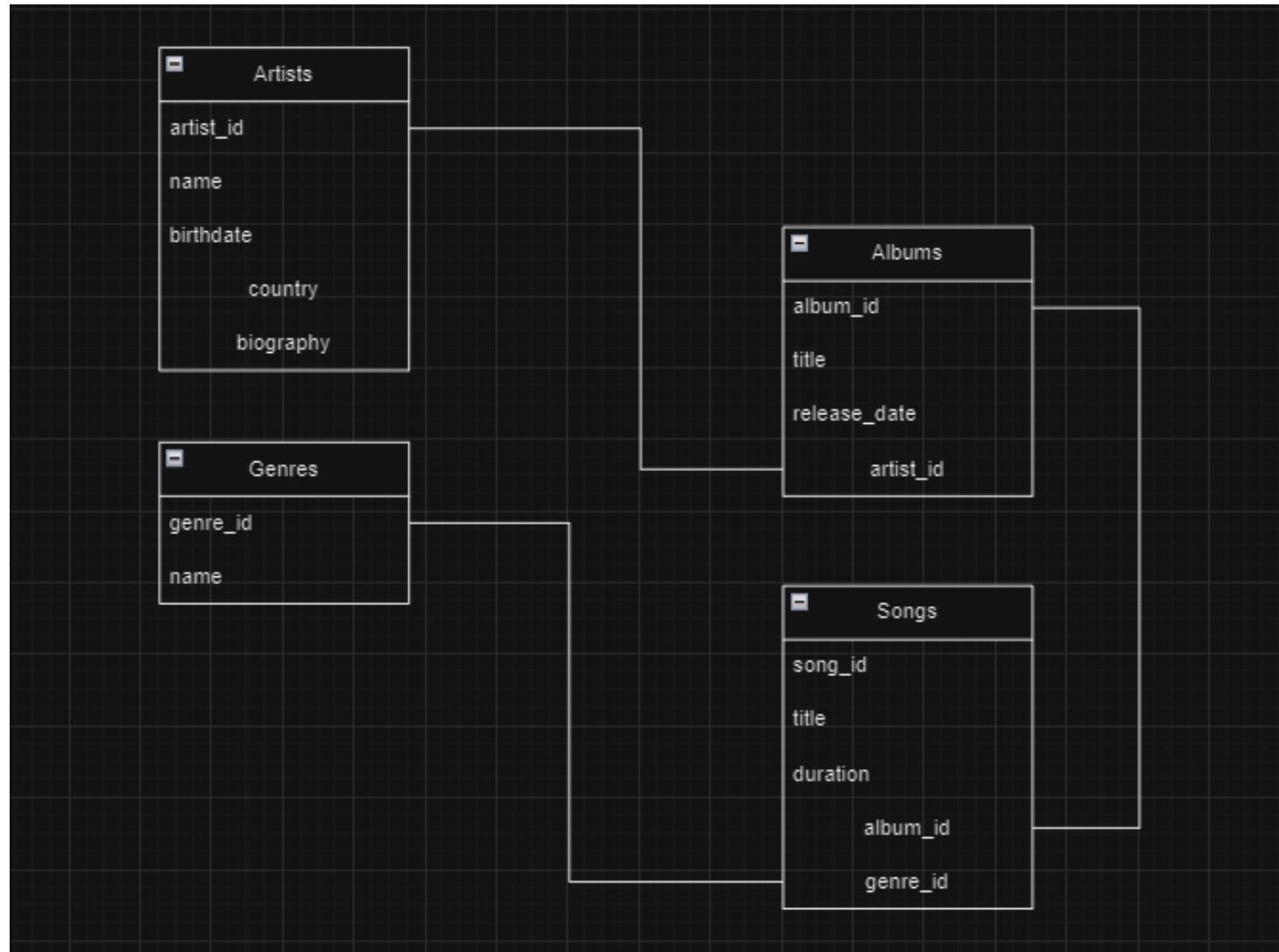
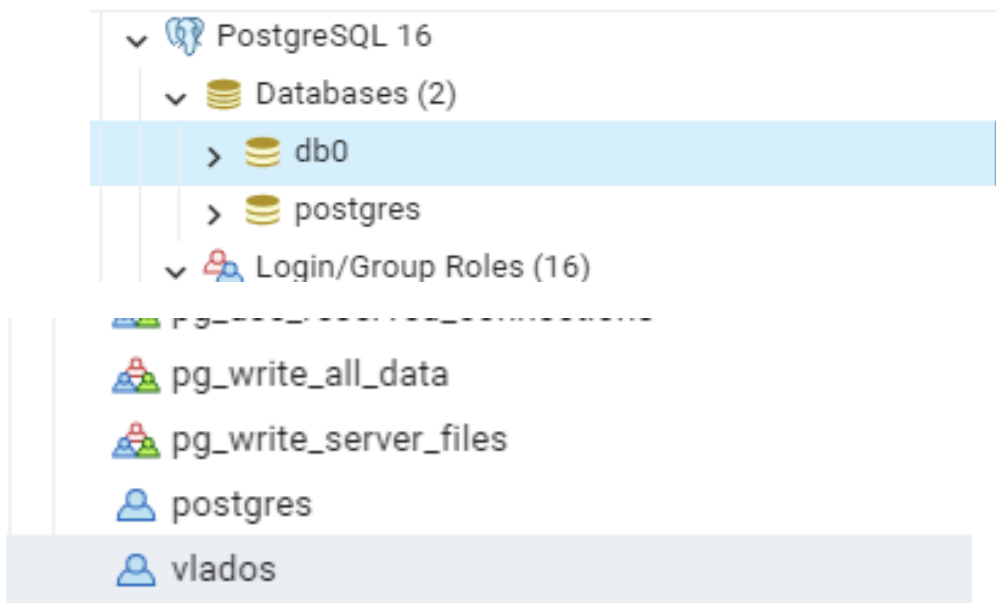


