

pgAdmin 4

File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History

```
1 CREATE TABLE airline_info (  
2     airline_id INT NOT NULL PRIMARY KEY,  
3     airline_code VARCHAR(30) NOT NULL,  
4     airline_name VARCHAR(50) NOT NULL,  
5     airline_country VARCHAR(50) NOT NULL,  
6     created_at TIMESTAMP NOT NULL,  
7     updated_at TIMESTAMP NOT NULL,  
8     info VARCHAR(50) NOT NULL  
9 );  
10  
11 CREATE TABLE airport (  
12     airport_id INT NOT NULL PRIMARY KEY,  
13     airport_name VARCHAR(50) NOT NULL,  
14     country VARCHAR(50) NOT NULL,  
15     state VARCHAR(50) NOT NULL,  
16     city VARCHAR(50) NOT NULL,  
17     created_at TIMESTAMP NOT NULL,  
18     updated_at TIMESTAMP NOT NULL  
19 );  
20  
21 CREATE TABLE passengers (  
22     passenger_id INT NOT NULL PRIMARY KEY,  
23     first_name VARCHAR(50) NOT NULL,  
24     last_name VARCHAR(50) NOT NULL,  
25     date_of_birth DATE NOT NULL,  
26     gender VARCHAR(50) NOT NULL,  
27     country_of_citizenship VARCHAR(50) NOT NULL,  
28     country_of_residence VARCHAR(50) NOT NULL,  
29     passport_number VARCHAR(20) NOT NULL,  
30     created_at TIMESTAMP NOT NULL,  
31     updated_at TIMESTAMP NOT NULL  
32 );  
33  
34 CREATE TABLE flights (  
35     flight_id INT NOT NULL PRIMARY KEY,  
36     sch_departure_time TIMESTAMP NOT NULL,  
37     sch_arrival_time TIMESTAMP NOT NULL,  
38     departing_airport_id INT NOT NULL,  
39     arriving_airport_id INT NOT NULL
```

Scratch Pad

Total rows: 4 Query complete 00:00:00.140

CRLF Ln 112, Col 3

pgAdmin 4

File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab_1* x

Lab1ok/postgres@Lab_1

No limit

Query Query History

```
34 CREATE TABLE flights (  
35     flight_id INT NOT NULL PRIMARY KEY,  
36     sch_departure_time TIMESTAMP NOT NULL,  
37     sch_arrival_time TIMESTAMP NOT NULL,  
38     departing_airport_id INT NOT NULL,  
39     arriving_airport_id INT NOT NULL,  
40     departing_gate VARCHAR(50) NOT NULL,  
41     arriving_gate VARCHAR(50) NOT NULL,  
42     airline_id INT NOT NULL,  
43     act_departure_time TIMESTAMP NOT NULL,  
44     act_arrival_time TIMESTAMP NOT NULL,  
45     created_at TIMESTAMP NOT NULL,  
46     updated_at TIMESTAMP NOT NULL,  
47     CONSTRAINT fk_flights_departing_airport FOREIGN KEY (departing_airport_id) REFERENCES airport(airport_id),  
48     CONSTRAINT fk_flights_arriving_airport FOREIGN KEY (arriving_airport_id) REFERENCES airport(airport_id),  
49     CONSTRAINT fk_flights_airline FOREIGN KEY (airline_id) REFERENCES airline_info(airline_id)  
50 );  
51  
52 CREATE TABLE booking (  
53     booking_id INT NOT NULL PRIMARY KEY,  
54     flight_id INT NOT NULL,  
55     passenger_id INT NOT NULL,  
56     booking_platform VARCHAR(50) NOT NULL,  
57     created_at TIMESTAMP NOT NULL,  
58     updated_at TIMESTAMP NOT NULL,  
59     status VARCHAR(50) NOT NULL,  
60     price DECIMAL(7,2) NOT NULL,  
61     CONSTRAINT fk_booking_flight FOREIGN KEY (flight_id) REFERENCES flights(flight_id),  
62     CONSTRAINT fk_booking_passenger FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id)  
63 );  
64  
65 CREATE TABLE booking_flight (  
66     booking_flight_id INT NOT NULL PRIMARY KEY,  
67     booking_id INT NOT NULL,  
68     flight_id INT NOT NULL,  
69     created_at TIMESTAMP NOT NULL,  
70     updated_at TIMESTAMP NOT NULL,  
71     CONSTRAINT fk_bookingflight_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id),  
72     CONSTRAINT fk_bookingflight_flight FOREIGN KEY (flight_id) REFERENCES flights(flight_id)  
73 );
```

