CREATE DATABASE library

CREATE TABLE Authors (

author\_id SERIAL PRIMARY KEY CHECK(author\_id > 0),

first\_name VARCHAR(200) NOT NULL,

last\_name VARCHAR(200) NOT NULL,

middle\_name VARCHAR(200) NOT NULL,

birthday DATE NOT NULL,

country VARCHAR(200) NOT NULL

);

CREATE TABLE Readers (

reader\_id SERIAL PRIMARY KEY CHECK(reader\_id > 0),

first\_name VARCHAR(200) NOT NULL,

last\_name VARCHAR(200) NOT NULL,

email VARCHAR(50) NOT NULL,

reader\_password VARCHAR(30) NOT NULL,

phone VARCHAR(12) NOT NULL,

registration\_date DATE NOT NULL,

active BOOLEAN DEFAULT TRUE

);

CREATE TABLE Books (

book\_id SERIAL PRIMARY KEY CHECK(book\_id > 0),

name VARCHAR(200) NOT NULL,

publisher VARCHAR(200) NOT NULL,

publication\_year VARCHAR(4) NOT NULL,

genre VARCHAR(50) NOT NULL,

author\_id INTEGER NOT NULL CHECK(author\_id > 0),

FOREIGN KEY (author\_id) REFERENCES Authors(author\_id)

);

CREATE TABLE BookLoan (

loan\_id SERIAL PRIMARY KEY CHECK(loan\_id > 0),

loan\_date DATE NOT NULL,

return\_date DATE NOT NULL,

activeloan BOOLEAN DEFAULT FALSE,

book\_id INTEGER NOT NULL CHECK(book\_id > 0),

reader\_id INTEGER NOT NULL CHECK(reader\_id > 0),

FOREIGN KEY (book\_id) REFERENCES Books(book\_id),

FOREIGN KEY (reader\_id) REFERENCES Readers(reader\_id)

);  
человек, первым зарегистрировавшийся на сайте, является администратором и имеет доступ ко всем таблицам и полям.