

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

passengersconsole

Tx: AutoPlayground

postgres.public

1ALTER TABLE passengers

2ADD CONSTRAINT check\_age CHECK ( age >= 10 )

Services

Tx

Database

postgres@localhost

console43 ms

passengers437 ms

passengers

Database Consoles > postgres@localhost > console

2:45CRLFUTF-84 spaces

19:5014.10.2025

Поиск

19:5014.10.2025

Database Explorer

- postgres@localhost 1 of 3
  - 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

console baggage booking passengers

Tx: Auto Playground

```
1 ✓ INSERT INTO baggage (baggage_id, weight_in_kg, created_at, updated_at, booking_id)
2 VALUES ( baggage_id 1, weight_in_kg 10, created_at NOW(), updated_at NOW(), booking_id 2),
3 ( baggage_id 2, weight_in_kg 20, created_at NOW(), updated_at NOW(), booking_id 3),
4 ( baggage_id 3, weight_in_kg 18, created_at NOW(), updated_at NOW(), booking_id 4),
5 ( baggage_id 4, weight_in_kg 15, created_at NOW(), updated_at NOW(), booking_id 6);
6
```

Services

Tx: +, -, , <, >, X

- Database
  - postgres@localhost
    - console 29 ms
    - passengers 423 ms
    - passengers

```
(2, 20, NOW(), NOW(), 3),
(3, 18, NOW(), NOW(), 4),
(4, 15, NOW(), NOW(), 6)
```

[2025-10-14 20:08:35] 4 rows affected in 11 ms

Lab2

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airline

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passengers console

Tx: Auto

Playground

postgres.public

1 citizenship, country\_of\_residence, passport\_number, created\_at, updated\_at, age)

2 ', country\_of\_citizenship 'Finland', country\_of\_residence 'Switzerland', passport\_number 'P946583', created\_at now(), updated\_at now(), age 3)

[23514] ERROR: new row for relation "passengers" violates check constraint "check\_age"

Подробности: Failing row contains (13, Adam, Lyokin, 2020-10-23, Male, Finland, Switzerland, P946583, 2025-10-14 14:54:29.87125, 2025-10-14 14:54:29.87125, 3).

Services

Tx

Database

postgres@localhost

console 43 ms

passengers 370 ms

passengers

[2025-10-14 19:54:29] postgres.public> INSERT INTO passengers (passenger\_id, first\_name, last\_name, date\_of\_birth, gender, co

VALUES (13, 'Adam', 'Lyokin', '2020-10-23', 'Male', 'Finland', 'Switzerland', 'P946583

[2025-10-14 19:54:29] [23514] ERROR: new row for relation "passengers" violates check constraint "check\_age"

[2025-10-14 19:54:29] Подробности: Failing row contains (13, Adam, Lyokin, 2020-10-23, Male, Finland, Switzerland, P946583, 2

Database Consoles > postgres@localhost > console

1:1 CRLF UTF-8 4 spaces

Поиск

19:54 14.10.2025

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tables10

airline

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Database Objects

Server Objects

consolebaggage

Tx: AutoPlayground

postgres.public

1ALTER TABLE baggage

2ADD CONSTRAINT check\_baggage\_weight CHECK ( weight\_in\_kg >= 1 AND weight\_in\_kg <= 23 )

3

Services

Tx

Database

postgres@localhost

console28 ms

passengers

baggage422 ms

Database Consoles > postgres@localhost > console

[2025-10-14 20:08:35] 4 rows affected in 11 ms

[2025-10-14 20:10:03] postgres.public> ALTER TABLE baggage

ADD CONSTRAINT check\_baggage\_weight CHECK ( weight\_in\_kg >= 1 AND weight\_in\_kg <= 23 )

[2025-10-14 20:10:03] completed in 11 ms

2:85CRLFUTF-84 spaces

Поиск

20:1014.10.2025



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Database Objects

Server Objects

consolebookingbaggage

1INSERT INTO baggage (baggage\_id, weight\_in\_kg, created\_at, updated\_at, booking\_id)

2VALUES ( baggage\_id 5, weight\_in\_kg 50, created\_at now(), updated\_at now(), booking\_id 7)

[23514] ERROR: new row for relation "baggage" violates check constraint "check\_baggage\_weight"  
Подробности: Failing row contains (5, 50.00, 2025-10-14 15:11:06.455803, 2025-10-14 15:11:06.455803, 7).

