

# TASK # 1

pgAdmin 4 interface showing a transaction error. The query editor contains the following SQL:

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

The Messages pane displays the error: "ERROR: current transaction is aborted, commands ignored until end of transaction block". The SQL state is 25P02. The status bar indicates "Total rows: Query complete 00:00:00.053".

pgAdmin 4 interface showing a successful query execution. The query editor contains the following SQL:

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

The Messages pane displays the error: "ERROR: current transaction is aborted, commands ignored until end of transaction block". The SQL state is 25P02. The status bar indicates "Total rows: 0 Query complete 00:00:00.114".

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

# 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@PostgreSQL 17

Query Query History

```
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;  
9
```

Scratch Pad

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
1	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

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

Query Query History

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

Scratch Pad

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
1	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

# 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

Query

```
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;
```

Query History

Scratch Pad

Data Output

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
1	5	2025-09-28 15:06:57.024355	2025-09-28 17:06:57.024355	6	7	Gate_5	Gate_6	

Total rows: 1 Query complete 00:00:00.149

CRLF Ln 11, Col 12

6°C Partly cloudy

Поиск

ENG 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

Query

```
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;
```

Query History

Scratch Pad

Data Output

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

	created_at timestamp without time zone	updated_at timestamp without time zone	status character varying (50)	ticket_price numeric (7,2)	ticket_discount numeric (5,2)	first_name character varying (50)	last_name character varying (50)
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

Поиск

20:55 24.11.2025

# TASK #5

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' shows a tree view of database objects, with 'Columns (9)' expanded under the 'booking' table. The central pane shows a SQL query in the 'Query' tab, which is a SELECT statement joining the 'Passengers' table with the 'booking' table on 'passenger\_id', filtering for 'passenger\_id = 100'. The bottom pane shows the 'Data Output' tab with a single row of results. The status bar at the bottom indicates 'Total rows: 1' and 'Query complete 00:00:00.073'.

**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

**Query**

```
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;
```

**Data Output**

	passenger_id integer	first_name character varying (50)	last_name character varying (50)	passport_number character varying (20)	booking_id integer	flight_id integer	status character varying (50)	ticket_price 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

Поиск

21:19 24.11.2025

# TASK #6

pgAdmin 4 interface showing a query execution. The query is:

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

The Data Output pane shows the following table:

booking_id	ticket_price
1	7900.90

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

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

pgAdmin 4 interface showing a query execution. The query is:

```
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;
```

The Data Output pane shows the following table:

booking_id	ticket_price
1	7950.90

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

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

# TASK #7

pgAdmin 4 interface showing a SQL query and its results. The query is:

```
SELECT baggage_id, weight_in_kg FROM baggage WHERE baggage_id = 2;
```

The results table shows one row:

baggage_id [PK] integer	weight_in_kg numeric (4,2)
2	20.00

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

pgAdmin 4 interface showing a SQL query and its results. The query is:

```
BEGIN;  
UPDATE baggage  
SET weight_in_kg = 19,  
updated_at = CURRENT_TIMESTAMP  
WHERE baggage_id = 2;  
COMMIT;  
SELECT baggage_id, weight_in_kg FROM baggage WHERE baggage_id = 2;
```

The results table shows one row:

baggage_id [PK] integer	weight_in_kg numeric (4,2)
2	19.00

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

# TASK #8

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' pane shows a tree structure of database objects. The 'booking' table is selected, and its 'Columns (9)' are listed: booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, ticket\_price, and ticket\_discount. The main pane shows a SQL query being executed in the 'Airport/postgres@PostgreSQL 17' database. The query is as follows:

```
1 BEGIN;  
2 UPDATE booking  
3 SET ticket_price = ticket_price * 0.05,  
4 updated_at = CURRENT_TIMESTAMP  
5 WHERE passenger_id = 200;  
6 COMMIT;  
7
```

The 'Messages' tab at the bottom shows the execution result: 'Query returned successfully in 48 msec.' A green notification box at the bottom right confirms this: 'Query returned successfully in 48 msec.' The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.048' and 'CRLF Ln 6 Col 4'. The system tray at the very bottom shows the date and time as 21:30 on 24.11.2025.



# TASK #9

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' shows a tree structure of database objects. The 'booking' table is selected, and its 'Columns (9)' are listed: booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, ticket\_price, and ticket\_discount. The main query editor on the right contains the following SQL code:

```
1 BEGIN;  
2 UPDATE booking  
3 SET flight_id = 2,  
4 updated_at = CURRENT_TIMESTAMP  
5 WHERE flight_id = 3;  
6 COMMIT;  
7  
8
```

Below the query editor, the 'Messages' tab shows the execution result: 'Query returned successfully in 43 msec.' A green notification box at the bottom right confirms this: 'Query returned successfully in 43 msec.' The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.043' and 'Ln 6, Col 5'.