Лабораторная работа №6



Создание новой БД и
пользователя через
pqAdmin4



SQL-запрос на создание таблиц в соответствии со схемой

```
CREATE TABLE [if not exists] artists(id SERIAL  
PRIMARY KEY, name VARCHAR(100) NOT  
NULL, birthdate DATE, country  
VARCHAR(100) NOT NULL, biography TEXT  
NOT NULL);
```

```
CREATE TABLE [if not exists] genres(id SERIAL  
PRIMARY KEY, name VARCHAR(100) NOT  
NULL);
```

```
CREATE TABLE [if not exists] albums(id SERIAL  
PRIMARY KEY, title TEXT, release_date  
TIMESTAMP, artist_id INTEGER NOT NULL  
REFERENCES artists(id));
```

```
CREATE TABLE [if not exists] songs (id SERIAL  
PRIMARY KEY, title TEXT, duration  
TIMESTAMP, album_id INTEGER NOT NULL  
REFERENCES albums(id), genre_id INTEGER  
NOT NULL REFERENCES genres(id));
```

```
9      id SERIAL PRIMARY KEY,  
10     name VARCHAR(100) NOT NULL  
11 );  
12  
13 CREATE TABLE if not exists albums(  
14     id SERIAL PRIMARY KEY,  
15     title TEXT,  
16     release_date TIMESTAMP,  
17     artist_id INTEGER NOT NULL REFERENCES artists(id)  
18 );  
19  
20 CREATE TABLE if not exists songs (  
21     id SERIAL PRIMARY KEY,  
22     title TEXT,  
23     duration TIMESTAMP,  
24     album_id INTEGER NOT NULL REFERENCES albums(id),  
25     genre_id INTEGER NOT NULL REFERENCES genres(id)  
26 );  
27  
28
```

Data Output Messages Notifications

CREATE TABLE

Добавление данных в таблицу artists

```
INSERT INTO  
artists(name,birthdate,country,biography)  
VALUES('Владислав','20.12.04','Казахстан','  
Просто текст');
```

```
INSERT INTO  
artists(name,birthdate,country,biography)  
VALUES('Роман','11.05.04','Казахстан','Прос  
то текст');
```

```
1 SELECT * FROM public.artists  
2 ORDER BY id ASC
```

Data Output Messages Notifications

| | id [PK] integer | name character varying (100) | birthdate date | country character varying (100) | biography text |
|---|--------------------|---------------------------------|-------------------|------------------------------------|-------------------|
| 1 | 3 | Владислав | 2004-12-20 | Казахстан | Просто текст |
| 2 | 4 | Роман | 2004-05-11 | Казахстан | Просто текст |

Добавление данных в таблицу genres

INSERT INTO genres(name) VALUES('Рок');

INSERT INTO genres(name) VALUES('Поп');

INSERT INTO genres(name)
VALUES('Классика');

```
1 SELECT * FROM public.genres
2 ORDER BY id ASC
```

Data Output Messages Notifications



| | id [PK] integer | name character varying (100) |
|---|--------------------|---------------------------------|
| 1 | 1 | Рок |
| 2 | 2 | Поп |
| 3 | 3 | Классика |














Добавление данных в таблицу albums

```
INSERT INTO albums(title,release_date)  
VALUES ('Матрица','06.02.23');
```

```
INSERT INTO albums(title,release_date)  
VALUES ('Неизданное','19.05.16');
```

```
1 SELECT * FROM public.albums  
2 ORDER BY id ASC
```

Data Output Messages Notifications

|          | | | | |
|---|--|---|---|--|
| | id [PK] integer  | title text  | release_date timestamp without time zone  | artist_id integer  |
| 1 | 2 | Матрица | 2023-02-06 00:00:00 | 3 |
| 2 | 3 | Неизданное | 2016-05-19 00:00:00 | 4 |

Добавление данных в таблицу songs

INSERT INTO songs(title,duration) VALUES
('Мало','2:28');

INSERT INTO songs(title,duration) VALUES
('Та, самая','3:46');

```
1 SELECT * FROM public.songs
2 ORDER BY id ASC
```

Data Output Messages Notifications

| | id [PK] integer | title text | duration time without time zone | album_id integer | genre_id integer |
|---|--------------------|---------------|------------------------------------|---------------------|---------------------|
| 1 | 2 | Мало | 02:28:00 | [null] | 1 |
| 2 | 3 | Та, самая | 03:46:00 | [null] | 2 |