

The screenshot shows a Database Explorer interface with several tabs at the top: console_61, console_62, console_63, console_64, console_65, console_66, console_67, **console_69**, and console_70. The left sidebar displays a tree view of database schemas and tables under the 'fank_emp' schema, including 'lab2' and 'public' schemas.

The main area shows a transaction log with the following SQL statements:

```
1 ✓ BEGIN;
2
3 ✓ DELETE FROM booking WHERE booking_id = -1;
4
5
6 ✓ COMMIT;
7
8
9 ✓ ROLLBACK;
```

The Services panel shows a list of transactions (Tx) and their execution times:

Tx	Time
console_52	123 ms
console_60	
console_69	123 ms
console_58	
console_70	
console_62	
console_66	

The transaction log for the selected transaction (console_69) is displayed below:

```
[2025-11-25 23:55:58] lab2> BEGIN
[2025-11-25 23:55:58] completed in 11 ms
[2025-11-25 23:55:58] lab2> DELETE FROM booking WHERE booking_id = -1
[2025-11-25 23:55:58] completed in 46 ms
[2025-11-25 23:55:58] lab2> COMMIT
[2025-11-25 23:55:58] completed in 6 ms
[2025-11-25 23:55:58] lab2> ROLLBACK
[2025-11-25 23:55:58] [25P01] нет незавершённой транзакции
[2025-11-25 23:55:58] completed in 24 ms
```


The screenshot shows a database development interface with the following components:

- Top Bar:** Includes icons for file, edit, and settings, followed by the project name "laboratory_work2", a "Version control" dropdown, and standard window controls.
- Database Explorer:** A sidebar showing the database schema. It includes a tree view of databases (fank_emp, lab2), schemas (information_schema, pg_catalog, public), and tables (airline, airport, baggage, baggage_check, boarding_pass, booking, booking_flight, flights, passenger_me, passengers, security_check). The "flights" table is currently selected.
- Code Editor:** The main workspace displays a SQL script named "task3". The script contains:

```
--task3
BEGIN;
UPDATE booking
SET ticket_price = ticket_price * 0.90
WHERE flight_id = 40;
COMMIT;
ROLLBACK;
```
- Services:** A panel at the bottom left showing a list of database connections and their transaction status. The "console_72" connection is active with a 24 ms response time.
- Log:** A panel at the bottom right showing the transaction log. It includes the executed SQL statement and its execution details:

```
SET ticket_price = ticket_price * 0.90
WHERE flight_id = 40
[2025-11-26 00:07:49] 1 row affected in 12 ms
[2025-11-26 00:07:49] lab2> COMMIT
[2025-11-26 00:07:49] completed in 3 ms
[2025-11-26 00:07:49] lab2> ROLLBACK
[2025-11-26 00:07:49] [25P01] нет незавершённой транзакции
[2025-11-26 00:07:49] completed in 5 ms
```
- Bottom Status:** Shows the current time (12:10), encoding (CRLF), character set (UTF-8), and code pages (4 space).

LW laboratory_work2 ▾ Version control ▾

Database Explorer

console_63 console_64 console_65 console_66 console_67 console_69 console_70 console_72 console_74

+ DDL > ▶ ⏪ ⏴ ⏵ Tx: Auto ▾ Playground ▾

fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
passanger_me
passengers
security_check

--task4
BEGIN;
UPDATE passengers
SET first_name = 'Sarvan', last_name = 'Musaev'
WHERE passenger_id = 147;
UPDATE booking
SET passenger_name = 'NewFirstName NewLastName'
WHERE passenger_id = 147;
COMMIT;
ROLLBACK;

Services

Tx + ⏪ ⏴ ⏵ ×

Database
fank_emp
console_74 21 ms
console_54
console_59
console_67
console_68

SET passenger_name = 'NewFirstName NewLastName'
WHERE passenger_id = 147

[2025-11-26 00:13:13] 1 row affected in 7 ms
[2025-11-26 00:13:13] lab2.public> COMMIT
[2025-11-26 00:13:13] completed in 3 ms
[2025-11-26 00:13:13] lab2.public> ROLLBACK
[2025-11-26 00:13:13] [25P01] нет незавершённой транзакции
[2025-11-26 00:13:13] completed in 6 ms

