

Object Explorer BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
1 #1
2 DO $$ 
3 BEGIN
4     DELETE FROM booking
5     WHERE booking_id = 123;
6
7     RAISE EXCEPTION 'Invalid booking id';
8
9     COMMIT;
10    EXCEPTION
11        WHEN OTHERS THEN
12            ROLLBACK;
13            RAISE NOTICE 'Transaction rolled back';
14        END;
15    END$$;
```

Data Output Messages Notifications

NOTICE: Transaction rolled back
DO

Query returned successfully in 281 msec.

Total rows: Query complete 00:00:00.281 LF Ln 2, Col 1

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Query History

```
13     WHEN OTHERS THEN
14         ROLLBACK;
15         RAISE NOTICE 'Transaction rolled back';
16     END;
17 END$$;
18
19 #2
20 DO $$#
21 BEGIN
22     BEGIN
23         UPDATE flights
24             SET departure_time = '2025-02-01 14:00'
25             WHERE flight_id = 50;
26
27         -- ошибка специально
28         RAISE EXCEPTION 'Invalid flight_id';
29
30         COMMIT;
31     EXCEPTION
32         WHEN OTHERS THEN
33             ROLLBACK;
34             RAISE NOTICE 'Rollback triggered';
35     END;
36 END$$;
```

Data Output Messages Notifications

NOTICE: Rollback triggered
DO

Query returned successfully in 68 msec.

Total rows: Query complete 00:00:00.068

✓ Query returned successfully in 68 msec. ×

LF Ln 37, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17*

Query History

```
34     RAISE NOTICE 'Rollback triggered';
35 
36 END$$;
37 
38 #3
39 DO $$ 
40 BEGIN
41     BEGIN
42         UPDATE booking
43         SET price = price - 5000
44         WHERE flight_id = 10;
45 
46     IF NOT FOUND THEN
47         RAISE EXCEPTION 'No bookings updated';
48     END IF;
49 
50     COMMIT;
51 
52 EXCEPTION
53     WHEN OTHERS THEN
54         ROLLBACK;
55         RAISE NOTICE 'Price update failed';
56     END;
57 
58 END$$;
```

Data Output Messages Notifications

NOTICE: Price update failed
DO

Query returned successfully in 65 msec.

Total rows: Query complete 00:00:00.065

✓ Query returned successfully in 65 msec. ×

LF Ln 57, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
53           ROLLBACK;
54
55           END;
56           END$$;
57
58 #4
59 DO $$#
60 BEGIN
61
62     UPDATE passengers
63     SET first_name = 'NewName',
64         last_name = 'NewLast'
65     WHERE passenger_id = 20;
66
67
68     COMMIT;
69     EXCEPTION
70     WHEN OTHERS THEN
71         ROLLBACK;
72     END;
73
74 END$$;
```

Data Output Messages Notifications

DO

Query returned successfully in 60 msec.

Total rows: Query complete 00:00:00.060 ✓ Query returned successfully in 60 msec. LF Ln 75, Col 1

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BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
72           ROLLBACK;
73
74         END;
75
76 #5
77 DO $$ 
78 DECLARE
79   new_id INT;
80 BEGIN
81
82   INSERT INTO passengers(first_name, last_name)
83   VALUES ('Timur', 'Aman')
84   RETURNING passenger_id INTO new_id;
85
86   INSERT INTO booking(passenger_id, flight_id, price)
87   VALUES (new_id, 7, 150000);
88
89   COMMIT;
90 EXCEPTION
91   WHEN OTHERS THEN
92     ROLLBACK;
93     RAISE NOTICE 'Rollback: passenger + booking failed';
94   END;
95
96 END$$;
```

Data Output Messages Notifications

NOTICE: Rollback: passenger + booking failed
DO

Query returned successfully in 49 msec.

Total rows: Query complete 00:00:00.049 ✓ Query returned successfully in 49 msec. LF Ln 77, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
81 BEGIN
82   INSERT INTO passengers(first_name, last_name)
83     VALUES ('Timur', 'Aman')
84   RETURNING passenger_id INTO new_id;
85
86   INSERT INTO booking(passenger_id, flight_id, price)
87     VALUES (new_id, 7, 150000);
88
89   COMMIT;
90 EXCEPTION
91   WHEN OTHERS THEN
92     ROLLBACK;
93     RAISE NOTICE 'Rollback: passenger + booking failed';
94 END;
95 END$$;
96
97 #6
98 BEGIN;
99
100 UPDATE booking
101   SET price = price + 3000
102 WHERE flight_id = 7;
103
104 COMMIT;
```

Data Output Messages Notifications

Commit

Query returned successfully in 54 msec.

Total rows: Query complete 00:00:00.054

✓ Query returned successfully in 54 msec. ×

LF Ln 98, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
96
97 #6
98 BEGIN;
99
100 UPDATE booking
101 SET price = price + 3000
102 WHERE flight_id = 7;
103
104 COMMIT;
105
106
107 #7
108
109 ROLLBACK;
110
111
112 BEGIN;
113
114 UPDATE baggage
115 SET weight_in_kg = 18
116 WHERE baggage_id = 80;
117
118 COMMIT;
119
120
```

Data Output Messages Notifications

Commit

Query returned successfully in 55 msec.

✓ Query returned successfully in 55 msec. ×

Total rows: Query complete 00:00:00.055

LF Ln 109, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17* X

Query History

```
118 COMMIT;
119
120 #8
121 DO $$ 
122 BEGIN
123   BEGIN
124     UPDATE booking
125       SET price = price * 0.9      -- скидка 10%
126     WHERE booking_id = 55;
127
128   IF NOT FOUND THEN
129     RAISE EXCEPTION 'Booking not found';
130   END IF;
131
132   COMMIT;
133 EXCEPTION
134   WHEN OTHERS THEN
135     ROLLBACK;
136     RAISE NOTICE 'Discount canceled (rollback)';
137   END;
138 END$$;
```

Data Output Messages Notifications

NOTICE: Discount canceled (rollback)

DO

Query returned successfully in 53 msec.

Total rows: Query complete 00:00:00.053

✓ Query returned successfully in 53 msec. ×

LF Ln 121, Col 1

Object Explorer BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

No limit

Query History

```
132 COMMIT;
133 EXCEPTION
134 WHEN OTHERS THEN
135   ROLLBACK;
136   RAISE NOTICE 'Discount canceled (rollback)';
137 END;
138 END$$;
139
140
141 #9
142 DO $$#
143 BEGIN
144   BEGIN
145     UPDATE booking
146     SET flight_id = 20
147     WHERE flight_id = 10;
148
149   COMMIT;
150 EXCEPTION
151 WHEN OTHERS THEN
152   ROLLBACK;
153 END;
154 END$$;
155
156
```

Data Output Messages Notifications

00

Query returned successfully in 54 msec.

Total rows: Query complete 00:00:00.054 ✓ Query returned successfully in 54 msec. LF Ln 142, Col 1