

14 ADD CONSTRAINT unique\_airline\_code UNIQUE (airline\_code,airline\_name);

15

16 ALTER TABLE airport ADD CONSTRAINT unique\_airport\_id

17 UNIQUE (airport\_id,airport\_name);

18

19 ALTER TABLE baggage

passengers

booking

baggage

airport

airline

4 rows

WHERE

	airline_id	airline_code	airline_name	airline_country	created_at	update
1	1	<null>	KazAero	Turkey	2024-09-25 14:14:12.034575	2024-09-
2	100	<null>	AeroEasy	France	2024-09-25 14:19:38.081437	2024-09-
3	99	<null>	FlyHigh	Brazil	2024-09-25 14:19:38.081437	2024-09-
4	98	<null>	FlyFly	Poland	2024-09-25 14:19:38.081437	2024-09-

ORDER BY

Services

Tx

airport 166 ms

baggage 123 ms

console 21 ms

console 21 ms

baggage\_check

postgres.public> ALTER TABLE baggage

ADD CONSTRAINT chk\_luggage\_weight CHECK (weight\_in\_kg BETWEEN 1 AND 23)

[2024-10-17 00:03:51] completed in 4 ms

postgres.public> ALTER TABLE airport

ADD CONSTRAINT chk\_airport\_name\_length CHECK (LENGTH(airport\_name) >= 10)

[2024-10-17 00:04:03] completed in 3 ms

postgres.public> ALTER TABLE airline

ADD CONSTRAINT unique\_airline\_code UNIQUE (airline\_code,airline\_name)

[2024-10-17 00:04:11] completed in 11 ms

postgres.public> ALTER TABLE airportADD CONSTRAINT unique\_airport\_id

UNIQUE (airport\_id,airport\_name)

[2024-10-17 00:04:56] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "CONSTRAINT")

[2024-10-17 00:04:56] Position: 24

Database Consoles > postgres@localhost > console

13:1 (90 chars, 1 line break) CRLF UTF-8 4 spaces

The screenshot displays the pgAdmin web interface. On the left sidebar, under the "Services" section, there are three expanded folders: "airport", "baggage", and "console". Each folder contains two entries representing database connections or queries, each with a small icon and a duration (e.g., "airport 166 ms"). The main pane shows the SQL console output for the selected service. It contains several SQL commands executed against the PostgreSQL database:

```
[2024-10-17 00:04:56] Позиция: 24  
postgres.public> ALTER TABLE airport ADD CONSTRAINT unique_airport_id  
UNIQUE (airport_id,airport_name)  
[2024-10-17 00:05:03] completed in 3 ms  
postgres.public> ALTER TABLE baggage  
ADD CONSTRAINT unique_baggage_id UNIQUE (baggage_id)  
[2024-10-17 00:05:03] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "(")  
[2024-10-17 00:05:03] Позиция: 65  
postgres.public> ALTER TABLE baggage  
ADD CONSTRAINT unique_baggage_id UNIQUE (baggage_id)  
[2024-10-17 00:05:20] completed in 9 ms  
postgres.public> ALTER TABLE baggage_check ADD CONSTRAINT unique_baggage_check_id  
UNIQUE (baggage_check id)
```



Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

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)

airport.sql

console

baggage\_check

flights

postgres.public

16

17

18

19

20

21

22

23

24

25

ALTER TABLE airport ADD CONSTRAINT unique\_airport\_id

UNIQUE (airport\_id,airport\_name);

ALTER TABLE baggage

ADD CONSTRAINT unique\_baggage\_id UNIQUE (baggage\_id);

ALTER TABLE baggage\_check ADD CONSTRAINT unique\_baggage\_check\_id

UNIQUE (baggage\_check\_id);

ALTER TABLE boarding\_pass

passengers

booking

baggage

airport

airline

0 rows

Tx: Auto

DDL

CSV

ORDER BY

baggage\_id

weight\_in\_kg

created\_at

updated\_at

booking\_id

Services

Tx

airport

166 ms

baggage

123 ms

console

21 ms

baggage\_check

[2024-10-17 00:05:03] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "(")