Total rows: 4 Query complete 00:00:00.140

Scratch Pad x

Snipping Tool

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No limit

Query Query History

```
65 CREATE TABLE booking_flight (  
66     booking_flight_id INT NOT NULL PRIMARY KEY,  
67     booking_id INT NOT NULL,  
68     flight_id INT NOT NULL,  
69     created_at TIMESTAMP NOT NULL,  
70     updated_at TIMESTAMP NOT NULL,  
71     CONSTRAINT fk_bookingflight_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id),  
72     CONSTRAINT fk_bookingflight_flight FOREIGN KEY (flight_id) REFERENCES flights(flight_id)  
73 );  
74  
75 CREATE TABLE boarding_pass (  
76     boarding_pass_id INT NOT NULL PRIMARY KEY,  
77     booking_id INT NOT NULL,  
78     seat VARCHAR(50) NOT NULL,  
79     boarding_time TIMESTAMP NOT NULL,  
80     created_at TIMESTAMP NOT NULL,  
81     updated_at TIMESTAMP NOT NULL,  
82     CONSTRAINT fk_boardingpass_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id)  
83 );  
84  
85 CREATE TABLE baggage (  
86     baggage_id INT NOT NULL PRIMARY KEY,  
87     weight_in_kg DECIMAL(4,2) NOT NULL,  
88     created_at TIMESTAMP NOT NULL,  
89     updated_at TIMESTAMP NOT NULL,  
90     booking_id INT NOT NULL,  
91     CONSTRAINT fk_baggage_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id)  
92 );  
93  
94 CREATE TABLE baggage_check (  
95     baggage_check_id INT NOT NULL PRIMARY KEY,  
96     check_result VARCHAR(50) NOT NULL,  
97     created_at TIMESTAMP NOT NULL,  
98     updated_at TIMESTAMP NOT NULL,  
99     booking_id INT NOT NULL,  
100     passenger_id INT NOT NULL,  
101     CONSTRAINT fk_baggagecheck_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id),  
102     CONSTRAINT fk_baggagecheck_passenger FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id)
```

Total rows: 4 Query complete 00:00:00.140

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Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History

```
75 CREATE TABLE boarding_pass (  
76     boarding_pass_id INT NOT NULL PRIMARY KEY,  
77     booking_id INT NOT NULL,  
78     seat VARCHAR(50) NOT NULL,  
79     boarding_time TIMESTAMP NOT NULL,  
80     created_at TIMESTAMP NOT NULL,  
81     updated_at TIMESTAMP NOT NULL,  
82     CONSTRAINT fk_boardingpass_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id)  
83 );  
84  
85 CREATE TABLE baggage (  
86     baggage_id INT NOT NULL PRIMARY KEY,  
87     weight_in_kg DECIMAL(4,2) NOT NULL,  
88     created_at TIMESTAMP NOT NULL,  
89     updated_at TIMESTAMP NOT NULL,  
90     booking_id INT NOT NULL,  
91     CONSTRAINT fk_baggage_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id)  
92 );  
93  
94 CREATE TABLE baggage_check (  
95     baggage_check_id INT NOT NULL PRIMARY KEY,  
96     check_result VARCHAR(50) NOT NULL,  
97     created_at TIMESTAMP NOT NULL,  
98     updated_at TIMESTAMP NOT NULL,  
99     booking_id INT NOT NULL,  
100     passenger_id INT NOT NULL,  
101     CONSTRAINT fk_baggagecheck_booking FOREIGN KEY (booking_id) REFERENCES booking(booking_id),  
102     CONSTRAINT fk_baggagecheck_passenger FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id)  
103 );  
104  
105 CREATE TABLE security_check (  
106     security_check_id INT NOT NULL PRIMARY KEY,  
107     check_result VARCHAR(20) NOT NULL,  
108     created_at TIMESTAMP NOT NULL,  
109     updated_at TIMESTAMP NOT NULL,  
110     passenger_id INT NOT NULL,  
111     CONSTRAINT fk_securitycheck_passenger FOREIGN KEY (passenger_id) REFERENCES passengers(passenger_id)  
112 );
```