Services

Tx

Database

postgres@localhost

console34 ms

passengers

booking489 ms

Database Consoles > postgres@localhost > console

[2025-10-14 20:11:06] postgres.public> INSERT INTO baggage (baggage\_id, weight\_in\_kg, created\_at, updated\_at, booking\_id)  
VALUES (5, 50, now(), now(), 7)

[2025-10-14 20:11:06] [23514] ERROR: new row for relation "baggage" violates check constraint "check\_baggage\_weight"

[2025-10-14 20:11:06] Подробности: Failing row contains (5, 50.00, 2025-10-14 15:11:06.455803, 2025-10-14 15:11:06.455803, 7)

1:1CRLFUTF-84 spaces

Поиск

20:11  
14.10.2025

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Database Objects

Server Objects

consoleairportbookingbaggage

1ALTER TABLE airport

2ADD CONSTRAINT check\_airport\_name\_length CHECK ( LENGTH(airport\_name) >= 10 )

[23514] ERROR: check constraint "check\_airport\_name\_length" of relation "airport" is violated by some row

Services

Tx

Database

postgres@localhost

console22 ms

airport574 ms

passengers

booking489 ms

baggage422 ms

Outputpostgres.public.airport

[2025-10-14 20:20:36] postgres.public> ALTER TABLE airport

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

[2025-10-14 20:20:36] [23514] ERROR: check constraint "check\_airport\_name\_length" of relation "airport" is violated by some r

[2025-10-14 20:20:36] postgres.public> ALTER TABLE airport

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

[2025-10-14 20:20:36] [23514] ERROR: check constraint "check\_airport\_name\_length" of relation "airport" is violated by some r

Database Consolespostgres@localhostconsole

1:1CRLFUTF-84 spaces

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consolebooking

Tx: AutoPlayground

postgres.public

1ALTER TABLE booking

2ADD CONSTRAINT check\_ticket\_price CHECK ( ticket\_price <= 50000 AND ticket\_price >= 0 )

Services

Tx

Database

postgres@localhost

console38 ms

passengers

booking355 ms

Database Consoles > postgres@localhost > console

[2025-10-14 19:54:29] Подробности: Failing row contains (13, Adam, Lyokin, 2020-10-23, Male, Finland, Switzerland, P946583, 2

[2025-10-14 19:58:55] postgres.public> ALTER TABLE booking

ADD CONSTRAINT check\_ticket\_price CHECK ( ticket\_price <= 50000 AND ticket\_price >= 0

[2025-10-14 19:58:55] completed in 11 ms

2:88CRLFUTF-84 spaces

19:5814.10.2025

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public

tables 10

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Database Objects

Server Objects

console baggage booking passengers

WHERE

ORDER BY

	baggage_id	weight_in_kg	created_at	updated_at	booking_id
1	1	10.00	2025-10-14 15:08:35.350887	2025-10-14 15:08:35.350887	2
2	2	20.00	2025-10-14 15:08:35.350887	2025-10-14 15:08:35.350887	3
3	3	18.00	2025-10-14 15:08:35.350887	2025-10-14 15:08:35.350887	4
4	4	15.00	2025-10-14 15:08:35.350887	2025-10-14 15:08:35.350887	6

4 rows

Services

passengers

passengers 423 ms

baggage 422 ms

booking 498 ms

[2025-10-14 20:01:51] 0 rows retrieved in 360 ms (execution: 19 ms, fetching: 341 ms)

[2025-10-14 20:08:46] postgres.public> SELECT t.\*  
FROM public.baggage t  
LIMIT 501

[2025-10-14 20:08:47] 4 rows retrieved starting from 1 in 387 ms (execution: 10 ms, fetching: 377 ms)

Database > postgres@localhost > postgres > public > tables > baggage

Поиск

20:08

14.10.2025



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Database Objects

Server Objects

console booking ×

DDL

WHERE ORDER BY

	passenger_id ▾	booking_platform ▾	created_at ▾	updated_at ▾	status ▾	ticket_price ▾
1	2	MobileApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	13800.00
2	3	Web	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Cancelled	10925.00
3	4	Web	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	17250.00
4	6	MobileApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	12650.00
5	7	Web	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	14950.00
6	9	Web	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	23000.00
7	10	MobileApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Pending	11270.00

7 rows ▾ ⋮

Services

Tx

postgres@localhost

console 38 ms

passengers

booking 355 ms

[2025-10-14 19:55:39] 7 rows retrieved starting from 1 in 430 ms (execution: 18 ms, fetching: 412 ms)

[2025-10-14 19:58:42] postgres.public> SELECT t.\*  
FROM public.booking t  
LIMIT 501

[2025-10-14 19:58:42] 7 rows retrieved starting from 1 in 327 ms (execution: 8 ms, fetching: 319 ms)

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consolebooking

Tx: AutoPlayground

postgres.public

1T0 booking (booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, ticket\_price)

2booking\_id 11, flight\_id 11, passenger\_id 11, booking\_platform 'Web', created\_at now(), updated\_at now(), status 'Cancelled', ticket\_price 90000

[23514] ERROR: new row for relation "booking" violates check constraint "check\_ticket\_price"

Подробности: Failing row contains (11, 11, 11, Web, 2025-10-14 15:01:13.965458, 2025-10-14 15:01:13.965458, Cancelled, 90000.00).

