

1.

DDL commands:

```
create database university_db
    tablespace lecture_tablespace;

alter table instructor
    alter column name type varchar(200);

drop database university_db;
```

DML commands:

```
insert into department (name, building)
VALUES ('BS', 'KBTU');

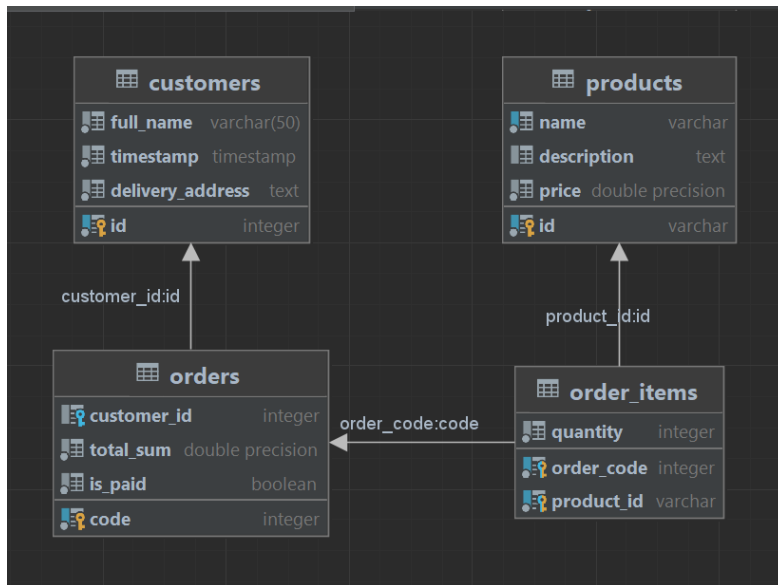
delete
from department_child;

select *
from department;

UPDATE table_name SET column1 = value1, column2 = value2,...
WHERE condition;
```

2.

```
create table customers(
    id                INT primary key,
    full_name         varchar(50),
    timestamp         timestamp,
    delivery_address  TEXT
);
create table products(
    id                varchar primary key,
    name              varchar,
    description       TEXT,
    price             double precision
);
create table orders(
    code              INT primary key,
    customer_id       INT,
    total_sum         double precision,
    is_paid           boolean,
    foreign key(customer_id) references customers(id)
);
create table order_items(
    order_code        INT,
    product_id        varchar,
    quantity          INT,
    constraint id primary key (order_code, product_id),
    foreign key (order_code) references orders (code),
    foreign key (product_id) references products (id)
);
```



3.

```

create table students(
    id INT primary key,
    full_name varchar,
    age INT,
    birth_date DATE,
    gender varchar check(gender in('male', 'female')),
    average_grade float,
    information TEXT,
    need_for_a_dormitory boolean,
    additional_info text
);
create table instructors(
    id INT primary key,
    full_name varchar,
    speaking_languages varchar,
    work_experience INT,
    possibility_of_having_remote_lessons boolean
);
create table lesson_participants(
    lesson_title varchar,
    teaching_instructor INT,
    studying_students INT,
    room_number INT,
    constraint c primary key(lesson_title, teaching_instructor,
studying_students),
    foreign key(teaching_instructor) references instructor(id),
    foreign key(studying_students) references student(id)
);
  
```

4.

```

insert into customers values('Alina', 'Malika');
insert into order_items values(1, 8, 45);

update customers set full_name = 'Adai Alina'
where id = 1001;

delete from products where id = '456';
delete from customers where id = 1002;
  
```