Total rows: 4 Query complete 00:00:00.140

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Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History

Scratch Pad

```
66 CREATE TABLE Flights (  
67     flight_id INT PRIMARY KEY NOT NULL,  
68     sch_departure_time TIMESTAMP NOT NULL,  
69     sch_arrival_time TIMESTAMP NOT NULL,  
70     departing_airport_id INT NOT NULL,  
71     arriving_airport_id INT NOT NULL,  
72     departing_gate VARCHAR(50) NOT NULL,  
73     arriving_gate VARCHAR(50) NOT NULL,  
74     airline_id INT NOT NULL,  
75     act_departure_time TIMESTAMP NOT NULL,  
76     act_arrival_time TIMESTAMP NOT NULL,  
77     created_at TIMESTAMP NOT NULL,  
78     updated_at TIMESTAMP NOT NULL  
79 );  
80  
81 CREATE TABLE Passengers (  
82     passenger_id INT PRIMARY KEY NOT NULL,  
83     first_name VARCHAR(50) NOT NULL,  
84     last_name VARCHAR(50) NOT NULL,  
85     date_of_birth DATE NOT NULL,  
86     gender VARCHAR(50) NOT NULL,  
87     country_of_citizenship VARCHAR(50) NOT NULL,  
88     country_of_residence VARCHAR(50) NOT NULL,  
89     passport_number VARCHAR(20) NOT NULL,  
90     created_at TIMESTAMP NOT NULL,  
91     updated_at TIMESTAMP NOT NULL  
92 );  
93  
94 CREATE TABLE Security_check (  
95     security_check_id INT PRIMARY KEY NOT NULL,  
96     check_result VARCHAR(20) NOT NULL,  
97     created_at TIMESTAMP NOT NULL,  
98     updated_at TIMESTAMP NOT NULL,  
99     passenger_id INT NOT NULL  
100 );
```

Total rows: CRLF Ln 1, Col 1

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FileObjectToolsEditViewWindowHelp

WelcomeLab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

QueryQuery History

1--5,6,7,8

2ALTER TABLE Airline_info RENAME TO Airline;

3ALTER TABLE Booking RENAME COLUMN price to ticket_price;

4ALTER TABLE Flights ALTER COLUMN departing_gate TYPE TEXT;

5ALTER TABLE Airline DROP COLUMN info;

6

7SELECT * FROM airline;

8

Scratch Pad

Data OutputMessagesNotifications

airline_id[PK] integer

airline_codecharacter varying (30)

airline_namecharacter varying (50)

airline_countrycharacter varying (50)

created_attimestamp without time zone

updated_attimestamp without time zone

Total rows: 0

Query complete 00:00:00.114

✓ Successfully run. Total query runtime: 114 msec. 0 rows affected.

