

Лабораторная работа №8

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Тема: Проектирование базы данных.

Выборки из одной таблицы.

INSERT запросы:

```
university_db=> INSERT INTO Students (first_name, last_name, date_of_birth, email) VALUES ('Ivan', 'Kirov', '06.11.2003', 'iv@gmail.com');  
INSERT 0 1  
university_db=> INSERT INTO Teachers (first_name, last_name, email) VALUES ('Ekaterina', 'Rizoca', 'Eka@gmail.com');  
INSERT 0 1  
university_db=> INSERT INTO Subjects (subject_name, teacher_id) VALUES ('PYTHON', 1);  
INSERT 0 1
```

```
university_db=> INSERT INTO Lessons (subject_id, teacher_id, student_id) VALUES (1, 1, 1);  
INSERT 0 1  
university_db=> INSERT INTO Grades (subject_id, student_id, grade) VALUES (1, 1, 'FOG4');  
INSERT 0 1
```

The screenshot shows a SQL IDE interface. At the top, there is a toolbar with various icons for file operations, editing, and execution. Below the toolbar, the main window is divided into two panes. The left pane, titled 'Query', contains a single SQL statement: `1 INSERT INTO Students (first_name, last_name, date_of_birth, email) VALUES ('Ivan', 'Kirov', '06.11.2003', 'iv@gmail.com');`. The right pane, titled 'Scratch Pad', is empty. At the bottom of the IDE, there is a 'Messages' pane with two tabs: 'Data Output' and 'Messages'. The 'Messages' tab is active and displays the text: `INSERT 0 1` and `Query returned successfully in 55 msec.`

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Query

Query History

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```
INSERT INTO Lessons (subject_id, teacher_id, student_id) VALUES (1, 1, 1);
```

Data Output

Messages

Notifications

INSERT 0 1

Query returned successfully in 36 msec.

Query

Query History

1

```
INSERT INTO Grades (subject_id, student_id, grade) VALUES (1, 1, 'FOG4');
```

Data Output

Messages

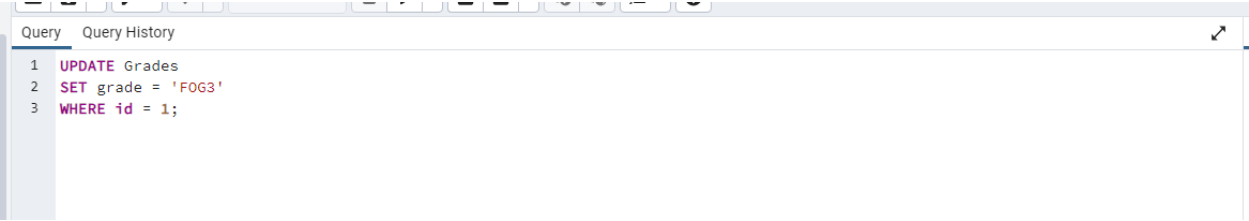
Notifications

INSERT 0 1

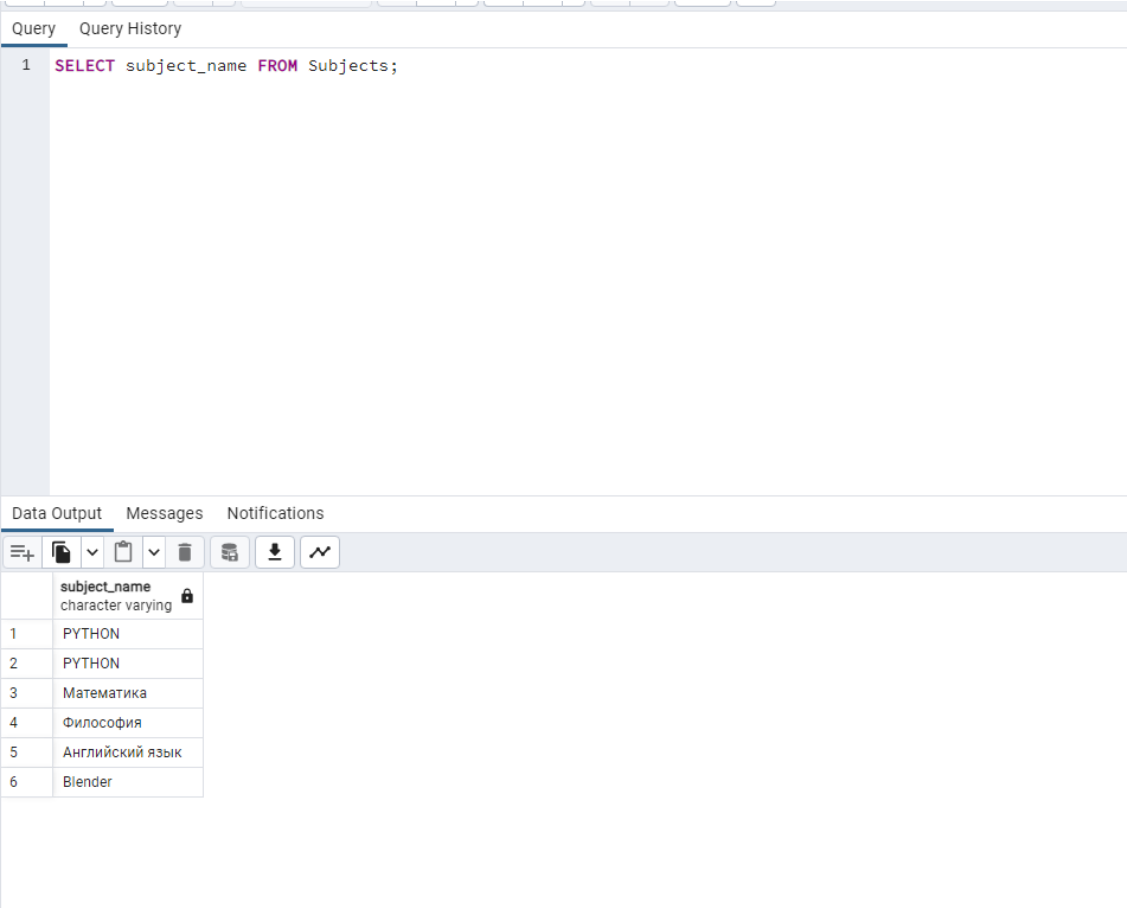
Query returned successfully in 60 msec.

UPDATE запрос:

UPDATE Grades SET grade = 'Fog3' WHERE id = 1;



SELECT запросы:



Query

Query History

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Scratch P

1 **SELECT** teacher_id **FROM** Subjects;

Data Output

Messages

Notifications

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	teacher_id integer	
1	1	
2	2	
3	3	
4	5	
5	4	
6	5	

Query

Query History

1 **SELECT** * **FROM** Subjects;

Data Output

Messages

Notifications

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	id [PK] integer	subject_name character varying	teacher_id integer
1	1	PYTHON	1
2	2	PYTHON	2
3	3	Математика	3
4	4	Философия	5
5	5	Английский язык	4
6	6	Blender	5

Query Query History

```
1 SELECT * FROM Subjects WHERE teacher_id = 5;
```

Data Output Messages Notifications

	id [PK] integer	subject_name character varying	teacher_id integer
1	4	Философия	5
2	6	Blender	5

DELETE запрос:

university_db/postgres@PostgreSQL 16

Query Query History Scratch Pad

```
1 DELETE FROM Subjects WHERE id = 3
```

Data Output Messages Notifications

DELETE 1

Query returned successfully in 62 msec.