- 1. DDL is used to define data structures (basically attributes), whilst DML is used to manipulate data itself (basically tuples).
- A) create, alter, drop
- B) select, insert, update, delete

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2. create table customers( id int not null, full_name varchar(50) not null, timestamp timestamp not null, delivery_adress text not null primary key (id);
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create table products(
id varchar not null,
name varchar not null,
description text,
price double precision not null check (price>0)
primary key (id);

create table orders(
code int not null,
customer_id int,
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 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,
foreign key (product_id) references products);

3.

A) create table students(id int not null, full_name varchar(50) not null,

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age int not null,
birth date date not null.
gender char(1) not null,
average_grade double precision not null,
info student text.
need_dormitory char(1) not null,
add info text
primary key (id));
B)
create table instructors(
id int not null,
full name varchar(50) not null,
work_exp text,
remote lessons char(1) not null,
primary key (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);
C)
create table lesson_participants(
lesson varchar not null.
instructor id int not null,
room num int not null,
primary key(lesson,instructor id),
foreign key (instructor_id) references instructors);
create table studying_students(
student id int not null,
lesson varchar not null.
instructor id int not null,
primary key(lesson, student_id),
foreign key(lesson,instructor id) references lesson participants,
foreign key(student_id) references students);
4.
insert into products values ("7724", "nutmix", "mix of chocolate and nuts",
"1420"):
update products set price = "1580" where id="7724";
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delete from products where name="nutmix";