



Object Explorer

Materialized Views

Operators

Procedures

1.3 Sequences

Tables (10)

airline

airport

baggage

baggage_check

boarding_pass

booking

Columns (8)

booking_id

flight_id

passenger_id

booking_platform

created_at

updated_at

status

price

Constraints

Indexes

RLS Policies

Rules

Triggers

booking_flight

flights

passengers

Columns (10)

passenger_id

first_name

last_name

date_of_birth

gender

country_of_citizenship

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query

Query History

Scratch Pad X

1

2

3

4

5

6

7

8

9

10

#1

ALTER TABLE passengers

ADD CONSTRAINT chk_passenger_age

CHECK (EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 10);

#2

ALTER TABLE booking

ADD CONSTRAINT chk_booking_price CHECK (price >= 0 AND price <= 50000);

Data Output

Messages

Notifications

ALTER TABLE

Query returned successfully in 96 msec.

✓ Query returned successfully in 96 msec. ✕

Total rows: Query complete 00:00:00.096

LF Ln 7, Col 1

Object Explorer

- public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (10)
 - airline
 - airport
 - baggage
 - Columns (5)
 - baggage_id
 - weight_in_kg
 - created_at
 - updated_at
 - booking_id
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage_check
 - boarding_pass
 - booking
 - Columns (8)
 - booking_id
 - flight_id

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #1
2 ALTER TABLE passengers
3 ADD CONSTRAINT chk_passenger_age
4 CHECK (EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 10 );
5
6 #2
7 ALTER TABLE booking
8 ADD CONSTRAINT chk_booking_price CHECK (price >= 0 AND price <= 50000);
9
10 #3
11 ALTER TABLE baggage
12 ADD CONSTRAINT chk_luggage_weight CHECK (weight_in_kg BETWEEN 1 AND 23);
13
14
```

Scratch Pad

Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 104 msec.

Total rows: Query complete 00:00:00.104

LF Ln 11, Col 1

Object Explorer

BD_Lab2

Casts

Catalogs

Event Triggers

Extensions

Foreign Data Wrappers

Languages

Publications

Schemas(1)

public

Aggregates

Collations

Domains

FTS Configurations

FTS Dictionaries

FTS Parsers

FTS Templates

Foreign Tables

Functions

Materialized Views

Operators

Procedures

Sequences

Tables(10)

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

Columns(10)

passenger_id

first_name

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query

Query History

1

2

3

4

#4

ALTER TABLE airport

ADD CONSTRAINT chk_airport_name_length CHECK (char_length(airport_name) >= 10) NOT VALID;

Data Output

Messages

Notifications

ALTER TABLE

Query returned successfully in 62 msec.

Total rows:

Query complete 00:00:00.062

LF

Ln 2, Col 1

Object Explorer

- FTS Configurations
- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights
 - passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1  #1
2  ALTER TABLE passengers
3  ADD CONSTRAINT chk_passenger_age
4  CHECK (EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 10 );
5
6  #2
7  ALTER TABLE booking
8  ADD CONSTRAINT chk_booking_price CHECK (price >= 0 AND price <= 50000);
9
10 #3
11 ALTER TABLE baggage
12 ADD CONSTRAINT chk_luggage_weight CHECK (weight_in_kg BETWEEN 1 AND 23);
13
14 #4
15 ALTER TABLE airport
16 ADD CONSTRAINT chk_airport_name_length CHECK (char_length(airport_name) >= 10);
17
18
19 #5
20
21 ALTER TABLE passengers
22 ADD CONSTRAINT uq_passenger_passport UNIQUE (passport_number);
23
```

Scratch Pad X

Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 65 msec.

Total rows: Query complete 00:00:00.065

LF Ln 20, Col 1

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - booking_flight
 - flights
 - passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #6
2 ALTER TABLE passengers
3 ADD CONSTRAINT chk_passenger_gender_age
4 CHECK (
5     (gender = 'male' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 18)
6     OR (gender = 'female' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 19)
7 ) NOT VALID;
```

Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 50 msec.

Total rows: Query complete 00:00:00.050

✓ Query returned successfully in 50 msec. ✕

LF Ln 2, Col 1

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - booking_flight
 - flights
 - passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1  #6
2  ALTER TABLE passengers
3  ADD CONSTRAINT chk_passenger_gender_age
4  CHECK (
5    (gender = 'male' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 18)
6    OR (gender = 'female' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 19)
7  ) NOT VALID;
8
9
10 #7
11
12 ALTER TABLE passengers
13 ADD CONSTRAINT chk_passenger_country_age
14 CHECK (
15   (country_of_citizenship = 'Kazakhstan' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 18)
16   OR (country_of_citizenship = 'France' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 17)
17   OR (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) >= 19)
18 );
19
```

Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 54 msec.

Total rows: Query complete 00:00:00.054

✓ Query returned successfully

LF Ln 12, Col 1

Object Explorer

FTS Templates

Foreign Tables

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (10)

airline

airport

baggage

baggage_check

boarding_pass

booking

Columns (8)

booking_id

flight_id

passenger_id

booking_platform

created_at

updated_at

status

price

Constraints

Indexes

RLS Policies

Rules

Triggers

booking_flight

flights

passengers

Columns (10)

passenger_id

first_name

last_name

date_of_birth

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query

Query History

24

25

26

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33

34

35

36

37

38

39

40

41

42

43

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46

#6

ALTER TABLE passengers

ADD CONSTRAINT chk_passenger_gender_age

CHECK ((gender = 'Male' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 18)

OR

(gender = 'Female' AND EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 19));

SELECT gender,date_of_birth FROM passengers

DELETE FROM passengers

WHERE EXTRACT(YEAR FROM AGE(CURRENT_DATE,date_of_birth)) >= 18;

#8

ALTER TABLE booking

ADD COLUMN ticketdiscount NUMERIC(5,2);

ALTER TABLE booking

ADD CONSTRAINT chk_ticket_discount CHECK (

(created_at >= DATE '2024-01-01' AND ticketdiscount = price * 0.05)

OR (created_at <= DATE '2024-01-01' AND ticketdiscount = price * 0.10)

);

Data Output

Messages

Notifications

ALTER TABLE

Query returned successfully in 47 msec.

Total rows: Query complete 00:00:00.047

LF Ln 41, Col 1

✓ Query returned successfully in 47 msec. ✕