

TASK # 1

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2) PostgreSQL PostgreSQL 17

Databases (2) Airport postgres

Login/Group Roles Tablespaces

Query Query History

```
1 BEGIN;
2
3 DELETE FROM booking WHERE booking_id = 1;
4
5 SELECT * FROM non_existent_table;
```

Scratch Pad

Data Output Messages Notifications

ERROR: current transaction is aborted, commands ignored until end of transaction block

SQL state: 25P02

Total rows: 0 Query complete 00:00:00.053 CRLF Ln 4, Col 1

7C Mostly clear

Поиск

20:40 24.11.2025

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2) PostgreSQL PostgreSQL 17

Databases (2) Airport postgres

Login/Group Roles Tablespaces

Query Query History

```
1 ROLLBACK;
2
3 SELECT * FROM booking
4 WHERE booking_id = 1;
```

Scratch Pad

Data Output Messages Notifications

booking_id [PK] integer / flight_id integer / passenger_id integer / booking_platform character varying (50) / created_at timestamp without time zone / updated_at timestamp without time zone / status character varying (50) / ticket_price numeric (7,2) /

Total rows: 0 Query complete 00:00:00.114 CRLF Ln 4, Col 21

7C Mostly clear

Поиск

20:42 24.11.2025

TASK #2

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2) PostgreSQL PostgreSQL 17 Databases (2) Airport postgres Login/Group Roles Tablespaces

Airport/postgres@... X Lab3.sql X Lab4.sql X Lab6.sql X Airport/postgres@... X Lab8.sql X Airport/postgres@PostgreSQL 17* X

Query Query History Scratch Pad

```
1 BEGIN;
2
3 UPDATE flights
4 SET sch_departure_time = '2024-12-25 15:30:00'
5 WHERE flight_id = 100;
6
7 SELECT * FROM flights
8 WHERE flight_id = 100;
```

Data Output Messages Notifications

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

flight_id	sch_departure_time	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline_id
100	2024-12-25 15:30:00	2025-10-02 16:06:57.024355	101	102	Gate_100	Gate_101	10

Total rows: 1 Query complete 00:00:00.152 CRLF Ln 7, Col 17

7°C Mostly clear

Поиск

2045 24.11.2025

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2) PostgreSQL PostgreSQL 17 Databases (2) Airport postgres Login/Group Roles Tablespaces

Airport/postgres@... X Lab3.sql X Lab4.sql X Lab6.sql X Airport/postgres@... X Lab8.sql X Airport/postgres@PostgreSQL 17* X

Query Query History Scratch Pad

```
1 ROLLBACK;
2
3 SELECT * FROM flights
4 WHERE flight_id = 100;
```

Data Output Messages Notifications

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

flight_id	sch_departure_time	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline_id
100	2025-10-02 14:06:57.024355	2025-10-02 16:06:57.024355	101	102	Gate_100	Gate_101	10

Total rows: 1 Query complete 00:00:00.149 CRLF Ln 3, Col 23

7°C Mostly clear

Поиск

2046 24.11.2025

TASK #3

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2)
PostgreSQL PostgreSQL 17
Databases (2)
Airport postgres Login/Group Roles Tablespaces

Airport/postgres@PostgreSQL 17

No limit

Query History Scratch Pad

```
1 BEGIN;
2
3 UPDATE booking
4 SET ticket_price = ticket_price * 0.5,
5 updated_at = CURRENT_TIMESTAMP
6 WHERE flight_id = 5;
7
8 COMMIT;
9
10 SELECT * FROM flights
11 WHERE flight_id = 5;
```

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1 |
flight_id [PK] integer sch_departure_time timestamp without time zone sch_arrival_time timestamp without time zone departing_airport_id integer arriving_airport_id integer departing_gate text arriving_gate character varying (50) airline_id integer

flight_id [PK] integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone	departing_airport_id integer	arriving_airport_id integer	departing_gate text	arriving_gate character varying (50)	airline_id integer
1	5 2025-09-28 15:06:57.024355	2025-09-28 17:06:57.024355	6	7	Gate_5	Gate_6	6

