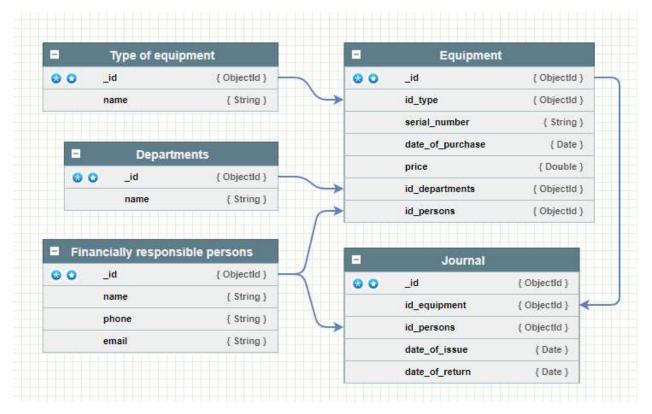
Модель данных



Создание бд

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

Создание таблиц

```
equipment=# create table Type (
id SERIAL PRIMARY KEY,
name VARCHAR(255)
);
CREATE TABLE
equipment=#
equipment=# create table Departments (
equipment(# id SERIAL PRIMARY KEY,
equipment(# name VARCHAR(255)
equipment(# );
CREATE TABLE
   equipment=# create table Persons (
   equipment(# id SERIAL PRIMARY KEY,
   equipment(# name VARCHAR(255),
   equipment(# phone VARCHAR(255),
   equipment(# email VARCHAR(255)
   equipment(# );
   CREATE TABLE
```

```
equipment=# create table Equipment (
equipment(# id SERIAL PRIMARY KEY,
equipment(# serial_number VARCHAR(255),
equipment(# date_of_purchase date,
equipment(# price real,
equipment(# id_type INTEGER REFERENCES Type(id),
equipment(# id_department INTEGER REFERENCES Departments(id),
equipment(# id_person INTEGER REFERENCES Persons(id)
equipment(# );
CREATE TABLE
```

```
equipment=# create table Journal(
equipment(# id SERIAL PRIMARY KEY,
equipment(# date_of_issue date,
equipment(# date_of_return date,
equipment(# id_equipment INTEGER REFERENCES Equipment(id),
equipment(# id_person INTEGER REFERENCES Persons(id)
equipment(# );
CREATE TABLE
```

Создание последовательностей

```
equipment=# create sequence seq_type_id start with 1 increment by 1 no maxvalue no cycle;

CREATE SEQUENCE
equipment=# create sequence seq_departments_id start with 1 increment by 1 no maxvalue no cycle;

CREATE SEQUENCE
equipment=# create sequence seq_persons_id start with 1 increment by 1 no maxvalue no cycle;

CREATE SEQUENCE
equipment=# create sequence seq_equipment_id start with 1 increment by 1 no maxvalue no cycle;

CREATE SEQUENCE
equipment=# create sequence seq_journal_id start with 1 increment by 1 no maxvalue no cycle;

CREATE SEQUENCE

CREATE SEQUENCE
```

Вывод таблиц и последовательностей

```
equipment=# \d
                List of relations
Schema I
                Name
                                Type
                                         Owner
public | departments
                            | table
                                       postgres
public | departments_id_seq | sequence | postgres
public | equipment
                            | table
                                       postgres
public | equipment_id_seq
                            | sequence | postgres
public | journal
                            | table
                                       postgres
public | journal id seg
                            | sequence | postgres
public | persons
                            | table
                                       postgres
public | persons_id_seq
                            | sequence | postgres
public | seq_departments_id | sequence | postgres
public | seq_equipment_id
                            | sequence | postgres
public | seq_journal_id
                            | sequence | postgres
public | seq_persons_id
                            | sequence | postgres
public | seq_type_id
                            | sequence | postgres
public | type
                            | table
                                       postgres
public | type_id_seq
                            | sequence | postgres
(15 rows)
```

Заполнение таблиц и вывод данных из них

```
equipment=# insert into Equipment (serial_number, date_of_purchase, price, id_type, id_department, id_person) values equipment-# ('SN101', '2023-01-10', 2500.00, 1, 1, 1), equipment-# ('SN201', '2020-05-07', 1000.00, 2, 2, 3), equipment-# ('SN301', '2021-04-04', 1999.99, 3, 3, 2);
INSERT 0 3
equipment=# select * from Equipment
 id | serial_number | date_of_purchase | price | id_type | id_department | id_person
  1 | SN101
                            | 2023-01-10 |
                                                                2500 |
                                                                                   1 |
                                                                                                          1 |
  2 | SN201
3 | SN301
                                                        | 1000 |
| 1999.99 |
                                                                                   2 |
3 |
                                                                                                          2 |
3 |
                             | 2020-05-07
                             2021-04-04
(3 rows)
```

Заполнение таблиц и вывод дан