

pgAdmin 4

File Object Tools Edit View Window Help

Object lab2_db/postgres@PostgreSQL 17* X

Servers (1)

- PostgreSQL 17
 - Databases (3)
 - lab1_db
 - lab2_db
 - Casts
 - Catalogs
 - Event Triggers
 - Extensions
 - Foreign Data Wra
 - Languages
 - Publications
 - Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Config
 - FTS Diction
 - FTS Parser
 - FTS Template
 - Foreign Tab
 - Functions
 - Materializer
 - Operators
 - Procedures
 - Sequences
 - Tables
 - Trigger Fun
 - Types

lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
1 DROP TABLE IF EXISTS baggage_check CASCADE;
2 DROP TABLE IF EXISTS baggage CASCADE;
3 DROP TABLE IF EXISTS boarding_pass CASCADE;
4 DROP TABLE IF EXISTS booking_flight CASCADE;
5 DROP TABLE IF EXISTS booking CASCADE;
6 DROP TABLE IF EXISTS flights CASCADE;
7 DROP TABLE IF EXISTS passengers CASCADE;
8 DROP TABLE IF EXISTS security_check CASCADE;
9 DROP TABLE IF EXISTS airport CASCADE;
10 DROP TABLE IF EXISTS airline CASCADE;
11
12
13 CREATE TABLE airline_info (
14     airline_id SERIAL PRIMARY KEY,
15     airline_code VARCHAR(30) NOT NULL,
16     airline_name VARCHAR(50) NOT NULL,
17     airline_country VARCHAR(50) NOT NULL,
18     created_at TIMESTAMP NOT NULL DEFAULT now(),
19     updated_at TIMESTAMP NOT NULL DEFAULT now(),
20     info VARCHAR(50) NOT NULL
21 );
22
23 CREATE TABLE airport (
24     airport_id SERIAL PRIMARY KEY,
25     airport_name VARCHAR(50) NOT NULL,
26     country VARCHAR(50) NOT NULL,
27     state VARCHAR(50) NOT NULL,
28     city VARCHAR(50) NOT NULL,
29     created_at TIMESTAMP NOT NULL DEFAULT now(),
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 27, Col 30

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lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
29      created_at TIMESTAMP NOT NULL DEFAULT now(),
30      updated_at TIMESTAMP NOT NULL DEFAULT now()
31  );
32
33  CREATE TABLE passengers (
34      passenger_id SERIAL PRIMARY KEY,
35      first_name VARCHAR(50) NOT NULL,
36      last_name VARCHAR(50) NOT NULL,
37      date_of_birth DATE NOT NULL,
38      gender VARCHAR(50) NOT NULL,
39      country_of_citizenship VARCHAR(50) NOT NULL,
40      country_of_residence VARCHAR(50) NOT NULL,
41      passport_number VARCHAR(20) NOT NULL,
42      created_at TIMESTAMP NOT NULL DEFAULT now(),
43      updated_at TIMESTAMP NOT NULL DEFAULT now()
44  );
45
46  CREATE TABLE security_check (
47      security_check_id SERIAL PRIMARY KEY,
48      check_result VARCHAR(20) NOT NULL,
49      created_at TIMESTAMP NOT NULL DEFAULT now(),
50      updated_at TIMESTAMP NOT NULL DEFAULT now(),
51      passenger_id INT NOT NULL
52  );
53
54  CREATE TABLE booking (
55      booking_id SERIAL PRIMARY KEY,
56      flight_id INT NOT NULL,
57      passenger_id INT NOT NULL,
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 57, Col 29

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lab2_db/postgres@PostgreSQL 17*

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lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
57 passenger_id INT NOT NULL,
58 booking_platform VARCHAR(50) NOT NULL,
59 created_at TIMESTAMP NOT NULL DEFAULT now(),
60 updated_at TIMESTAMP NOT NULL DEFAULT now(),
61 status VARCHAR(50) NOT NULL,
62 price DECIMAL(7,2) NOT NULL
63 );
64
65 CREATE TABLE baggage_check (
66 baggage_check_id SERIAL PRIMARY KEY,
67 check_result VARCHAR(50) NOT NULL,
68 created_at TIMESTAMP NOT NULL DEFAULT now(),
69 updated_at TIMESTAMP NOT NULL DEFAULT now(),
70 booking_id INT NOT NULL,
71 passenger_id INT NOT NULL
72 );
73
74 CREATE TABLE baggage (
75 baggage_id SERIAL PRIMARY KEY,
76 weight_in_kg DECIMAL(4,2) NOT NULL,
77 created_at TIMESTAMP NOT NULL DEFAULT now(),
78 updated_at TIMESTAMP NOT NULL DEFAULT now(),
79 booking_id INT NOT NULL
80 );
81
82 CREATE TABLE boarding_pass (
83 boarding_pass_id SERIAL PRIMARY KEY,
84 booking_id INT NOT NULL,
85 seat VARCHAR(50) NOT NULL,
```







Data Output Messages Notifications

Total rows: Query complete 00:00:00.068


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File Object Tools Edit View Window Help

Object      

Dashboard × Properties × SQL × Statistics × Dependencies × Dependents × Processes × lab2_db/postgres@PostgreSQL 17* ×

lab2_db/postgres@PostgreSQL 17 

    No limit      

Query Query History

