

```
create table users (  
  users_id serial primary key,  
  login varchar,  
  password varchar  
);
```

```
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 INDEX idx_partner_products_date ON partner_products(sale_date);
CREATE INDEX idx_partners_name ON partners(partner_name);
CREATE INDEX idx_products_name ON products(product_name);
```

```
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
);