Services

Tx

Database

postgres@localhost

console33 ms

passengers

booking355 ms

Database Consoles > postgres@localhost > console

1:1CRLFUTF-84 spaces

[2025-10-14 20:01:13] postgres.public> INSERT INTO booking (booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, ticket\_price) VALUES (11, 11, 11, 'Web', now(), now(), 'Cancelled', 90000)

[2025-10-14 20:01:13] [23514] ERROR: new row for relation "booking" violates check constraint "check\_ticket\_price"

[2025-10-14 20:01:13] Подробности: Failing row contains (11, 11, 11, Web, 2025-10-14 15:01:13.965458, 2025-10-14 15:01:13.965458, Cancelled, 90000.00).

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Lab2Version control

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Database Objects

Server Objects

consoleairline

Tx: AutoPlayground

postgres.public

1ALTER TABLE airline

2ADD CONSTRAINT unique\_airline\_name UNIQUE (airline\_name)

Services

Tx

Database

postgres@localhost

console62 ms

passengers

airline489 ms

Outputpostgres.public.airport

WHERE length(airport\_name) < 10

[2025-10-14 20:22:34] [23503] ERROR: update or delete on table "airport" violates foreign key constraint "fk\_flights\_departir

[2025-10-14 20:22:34] Подробности: Key (airport\_id)=(1) is still referenced from table "flights".

[2025-10-14 21:00:52] postgres.public> ALTER TABLE airline

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

[2025-10-14 21:00:52] completed in 34 ms

Database Consolespostgres@localhostconsole2:57CRLFUTF-84 spaces21:0014.10.2025

Поиск

21:0014.10.2025

Database Explorer

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public

tables 10

airline

airport

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baggage\_check

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booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

console × airport airline

Tx: Auto Playground

postgres.public

1 ✓ ALTER TABLE airport

2 ADD CONSTRAINT unique\_airport\_id UNIQUE (airport\_id)

Services

Tx + ×

Database

postgres@localhost

console 23 ms

airport 527 ms

passengers

airline 489 ms

Output postgres.public.airport

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

[2025-10-14 21:00:52] completed in 34 ms

[2025-10-14 21:01:41] postgres.public> ALTER TABLE airport

ADD CONSTRAINT unique\_airport\_id UNIQUE (airport\_id)

[2025-10-14 21:01:41] completed in 5 ms

Database Consoles > postgres@localhost > console

2:53 CRLF UTF-8 4 spaces



Поиск



ENG



21:01  
14.10.2025



Database Explorer

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public

tables 10

airline

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booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

console

flights

booking

baggage

airport

airline

1 ✓ ALTER TABLE flights

2 ADD CONSTRAINT unique\_flight\_id UNIQUE (flight\_id)

Services

Database

postgres@localhost

console 32 ms

airport 527 ms

passengers

baggage 582 ms

booking 482 ms

Output

postgres.public.airport

ADD CONSTRAINT unique\_booking\_id UNIQUE (booking\_id)

[2025-10-14 21:03:19] completed in 83 ms

[2025-10-14 21:04:13] postgres.public> ALTER TABLE flights

ADD CONSTRAINT unique\_flight\_id UNIQUE (flight\_id)

[2025-10-14 21:04:13] completed in 4 ms

Database Consoles > postgres@localhost > console

2:50 CRLF UTF-8 4 spaces

21:04 14.10.2025

Lab2Version control

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Database Objects

Server Objects

consolebookingbaggageairportairline

1ALTER TABLE booking

2ADD CONSTRAINT unique\_booking\_id UNIQUE (booking\_id)

Services

Database

postgres@localhost

console116 ms

airport527 ms

passengers

baggage582 ms

booking482 ms

Outputpostgres.public.airport

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

[2025-10-14 21:02:14] completed in 4 ms

[2025-10-14 21:03:19] postgres.public> ALTER TABLE booking

ADD CONSTRAINT unique\_booking\_id UNIQUE (booking\_id)

[2025-10-14 21:03:19] completed in 83 ms

Database Consoles > postgres@localhost > console2:52CRLFUTF-84 spaces21:0314.10.2025

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21:0314.10.2025

Lab2Version control

Database Explorer

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boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consolepassengersflightsbookingbaggageairportairline

1ALTER TABLE passengers

2ADD CONSTRAINT unique\_passenger\_id UNIQUE (passenger\_id)

Services

Database

postgres@localhost

console32 ms

airport527 ms

passengers438 ms

passengers438 ms

Outputpostgres.public.airport

ADD CONSTRAINT unique\_flight\_id UNIQUE (flight\_id)

[2025-10-14 21:04:13] completed in 4 ms

[2025-10-14 21:04:46] postgres.public> ALTER TABLE passengers

ADD CONSTRAINT unique\_passenger\_id UNIQUE (passenger\_id)

[2025-10-14 21:04:46] completed in 7 ms

Database Consoles > postgres@localhost > console2:32CRLFUTF-84 spacesENG21:0414.10.2025



Поиск



ENG



21:04  
14.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3  
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public  
tables 10  
airline  
airport  
baggage

