1. DML- provides the ability to add, delete or modify tuples in the database, while DDL responds for specification of information about relations. DML commands: INSERT, UPDATE, DELETE DDL commands: CREATE, DROP, RENAME 2. create table customers( id int not null primary key, full name varchar(50) not null, timestamp timestamp not null, delivery\_adress text not null); create table products( id varchar not null primary key, name varchar not null, description text, price double precision not null); create table orders( code int not null primary key, customers\_id int, total sum double precision not null check(total sum>0), is paid boolean not null, foreign key (customers\_id) references customers(id)); 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)); create table students(id int not null primary key, full\_name varchar(50) not null, age int not null, birth\_date date not null, average\_grade double precision not null, info student text, need\_dormitory boolean not null, add\_info text); create table instructors( id int not null primary key, full\_name varchar(50) not null, work\_exp text,

remote\_lessons boolean not null);

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create table lesson_participants(
lesson title varchar not null,
instructor_id int not null,
room_num int not null,
primary key(lesson_title,instructor_id),
foreign key (instructor_id) references instructors(id));
create table languages(
instructor_id int not null,
language_name varchar not null,
primary key(instructor_id, language_name),
foreign key (instructor_id) references instructors(id));
create table studying_students(
    student id int not null,
    studying_lesson varchar not null,
    instructor_id int not null,
    primary key(studying_lesson, student_id),
    foreign key(studying_lesson,instructor_id) references
lesson participants,
    foreign key(student_id) references students(id));
  4. a)insert into products values('12', 'Tutti', 'db noob', '153.12');
      b) update products
      set price = price * 0.1
      where price > 100
      c) delete from products
      where id = '12'
```