Lab 2 DB

1. A: create, alter, drop
   B: insert, update, delete, select
2. Task

```
create database t;
create table customers (
    id integer,
    full_name varchar(50) not null,
    timestamp timestamp not null,
    delivery_address text not null,
    primary key(id)
);
create table products(
    id varchar,
    name varchar unique,
    description text,
    price double precision not null,
    check (price>0),
    primary key(id)
);
create table orders(
    code integer,
    customer_id integer,
    total_sum double precision not null,
    check (total_sum>0),
    is_paid boolean not null,
    primary key(code),
    foreign key(customer_id) references customers
);
create table order_items(
    order_code integer,
    product_id varchar,
    quantity integer not null,
    check (quantity>0),
    primary key(order_code,product_id),
    foreign key(order_code) references orders,
    foreign key(product_id) references products
);
```

3. A

```
create database name;
create table students(
    full_name varchar(50),
    age int,
    birth_date date,
    gender varchar(6),
    average_grade numeric(3,2),
    info text
);
```

B

```
create database name;
create table instructors(
full_name varchar(50),
languages text,
experience text,
```

```
     possibility text
);
```

4. Task

```
create database t;
create table customers (
    id integer,
    full_name varchar(50) not null,
    timestamp timestamp not null,
    delivery_address text not null,
    primary key(id)
);
create table products(
    id varchar,
    name varchar unique,
    description text,
    price double precision not null,
    check (price>0),
    primary key(id)
);
create table orders(
    code integer,
    customer_id integer,
    total_sum double precision not null,
    check (total_sum>0),
    is_paid boolean not null,
    primary key(code),
    foreign key(customer_id) references customers
);
create table order_items(
    order_code integer,
    product_id varchar,
    quantity integer not null,
    check (quantity>0),
    primary key(order_code,product_id),
    foreign key(order_code) references orders,
    foreign key(product_id) references products
);
delete from order_items
where quantity>10;

insert into customers
values('1234','Aidana Abdikarimova');

update orders
set total_sum = total_sum*2
where total_sum>0;
```