#1

Difference between DDL and DML:

- DDL used to create database, users, tables
 DML used to insert, update or delete the records.
- DDL has no further classification.
 DML is further classified into procedural DML and non-procedural DML.
- DDL commands are CREATE, DROP, ALTER
 DML commands are SELECT, INSERT, UPDATE, DELETE

#2

```
CREATE TABLE customers(
   id int not null unique PRIMARY KEY,
   full_name varchar(50) not null,
   timestamp timestamp not null,
   delivery_adress text not null);

SELECT * FROM customers;

CREATE TABLE orders(
   code int unique PRIMARY KEY not null,
   customer_id int,
   total_sum double precision not null check(total_sum>0),
   is_paid boolean not null,
   foreign key (customer_id) references customers(id));

SELECT * FROM orders;

CREATE TABLE products(
   id varchar not null unique PRIMARY KEY,
   name varchar not null,
   description text,
   price double precision not null);

SELECT * FROM products;

CREATE TABLE order_items(
   order_code int unique not null,
   product_id varchar unique 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));

SELECT * FROM order_items;
```

#3

```
CREATE TABLE students(
    student_id int unique PRIMARY KEY not null,
    first_name varchar(50) not null,
    age int not null,
    birth_date date not null,
```

```
gender varchar(50) not null,
foreign key (lesson_id) references lessons(id),
foreign key (instructor_id) references instructors(id),
foreign key (students_id) references students(student_id));
```

#4

```
insert into products values('1', 'book', 'fiction, in russian
language', '5000');
insert into products values('2', 'pen', 'blue', '200');

update products
set price=price+1000
where name='book';

delete from products
where name='pen';
```