



Database Explorer

postgres@localhost 1

postgres 1 of 3

public

tables 10

airline_info

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines 1

set_updated_at : trigger

console

postgres.public

CREATE TABLE boarding_pass (
updated_at timestamp NOT NULL DEFAULT now()
);

-- 10) Security_check
CREATE TABLE security_check (
security_check_id integer GENERATED ALWAYS AS IDENTITY PRIMARY KEY,
check_result varchar(20) NOT NULL,
created_at timestamp NOT NULL DEFAULT now(),
updated_at timestamp NOT NULL DEFAULT now(),
passenger_id integer NOT NULL REFERENCES passengers(passenger_id)
);

Services

Database

postgres@localhost

console 37 ms

115:1 CRLF UTF-8 4 spaces

Trial

0:05
24.09.2025

Windows Taskbar

Icons: File Explorer, Edge, Telegram, VS Code, Teams, DBeaver, Word, Help

Lab01Version control

Database Explorer

postgres@localhost1

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public

tables10

airline_info

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baggage

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boarding_pass

Services

Tx

Database

postgres@localhost

console_1906 ms

console37 ms

consoleconsole_1

SELECT table_name FROM information_schema.tables WHERE table_schema = 'public' ORDER BY table_name;

1 ✓

2

Outputpostgres.information_schema.tables

table_name

1airline_info

2airport

3baggage

4baggage_check

5boarding_pass

6booking

7booking_flight

8flights

9passengers

10security_check

10 rows

Database Consoles > postgres@localhost > console_1

2:1CRLFUTF-84 spacesENG24.09.20250:07

Database Explorer

postgres@localhost 1

postgres 1 of 3

public

tables 10

airline_info

airport

baggage

baggage_check

boarding_pass

Services

Database

postgres@localhost

console_2 497 ms

console_1 906 ms

console 37 ms

console console_1 console_2

Tx: Auto Playground

SELECT column_name, data_type, is_nullable
FROM information_schema.columns
WHERE table_name='booking';

Output postgres.information_schema.columns

column_name data_type is_nullable

1 booking_id integer NO

2 flight_id integer NO

3 passenger_id integer NO

4 booking_platform character varying NO

5 created_at timestamp without time zone NO

6 updated_at timestamp without time zone NO

7 status character varying NO

8 price numeric NO

8 rows

Database Consoles > postgres@localhost > console_2

4:1 CRLF UTF-8 4 spaces ENG 0:08 24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline_info

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console

console_1

console_2

airline_info

flights

-- auto-generated definition

create table flights

(

flight_id integer generated always as identity

primary key,

sch_departure_time timestamp not null,

sch_arrival_time timestamp not null,

departing_airport_id integer not null

references airport,

arriving_airport_id integer not null

references airport,

departing_gate varchar(50) not null,

arriving_gate varchar(50) not null,

airline_id integer not null

references airline_info,

act_departure_time timestamp not null,

act_arrival_time timestamp not null,

created_at timestamp default now() not null,

updated_at timestamp default now() not null

);

alter table flights

owner to postgres;

Services

Database > postgres@localhost > postgres > public > tables > airline_info

2:14 LF UTF-8 4 spaces Trial

0:13 24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console

console_1

console_2

flights

console_3

-- auto-generated definition

create table flights

(

flight_id integer generated always as identity

primary key,

sch_departure_time timestamp not null,

sch_arrival_time timestamp not null,

departing_airport_id integer not null

references airport,

arriving_airport_id integer not null

references airport,

departing_gate text not null,

arriving_gate varchar(50) not null,

airline_id integer not null

references airline,

act_departure_time timestamp not null,

act_arrival_time timestamp not null,

created_at timestamp default now() not null,

updated_at timestamp default now() not null

);

alter table flights

owner to postgres;

Services

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

2:14 LF UTF-8 4 spaces Trial

KA3 0:15 24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console

console_1

console_2

flights

console_3

console_4

SELECT COUNT(*) FROM airport;

Services

Database Consoles > postgres@localhost > console_4

2:1

CRLF

UTF-8

4 spaces

Trial

0:18

24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console

console_1

console_2

flights

console_3

console_4

console_5

TRUNCATE TABLE airport RESTART IDENTITY CASCADE;

Services

Database Consoles > postgres@localhost > console_5

2:1

CRLF

UTF-8

4 spaces

Trial

KA3

0:19

24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console

console_1

console_2

flights

console_3

console_4

console_5

console_6

postgres.public

1

2

3

4

INSERT INTO airline (airline_code, airline_name, airline_country)

VALUES (airline_code 'KZ', airline_name 'KazAir', airline_country 'Kazakhstan');

SELECT * FROM airline WHERE airline_name = 'KazAir';

Services

Database Consoles > postgres@localhost > console_6

4:1 CRLF UTF-8 4 spaces Trial

0:20

24.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

columns

keys

indexes

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines

sequences

Database Objects

access methods

casts

extensions

languages

virtual views

Server Objects

console_1 console_2 flights console_3 console_4 console_5 console_6 console_7

1

2

SELECT * FROM airline WHERE airline_name IN ('AirEasy','FlyHigh','FlyFly');

postgres.public

Services

Database Consoles > postgres@localhost > console_7

2:1 CRLF UTF-8 4 spaces Trial

KA3

0:21

24.09.2025

Lab01Version control

Database Explorer

postgres@localhost1

postgres1 of 3

public

tables10

airline

columns6

keys1

indexes1

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines1

sequences10

Database Objects

access methods7

casts229

extensions1

languages4

virtual views2

Server Objects

console_2flightsconsole_3console_4console_5console_6console_7console_8x

postgres.public

1SELECT COUNT(*) FROM flights WHERE sch_arrival_time >= '2024-01-01' AND sch_arrival_time < '2025-01-01';