Services

Database  
postgres@localhost  
console 412 ms  
airport 574 ms  
passengers  
booking 489 ms  
baggage 422 ms

consoleairportbookingbaggage

Tx: AutoPlayground

postgres.public

1 ✓ SELECT \* FROM airport  
2 WHERE length(airport\_name) < 10

Outputpostgres.public.airport

Tx: AutoDDL

airport\_idairport\_namecountrystatecitycreated\_atupdated\_at

1	Airport_1	Country_42	State_4	City_109	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
2	Airport_2	Country_35	State_43	City_85	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
3	Airport_3	Country_2	State_80	City_135	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
4	Airport_4	Country_34	State_27	City_11	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
5	Airport_5	Country_16	State_64	City_135	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
6	Airport_6	Country_22	State_61	City_49	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
7	Airport_7	Country_34	State_50	City_63	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
8	Airport_8	Country_33	State_88	City_167	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
9	Airport_9	Country_50	State_47	City_121	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514

9 rows

Database Consolespostgres@localhostconsole2:32CRLFUTF-84 spaces20:2114.10.2025



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public

tables 10

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security\_check

Database Objects

Server Objects

console flights airport

Tx: Auto DDL Q

CSV

WHERE ORDER BY

	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline
1	25-01-01 12:00:00.000000	6	7	A6	B6	
2	25-02-01 13:00:00.000000	7	8	A7	B7	
3	25-03-01 14:00:00.000000	8	9	A8	B8	
4	25-04-01 15:00:00.000000	9	10	A9	B9	
5	25-05-01 16:00:00.000000	10	11	A10	B10	
6	25-10-01 01:32:28.901466	1	201	G12	H34	
7	25-10-10 12:00:00.000000	1	2	A1	B1	
8	25-10-10 12:30:00.000000	2	1	A2	B2	

8 rows

Services

Tx

Database

postgres@localhost

flights 544 ms

airport 629 ms

console 53 ms

passengers

[2025-10-14 21:13:06] Connected

[2025-10-14 21:13:06] postgres.public> SELECT t.\*

FROM public.flights t

LIMIT 501

[2025-10-14 21:13:06] 8 rows retrieved starting from 1 in 440 ms (execution: 11 ms, fetching: 429 ms)

Database > postgres@localhost > postgres > public > tables > flights

21:14 14.10.2025

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Database Explorer

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Server Objects

consoleflightsairport

Tx: AutoPlayground

postgres.public

1✓DELETE FROM flights WHERE (arriving\_airport\_id <= 9)

Services

Tx+🔍📄↕✕

Database

postgres@localhost

flights544 ms

airport629 ms

console53 ms

passengers

Outputpostgres.public.airport

[2025-10-14 21:12:56] postgres.public> DELETE FROM airport WHERE length(airport\_name) < 10

[2025-10-14 21:12:56] [23503] ERROR: update or delete on table "airport" violates foreign key constraint "fk\_flights\_departir

[2025-10-14 21:12:56] Подробности: Key (airport\_id)=(1) is still referenced from table "flights".

[2025-10-14 21:14:45] postgres.public> DELETE FROM flights WHERE (arriving\_airport\_id <= 9)

[2025-10-14 21:14:45] 5 rows affected in 9 ms

Database Consolespostgres@localhostconsole1:53CRLFUTF-84 spacesENG21:1414.10.2025

Поиск

PW

Google

Telegram

Excel

VS Code

Discord

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Firefox

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Database Objects

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consolepassengers

Tx: AutoPlayground

postgres.public

1ALTER TABLE passengers

2ADD CONSTRAINT check\_maleOver18\_femaleOver19 CHECK ((gender = 'Male' AND age >= 18) OR (gender = 'Female' AND age >= 19))

Services

Tx

Database

postgres@localhost

console30 ms

passengers438 ms

passengers

passengers438 ms

Output

postgres.public.airport

ADD CONSTRAINT unique\_passenger\_id UNIQUE (passenger\_id)

[2025-10-14 21:04:46] completed in 7 ms

[2025-10-14 21:09:16] postgres.public> ALTER TABLE passengers

ADD CONSTRAINT check\_maleOver18\_femaleOver19 CHECK ((gender = 'Male' AND age >= 18) OR

[2025-10-14 21:09:16] completed in 6 ms

Database Consoles > postgres@localhost > console2:122CRLFUTF-84 spaces21:0914.10.2025

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Database Objects

Server Objects

consolebaggageairportairline

1ALTER TABLE baggage

2ADD CONSTRAINT unique\_baggage\_id UNIQUE (baggage\_id)

Services

Database

postgres@localhost

console29 ms

airport527 ms

passengers

baggage582 ms

airline489 ms

Outputpostgres.public.airport

ADD CONSTRAINT unique\_airport\_id UNIQUE (airport\_id)

[2025-10-14 21:01:41] completed in 5 ms

[2025-10-14 21:02:14] postgres.public> ALTER TABLE baggage

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

[2025-10-14 21:02:14] completed in 4 ms

Database Consoles > postgres@localhost > console2:52CRLFUTF-84 spaces21:0214.10.2025



