

Lab work 9. Nurlan Olzhas

1)

pgAdmin 4

Object Explorer

Servers

Query

```
1 BEGIN;  
2 DELETE FROM baggage WHERE booking_id = 22;  
3 DELETE FROM booking_flight WHERE booking_id = 22;  
4 DELETE FROM booking WHERE booking_id = 22;  
5  
6 COMMIT;  
7  
8 SELECT * FROM booking WHERE booking_id = 22;  
9 SELECT * FROM booking_flight WHERE booking_id = 22;
```

Query History

Scratch Pad

Data Output

booking_flight_id	booking_id	flight_id	created_at	update_at
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Total rows: 0 Query complete 00:00:00.225

6°C Clear

19:11 25.11.2025

2)

pgAdmin 4

Object Explorer

Servers

Query

```
1 BEGIN;  
2 DELETE FROM baggage WHERE booking_id = 99999;  
3 DELETE FROM booking WHERE booking_id = 99999;  
4  
5 ROLLBACK;
```

Query History

Scratch Pad

Data Output

ROLLBACK

Query returned successfully in 86 msec.

Total rows: 0 Query complete 00:00:00.086

6°C Clear

19:15 25.11.2025

3)

pgAdmin 4

Object Explorer

Servers

airport_db/postgres@PostgreSQL 17

Query

```

1 BEGIN;
2
3 UPDATE flights
4 SET scheduled_departure = '2025-12-15 14:38:30'::timestamp
5 WHERE flight_id=26;
6 COMMIT;
7
8 SELECT flight_id, flight_no, scheduled_departure FROM flights WHERE flight_id = 26;

```

Data Output

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

flight_id	flight_no	scheduled_departure
1	26	CH-TI

Total rows: 1 Query complete 00:00:00.345

6°C Clear

19:26 25.11.2025

4)

pgAdmin 4

Object Explorer

Servers

airport_db/postgres@PostgreSQL 17

Query

```

1 BEGIN;
2
3 UPDATE flights
4 SET scheduled_departure = '2025-12-16 09:00:00'::timestamp
5 WHERE flight_id = 99999999;
6 COMMIT;
7
8 SELECT flight_id, flight_no, scheduled_departure FROM flights WHERE flight_id = 9999999;

```

Data Output

Showing rows: 0 to 0 Page No: 1 of 1

flight_id	flight_no	scheduled_departure
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Total rows: 0 Query complete 00:00:00.139

6°C Clear

19:30 25.11.2025

5)

pgAdmin 4

Object Explorer: Servers

Query: airport_db/postgres@PostgreSQL 17

```

1 BEGIN;
2
3 UPDATE booking b
4 SET price = ROUND(b.price * 0.99, 2)
5 FROM booking_flight bf
6 WHERE b.booking_id = bf.booking_id
7 AND bf.flight_id = 62;
8
9 COMMIT;
10
11 SELECT b.booking_id, b.price, bf.flight_id
12 FROM booking b
13 JOIN booking_flight bf ON b.booking_id = bf.booking_id
14 WHERE bf.flight_id = 62;

```

Data Output: Messages Notifications

booking_id	price	flight_id
integer	numeric (7,2)	integer
1	211	3224.43
2	215	3208.93
3	294	2501.35

Showing rows: 1 to 3 | Page No: 1 of 1

Total rows: 3 | Query complete 00:00:00.047

Successfully run. Total query runtime: 47 msec. 3 rows affected.

6)

pgAdmin 4

Object Explorer: Servers

Query: airport_db/postgres@PostgreSQL 17

```

1 BEGIN;
2
3 UPDATE booking b
4 SET price = ROUND(b.price * 0.99, 2)
5 FROM booking_flight bf
6 WHERE b.booking_id = bf.booking_id
7 AND bf.flight_id = 62;
8
9 SELECT 1/0;
10
11 COMMIT;

```

Data Output: Messages Notifications

ERROR: деление на ноль

ОШИБКА: деление на ноль

SQL state: 22012

Total rows: | Query complete 00:00:00.035

7)