Database Consoles > fank_emp > console_74 13:8 CRLF UTF-8 4 spaces

The screenshot shows a database development interface with the following components:

- Top Bar:** Includes icons for file operations, a project named "laboratory_work2", version control, and system settings.
- Database Explorer:** Shows the schema structure of the "fank_emp" database, including the "lab2" schema which contains tables like "airline", "airport", "baggage", etc.
- Code Editor:** Displays a transaction script named "task6" in the "console_78" tab:

```
1 --task6
2 ✓ BEGIN;
3
4 ✓ UPDATE booking
5 SET ticket_price = ticket_price * 1.20
6 WHERE flight_id = 181;
7
8 ✓ COMMIT;
9
10 |
11 ✓ ROLLBACK;
12
```
- Services:** Shows the status of various database connections and transactions. A transaction named "lab2" is active, showing a commit and rollback operation.
- Log:** Displays the execution log for the transaction:

```
[2025-11-26 00:31:47] 1 row affected in 26 ms
[2025-11-26 00:31:47] lab2> COMMIT
[2025-11-26 00:31:47] completed in 4 ms
[2025-11-26 00:31:47] lab2> ROLLBACK
[2025-11-26 00:31:47] [25P01] нет незавершённой транзакции
[2025-11-26 00:31:47] completed in 9 ms
```
- Bottom Status:** Shows the current file, encoding (CRLF), character set (UTF-8), and line count (4 space).

The screenshot shows a DBeaver interface with the following components:

- Top Bar:** LW laboratory_work2, Version control, Database E, and various system icons.
- Left Sidebar:** Shows the database schema structure under "fank_emp".
- Central Area:** A code editor window titled "console_79" containing the following SQL script:

```
1 --task7
2 ✓ BEGIN;
3
4
5 ✓ UPDATE baggage
SET weight_in_kg = 22
WHERE booking_id = 173;
6
7
8
9 ✓ COMMIT;
10
11 ✓ ROLLBACK;
```
- Bottom Area:** A transaction log window titled "Services" showing the execution of the transaction:SET weight_in_kg = 22
WHERE booking_id = 173
[2025-11-26 00:32:56] 1 row affected in 16 ms
[2025-11-26 00:32:56] lab2> COMMIT
[2025-11-26 00:32:56] completed in 4 ms
[2025-11-26 00:32:56] lab2> ROLLBACK
[2025-11-26 00:32:56] [25P01] нет незавершённой транзакции
[2025-11-26 00:32:56] completed in 5 ms

Services

Tx + ⚡ ⚡ ⚡ ⚡ ⚡

Console	Time
console_67	
console_68	
console_71	30 ms
console_65	
console_79	21 ms
console_56	
console_49	

The screenshot shows a database development interface with the following components:

- Top Bar:** Includes icons for file, edit, search, and settings, and a tab labeled "laboratory_work2".
- Database Explorer:** Shows a tree view of databases and tables. The "public" schema under "fank_emp" is selected.
- Console:** A tabbed interface with multiple consoles. The "console_80" tab is active, showing a transaction script:

```
--task8
BEGIN;
UPDATE booking
SET ticket_price = ticket_price * 0.90
WHERE booking_id = 85;
COMMIT;
ROLLBACK;
```
- Services:** A panel showing the status of various services, with "console_80" highlighted.

The Services panel shows the following log entries:

```
2025-11-26 00:33:50] 1 row affected in 7 ms
[2025-11-26 00:33:50] lab2> COMMIT
[2025-11-26 00:33:50] completed in 3 ms
[2025-11-26 00:33:50] lab2> ROLLBACK
[2025-11-26 00:33:50] [25P01] нет незавершённой транзакции
[2025-11-26 00:33:50] completed in 4 ms
```