Поиск



ENG



21:02  
14.10.2025



Database Explorer

postgres@localhost 1 of 3

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

console flights airport

Tx: Auto DDL

CSV

WHERE

ORDER BY

	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline
1	25-04-01 15:00:00.000000	9	10	A9	B9	
2	25-05-01 16:00:00.000000	10	11	A10	B10	

2 rows

Services

Database

postgres@localhost

flights 411 ms

airport 629 ms

console 31 ms

passengers

FROM public.flights t

LIMIT 501

[2025-10-14 21:15:06] 3 rows retrieved starting from 1 in 407 ms (execution: 7 ms, fetching: 400 ms)

[2025-10-14 21:16:24] postgres.public> SELECT t.\*

FROM public.flights t

LIMIT 501

[2025-10-14 21:16:24] 2 rows retrieved starting from 1 in 388 ms (execution: 7 ms, fetching: 381 ms)

Database &gt; postgres@localhost &gt; postgres &gt; public &gt; tables &gt; flights

SUM: Not enough values

Поиск

21:16 14.10.2025

Database Explorer

postgres@localhost 1 of 3

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

console flights airport

Tx: Auto Playground

postgres.public

1 ✓ DELETE FROM flights WHERE departing\_airport\_id < 9

Services

Tx + -

Database

postgres@localhost

flights 433 ms

airport 629 ms

console 31 ms

passengers

Output postgres.public.airport

[2025-10-14 21:15:37] postgres.public> DELETE FROM airport WHERE length(airport\_name) < 10

[2025-10-14 21:15:37] [23503] ERROR: update or delete on table "airport" violates foreign key constraint "fk\_flights\_departir

[2025-10-14 21:15:37] Подробности: Key (airport\_id)=(1) is still referenced from table "flights".

[2025-10-14 21:16:13] postgres.public> DELETE FROM flights WHERE departing\_airport\_id < 9

[2025-10-14 21:16:13] 1 row affected in 2 ms

Database Consoles > postgres@localhost > console 1:51 CRLF UTF-8 4 spaces ENG 21:16 14.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3  
postgres1 of 3  
public  
tables10  
airline  
airport  
baggage  
baggage\_check  
boarding\_pass  
booking  
booking\_flight  
flights  
passengers  
security\_check  
Database Objects  
Server Objects

consoleflightsairport

WHEREORDER BY

	airport_id	airport_name	country	state	city	created_at	updated_at
1	10	Airport_10	Country_11	State_24	City_81	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
2	11	Airport_11	Country_47	State_59	City_138	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
3	12	Airport_12	Country_37	State_53	City_121	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
4	13	Airport_13	Country_30	State_41	City_82	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
5	14	Airport_14	Country_47	State_19	City_160	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
6	15	Airport_15	Country_46	State_69	City_182	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
7	16	Airport_16	Country_21	State_29	City_146	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
8	17	Airport_17	Country_33	State_100	City_62	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
9	18	Airport_18	Country_10	State_86	City_41	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
10	19	Airport_19	Country_6	State_88	City_164	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
11	20	Airport_20	Country_21	State_58	City_81	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
12	21	Airport_21	Country_1	State_37	City_102	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
13	22	Airport_22	Country_5	State_82	City_149	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514
14	23	Airport_23	Country_30	State_81	City_80	2025-09-30 17:35:58.755514	2025-09-30 17:35:58.755514

194 rows

Services

Database  
postgres@localhost  
flights375 ms  
airport426 ms  
console29 ms  
passengers

FROM public.airport t  
LIMIT 501

[2025-10-14 21:12:09] 203 rows retrieved starting from 1 in 418 ms (execution: 9 ms, fetching: 409 ms)

[2025-10-14 21:17:50] postgres.public> SELECT t.\*  
FROM public.airport t  
LIMIT 501

[2025-10-14 21:17:50] 194 rows retrieved starting from 1 in 395 ms (execution: 5 ms, fetching: 390 ms)

Database > postgres@localhost > postgres > public > tables > airportSUM: Not enough values

Поиск

21:17  
14.10.2025



The screenshot shows a database management application with a dark theme. On the left, the 'Database Explorer' pane shows a tree structure for a PostgreSQL instance at 'localhost'. The 'public' schema is expanded, showing a list of tables including 'airline', 'airport', 'baggage', 'baggage\_check', 'boarding\_pass', 'booking', 'booking\_flight', 'flights', 'passengers', and 'security\_check'. The 'flights' table is selected. The main area is a SQL editor with a tab labeled 'console'. It contains a single query: 'DELETE FROM flights WHERE departing\_airport\_id <= 9'. Below the editor, the 'Services' pane shows a list of database services, with 'console' selected. The 'Output' pane for 'postgres.public.airport' displays the execution results. It shows a successful deletion of 1 row from the 'flights' table. The console output includes the SQL command, the number of rows affected, and a timestamp. The bottom status bar indicates the current database context is 'postgres@localhost' and the console is active. The system tray at the bottom shows the Windows taskbar with various icons and the date/time '21:17 14.10.2025'.