Total rows: 1 Query complete 00:00:00.149 CRLF Ln 11, Col 12

6°C Partly cloudy

Поиск

20:50 24.11.2025

TASK #4

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Servers (2)
PostgreSQL
PostgreSQL 17
Databases (2)
Airport
postgres
Login/Group Roles
Tablespaces

Airport/postgres@PostgreSQL 17* Lab3.sql Lab-4.sql Lab6.sql Airport/postgres@... Lab-8.sql Airport/postgres@PostgreSQL 17*

Query Query History Scratch Pad

```
1 BEGIN;
2
3 UPDATE Passengers
4 SET first_name = 'Zharas',
5      last_name = 'Sembayev'
6 WHERE passenger_id = 2;
7
8 COMMIT;
9
10 SELECT b.* , p.first_name , p.last_name
11 FROM booking b
12 JOIN Passengers p ON b.passenger_id = p.passenger_id
13 WHERE b.passenger_id = 2;
```

Data Output Messages Notifications

SQL

	created_at	updated_at	status	ticket_price	ticket_discount	first_name	last_name
1	2025-09-28 10:43:17.072936	2025-09-28 10:43:17.072936	Confirmed	7900.90	[null]	Zharas	Sembayev

Total rows: 1 Query complete 00:00:00.054 CRLF Ln 13, Col 26

ARS - TOT Game score Пойск 20:55 24.11.2025

TASK #5

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Airport/postgres@... X Lab3.sql X Lab-4.sql X Lab6.sql X Airport/postgres@... X Lab-8.sql X Airport/postgres@PostgreSQL 17*

Query History

```
1 SELECT p.passenger_id,
2    p.first_name,
3    p.last_name,
4    p.passport_number,
5    b.booking_id,
6    b.flight_id,
7    b.status,
8    b.ticket_price
9   FROM Passengers p
10  LEFT JOIN booking b ON p.passenger_id = b.passenger_id
11 WHERE p.passenger_id = 100;
```

Scratch Pad

Data Output Messages Notifications

	passenger_id	first_name	last_name	passport_number	booking_id	flight_id	status	ticket_price
	integer	character varying (50)	character varying (50)	character varying (20)	integer	integer	character varying (50)	numeric (7,2)
1	100	Asan	Asan	P100	100	100	Confirmed	10239.01

Total rows: 1 Query complete 00:00:00.073

CRLF Ln 11, Col 28

5°C Partly cloudy

Пойск

21:19 24.11.2025

TASK #6

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Airport/postgres@PostgreSQL 17* Airport/postgres@PostgreSQL 17* Lab3.sql X Lab4.sql X Lab6.sql X Airport/postgres@... X Lab8.sql X Airport/postgres@PostgreSQL 17*

Query Query History Scratch Pad

```
1 SELECT booking_id,
2 ticket_price
3 FROM booking
4 WHERE flight_id = 2;
```

Domains FTS Configurations FTS Dictionaries Aa FTS Parsers FTS Templates Foreign Tables Functions Materialized Views Operators Procedures Sequences Tables(10) airline airport baggage baggage_check boarding_pass booking Columns(9)

booking_id	ticket_price
1	2

Data Output Messages Notifications

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

booking_id [PK] integer ticket_price numeric(7,2)

Total rows: 1 Query complete 00:00:00.133 CRLF Ln 4, Col 21

Successfully run. Total query runtime: 133 msec. 1 rows affected.

