



```
CREATE TABLE users (  
    users_id SERIAL PRIMARY KEY,  
    login VARCHAR(255),  
    password VARCHAR(255)  
);  
  
CREATE TABLE material_types (  
    type_id SERIAL PRIMARY KEY,  
    material_type VARCHAR(255) NOT NULL,  
    defect_percentage NUMERIC(5,4) NOT NULL  
);
```

```
CREATE TABLE product_types (  
    type_id SERIAL PRIMARY KEY,  
    product_type VARCHAR(255) NOT NULL,  
    coefficient NUMERIC(4,2) NOT NULL  
);
```

```
CREATE TABLE partners (  
    partner_id SERIAL PRIMARY KEY,  
    partner_type VARCHAR(50) NOT NULL,  
    partner_name VARCHAR(255) NOT NULL,  
    director VARCHAR(255) NOT NULL,  
    email VARCHAR(255) NOT NULL,  
    phone VARCHAR(50) NOT NULL,  
    legal_address TEXT NOT NULL,  
    inn VARCHAR(12) NOT NULL UNIQUE,  
    rating INTEGER CHECK (rating BETWEEN 1 AND 10)  
);
```

```
CREATE TABLE products (  
    product_id SERIAL PRIMARY KEY,  
    product_type_id INTEGER REFERENCES product_types(type_id) NOT  
NULL,  
    product_name VARCHAR(255) NOT NULL,  
    article VARCHAR(50) NOT NULL,  
    min_partner_price NUMERIC(10,2) NOT NULL  
);
```

```
CREATE TABLE partner_products (  

```

```
sale_id SERIAL PRIMARY KEY,  
product_id INTEGER REFERENCES products(product_id) NOT NULL,  
partner_id INTEGER REFERENCES partners(partner_id) NOT NULL,  
quantity INTEGER NOT NULL CHECK (quantity > 0),  
sale_date TIMESTAMP NOT NULL  
);
```

```
CREATE TABLE materials (  
    material_id SERIAL PRIMARY KEY,  
    material_type_id INTEGER REFERENCES material_types(type_id),  
    material_name VARCHAR(255) NOT NULL,  
    supplier VARCHAR(255),  
    purchase_price NUMERIC(10,2),  
    stock_quantity INTEGER  
);
```