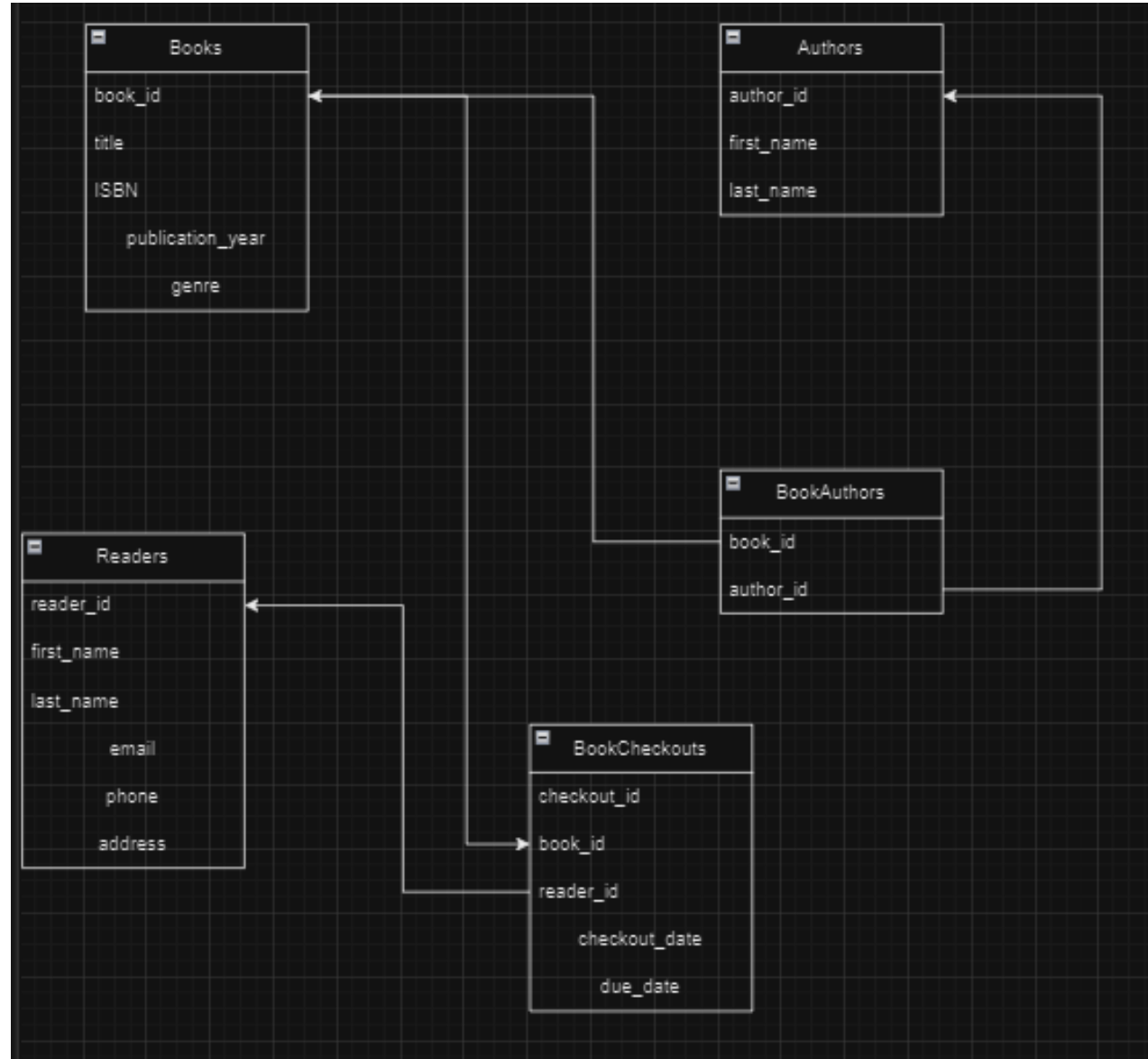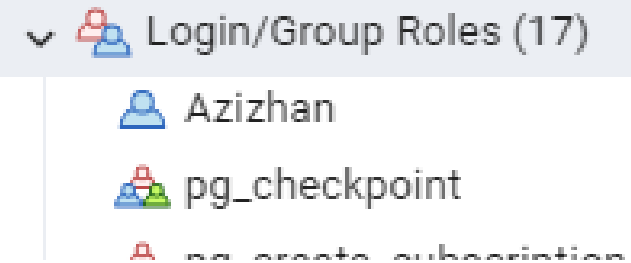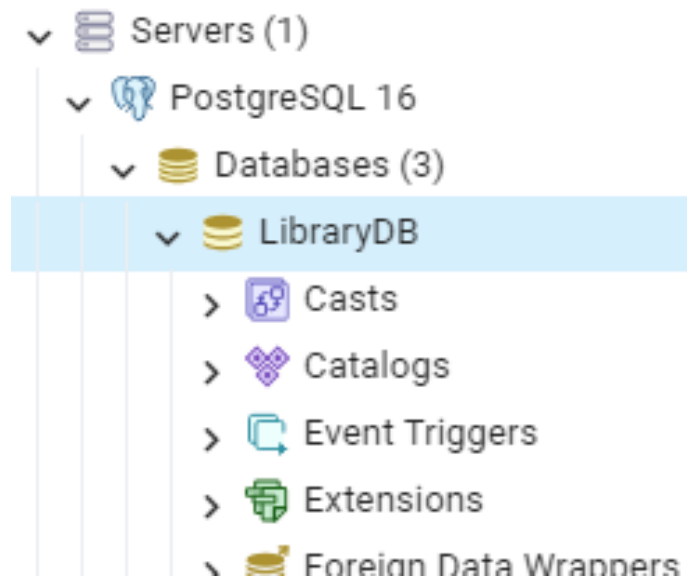# Лабораторная работа №6

