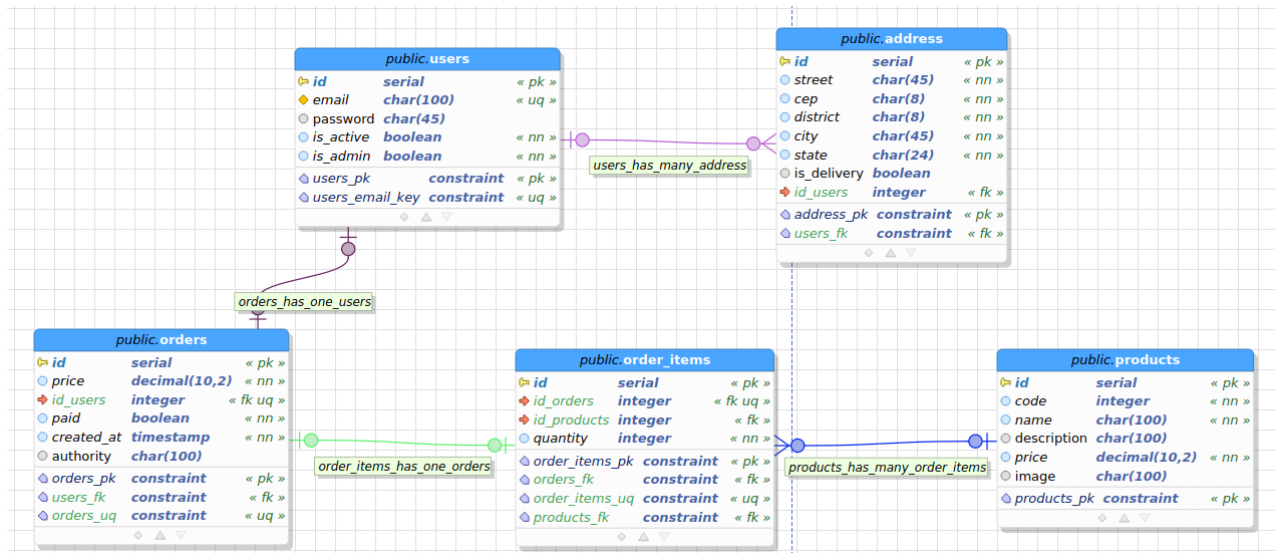


Comandos PSQL(PostgreSQL)

Diagrama Entidade-Relacionamento



1.Criação banco de dados e tabelas:

```
create database luizacode;
```

```
create table users(  
    id serial,  
    email char(100),  
    password char(45),  
    is_active boolean default true,  
    is_admin boolean default false,  
    is_admin bool null default false,  
    constraint email_uq unique (email),  
    constraint users_pkey primary key (id)  
);
```

```
create table address(  
    id serial,  
    user_id int,  
    street char(45),  
    cep char(8),  
    district char(45),  
    city char(45),
```

```

        state char(24),
        is_delivery boolean default true,
        constraint address_pkey primary key(id),
        constraint fk_user foreign key(user_id) references users(id)
    );

drop table orders cascade;
create table orders(
    id serial not null,
    user_id int,
    address_id int,
    price decimal(10,2),
    paid boolean default false,
    created_at timestamp not null default now(),
    authority char(100),
    constraint orders_pkey primary key(id),
    constraint order_uq unique(id),
    constraint fk_user FOREIGN KEY(user_id) references users(id),
    constraint fk_address FOREIGN KEY(address_id) references address(id)
);

drop table order_items;
create table order_items(
    code char(100) generated always as (CAST(id_order as char) || '_' ||
CAST(id_product as char)) stored,
    id_order int,
    id_product int,
    quantity integer not null default 1,
    constraint fk_order foreign key(id_order) references orders(id),
    constraint fk_product foreign key(id_product) references products(id),
    constraint order_product_uq unique(id_order, id_product),
    constraint order_product primary key(code)
);

create table products(
    id serial primary key,
    code integer not null,
    name char(100) not null,
    description char(100),
    price decimal(10,2) not null,
    image char(100)
);

```

2.Criação de user e permissão

```
/* DCL - Gerenciamento de acessos e permissões */  
create user karlapereira with password 'luizacode123';  
  
grant all privileges on database luizacode to karlapereira;  
SELECT * FROM pg_catalog.pg_user;
```

3.Inserção de dados nas tabelas

```
/* DCL - Add/Modify data */  
insert into users (email, password)  
    values ('karlapereira', 123);  
  
select * from users;  
  
insert into address (user_id, street, cep, district, city, state)  
    values (1, 'rua xxxxxx, xx', '01311100', 'xxxx', 'sao paulo', 'sp');  
insert into address (user_id, street, cep, district, city, state)  
    values (1, 'rua xxxxxx, xx', 'xxxxxxxx', 'xxxx', 'belo horizonte', 'mg');  
  
select * from address;  
  
insert into products (code, name, description, price, image)  
    values (1000, 'notebook', 'Acer Nitro 5 - core i7 - geforce GTX', 5500.00,  
    'notebook1.jpeg');  
  
insert into products (code, name, description, price, image)  
    values (2000, 'Iphone', 'Apple', 8500.00, 'iphone.jpeg'),  
    (3000, 'Monitor', 'Samsung', 2500.00, 'monitor.jpeg');  
  
update products set price = 5500.89 where code=1000;  
  
select * from products;  
  
insert into orders(user_id, address_id, price, paid)  
    values (1, 1, 5500.00, true);  
select * from orders;  
  
insert into order_items (id_order, id_product, quantity)  
    values (1, 1, 2),
```

```
(1,2,1),  
(1,3,5);
```

```
select * from order_items oi;
```

4. JOIN

```
select  
    u.id,  
    u.email,  
    a.city,  
    a.state,  
    o.price,  
    o.paid,  
    oi.id_product,  
    oi.quantity,  
    p.name  
from users u  
inner join address a on a.user_id = u.id  
inner join orders o on o.user_id = u.id and o.address_id = a.id  
inner join order_items oi on oi.id_order = o.id  
inner join products p on p.id = oi.id_product ;
```

5. Agregação

```
/* Agregação */
```

```
select  
    count(*), price  
from products p  
group by p.price;
```

```
select  
    min(code)  
from products p;
```

```
select distinct  
    p.price  
from products p ;
```

```
select  
    *  
from products p order by p.price DESC;
```