```
85 seat VARCHAR(50) NOT NULL,
86 boarding_time TIMESTAMP NOT NULL,
87 created_at TIMESTAMP NOT NULL DEFAULT now(),
88 updated_at TIMESTAMP NOT NULL DEFAULT now()
89 );
90
91 CREATE TABLE booking_flight (
92 booking_flight_id SERIAL PRIMARY KEY,
93 booking_id INT NOT NULL,
94 flight_id INT NOT NULL,
95 created_at TIMESTAMP NOT NULL DEFAULT now(),
96 updated_at TIMESTAMP NOT NULL DEFAULT now()
97 );
98
99 CREATE TABLE flights (
100 flight_id SERIAL PRIMARY KEY,
101 sch_departure_time TIMESTAMP NOT NULL,
102 sch_arrival_time TIMESTAMP NOT NULL,
103 departing_airport_id INT NOT NULL,
104 arriving_airport_id INT NOT NULL,
105 departing_gate VARCHAR(50) NOT NULL,
106 arriving_gate VARCHAR(50) NOT NULL,
107 airline_id INT NOT NULL,
108 act_departure_time TIMESTAMP NOT NULL,
109 act_arrival_time TIMESTAMP NOT NULL,
110 created_at TIMESTAMP NOT NULL DEFAULT now(),
111 updated_at TIMESTAMP NOT NULL DEFAULT now()
112 );
113
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 113, Col 1

Servers (1)

- PostgreSQL 17
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File Object Tools Edit View Window Help

Dashboard × Properties × SQL × Statistics × Dependencies × Dependents × Processes × lab2_db/postgres@PostgreSQL 17* ×

lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
114 ALTER TABLE security_check
115     ADD CONSTRAINT fk_security_passenger
116     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
117
118 ALTER TABLE booking
119     ADD CONSTRAINT fk_booking_passenger
120     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id),
121     ADD CONSTRAINT fk_booking_flight
122     FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
123
124 ALTER TABLE baggage_check
125     ADD CONSTRAINT fk_baggagecheck_booking
126     FOREIGN KEY (booking_id) REFERENCES booking(booking_id),
127     ADD CONSTRAINT fk_baggagecheck_passenger
128     FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
129
130 ALTER TABLE baggage
131     ADD CONSTRAINT fk_baggage_booking
132     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
133
134 ALTER TABLE boarding_pass
135     ADD CONSTRAINT fk_boarding_booking
136     FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
137
138 ALTER TABLE booking_flight
139     ADD CONSTRAINT fk_bookingflight_booking
140     FOREIGN KEY (booking_id) REFERENCES booking(booking_id),
141     ADD CONSTRAINT fk_bookingflight_flight
142     FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 142, Col 59

Servers (1)
PostgreSQL 17
Databases (3)
lab1_db
lab2_db
Casts
Catalogs
Event Triggers
Extensions
Foreign Data Wra
Languages
Publications
Schemas (1)
public
Aggregates
Collations
Domains
FTS Config
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File Object Tools Edit View Window Help

Default Workspace

Servers (1)

- PostgreSQL 17
 - Databases (3)
 - lab1_db
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lab2_db/postgres@PostgreSQL 17

Query

```
128 FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id);
129
130 ALTER TABLE baggage
131 ADD CONSTRAINT fk_baggage_booking
132 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
133
134 ALTER TABLE boarding_pass
135 ADD CONSTRAINT fk_boarding_booking
136 FOREIGN KEY (booking_id) REFERENCES booking(booking_id);
137
138 ALTER TABLE booking_flight
139 ADD CONSTRAINT fk_bookingflight_booking
140 FOREIGN KEY (booking_id) REFERENCES booking(booking_id),
141 ADD CONSTRAINT fk_bookingflight_flight
142 FOREIGN KEY (flight_id) REFERENCES flights(flight_id);
143
144 ALTER TABLE flights
145 ADD CONSTRAINT fk_flights_departing_airport
146 FOREIGN KEY (departing_airport_id) REFERENCES airport(airport_id),
147 ADD CONSTRAINT fk_flights_arriving_airport
148 FOREIGN KEY (arriving_airport_id) REFERENCES airport(airport_id),
149 ADD CONSTRAINT fk_flights_airline
150 FOREIGN KEY (airline_id) REFERENCES airline_info(airline_id);
151
152 ALTER TABLE airline_info RENAME TO airline;
153 ALTER TABLE booking RENAME COLUMN price TO ticket_price;
154 ALTER TABLE flights ALTER COLUMN departing_gate TYPE text;
155 ALTER TABLE airline DROP COLUMN info;
156
```

