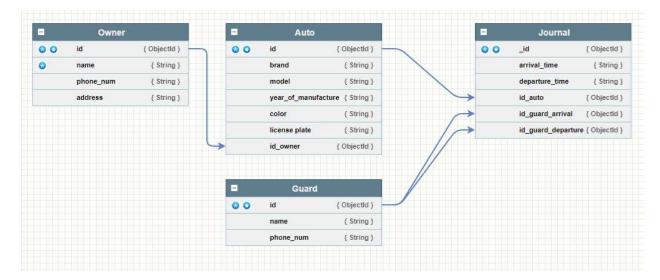
Модель данных



Создание бд

```
postgres=# CREATE DATABASE garage;
CREATE DATABASE
postgres=# \c garage;
You are now connected to database "garage" as user "postgres".
```

Создание таблиц

```
garage=# CREATE TABLE Owner (
garage(# id SERIAL PRIMARY KEY,
garage(# name VARCHAR(255),
garage(# address VARCHAR(255),
garage(# phone_num VARCHAR(255))
garage(# );
CREATE TABLE
```

```
garage=# CREATE TABLE Auto (
garage(# id SERIAL PRIMARY KEY,
garage(# brand VARCHAR(255),
garage(# model VARCHAR(255),
garage(# year_of_manuf INTEGER,
garage(# color VARCHAR(255),
garage(# color VARCHAR(255),
garage(# license_plate VARCHAR(20),
garage(# id_owner INTEGER REFERENCES Owner(id)
garage(# );
CREATE TABLE
```

```
garage=# CREATE TABLE Guard (
garage(# id SERIAL PRIMARY KEY,
garage(# name VARCHAR(255),
garage(# phone_num VARCHAR(255)
garage(# );
CREATE TABLE
```

```
garage=# CREATE TABLE Journal (
garage(# id SERIAL PRIMARY KEY,
garage(# arrival_time TIMESTAMP,
garage(# departure_time TIMESTAMP,
garage(# id_auto INTEGER REFERENCES Auto(id),
garage(# id_guard_arrival INTEGER REFERENCES Guard(id),
garage(# id_guard_departure INTEGER REFERENCES Guard(id)
garage(# );
CREATE TABLE
```

Создание последовательностей

```
garage=# CREATE SEQUENCE seq_owner_id START WITH 1 INCREMENT BY 1 NO MAXVALUE NO CYCLE;
CREATE SEQUENCE
garage=# CREATE SEQUENCE seq_auto_id START WITH 1 INCREMENT BY 1 NO MAXVALUE NO CYCLE;
CREATE SEQUENCE
garage=# CREATE SEQUENCE seq_guard_id START WITH 1 INCREMENT BY 1 NO MAXVALUE NO CYCLE;
CREATE SEQUENCE
garage=# CREATE SEQUENCE
garage=# CREATE SEQUENCE seq_journal_id START WITH 1 INCREMENT BY 1 NO MAXVALUE NO CYCLE;
CREATE SEQUENCE
```

Вывод таблиц и последовательностей

Schema	Name Name	Type	Owner
200	leaves:		
public	auto	table	postgres
public	auto_id_seq	sequence	postgres
public	guard	table	postgres
public	guard_id_seq	sequence	postgres
public	journal	table	postgres
public	journal_id_seq	sequence	postgres
public	owner	table	postgres
public	owner_id_seq	sequence	postgres
public	seq_auto_id	sequence	postgres
public	seq_guard_id	sequence	postgres
public	seq_journal_id	sequence	postgres
public	seq_owner_id	sequence	postgres

Заполнение таблиц и вывод данных из них

```
garage=# INSERT INTO Owner (name, address, phone_num) VALUES
('Ivan Ivanov', 'Lenin Street, 10', '8-800-555-35-35'),
('Petr Petrov', 'Gagarin Street, 5', '8-800-555-35-36'),
('Aleksey Alekseev', 'Pushkin Street, 22', '8-800-555-35-37');
INSERT 0 3
garage=# select * from Owner
garage-#;
 id |
                                  address
             name
                                                       phone_num
                          | Lenin Street, 10 | 8-800-555-35-35
  1 | Ivan Ivanov
                          | Gagarin Street, 5 | 8-800-555-35-36
  2 | Petr Petrov
  3 | Aleksey Alekseev | Pushkin Street, 22 | 8-800-555-35-37
(3 rows)
```

```
garage=# INSERT INTO Journal (arrival_time, departure_time, id_auto, id_guard_arrival, id_guard_departure) VALUES
('2023-04-20 20:00', '2023-04-20 09:00', 1, 1, 2),
('2023-04-20 16:00', '2023-04-20 14:30', 2, 2, 2),
('2023-04-20 15:00', '2023-04-19 23:20', 3, 2, 2),
('2023-04-19 10:00', '2023-03-19 06:00', 4, 1, 1);
INSERT 0 4
```

id	arrival_time	departure_time	id_auto	id_guard_arrival	id_guard_departure
2 3	2023-04-20 16:00:00 2023-04-20 15:00:00	2023-04-20 09:00:00 2023-04-20 14:30:00 2023-04-19 23:20:00 2023-03-19 06:00:00	2 3	1 2 2 1	2 2 2
(4 ro				· / ***	M