Lab2

Version control

Database Explorer

postgres@localhost 1 of 3

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

console

passengers

ALTER TABLE passengers

ADD CONSTRAINT check\_age\_based\_on\_country

CHECK (

(country\_of\_citizenship = 'Kazakhstan' AND age >= 18) OR

(country\_of\_citizenship = 'France' AND age >= 17) OR

(country\_of\_citizenship NOT IN ('Kazakhstan', 'France') AND age >= 19)

)

Services

Database

postgres@localhost

console 44 ms

passengers 386 ms

passengers

passengers 386 ms

Output

postgres.public.airport

(country\_of\_citizenship = 'Kazakhstan' AND age >= 18) OR

(country\_of\_citizenship = 'France' AND age >= 17) OR

(country\_of\_citizenship NOT IN ('Kazakhstan', 'France') AND age >= 19)

)

[2025-10-14 21:23:27] completed in 10 ms

Database Consoles

postgres@localhost

console

7:2 CRLF UTF-8 4 spaces

21:23 14.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consoleflightsairport

1✓DELETE FROM airport WHERE length(airport\_name) < 10

Services

Database

postgres@localhost

flights428 ms

airport629 ms

console29 ms

passengers

Outputpostgres.public.airport

[2025-10-14 21:16:50] Подробнее: Key (airport\_id)=(9) is still referenced from table "flights".

[2025-10-14 21:17:11] postgres.public> DELETE FROM flights WHERE departing\_airport\_id <= 9

[2025-10-14 21:17:11] 1 row affected in 3 ms

[2025-10-14 21:17:37] postgres.public> DELETE FROM airport WHERE length(airport\_name) < 10

[2025-10-14 21:17:37] 9 rows affected in 4 ms

Database Consoles > postgres@localhost > console

21:1714.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consoleflightsairport

Tx: AutoPlayground

postgres.public

1ALTER TABLE airport

2ADD CONSTRAINT check\_airport\_name\_length CHECK ( length(airport\_name) >= 10 )

Services

Tx+

Database

postgres@localhost

flights375 ms

airport426 ms

console31 ms

passengers

Output

postgres.public.airport

ADD CONSTRAINT check\_airport\_name\_length CHECK ( length(airport\_name) < 10 )

[2025-10-14 21:18:58] [23514] ERROR: check constraint "check\_airport\_name\_length" of relation "airport" is violated by some r

[2025-10-14 21:19:31] postgres.public> ALTER TABLE airport

ADD CONSTRAINT check\_airport\_name\_length CHECK ( length(airport\_name) >= 10 )

[2025-10-14 21:19:31] completed in 3 ms

Database Consoles > postgres@localhost > console2:73CRLFUTF-84 spaces21:1914.10.2025

Поиск

ENG

21:1914.10.2025

Database Explorer

- postgres@localhost 1 of 3
  - 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

console flights airport

WHERE ORDER BY

	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline
1	25-05-01 16:00:00.000000	10	11	A10	B10	

1 row

Services

Tx + - + - + -

- Database
  - postgres@localhost
    - flights 428 ms
    - airport 629 ms
    - console 32 ms
    - passengers

```
FROM public.flights t
LIMIT 501
[2025-10-14 21:16:24] 2 rows retrieved starting from 1 in 388 ms (execution: 7 ms, fetching: 381 ms)
[2025-10-14 21:17:22] postgres.public> SELECT t.*
FROM public.flights t
LIMIT 501
[2025-10-14 21:17:22] 1 row retrieved starting from 1 in 404 ms (execution: 9 ms, fetching: 395 ms)
```



Database Explorer

postgres@localhost 1 of 3

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

console flights airport

WHERE ORDER BY

	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline
1	25-04-01 15:00:00.000000	9	10	A9	B9	
2	25-05-01 16:00:00.000000	10	11	A10	B10	
3	25-10-01 01:32:28.901466	1	201	G12	H34	

3 rows

Services

Tx + - + - + -

Database

- postgres@localhost
  - flights 433 ms
  - airport 629 ms
  - console 53 ms
  - passengers

```
FROM public.flights t
LIMIT 501
[2025-10-14 21:13:06] 8 rows retrieved starting from 1 in 440 ms (execution: 11 ms, fetching: 429 ms)
[2025-10-14 21:15:06] postgres.public> SELECT t.*
FROM public.flights t
LIMIT 501
[2025-10-14 21:15:06] 3 rows retrieved starting from 1 in 407 ms (execution: 7 ms, fetching: 400 ms)
```

Lab2

Version control

Database Explorer

postgres@localhost 1 of 3

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

console

flights

airport

1

DELETE FROM airport WHERE length(airport\_name) < 10

[23503] ERROR: update or delete on table "airport" violates foreign key constraint "fk\_flights\_departing\_airport" on table "flights"  
Подробнее: Key (airport\_id)=(1) is still referenced from table "flights".

