

ФГБОУ ВО

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Кафедра \_\_ИСиТ\_\_

Специальность ИС-21

ОТЧЕТ

о выполнении лабораторной работы

Выполнила:

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Дата:

« 24 » апреля 2023 г.

Норильск 2023

## **Лабораторная работа №2**

Тема: SQL. Таблицы.

Цель работы: Получение практических навыков работы с СУБД и языком SQL (создание и изменения таблиц).

Вариант 17

Задание:

- 1) В созданной на предыдущей лабораторной работе базе данных дополните таблицы с ограничениями CHECK, DEFAULT, NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY;
- 2) внести изменения в схему базы, используя операторы ALTER TABLE; и DROP TABLE;
- 3) создайте новую таблицу (не менее трех полей);
- 4) добавьте в нее новый столбец;
- 5) удалите второй столбец из новой таблицы;
- 6) удалите все таблицу

```
CREATE TABLE table_for_delete
```

```
(
```

```
    id_for_delete integer,
```

```
    name_for_delete varchar(64),
```

```
    number_for_delete int
```

```
);
```

```
ALTER TABLE table_for_delete ADD PRIMARY KEY (id_for_delete);
```

```
ALTER TABLE table_for_delete ALTER COLUMN number_for_delete SET  
NOT NULL;
```

```
ALTER TABLE table_for_delete ADD CONSTRAINT unic_name_for_delete  
UNIQUE (name_for_delete);
```

```
ALTER TABLE table_for_delete ADD CHECK (number_for_delete > 0);
```

```
ALTER TABLE table_for_delete ALTER COLUMN name_for_delete SET  
DEFAULT 'не заполнено';
```

```
ALTER TABLE table_for_delete ADD COLUMN add_for_delete  
varchar(64);
```

```
ALTER TABLE table_for_delete DROP COLUMN name_for_delete;
```

Browser

Dashboard Properties SQL Statistics Dependencies Processes LR/postgres@PostgreSQL 15\*

Servers (1)

PostgreSQL 15

Databases (5)

- FF
- FFF
- LR
  - Cast
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wrappers
  - Languages
  - Publications
  - Schemas (1)
    - public
      - Aggregates
      - Collations
      - Domains
      - FTS Configurations
      - FTS Dictionaries
      - FTS Parsers
      - FTS Templates
      - Foreign Tables
      - Functions
      - Materialized Views
      - Operators
      - Procedures
      - Sequences
      - Tables (8)
        - clients
        - order\_information
        - product
        - product\_type
        - provider
        - result\_order
        - staff
        - table\_for\_delete

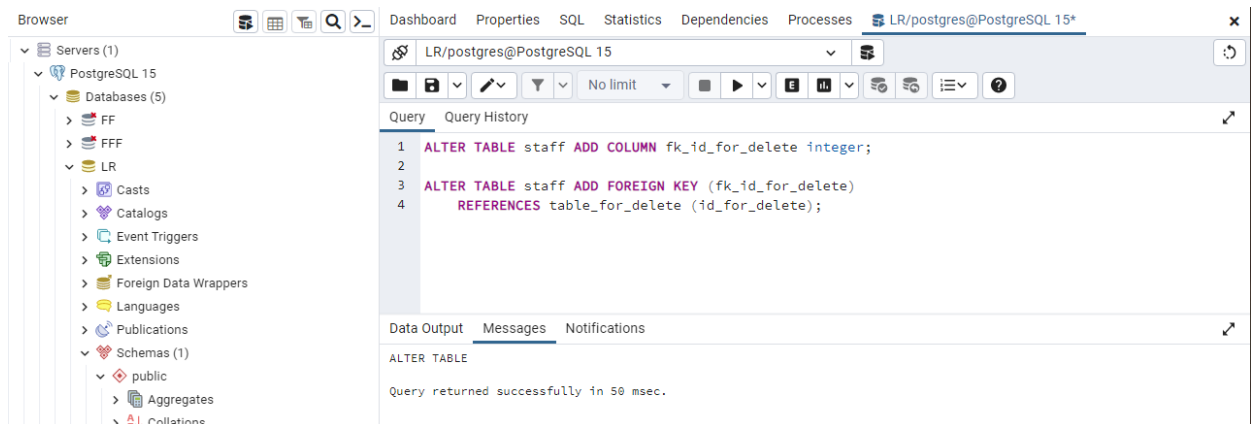
LR/postgres@PostgreSQL 15

No limit

Query Query History

```
1 CREATE TABLE table_for_delete
2 (
3     id_for_delete integer,
4     name_for_delete varchar(64),
5     number_for_delete int
6 );
7
8 ALTER TABLE table_for_delete ADD PRIMARY KEY (id_for_delete);
9 ALTER TABLE table_for_delete ALTER COLUMN number_for_delete SET NOT NULL;
10 ALTER TABLE table_for_delete ADD CONSTRAINT unic_name_for_delete UNIQUE (name_for_delete);
11 ALTER TABLE table_for_delete ADD CHECK (number_for_delete > 0);
12 ALTER TABLE table_for_delete ALTER COLUMN name_for_delete SET DEFAULT 'не заполнено';
13
14 ALTER TABLE table_for_delete ADD COLUMN add_for_delete varchar(64);
15 ALTER TABLE table_for_delete DROP COLUMN name_for_delete;
16
```

```
ALTER TABLE staff ADD COLUMN fk_id_for_delete integer;  
ALTER TABLE staff ADD FOREIGN KEY (fk_id_for_delete)  
REFERENCES table_for_delete (id_for_delete);
```



```
DROP TABLE table_for_delete CASCADE
```

