

TASK 1

Airport/postgres@PostgreSQL 17* X

Airport/postgres@PostgreSQL 17

Query Query History

```
1 BEGIN;
2
3 DELETE FROM booking WHERE booking_id = 1;
4
5 SELECT * FROM non_existent_table;
6
```

Data Output Messages Notifications

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

SQL state: 25P02

Total rows: 1 Query complete 00:00:00.056

CRLF Ln 6, Col 1

Airport/postgres@PostgreSQL 17* X

Airport/postgres@PostgreSQL 17

Query Query History

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

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_number
1	1	101	71	Leffler-Thompson	2021-08-20 05:39:39	2021-09-10 05:39:39	Pending	

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

Total rows: 1 Query complete 00:00:00.098

TASK 2

pgAdmin 4

Airport/postgres@PostgreSQL 17*

Query

```
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;
```

Scratch Pad

Object Explorer

- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights
- Columns (13)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at

Data Output

	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	act_departure_time timestamp
1	100	2024-12-25 15:30:00	2023-01-29 23:01:13	35	28	G22	H15	29	2023-01-2

Showing rows: 1 to 1 of 1

Page No: 1

Total rows: 1 Query complete 00:00:00.119

CRLF Ln 8, Col 23

Airport/postgres@PostgreSQL 17*

Query

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

Data Output

	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
1	100	2023-01-29 16:01:13	2023-01-29 23:01:13	35	28	G22

Showing rows: 1 to 1 of 1

Total rows: 1 Query complete 00:00:00.076

TASK 3

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- FTS Dictionaries
- FTS Parsers
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- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights
- Columns (13)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at

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 booking  
11 WHERE flight_id = 5;
```

Query History

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	booking_id (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)	ticket_discount numeric (5,2)
1	50	5	26	Agency	2024-07-25 01:07:21	2025-11-23 17:31:52.574421	Cancelled	1623.48	[null]
2	170	5	171	Agency	2022-09-29 06:10:23	2025-11-23 17:31:52.574421	Confirmed	149.80	[null]

Total rows: 2 Query complete 00:00:00.099

CRLF Ln 11, Col 20

17:34 23.11.2025

TASK 4

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights
- Columns (13)
 - flight_id
 - sch_departure_time
 - sch_arrival_time
 - departing_airport_id
 - arriving_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - act_departure_time
 - act_arrival_time
 - created_at

Airport/postgres@PostgreSQL 17*

Airport/postgres@PostgreSQL 17

Query Query History

```
1 BEGIN;
2
3 UPDATE passengers
4 SET first_name = 'Asan',
5     last_name = 'Serikbay'
6 WHERE passenger_id = 1;
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 = 1;
```

Scratch Pad

Data Output Messages Notifications

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

	platform	created_at	updated_at	status	ticket_price	ticket_discount	first_name	last_name
	character varying (50)	timestamp without time zone	timestamp without time zone	character varying (50)	numeric (7,2)	numeric (5,2)	character varying (50)	character varying (50)
1		2025-04-29 08:29:07	2025-06-14 08:29:07	Pending	357.65	[null]	Asan	Serikbay

Total rows: 1 Query complete 00:00:00.086 CRLF Ln 9, Col 1



Поиск



17:40

23.11.2025

TASK 5

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including tables like 'airline', 'airport', 'baggage', 'boarding_pass', 'booking', 'booking_flight', and 'flights'. The 'booking' table is selected. The main pane shows a SQL query editor with the following code:

```
1 BEGIN;
2
3 INSERT INTO passengers (
4     passenger_id,
5     first_name,
6     last_name,
7     date_of_birth,
8     gender,
9     country_of_citizenship,
10    country_of_residence,
11    passport_number,
12    created_at,
13    updated_at
14 ) VALUES (
15     201,
16     'John',
17     'Doe',
18     '1998-05-15',
19     'Male',
20     'USA',
21     'USA',
22     'AB123456',
23     CURRENT_TIMESTAMP,
24     CURRENT_TIMESTAMP
25 );
26
27 INSERT INTO booking (
28     booking_id,
29     flight_id,
30     passenger_id,
31     booking_platform,
32     created_at,
33     updated_at,
34     status,
35     ticket_price
36 ) VALUES (
37     201,
38     1,
39     201,
40     'Website',
41     CURRENT_TIMESTAMP,
42     CURRENT_TIMESTAMP,
43     'Confirmed',
44     250.00
45 );
46
47 COMMIT;
```

The status bar at the bottom indicates 'Total rows: 1' and 'Query complete 00:00:00.086'.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including tables like 'airline', 'airport', 'baggage', 'boarding_pass', 'booking', 'booking_flight', and 'flights'. The 'booking' table is selected. The main pane shows a SQL query editor with the following code:

```
17 'Doe',
18 '1998-05-15',
19 'Male',
20 'USA',
21 'USA',
22 'AB123456',
23 CURRENT_TIMESTAMP,
24 CURRENT_TIMESTAMP
25 );
26
27 INSERT INTO booking (
28     booking_id,
29     flight_id,
30     passenger_id,
31     booking_platform,
32     created_at,
33     updated_at,
34     status,
35     ticket_price
36 ) VALUES (
37     201,
38     1,
39     201,
40     'Website',
41     CURRENT_TIMESTAMP,
42     CURRENT_TIMESTAMP,
43     'Confirmed',
44     250.00
45 );
46
47 COMMIT;
```

The status bar at the bottom indicates 'Total rows: 1' and 'Query complete 00:00:00.086'.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including tables like 'airline', 'airport', 'baggage', 'boarding_pass', 'booking', 'booking_flight', and 'flights'. The 'booking' table is selected. The main pane shows a SQL query editor with the following code:

```
1 SELECT
2     p.passenger_id,
3     p.first_name,
4     p.last_name,
5     p.passport_number,
6     b.booking_id,
7     b.flight_id,
8     b.status,
9     b.ticket_price
10 FROM passengers p
11 LEFT JOIN booking b ON p.passenger_id = b.passenger_id
12 WHERE p.passenger_id = 201;
```

The status bar at the bottom indicates 'Showing rows: 1 to 1' and 'Page No: 1 of 1'.

passenger_id	first_name	last_name	passport_number	booking_id	flight_id	status	ticket_price
201	John	Doe	AB123456	201	1	Confirmed	250.00

TASK 6

The screenshot displays the pgAdmin 4 web interface. The central pane shows a SQL query: `SELECT booking_id, ticket_price FROM booking WHERE flight_id = 2;`. Below the query editor, the 'Data Output' tab is active, showing a table with 3 rows and 2 columns: `booking_id` (integer) and `ticket_price` (numeric). The results are:

booking_id	ticket_price
201	200.00
101	3041.64
16	4016.12

The bottom status bar indicates 'Total rows: 3' and 'Query complete 00:00:00.083'. The right sidebar shows the 'Object Explorer' with a tree view of the database structure, including 'Servers', 'Databases', and 'Schemas'. The 'Airport' database is selected, showing its 'public' schema with various objects like 'Aggregates', 'Collations', 'Domains', 'FTS Configurations', 'FTS Dictionaries', 'FTS Parsers', 'FTS Templates', 'Foreign Tables', 'Functions', 'Materialized Views', 'Operators', 'Procedures', 'Sequences', and 'Tables'. The 'Tables' folder is expanded, showing 'airline', 'airport', and 'baggage'.

On the right, a second instance of the pgAdmin 4 interface is visible, showing a different query: `BEGIN; UPDATE booking SET ticket_price = ticket_price + 50.00, updated_at = CURRENT_TIMESTAMP WHERE flight_id = 2; COMMIT; SELECT booking_id, ticket_price FROM booking WHERE flight_id = 2;`. The 'Data Output' tab shows the same table structure as the left instance, but with updated values: `booking_id` (integer) and `ticket_price` (numeric). The results are:

booking_id	ticket_price
201	250.00
101	3091.64
16	4066.12

The bottom status bar indicates 'Total rows: 3' and 'Query complete 00:00:00.091'. A green notification box at the bottom right says 'Successfully run. Total'.

TASK 7

The screenshot displays the pgAdmin 4 interface with two separate query windows. The left window shows a SELECT query on the 'baggage' table, and the right window shows an UPDATE query on the same table. Both queries have been executed successfully, as indicated by the status messages at the bottom of each window.

Left Window: Query Results

baggage_id	weight_in_kg
1	22.05

Total rows: 1 | Query complete 00:00:00.083

Right Window: Query Results

baggage_id	weight_in_kg
1	19.00

Total rows: 1 | Query complete 00:00:00.093

Object Explorer (Center):

- Tables (10)
 - airline
 - airport
 - baggage
 - Columns (5)
 - baggage_id
 - weight_in_kg
 - created_at
 - updated_at
 - booking_id
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - baggage_check
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - boarding_pass
 - booking
 - Columns (9)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at

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 'baggage' table is expanded, showing its columns: baggage_id, weight_in_kg, created_at, updated_at, and booking_id. The 'baggage_check' table is also visible under the 'baggage' table. The main pane shows a SQL query being executed in the 'Airport/postgres@PostgreSQL 17*' database. The query is as follows:

```
1 BEGIN;  
2  
3 UPDATE booking  
4 SET ticket_price = ticket_price * 0.5,  
5     updated_at = CURRENT_TIMESTAMP  
6 WHERE passenger_id = 201;  
7  
8 COMMIT;
```

The 'Messages' tab at the bottom shows the execution result: 'COMMIT' and 'Query returned successfully in 61 msec.' The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.061' and 'Ln 8, Col 8'.



Поиск



TASK 9

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' pane shows a tree structure of database objects. The 'baggage' table is expanded, showing its columns: baggage_id, weight_in_kg, created_at, updated_at, and booking_id. The 'baggage_check' table is also visible under the 'baggage' schema. The main pane shows a SQL query being executed in the 'Airport/postgres@PostgreSQL 17*' database. The query is as follows:

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

The 'Messages' tab at the bottom shows the query execution result: 'Query returned successfully in 47 msec.' A green notification box at the bottom right confirms: 'Query returned successfully in 47 msec.' The status bar at the bottom indicates 'Total rows: Query complete 00:00:00.047' and 'Ln 6, Col 21'.



Поиск



46

ENG



17:58
23.11.2025