

Задание 1: DML

1. Вставить двух новых сотрудников в таблицу Employees.

The screenshot shows the DBeaver 25.1.4 interface. The left sidebar displays the database structure for 'postgres' on 'localhost:5432', with the 'employees' table selected. The main window shows the 'employees' table with the following data:

employeeid	first_name	last_name	department	salary
1	Alice	Smith	HR	60 000
2	Bob	Johnson	IT	75 000
3	Charlie	Brown	Finance	62 000
4	Diana	Prince	IT	80 000
5	Eve	Davis	HR	58 000
6	John	Johnson	Finance	70 000
7	Andrei	Lukashevich	IT	90 000

The bottom panel shows the 'Project - General' settings and a 'Customize your dashboard' section with options like 'Database', 'Block IO', 'Server sessions', and 'Transactions per second'.

2. Выбрать всех сотрудников из таблицы Employees.

The screenshot shows the DBeaver 25.1.4 interface with the SQL editor open. The query being executed is:

```
SELECT * FROM Employees;
```

The results of the query are displayed in the table view, showing the same 7 rows of employee data as in the first screenshot.

3. Выбрать только FirstName и LastName сотрудников из отдела 'IT'.

The screenshot shows the DBeaver 25.1.4 interface. The SQL editor contains the following query:

```
INSERT INTO Employees (FirstName, LastName, Department, Salary) VALUES ('John', 'Johnson', 'Finance', 70000.00); ('Andrei', 'Lukashevich', 'IT', 90000.00);
```

Below the query, the results of the query are displayed in a table:

id	first	last
1	Bob	Johnson
2	Diana	Prince
3	Andrei	Lukashevich

The bottom panel shows the 'Customize your dashboard' section with a list of database metrics:

- Database dashboards
- Block IO: Shows blocking IO operations per sec
- Server sessions: Shows active/idle server sessions
- Transactions per second: Shows commit/rollback transactions

4. Обновить Salary 'Alice Smith' до 65000.00.

The screenshot shows the DBeaver 25.1.4 interface. The SQL editor contains the following query:

```
UPDATE Employees SET Salary = 65000.00 WHERE FirstName = 'Alice' AND LastName = 'Smith';
```

Below the query, the results of the query are displayed in a table:

id	employeeid	first	last	department	salary
1	2	Bob	Johnson	IT	75 000
2	3	Charlie	Brown	Finance	62 000
3	4	Diana	Prince	IT	80 000
4	5	Eve	Davis	HR	58 000
5	6	John	Johnson	Finance	70 000
6	7	Andrei	Lukashevich	IT	90 000
7	1	Alice	Smith	HR	65 000

The bottom panel shows the 'Customize your dashboard' section with a list of database metrics:

- Database dashboards
- Block IO: Shows blocking IO operations per sec
- Server sessions: Shows active/idle server sessions
- Transactions per second: Shows commit/rollback transactions

5. Удалить сотрудника, чья LastName — 'Prince'.

The screenshot shows the DBeaver 25.1.4 interface. The main window displays the 'employees' table from a PostgreSQL database. The table structure and data are as follows:

employeeid	first_name	last_name	department	salary
23	Bob	Johnson	IT	75 000
24	Charlie	Brown	Finance	62 000
26	Eve	Davis	HR	58 000
27	John	Johnson	Finance	70 000
28	Andrei	Lukasevich	IT	90 000
22	Alice	Smith	HR	65 000

The left sidebar shows the database structure, with 'employees' selected under the 'public' schema. The bottom status bar indicates '6 строк получено' (6 rows received).

6. Проверить все изменения, используя SELECT * FROM Employees;

The screenshot shows the DBeaver 25.1.4 interface with the SQL editor open. The script being executed is as follows:

```
SET Salary = 65000.00
WHERE Firstname = 'Alice' AND LastName = 'Smith';
-- 5. Удалить сотрудника, чья LastName = 'Prince'
-- Сначала удалим связанные записи в EmployeeProjects
DELETE FROM EmployeeProjects
WHERE EmployeeID IN (
  SELECT EmployeeID FROM Employees WHERE LastName = 'Prince'
);
-- Потом удалим самого сотрудника
DELETE FROM Employees
WHERE LastName = 'Prince';
-- 6. Проверить все изменения
SELECT * FROM Employees;
```

The SQL editor shows the results of the query, which is the same 'employees' table as in the previous screenshot. The bottom status bar indicates '6 строк получено' (6 rows received).