USD/INR -0.53% 5°C Partly cloudy

Помощь Поиск

ENG 21:22 24.11.2025

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

Airport/postgres@PostgreSQL 17* Airport/postgres@PostgreSQL 17* Lab3.sql X Lab4.sql X Lab6.sql X Airport/postgres@... X Lab8.sql X Airport/postgres@PostgreSQL 17*

Query Query History Scratch Pad

```
1 BEGIN;
2 UPDATE booking
3 SET ticket_price = ticket_price + 50.00,
4 updated_at = CURRENT_TIMESTAMP
5 WHERE flight_id = 2;
6 COMMIT;
7 SELECT booking_id, ticket_price FROM booking WHERE flight_id = 2;
```

Domains FTS Configurations FTS Dictionaries Aa FTS Parsers FTS Templates Foreign Tables Functions Materialized Views Operators Procedures Sequences Tables(10) airline airport baggage baggage_check boarding_pass booking Columns(9)

booking_id	ticket_price
1	2

Data Output Messages Notifications

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

booking_id [PK] integer ticket_price numeric(7,2)

Total rows: 1 Query complete 00:00:00.112 CRLF Ln 7, Col 23

Successfully run. Total query runtime: 112 msec. 1 rows affected.

ENG 21:22 24.11.2025

TASK #7

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- Domains
- FTS Configurations
- FTS Dictionaries
- Aa FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables(10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
- Columns(9)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - ticket_price
 - ticket_discount
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- booking_flight
- flights

Query Query History Scratch Pad

```
13
14
15 SELECT baggage_id, weight_in_kg FROM baggage WHERE baggage_id = 2;
```

Data Output Messages Notifications

baggage_id	weight_in_kg
1	2

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

Total rows: 1 Query complete 00:00:00.112 CRLF In 15. Col 62

Successfully run. Total query runtime: 112 msec. 1 rows affected. X

5°C Partly cloudy

21:27 24.11.2025

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- Domains
- FTS Configurations
- FTS Dictionaries
- Aa FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables(10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
- Columns(9)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - ticket_price
 - ticket_discount
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- booking_flight
- flights

Query Query History Scratch Pad

```
1 BEGIN;
2 UPDATE baggage
3 SET weight_in_kg = 19,
4 updated_at = CURRENT_TIMESTAMP
5 WHERE baggage_id = 2;
6 COMMIT;
7 SELECT baggage_id, weight_in_kg FROM baggage WHERE baggage_id = 2;
```

Data Output Messages Notifications

baggage_id	weight_in_kg
1	2

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

Total rows: 1 Query complete 00:00:00.083 CRLF In 7. Col 21

Successfully run. Total query runtime: 83 msec. 1 rows affected. X

5°C Partly cloudy

21:28 24.11.2025

TASK #8

The screenshot shows the pgAdmin 4 interface with the following details:

- Object Explorer:** Displays the database schema, including Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Procedures, Sequences, and Tables (10). The **booking** table is selected, showing its 9 columns: booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price, and ticket_discount.
- Query Editor:** Contains the following SQL code:

```
BEGIN;
UPDATE booking
SET ticket_price = ticket_price * 0.05,
updated_at = CURRENT_TIMESTAMP
WHERE passenger_id = 200;
COMMIT;
```
- Data Output:** Shows the result of the query: **COMMIT**. It also states: **Query returned successfully in 48 msec.**
- Messages:** A green message bar at the bottom right indicates: **✓ Query returned successfully in 48 msec.**
- System Tray:** Shows the weather (5°C, Partly cloudy), system icons (Windows Start, Search, File Explorer, Task View, Mail, Calendar, WhatsApp, Yandex, Microsoft Edge), and system status (CPU 1%, ENG, 21:30, 24.11.2025).

TASK #9

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- > 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 (9)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - ticket_price
 - ticket_discount
- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- > booking_flight
- > flights

Airport/postgres@... × Lab3.sql × Lab-4.sql × Lab6.sql × Airport/postgres@... × Lab-8.sql × Airport/postgres@PostgreSQL 17*

Airport/postgres@PostgreSQL 17

No limit

Query History

```
1 BEGIN;
2 UPDATE booking
3 SET flight_id = 2,
4 updated_at = CURRENT_TIMESTAMP
5 WHERE flight_id = 3;
6 COMMIT;
```

Scratch Pad

Data Output Messages Notifications

COMMIT

Query returned successfully in 43 msec.

Total rows: Query complete 00:00:00.043

✓ Query returned successfully in 43 msec. ✘

CRLF Ln 6, Col 5

5°C Partly cloudy

Поиск

21:32 24.11.2025