Services

Database

postgres@localhost

flights 433 ms

airport 629 ms

console 32 ms

passengers

Output

postgres.public.airport

[2025-10-14 21:14:45] postgres.public> DELETE FROM flights WHERE (arriving\_airport\_id <= 9)

[2025-10-14 21:14:45] 5 rows affected in 9 ms

[2025-10-14 21:15:37] postgres.public> DELETE FROM airport WHERE length(airport\_name) < 10

[2025-10-14 21:15:37] [23503] ERROR: update or delete on table "airport" violates foreign key constraint "fk\_flights\_departir

[2025-10-14 21:15:37] Подробнее: Key (airport\_id)=(1) is still referenced from table "flights".

Database Consoles

postgres@localhost

console

1:20 (7 chars) CRLF UTF-8 4 spaces

21:15 14.10.2025

Database Explorer

postgres@localhost 1 of 3

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

console passengers

WHERE

ORDER BY

	zenship	country_of_residence	passport_number	created_at	updated_at	age
1		Kazakhstan	P123456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	35
2		Kazakhstan	P223456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	33
3		USA	P323456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	37
4		Spain	P423456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	30
5		China	P523456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	34
6		Russia	P623456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	32
7		UK	P723456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	38
8		Japan	P823456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	31
9		Uzbekistan	P923456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	29
10		Germany	P1023456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	35
11		Kazakhstan	P100000	2025-09-30 19:04:22.178553	2025-09-30 19:04:22.178553	30
12		Germany	P192832	2025-10-01 09:22:49.849569	2025-10-01 09:22:49.849569	35

12 rows

Services

postgres@localhost

console 59 ms

passengers 472 ms

[2025-10-14 19:22:57] 12 rows retrieved starting from 1 in 440 ms (execution: 12 ms, fetching: 428 ms)

[2025-10-14 19:30:15] postgres.public> SELECT t.\*

FROM public.passengers t

LIMIT 501

[2025-10-14 19:30:16] 12 rows retrieved starting from 1 in 403 ms (execution: 7 ms, fetching: 396 ms)

Database > postgres@localhost > postgres > public > tables > passengers

SUM: Not enough values

Поиск

19:30 14.10.2025



Lab2

Version control

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

console

booking

passengers

WHERE

ORDER BY

	booking_platform	created_at	updated_at	status	ticket_price	ticket_discount
1	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	13800.00	0.05
2		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Cancelled	10925.00	0.05
3		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	17250.00	0.05
4	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	12650.00	0.05
5		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	14950.00	0.05
6		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	23000.00	0.05
7	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Pending	11270.00	0.05

7 rows

Services

postgres@localhost

console

passengers

passengers

passengers

booking

FROM public.booking t

LIMIT 501

[2025-10-14 21:26:01] 7 rows retrieved starting from 1 in 378 ms (execution: 6 ms, fetching: 372 ms)

[2025-10-14 21:36:23] postgres.public> SELECT t.\*

FROM public.booking t

LIMIT 501

[2025-10-14 21:36:24] 7 rows retrieved starting from 1 in 384 ms (execution: 5 ms, fetching: 379 ms)

Database > postgres@localhost > postgres > public > tables > booking

SUM: Not enough values

Поиск

21:36 14.10.2025



Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consolepassengers

Tx: AutoPlayground

postgres.public

1UPDATE passengers

2SET age = EXTRACT(YEAR FROM AGE(date\_of\_birth));

3

Services

Tx+

Database

postgres@localhost

console59 ms

passengers472 ms

[2025-10-14 19:22:16] completed in 85 ms

[2025-10-14 19:28:14] Unsafe query: 'Update' statement without 'where' updates all table rows at once

[2025-10-14 19:30:09] postgres.public> UPDATE passengers

SET age = EXTRACT(YEAR FROM AGE(date\_of\_birth))

[2025-10-14 19:30:09] 12 rows affected in 24 ms

Database Consoles > postgres@localhost > console

3:1CRLFUTF-84 spaces

19:3014.10.2025

Database Explorer

postgres@localhost 1 of 3

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

console booking passengers

WHERE

ORDER BY

	booking_platform	created_at	updated_at	status	ticket_price	ticket_discount
1	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	13800.00	<null>
2		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Cancelled	10925.00	<null>
3		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	17250.00	<null>
4	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	12650.00	<null>
5		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	14950.00	<null>
6		2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Confirmed	23000.00	<null>
7	eApp	2025-09-30 18:31:36.587428	2025-09-30 18:31:36.587428	Pending	11270.00	<null>

7 rows

Services

Tx

postgres@localhost

console 25 ms

passengers 386 ms

passengers 386 ms

booking 417 ms

FROM public.booking t

LIMIT 501

[2025-10-14 21:25:09] 7 rows retrieved starting from 1 in 382 ms (execution: 7 ms, fetching: 375 ms)

[2025-10-14 21:26:01] postgres.public> SELECT t.\*

FROM public.booking t

LIMIT 501

[2025-10-14 21:26:01] 7 rows retrieved starting from 1 in 378 ms (execution: 6 ms, fetching: 372 ms)

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consolebookingpassengers

Tx: AutoPlayground

postgres.public

1ALTER TABLE booking

2ADD COLUMN ticket\_discount DECIMAL;