[2024-10-17 00:05:03] Позиция: 65

postgres.public> ALTER TABLE baggage

ADD CONSTRAINT unique\_baggage\_id UNIQUE (baggage\_id)

[2024-10-17 00:05:20] completed in 9 ms

postgres.public> ALTER TABLE baggage\_check ADD CONSTRAINT unique\_baggage\_check\_id

UNIQUE (baggage\_check\_id)

[2024-10-17 00:05:29] completed in 5 ms

postgres.public> ALTER TABLE boarding\_pass

ADD CONSTRAINT unique\_boarding\_pass UNIQUE (boarding\_pass\_id, booking\_id)

[2024-10-17 00:05:36] completed in 10 ms

postgres.public> ALTER TABLE booking ADD CONSTRAINT unique\_booking\_id

UNIQUE (booking\_id)

Database Consoles > postgres@localhost > console

19:1 (77 chars, 1 line break) CRLF UTF-8 4 spaces









The screenshot shows the Database Explorer interface in a dark-themed IDE. The title bar reads "Database Explorer". Below the title bar is a toolbar with icons for adding, refreshing, deleting, and other database operations. The main area displays a tree view of the database structure. The tree is expanded to show the "public" schema, which contains a list of tables. The "booking\_flight" table is highlighted. The table list includes: airline, airport, baggage, baggage\_check, boarding\_pass, booking, booking\_flight, flights, passengers, and security\_check. Below the tables are "Database Objects" and "Server Objects".

- postgres@localhost
  - postgres
    - public
      - tables
        - airline
        - airport
        - baggage
        - baggage\_check
        - boarding\_pass
        - booking
        - booking\_flight
        - flights
        - passengers
        - security\_check
      - Database Objects
      - Server Objects







The image shows a dark-themed IDE interface with a 'Database Explorer' panel on the left. The panel has a toolbar at the top with icons for adding, refreshing, and executing queries, along with a 'DDL' button and a search icon. The tree structure is as follows:

- postgres@localhost (1)
  - postgres (1 of 3)
    - public
      - tables (10)
        - airline
        - airport
        - baggage
        - baggage\_check
        - boarding\_pass
        - booking
        - booking\_flight
        - flights
        - passengers
        - security\_check (highlighted)
      - Database Objects
      - Server Objects

Services

Tx

boarding\_pass 61 ms

boarding\_pass

boarding\_pass 61 ms

booking\_flight 64 ms

booking\_flight

booking\_flight 64 ms

console 21 ms

console 21 ms

baggage\_check

baggage\_check

```
UNIQUE (+light_id)
[2024-10-17 00:05:56] completed in 4 ms
postgres.public> ALTER TABLE passengers
ADD CONSTRAINT unique_passenger_passport UNIQUE (passport_number)
[2024-10-17 00:06:05] completed in 4 ms
postgres.public> ALTER TABLE security_check ADD CONSTRAINT unique_security_check_id
UNIQUE (security_check_id)
[2024-10-17 00:06:10] completed in 3 ms
postgres.public> ALTER TABLE passengers ADD CONSTRAINT chk_passenger_gender_year
CHECK ( (gender = 'male' AND EXTRACT(YEAR FROM date_of_birth) < 2006) AND
(gender = 'female' AND EXTRACT(YEAR FROM date_of_birth) < 2005))
[2024-10-17 00:06:18] [23514] ОШИБКА: ограничение-проверку "chk_passenger_gender_year" отношения "passengers" нарушает
postgres.public> ALTER TABLE passengers ADD CONSTRAINT chk_passenger_gender_year
```



...