The screenshot shows the pgAdmin 4 interface with a SQL query window. The query is as follows:

```

1 BEGIN;
2
3 UPDATE passengers
4 SET first_name = 'RIJR', last_name = 'JBRJ'
5 WHERE passenger_id = 27;
6
7 COMMIT;
8
9 SELECT * FROM passengers WHERE passenger_id = 27;
10 SELECT b.booking_id, b.passenger_id FROM booking b WHERE b.passenger_id = 27;

```

The Data Output pane shows the following table:

	booking_id integer	passenger_id integer
1	192	27
2	198	27
3	228	27
4	448	27

At the bottom, a status bar indicates: Total rows: 4 Query complete 00:00:00.067 CRLF Ln 5, Col 25.

The screenshot shows the pgAdmin 4 interface with a SQL query window. The query is as follows:

```

1 BEGIN;
2
3 UPDATE booking b
4 SET price = ROUND(b.price + 50.00, 2)
5 FROM booking_flight bf
6 WHERE b.booking_id = bf.booking_id
7 AND bf.flight_id = 62;
8
9 COMMIT;
10
11 SELECT b.booking_id, b.price, bf.flight_id
12 FROM booking b
13 JOIN booking_flight bf USING (booking_id)
14 WHERE bf.flight_id = 62;

```

The Data Output pane shows the following table:

	booking_id integer	price numeric(7,2)	flight_id integer
1	211	2611.79	62
2	215	2599.24	62
3	294	2026.10	62

At the bottom, a status bar indicates: Total rows: 3 Query complete 00:00:00.068. A green message box says: Successfully run. Total query runtime: 68 msec. 3 rows affected. CRLF Ln 14, Col 25.

8)

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer Servers

airport_db/postgres X airport_db/postgres X airport_db/postgres X airport_db/postgres X airport_db/postgres X airport_db/postgres X airport_db/postgres@PostgreSQL 17 X

airport_db/postgres@PostgreSQL 17

Query Query History Scratch Pad X

```
1 BEGIN;
2
3 UPDATE baggage
4 SET weight_in_kg = 20.50, update_date = CURRENT_DATE
5 WHERE baggage_id = 301;
6
7 COMMIT;
8
9 SELECT baggage_id, weight_in_kg, update_date FROM baggage WHERE baggage_id = 301;
```

Data Output Messages Notifications

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

baggage_id	weight_in_kg	update_date
integer	numeric (4,2)	date
1	301	20.50 2025-11-25

Total rows: 1 Query complete 00:00:00.068

Successfully run. Total query runtime: 68 msec. 1 rows affected.

6°C Clear

Поиск

20:39 25.11.2025

pgAdmin 4

Object Explorer

Servers

Query

```
1 BEGIN;
2
3 UPDATE booking b
4 SET price = ROUND(b.price * 0.85, 2)
5 FROM passengers p
6 WHERE b.passenger_id = p.passenger_id
7 AND p.passenger_id = 62;
8
9 COMMIT;
10
11 SELECT booking_id, passenger_id, price FROM booking WHERE passenger_id = 62;
```

Data Output

	booking_id integer	passenger_id integer	price numeric(7,2)
1	93	62	8332.81
2	231	62	7986.08
3	248	62	4657.65
4	260	62	3127.38
5	470	62	2916.21

Total rows: 5 Query complete 00:00:00.063

Successfully run. Total query runtime: 63 msec. 5 rows affected.

9)

pgAdmin 4

Object Explorer

Servers

Query

```
1 BEGIN;
2
3 SELECT flight_id FROM flights WHERE flight_id = 40;
4
5 UPDATE booking_flight
6 SET flight_id = 40, update_at = CURRENT_DATE
7 WHERE flight_id = 34;
8
9 COMMIT;
10
11 SELECT booking_id, flight_id FROM booking_flight WHERE flight_id = 40;
```

Data Output

	booking_id integer	flight_id integer
1	437	40
2	78	40
3	301	40

Total rows: 3 Query complete 00:00:00.068

Successfully run. Total query runtime: 68 msec. 3 rows affected.