CRLF Ln 8, Col 1

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File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History

```
1 ALTER TABLE Security_check
2   ADD CONSTRAINT fk_security_passenger
3   FOREIGN KEY (passenger_id)
4   REFERENCES Passengers (passenger_id);
5
6 ALTER TABLE Booking
7   ADD CONSTRAINT fk_booking_passenger
8   FOREIGN KEY (passenger_id)
9   REFERENCES Passengers (passenger_id);
10
11 ALTER TABLE Baggage_check
12   ADD CONSTRAINT fk_baggage_check_passenger
13   FOREIGN KEY (passenger_id)
14   REFERENCES Passengers (passenger_id);
15
16 ALTER TABLE Baggage_check
17   ADD CONSTRAINT fk_baggage_check_booking
18   FOREIGN KEY (booking_id)
19   REFERENCES Booking (booking_id);
20
21 ALTER TABLE Baggage
22   ADD CONSTRAINT fk_baggage_booking
23   FOREIGN KEY (booking_id)
24   REFERENCES Booking (booking_id);
25
26 ALTER TABLE Boarding_pass
27   ADD CONSTRAINT fk_boarding_pass_booking
28   FOREIGN KEY (booking_id)
29   REFERENCES Booking (booking_id);
30
31 ALTER TABLE Booking_flight
32   ADD CONSTRAINT fk_booking_flight_booking
33   FOREIGN KEY (booking_id)
34   REFERENCES Booking (booking_id);
35
36 ALTER TABLE Booking_flight
37   ADD CONSTRAINT fk_booking_flight_flight
38   FOREIGN KEY (flight_id)
39   REFERENCES Flights (flight_id);
40
```

Scratch Pad

Total rows: 0 Query complete 00:00:00.142

CRLF Ln 14, Col 42

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File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History

```
22 ADD CONSTRAINT fk_baggage_booking
23 FOREIGN KEY (booking_id)
24 REFERENCES Booking (booking_id);
25
26 ALTER TABLE Boarding_pass
27 ADD CONSTRAINT fk_boarding_pass_booking
28 FOREIGN KEY (booking_id)
29 REFERENCES Booking (booking_id);
30
31 ALTER TABLE Booking_flight
32 ADD CONSTRAINT fk_booking_flight_booking
33 FOREIGN KEY (booking_id)
34 REFERENCES Booking (booking_id);
35
36 ALTER TABLE Booking_flight
37 ADD CONSTRAINT fk_booking_flight_flight
38 FOREIGN KEY (flight_id)
39 REFERENCES Flights (flight_id);
40
41 ALTER TABLE Booking
42 ADD CONSTRAINT fk_booking_flight
43 FOREIGN KEY (flight_id)
44 REFERENCES Flights (flight_id);
45
46 ALTER TABLE Flights
47 ADD CONSTRAINT fk_flights_departing_airport
48 FOREIGN KEY (departing_airport_id)
49 REFERENCES Airport (airport_id);
50
51 ALTER TABLE Flights
52 ADD CONSTRAINT fk_flights_arriving_airport
53 FOREIGN KEY (arriving_airport_id)
54 REFERENCES Airport (airport_id);
55
56 ALTER TABLE Flights
57 ADD CONSTRAINT fk_flights_airline
58 FOREIGN KEY (airline_id)
59 REFERENCES Airline (airline_id);
60
```

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Scratch Pad

Total rows: 0 Query complete 00:00:00.142

CRLF Ln 14, Col 42

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FileObjectToolsEditViewWindowHelp