Создание новой БД и пользователя через pqAdmin4

SQL-запрос на создание таблиц в соответствие со схемой

CREATE TABLE if not exists books(id SERIAL

PRIMARY KEY, title VARCHAR(100) NOT

NULL, ISBN INTEGER, publication_year

DATE, genre TEXT NOT NULL);

CREATE TABLE if not exists authors(id SERIAL

PRIMARY KEY, first_name VARCHAR(100) NOT NULL, last_name VARCHAR(100) NOT NULL);

CREATE TABLE if not exists readers(id SERIAL

PRIMARY KEY, first_name VARCHAR(100) NOT NULL,

     last_name VARCHAR(100) NOT NULL,

     email VARCHAR(100) NOT NULL,

     phone INTEGER,

     address VARCHAR(100));

CREATE TABLE if not exists bookauthors (book_id INTEGER NOT NULL REFERENCES books(id),

     author_id INTEGER NOT NULL REFERENCES readers(id));

CREATE TABLE if not exists bookcheckouts (id SERIAL PRIMARY KEY,

     bookd_id INTEGER NOT NULL REFERENCES books(id),

     reader_id INTEGER NOT NULL REFERENCES readers(id),

     checkout_date DATE NOT NULL,

     due_date DATE NOT NULL);

```
Query    Query History

 1   CREATE TABLE if not exists books(id SERIAL
 2   PRIMARY KEY, title VARCHAR(100) NOT
 3   NULL, ISBN INTEGER, publication_year
 4   DATE, genre TEXT NOT NULL);
 5
 6   CREATE TABLE if not exists authors(id SERIAL
 7   PRIMARY KEY, first_name VARCHAR(100) NOT NULL, last_name VARCHAR(100) NOT NULL);
 8
 9   CREATE TABLE if not exists readers(id SERIAL
10   PRIMARY KEY, first_name VARCHAR(100) NOT NULL,
11                              last_name VARCHAR(100) NOT NULL,
12                              email VARCHAR(100) NOT NULL,
13                              phone INTEGER,
14                              address VARCHAR(100));
15
16   CREATE TABLE if not exists bookauthors (book_id INTEGER NOT NULL REFERENCES books(id),
17                              author_id INTEGER NOT NULL REFERENCES readers(id));
18
19   CREATE TABLE if not exists bookcheckouts (id SERIAL PRIMARY KEY,
20                              bookd_id INTEGER NOT NULL REFERENCES books(id),
```

Data Output   Messages   Notifications

CREATE TABLE

Query returned successfully in 97 msec.

Добавление данных в таблицу books

INSERT INTO books(title,isbn,publication_year,genre) VALUES('Новая жизнь','29566653','1.1.2000','Лирика')

INSERT INTO books(title,isbn,publication_year,genre) VALUES('Сетевая безопасность','0101010101','15.5.1995','Информационная')

Data Output   Messages   Notifications

id [PK] integer	title character varying (100)	isbn integer	publication_year date	genre text
1	Новая жизнь	29566653	2000-01-01	Лирика
2	Сетевая безопасность	101010101	1995-05-15	Информационная

Добавление данных в таблицу authors

INSERT INTO authors(first_name,last_name)
VALUES('Азизжан','Бакрыев');

INSERT INTO authors(first_name,last_name)
VALUES('Новиков','Егор');

Добавление данных в таблицу readers

INSERT INTO readers(first_name,last_name,email,phone,address)
VALUES('Новиков','Егор','novik_egor@mail.ru','+777777777','Almaty City');

INSERT INTO readers(first_name,last_name,email,phone,address)
VALUES('Ильяс','Ибрагимовв','ilyasibragimov@mail.ru','+777777777','Almaty City');

	Data Output	Messages	Notifications			
	id [PK] integer	first_name character varying (100)	last_name character varying (100)	email character varying (100)	phone integer	address character varying (100)
1	1	Новиков	Егор	novik_egor@mail.ru	777777777	Almaty City
2	2	Ильяс	Ибрагимовв	ilyasibragimov@mail.ru	777777777	Almaty City

Добавление данных в таблицу bookcheckouts

INSERT INTO bookcheckouts
(checkout_date,due_date) VALUES
('20.10.23','02.11.23');

INSERT INTO bookcheckouts
(checkout_date,due_date) VALUES
('20.10.23','02.11.23');

	id [PK] integer	bookd_id integer	reader_id integer	checkout_date date	due_date date
1	2	1	1	2023-10-20	2023-11-02
2	3	2	2	2023-10-20	2023-11-02