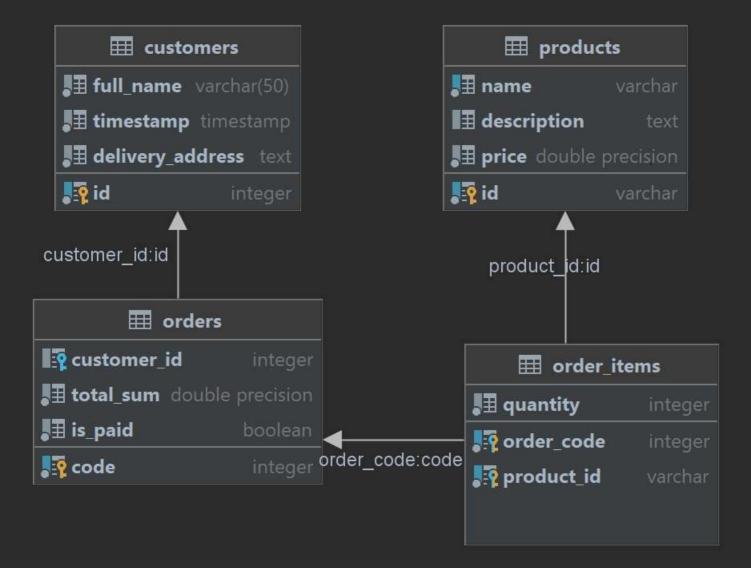
- •DDL (Data Definition Language) is used to declare data structures: renaming, creation, dropping.
- •DML (Data Manipulation Language) is used to manipulate with data of data structures:

merging, updating, deletion, insertion.



```
create table customers(
    id int primary key NOT NULL,
   full name varchar(50) NOT NULL,
   timestamp timestamp NOT NULL,
   delivery address text NOT NULL,
   UNIQUE (id)
);
create table orders(
   code int primary key NOT NULL,
   customer id int,
   total sum double precision NOT NULL,
    is paid boolean NOT NULL,
   foreign key (customer id) references customers(id),
   UNIQUE (code)
);
create table products(
    id varchar primary key NOT NULL,
   name varchar NOT NULL,
   description text,
   price double precision NOT NULL,
   UNIQUE (id, name)
);
create table order items(
   order code int NOT NULL,
   product id varchar NOT NULL,
   quantity int NOT NULL CHECK ( quantity > 0 ) ,
   primary key (order code, product id),
   foreign key (order_code) references orders(code),
   foreign key (product id) references products(id),
   UNIQUE (order_code, product_id)
);
```

```
create type sex as enum ('male'. 'female'):
create table students(
   full name varchar(50) primary key.
           smallint.
   age
   birth date DATE.
   gender sex.
   av grade real.
   info about vourself text.
   add info text,
   dormitory need boolean
);
create table instructors(
    name varchar(50) primary key,
    languages text,
   work exp text.
   remote lessons boolean
);
create table lesson participants(
    lesson title varchar(50) primary key,
   teaching instructor varchar(50),
    studying students int,
   room number int,
   foreign key (teaching instructor) references instructors(name)
);
```

```
INSERT INTO customers (id, full name, timestamp, delivery address)
VALUES (11111, 'Aisha Khan', '2016-06-22 19:10:25-07', 'st. Ualikhanov, 21');
INSERT INTO products (id, name, description, price)
VALUES ('171715', 'doll', '', 855):
INSERT INTO products (id, name, description, price)
VALUES ('171716', 'car toy', '', 680);
INSERT INTO orders (code, customer id, total sum, is paid)
VALUES (1122333, 11111, 15.4555, true);
INSERT INTO order items (order code, product id, quantity)
VALUES (1122333, '171715', 5);
UPDATE products
SET description = 'color is red'
WHERE name = 'car toy'
RETURNING *:
DELETE FROM products
WHERE id = '171716';
```