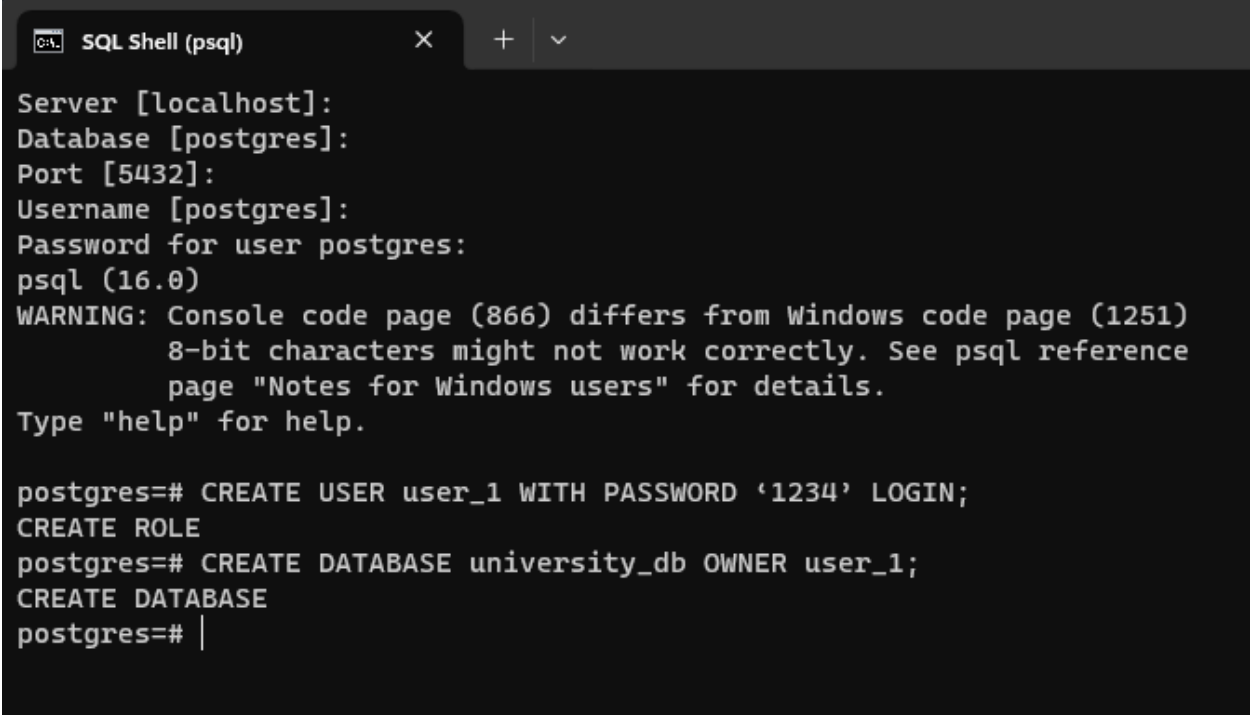# Лабораторная работа №6

Ахметова Мадина и Мусабекова Амина П3А

Тема: Создание базы данных в Postresql.

Команды для создания пользователя и базы данных:

1. CREATE USER user_name WITH PASSWORD '1234' LOGIN
2. CREATE DATABASE database_name OWNER user_name

Команды для созадния таблиц:

1. CREATE TABLE Students (id serial PRIMARY KEY, first_name varchar, last_name varchar, date_of_birth varchar, email varchar);
2. CREATE TABLE Teachers (id serial PRIMARY KEY, first_name varchar, last_name varchar, email varchar);
3. CREATE TABLE Subjects (id serial PRIMARY KEY, subject_name varchar, teacher_id integer, FOREIGN KEY (teacher_id) REFERENCES Teachers(id));
4. CREATE TABLE Lessons (id serial PRIMARY KEY, subject_id integer, FOREIGN KEY (subject_id) REFERENCES Subjects(id), teacher_id integer, FOREIGN KEY (teacher_id) REFERENCES Teachers(id), student_id integer, FOREIGN KEY (student_id) REFERENCES Students(id));
5. CREATE TABLE Grades (id serial PRIMARY KEY, subject_id integer, FOREIGN KEY (subject_id) REFERENCES Subjects(id), student_id integer, FOREIGN KEY (student_id) REFERENCES Students(id), grade varchar);

```
SQL Shell (psql)                                                                    —  □  ✕

Server [localhost]:
Database [postgres]: university_db
Port [5432]:
Username [postgres]: user_1
Password for user user_1:
psql (16.0)
WARNING: Console code page (866) differs from Windows code page (1251)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

university_db=> CREATE TABLE Students (id serial PRIMARY KEY, first_name varchar, last_name varchar, date_of_birth varch
ar, email varchar);
CREATE TABLE
university_db=> CREATE TABLE Teachers (id serial PRIMARY KEY, first_name varchar, last_name varchar, email varchar);
CREATE TABLE
```

```
university_db=> CREATE TABLE Subjects(id serial PRIMARY KEY, subject_name varchar, teacher_id integer, FOREIGN KEY (teac
her_id) REFERENCES Teachers(id));
CREATE TABLE
```

```
university_db=> CREATE TABLE Lessons (id serial PRIMARY KEY, subject_id integer, FOREIGN KEY (subject_id) REFERENCES Sub
jects(id), teacher_id integer, FOREIGN KEY (teacher_id) REFERENCES Teachers(id), student_id integer, FOREIGN KEY (studen
t_id) REFERENCES Students(id));
CREATE TABLE
university_db=> CREATE TABLE Grades (id serial PRIMARY KEY, subject_id integer, FOREIGN KEY (subject_id) REFERENCES Subj
ects(id), student_id integer, FOREIGN KEY (student_id) REFERENCES Students(id), grade varchar);
CREATE TABLE
university_db=>
```