# Лабораторная работа №2.

1) Создание 5 таблиц (Товар, Склад, Торговая точка, Поставка, Запрос)

```sql
CREATE TABLE IF NOT EXISTS "Product" (
    "id" serial NOT NULL UNIQUE,
    "name" varchar(100) NOT NULL,
    "measure" varchar(100) NOT NULL,
    "price" double precision NOT NULL DEFAULT 0.0
    PRIMARY KEY ("id"),
    CHECK ("price">0)
);

CREATE TABLE IF NOT EXISTS "Storage" (
    "id" serial NOT NULL UNIQUE,
    "keeper" varchar(100) NOT NULL,
    PRIMARY KEY ("id")
);

CREATE TABLE IF NOT EXISTS "Store" (
    "id" serial NOT NULL UNIQUE,
    "name" varchar(100) NOT NULL,
    "address" varchar(100) NOT NULL,
    PRIMARY KEY ("id")
);

CREATE TABLE IF NOT EXISTS "Supply" (
    "product_id" bigint NOT NULL UNIQUE,
    "storage_id" bigint NOT NULL UNIQUE,
    "amount" bigint NOT NULL,
```

ta Output   Сообщения   Notifications

∨ 🗔 Таблицы (5)
   > 🖽 Product
   > 🖽 Request
   > 🖽 Storage
   > 🖽 Store
   > 🖽 Supply

2) Добавление в каждую из таблиц по 5 значений

| | id [PK] integer | name character varying (100) | address character varying (100) |
|---|---|---|---|
| 1 | 1 | Store1 | address1 |
| 2 | 2 | Store2 | address2 |
| 3 | 3 | Store3 | address3 |
| 4 | 4 | Store4 | address4 |
| 5 | 5 | Store5 | address5 |

3)  Вывод всех запрашиваемых магазинами товаров (соединение Store, Request, Product)

```sql
1   SELECT st.name AS store_name,p.name AS product_name,  r.amount AS requested_amount
2   FROM "Product" p
3   JOIN "Request" AS r ON product_id = p.id
4   JOIN "Store" AS st ON store_id = st.id
5   ORDER BY st.id;
```

| | store_name<br>character varying (100) | product_name<br>character varying (100) | requested_amount<br>bigint |
|---|---|---|---|
| 1 | Store1 | Product1 | 300 |
| 2 | Store2 | Product2 | 100 |
| 3 | Store2 | Product3 | 200 |
| 4 | Store4 | Product1 | 500 |
| 5 | Store5 | Product4 | 400 |