Query History

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

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Object lab2_db/postgres@PostgreSQL 17*

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lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
157 -- Insert 200 random airports
158 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_1', 'India', 'State E', 'Sao Paulo', now(),
159 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_2', 'Germany', 'State B', 'Beijing', now(),
160 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_3', 'Kazakhstan', 'State E', 'Nur-Sultan', r
161 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_4', 'USA', 'Region Z', 'Aktobe', now(), now(
162 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_5', 'UK', 'State C', 'Toronto', now(), now(
163 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_6', 'Turkey', 'Region Y', 'Karaganda', now()
164 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_7', 'UK', 'Region Y', 'Shymkent', now(), now(
165 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_8', 'Japan', 'State D', 'Karaganda', now(),
166 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_9', 'Uzbekistan', 'State A', 'Aktobe', now()
167 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_10', 'Brazil', 'State C', 'Pavlodar', now(),
168 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_11', 'UK', 'State A', 'Warsaw', now(), now(
169 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_12', 'Canada', 'State C', 'Aktobe', now(), r
170 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_13', 'Canada', 'State E', 'Karaganda', now()
171 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_14', 'Canada', 'Region Y', 'Mumbai', now(),
172 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_15', 'France', 'State E', 'New York', now(),
173 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_16', 'Poland', 'State B', 'Shymkent', now(),
174 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_17', 'Germany', 'Region Y', 'Karaganda', now(
175 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_18', 'Uzbekistan', 'State D', 'New York', nc
176 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_19', 'Russia', 'Region Y', 'Tokyo', now(), r
177 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_20', 'Poland', 'State A', 'Shymkent', now(),
178 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_21', 'Canada', 'State A', 'Sao Paulo', now()
179 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_22', 'India', 'State B', 'Oral', now(), now(
180 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_23', 'Kazakhstan', 'Region Y', 'Aktobe', now(
181 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_24', 'Germany', 'Region X', 'Sao Paulo', nov
182 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_25', 'Poland', 'State D', 'Karaganda', now()
183 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_26', 'Uzbekistan', 'Region Y', 'Karaganda',
184 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_27', 'Brazil', 'Region Y', 'Sao Paulo', now(
185 INSERT INTO airport (airport_name, country, state, city, created_at, updated_at) VALUES ('Airport_28', 'Poland', 'State C', 'Warsaw', now(), r
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 185, Col 1

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File Object Tools Edit View Window Help

Dashboard × Properties × SQL × Statistics × Dependencies × Dependents × Processes × lab2_db/postgres@PostgreSQL 17* ×

lab2_db/postgres@PostgreSQL 17

No limit

Query Query History

```
360 INSERT INTO airline (airline_code, airline_name, airline_country, created_at, updated_at)
361 VALUES ('KZ01', 'KazAir', 'Kazakhstan', now(), now());
362
363 -- Update the airline country 'KazAir' to 'Turkey'
364 UPDATE airline SET airline_country = 'Turkey' WHERE airline_name = 'KazAir';
365
366 -- Add three airlines at once
367 INSERT INTO airline (airline_code, airline_name, airline_country, created_at, updated_at)
368 VALUES ('AE01', 'AirEasy', 'France', now(), now()),
369 ('FH01', 'FlyHigh', 'Brazil', now(), now()),
370 ('FF01', 'FlyFly', 'Poland', now(), now());
371
372 -- Delete all flights whose act_arrival_time is in year 2024
373 DELETE FROM flights
374 WHERE EXTRACT(YEAR FROM act_arrival_time) = 2024;
375
376 -- Increase the ticket_price of all bookings by 15%
377 UPDATE booking
378 SET ticket_price = ROUND(ticket_price * 1.15, 2);
379
380 -- Delete all tickets (bookings) where ticket_price < 10000
381 DELETE FROM booking
382 WHERE ticket_price < 10000;
383
384 -- Quick checks
385 SELECT * FROM airport;
386 SELECT * FROM airline;
387 SELECT * FROM booking WHERE ticket_price < 10000;
388 SELECT * FROM flights WHERE EXTRACT(YEAR FROM act_arrival_time) = 2024;
```

Data Output Messages Notifications

Total rows: Query complete 00:00:00.068

CRLF Ln 360, Col 1