2

Database Consoles > postgres@localhost > console_82:1CRLFUTF-84 spacesTrial0:2224.09.2025

Database Explorer

postgres@localhost 1

postgres 1 of 3

public

tables 10

airline

- columns 6
- keys 1
- indexes 1

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

routines 1

sequences 10

Database Objects

- access methods 7
- casts 229
- extensions 1
- languages 4
- virtual views 2

Server Objects

flights console_3 console_4 console_5 console_6 console_7 console_8 console_9 x

Tx: Auto Playground postgres.public

```
1 DELETE FROM flights WHERE sch_arrival_time >= '2024-01-01' AND sch_arrival_time < '2025-01-01';
2
```

Lab01Version control

Database Explorer

postgres@localhost1

postgres1 of 3

public

tables10

airline

columns6

keys1

indexes1

airport

baggage

baggage_check

boarding_pass

booking

columns8

booking_idinteger (auto increment)

flight_idinteger

passenger_idinteger

booking_platformvarchar(50)

created_attimestamp = now()

updated_attimestamp = now()

statusvarchar(50)

ticket_pricenumeric(7,2)

keys1

foreign keys2

indexes1

booking_flight

console_4console_5console_6console_7console_8console_9console_10console_11

postgres.public

SELECT

COUNT(*) AS cnt,

MIN(ticket_price) AS min_price,

MAX(ticket_price) AS max_price,

ROUND(AVG(ticket_price), 2) AS avg_price

FROM booking;

Services

Database Consoles > postgres@localhost > console_11

7:1CRLFUTF-84 spacesTrial

0:2924.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

columns

booking_id integer (auto increment)

flight_id integer

passenger_id integer

booking_platform varchar(50)

created_at timestamp = now()

updated_at timestamp = now()

status varchar(50)

ticket_price numeric(7,2)

keys

foreign keys

indexes

booking_flight

console_5 console_6 console_7 console_8 console_9 console_10 console_11 console_12

UPDATE booking SET ticket_price = ROUND(ticket_price * 1.15, 2);

Services

Database Consoles > postgres@localhost > console_12

2:1 CRLF UTF-8 4 spaces

0:29 24.09.2025

Lab01Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

columns

booking_id integer (auto increment)

flight_id integer

passenger_id integer

booking_platform varchar(50)

created_at timestamp = now()

updated_at timestamp = now()

status varchar(50)

ticket_price numeric(7,2)

keys

foreign keys

indexes

booking_flight

console_6console_7console_8console_9console_10console_11console_12console_13

SELECT COUNT(*) FROM booking WHERE ticket_price < 10000;

Services

Database Consoles > postgres@localhost > console_13

2:1CRLFUTF-84 spaces

0:3124.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

airport

baggage

baggage_check

boarding_pass

booking

columns

booking_id integer (auto increment)

flight_id integer

passenger_id integer

booking_platform varchar(50)

created_at timestamp = now()

updated_at timestamp = now()

status varchar(50)

ticket_price numeric(7,2)

keys

foreign keys

indexes

booking_flight

console_6 console_7 console_8 console_9 console_10 console_11 console_12 console_13

DELETE FROM booking WHERE ticket_price < 10000;

Services

Database Consoles > postgres@localhost > console_13

2:1 CRLF UTF-8 4 spaces Trial

0:31 24.09.2025

Lab01Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

columns

keys

indexes

airport

baggage

baggage_check

boarding_pass

booking

columns

booking_idinteger (auto increment)

flight_idinteger

passenger_idinteger

booking_platformvarchar(50)

created_attimestamp = now()

updated_attimestamp = now()

statusvarchar(50)

ticket_pricenumeric(7,2)

keys

foreign keys

indexes

booking_flight

console_7console_8console_9console_10console_11console_12console_13console_14

SELECT

tc.constraint_name, tc.table_name, kcu.column_name,

ccu.table_name AS foreign_table_name, ccu.column_name AS foreign_column_name

FROM information_schema.table_constraints AS tc

JOIN information_schema.key_column_usage AS kcu

ON tc.constraint_name = kcu.constraint_name

JOIN information_schema.constraint_column_usage AS ccu

ON ccu.constraint_name = tc.constraint_name

WHERE tc.constraint_type = 'FOREIGN KEY' AND tc.table_schema='public'

ORDER BY tc.table_name;

Services

Database Consoles > postgres@localhost > console_14

11:1CRLFUTF-84 spacesTrial

0:3224.09.2025

Lab01

Version control

Database Explorer

postgres@localhost

postgres

public

tables

airline

columns

keys

indexes

airport

baggage

baggage_check

boarding_pass

booking

columns

booking_id

flight_id

passenger_id

booking_platform

created_at

updated_at

status

ticket_price

keys

foreign keys

indexes

booking_flight

console_8

console_9

console_10

console_11

console_12

console_13

console_14

console_15

Tx: Auto

Playground

1

2

3

4

5

6

SELECT COUNT(*) FROM airport;

SELECT COUNT(*) FROM airline;

SELECT COUNT(*) FROM flights;

SELECT COUNT(*) FROM booking;

SELECT COUNT(*) FROM passengers;

Services

Database Consoles

postgres@localhost

console_15

6:1

CRLF

UTF-8

4 spaces

Trial

0:32

24.09.2025