Database Explorer

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🔗

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📦

DDL

↩

👁

postgres@localhost 1

postgres 1 of 3

public

tables 10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

airport.sql

console

baggage\_check

▶

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⚙

📄

Tx: Auto

Playground

postgres.public

39

40

41

42

43

44

45

46

47

48

ALTER TABLE security\_check ADD CONSTRAINT unique\_security\_check\_id

UNIQUE (security\_check\_id);

💡

ALTER TABLE passengers ADD CONSTRAINT chk\_passenger\_gender\_year

CHECK ( (gender = 'male' AND EXTRACT(YEAR FROM date\_of\_birth) < 2006) OR

(gender = 'female' AND EXTRACT(YEAR FROM date\_of\_birth) < 2005));

ALTER TABLE passengers ADD CONSTRAINT chk\_passenger\_citizenship\_age

CHECK ( (country\_of\_citizenship = 'Kazakhstan' AND EXTRACT(YEAR FROM date\_of\_birth) <= EXTRACT(YEAR FROM CURRENT\_DATE)

passengers

security\_check

booking

baggage

airport

airline

boarding\_pass

booking\_flight

1 row

↺

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🕒

⏹

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Tx: Auto

DDL

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📊

🗨

CSV

⬇

⬆

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👁

⚙

WHERE

ORDER BY

passenger\_id

first\_name

last\_name

date\_of\_birth

gender

country\_of\_citizenship

1

1

Alik

Yes

2005-09-26

male

Almaty

Services

Tx

+

👁

📄

⏏

✖

boarding\_pass 61 ms

boarding\_pass

boarding\_pass 61 ms

booking\_flight 64 ms

booking\_flight

booking\_flight 64 ms

console 21 ms

console 21 ms

baggage\_check

baggage\_check

postgres.public> ALTER TABLE passengers ADD CONSTRAINT chk\_passenger\_gender\_year

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 00:08:39] completed in 4 ms

postgres.public> ALTER TABLE passengers ADD CONSTRAINT chk\_passenger\_citizenship\_age

CHECK ( (country\_of\_citizenship = 'Kazakhstan' AND EXTRACT(YEAR FROM date\_of\_birth) <= EXTRACT(YEAR FROM CURRENT\_DATE)

(country\_of\_citizenship = 'France' AND EXTRACT(YEAR FROM date\_of\_birth) <= EXTRACT(YEAR FROM CURRENT\_DATE)

)

[2024-10-17 00:08:51] completed in 2 ms

postgres.public> ALTER TABLE booking ADD CONSTRAINT chk\_ticket\_discount

CHECK ( (created\_at >= '2024-01-01' AND ticket\_discount = 0.05) OR

(created\_at < '2024-01-01' AND ticket\_discount = 0.10))

[2024-10-17 00:09:01] completed in 2 ms

Database Consoles

postgres@localhost

console

43:1 (213 chars, 2 line breaks)

CRLF

UTF-8

4 spaces



Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

airport.sql

console

baggage\_check

postgres.public

51

52

53

54

55

56

ALTER TABLE booking add column ticket\_discount numeric;

ALTER TABLE booking ADD CONSTRAINT chk\_ticket\_discount

CHECK ( (created\_at >= '2024-01-01' AND ticket\_discount = 0.05) OR

(created\_at < '2024-01-01' AND ticket\_discount = 0.10));

passengers

security\_check

booking

baggage

airport

airline

boarding\_pass

booking\_flight

1 row

booking\_id

flight\_id

passenger\_id

booking\_platform

created\_at

updated\_at

1

1

1

123

2024-09-26 07:24:58.225077

2024-09-26

Services

Tx

boarding\_pass

booking\_flight

console

console

baggage\_check

baggage\_check

[2024-10-17 00:09:34] Позиция: 47

postgres.public> ALTER TABLE booking add column ticket\_discount

[2024-10-17 00:09:47] [42601] ОШИБКА: ошибка синтаксиса в конце

[2024-10-17 00:09:47] Позиция: 47

postgres.public> ALTER TABLE booking add column ticket\_discount numeric

[2024-10-17 00:10:53] completed in 7 ms

postgres.public> ALTER TABLE booking ADD CONSTRAINT chk\_ticket\_discount

CHECK ( (created\_at >= '2024-01-01' AND ticket\_discount = 0.05) OR

(created\_at < '2024-01-01' AND ticket\_discount = 0.10))

[2024-10-17 00:10:55] completed in 9 ms

Database Consoles > postgres@localhost > console

52:1 (246 chars, 4 line breaks) CRLF UTF-8 4 spaces