WelcomeLab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

Query

Query History

Scratch Pad

1

2

SELECT * FROM airport

Data OutputMessagesNotifications

Showing rows: 1 to 200

Page No: 1

of 1

	airport_id [PK] integer	airport_name character varying (50)	country character varying (50)	state character varying (50)	city character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	1	Dusseldorf City Airport	Germany	North Rhine-Westphalia	Dusseldorf	2021-09-13 02:12:40	2021-10-21 22:40:46
2	2	Lyon Airport	France	Auvergne-Rhone-Alpes	Lyon	2023-02-03 16:26:14	2024-02-19 02:40:02
3	3	Barcelona International Airport	Spain	Catalonia	Barcelona	2022-08-26 16:33:50	2023-03-31 10:54:53
4	4	Barcelona - Spain International	Spain	Catalonia	Barcelona	2021-08-16 15:21:31	2024-07-02 20:32:38
5	5	Melbourne Airport	Australia	Victoria	Melbourne	2025-05-23 14:14:28	2025-06-09 11:24:19
6	6	Berlin International Airport	Germany	Berlin	Berlin	2024-05-05 01:32:10	2024-05-29 18:00:29
7	7	Mumbai Airport	India	Maharashtra	Mumbai	2021-01-02 18:36:23	2021-10-20 21:01:48
8	8	Nur-Sultan Regional Airport	Kazakhstan	Akmola Region	Nur-Sultan	2022-08-12 11:35:37	2023-08-08 21:49:13
9	9	Sydney International Airport	Australia	New South Wales	Sydney	2025-01-19 06:47:10	2025-09-10 02:00:26
10	10	Rome Regional Airport	Italy	Lazio	Rome	2020-12-23 15:25:48	2022-09-02 09:50:22
11	11	Osaka Regional Airport	Japan	Osaka Prefecture	Osaka	2025-05-22 06:32:48	2025-08-11 17:39:02
12	12	Mexico City - Mexico International	Mexico	Mexico City	Mexico City	2022-08-18 02:00:31	2024-07-15 21:44:08
13	13	Frankfurt International Airport	Germany	Hesse	Frankfurt	2023-02-13 12:10:02	2023-02-23 14:27:30
14	14	Munich Airport	Germany	Bavaria	Munich	2022-02-10 05:49:33	2025-01-29 18:20:56
15	15	Valencia International Airport	Spain	Valencian Community	Valencia	2024-05-07 05:10:42	2025-01-26 11:54:27
16	16	Berlin - Germany International	Germany	Berlin	Berlin	2023-02-12 12:21:13	2023-10-12 01:02:58
17	17	Mexico City - Mexico International	Mexico	Mexico City	Mexico City	2022-08-02 03:43:20	2024-01-07 00:52:35

Total rows: 200Query complete 00:00:00.094

CRLF Ln 2, Col 1

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File Object Tools Edit View Window Help

Welcome Lab1ok/postgres@Lab_1*

Lab1ok/postgres@Lab_1

No limit

Query Query History Scratch Pad

```
1 -- Task 2
2 INSERT INTO Airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
3 VALUES (1, 'KAZ', 'KazAir', 'Kazakhstan', CURRENT_TIMESTAMP, CURRENT_TIMESTAMP);
4
5 -- Task 3
6 UPDATE Airline
7 SET airline_country = 'Turkey',
8     updated_at = CURRENT_TIMESTAMP
9 WHERE airline_name = 'KazAir';
10
11 -- Task 4
12 INSERT INTO Airline (airline_id, airline_code, airline_name, airline_country, created_at, updated_at)
13 VALUES
14     (2, 'AEZ', 'AirEasy', 'France', CURRENT_TIMESTAMP, CURRENT_TIMESTAMP),
15     (3, 'FHY', 'FlyHigh', 'Brazil', CURRENT_TIMESTAMP, CURRENT_TIMESTAMP),
16     (4, 'FFV', 'FlyFly', 'Poland', CURRENT_TIMESTAMP, CURRENT_TIMESTAMP);
17
18 -- Task 5
19 DELETE FROM Flights
20 WHERE EXTRACT(YEAR FROM sch_arrival_time) = 2024;
21
22 -- Task 6
23 UPDATE Booking
24 SET ticket_price = ticket_price * 1.15,
25     updated_at = CURRENT_TIMESTAMP;
26
27 -- Task 7
28 DELETE FROM Booking
29 WHERE ticket_price < 10000;
30
31 SELECT * FROM airport
32
```

Data Output Messages Notifications

Showing rows: 1 to 200 Page No: 1 of 1

airport_id	airport_name	country	state	city	created_at	updated_at
[PK] integer	character varying (50)	character varying (50)	character varying (50)	character varying (50)	timestamp without time zone	timestamp without time zone

Total rows: 200 Query complete 00:00:00.094 CRLF Ln 8, Col 30

- 1
- 2
- 3

Showing rows: 1 to 4 Page No: 1 of 1

	airline_id [FK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	1	KAZ	KazAir	Turkey	2025-10-01 09:50:16.83072	2025-10-01 09:50:16.83072
2	2	AEZ	AirEasy	France	2025-10-01 09:50:16.83072	2025-10-01 09:50:16.83072
3	3	FHY	FlyHigh	Brazil	2025-10-01 09:50:16.83072	2025-10-01 09:50:16.83072
4	4	FFY	FlyFly	Poland	2025-10-01 09:50:16.83072	2025-10-01 09:50:16.83072