3

4ALTER TABLE booking

5ADD CONSTRAINT check\_ticket\_discount

6CHECK (

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

8(created\_at < '2024-01-01' AND ticket\_discount = 0.1)

9);

10

11✓UPDATE booking

12SET ticket\_discount =

13CASE

14WHEN created\_at >= '2024-01-01' THEN 0.05

15ELSE 0.10

16END;

17

18

Services

Tx+Outputpostgres.public.airport

Database

postgres@localhost

console22 ms

passengers386 ms

passengers

passengers386 ms

booking417 ms

Database Consoles > postgres@localhost > console

CASE

WHEN created\_at >= '2024-01-01' THEN 0.05

ELSE 0.10

END

[2025-10-14 21:36:12] 7 rows affected in 10 ms

16:9CRLFUTF-84 spaces21:3614.10.2025

Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

consolepassengers

Tx: AutoPlayground

postgres.public

1✓ALTER TABLE passengers ADD COLUMN age VARCHAR(3)

Services

Tx+Database

postgres@localhost

console319 ms

passengers496 ms

Database Consolespostgres@localhostconsole

[2025-10-14 19:22:16] Connected

[2025-10-14 19:22:16] postgres> ALTER TABLE passengers ADD COLUMN age VARCHAR(3)

[2025-10-14 19:22:16] completed in 83 ms

1:49CRLFUTF-84 spaces

19:2314.10.2025

Поиск

PW

Google

VS Code

DC

Folder

ENG



Lab2Version control

Database Explorer

postgres@localhost1 of 3

postgres1 of 3

public

tables10

airline

airport

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

passengers

security\_check

Database Objects

Server Objects

passengersconsole

Tx: AutoPlayground

postgres.public

1ALTER TABLE passengers

2ALTER COLUMN age TYPE INTEGER USING age::INTEGER;

Services

Tx+

Database

postgres@localhost

console413 ms

passengers499 ms

passengers

[2025-10-14 19:46:28] Подсказка: You might need to specify "USING age::integer".

[2025-10-14 19:48:38] postgres.public> ALTER TABLE passengers

ALTER COLUMN age TYPE INTEGER USING age::INTEGER

[2025-10-14 19:48:38] completed in 377 ms

Database Consoles > postgres@localhost > console2:50CRLFUTF-84 spaces19:4814.10.2025

Поиск

PW

Google

Telegram

Excel

VS Code

Discord

Chrome

Firefox

Folder

ENG

19:4814.10.2025

Database Explorer

postgres@localhost 1 of 3

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

console passengers

WHERE

ORDER BY

	zenship	country_of_residence	passport_number	created_at	updated_at	age
1		Kazakhstan	P123456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
2		Kazakhstan	P223456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
3		USA	P323456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
4		Spain	P423456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
5		China	P523456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
6		Russia	P623456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
7		UK	P723456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
8		Japan	P823456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
9		Uzbekistan	P923456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
10		Germany	P1023456	2025-09-30 18:30:23.884165	2025-09-30 18:30:23.884165	<null>
11		Kazakhstan	P100000	2025-09-30 19:04:22.178553	2025-09-30 19:04:22.178553	<null>
12		Germany	P192832	2025-10-01 09:22:49.849569	2025-10-01 09:22:49.849569	<null>

12 rows

Services

postgres@localhost

console 319 ms

passengers 496 ms

[2025-10-14 19:20:13] 12 rows retrieved starting from 1 in 440 ms (execution: 14 ms, fetching: 426 ms)

[2025-10-14 19:22:57] postgres.public> SELECT t.\*  
FROM public.passengers t  
LIMIT 501

[2025-10-14 19:22:57] 12 rows retrieved starting from 1 in 440 ms (execution: 12 ms, fetching: 428 ms)

Database > postgres@localhost > postgres > public > tables > passengers

SUM: Not enough values

Поиск

19:23  
14.10.2025

Database Explorer

- postgres@localhost 1 of 3
  - 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

console booking passengers

Tx: Auto Playground

```
1 ✓ ALTER TABLE booking
2   ADD COLUMN ticket_discount DECIMAL;
3
4 ✓ ALTER TABLE booking
5   ADD CONSTRAINT check_ticket_discount
6   CHECK (
7     (created_at >= '2024-01-01' AND ticket_discount = 0.05) OR
8     (created_at < '2024-01-01' AND ticket_discount = 0.1)
9   )
10
```

Services

Tx: + -

- Database
  - postgres@localhost
    - console 25 ms
    - passengers 386 ms
      - passengers
      - passengers 386 ms
      - booking 476 ms

Output postgres.public.airport

```
CHECK (
  (created_at >= '2024-01-01' AND ticket_discount = 0.05) OR
  (created_at < '2024-01-01' AND ticket_discount = 0.1)
)

[2025-10-14 21:25:48] completed in 5 ms
```

Database Consoles > postgres@localhost > console

1:1 (244 chars, 8 line breaks) CRLF UTF-8 4 spaces