1.

DDl we use for tables and higher containers manipulations, when DML we use for manipulations with data. (manipulations – creating, deleting, changing).

CREATE TABLE users(\_id int, name varchar(15));

DROP TABLE IF EXIST users;

ALTER TABLE users ADD password varchar(20);

SELECT \* FROM users;

UPDATE users SET name=”Vasiliy” WHERE name=”Vasya”;

INSERT INTO users (name, password) VALUES (“Vasiliy”, “12345678”);

DELETE FROM users WHERE password=”12345678”;

2.

CREATE TABLE customers( id integer primary key, full\_name varchar(50), timestamp timestamp with time zone, delivery\_address text );

CREATE TABLE products( id varchar primary key, name varchar, description text, price double precision );

CREATE TABLE orders( code integer primary key, customer\_id integer, total\_sum double precision, is\_paid boolean, foreign key (customer\_id) references customers(id) );

CREATE TABLE order\_items( order\_code integer, product\_id varchar, quantity integer, foreign key (order\_code) references orders(code), foreign key (product\_id) references products(id) );

3.

CREATE TABLE additional\_students\_information(id INTEGER PRIMARY KEY, faculty VARCHAR(10), organization VARCHAR(50), workplace VARCHAR(100));

CREATE TABLE students(student\_id integer primary key , full\_name varchar(200), birth\_date date, gender varchar(1), average\_grade real, info varchar (10000), dorm boolean , additional\_information\_id integer, foreign key (additional\_information\_id) references additional\_students\_information(id));

CREATE TABLE instructors(instructor\_id integer primary key autoincrement, full\_name varchar(200), languages varchar(800), woek\_experience integer, remote\_lessons boolean);

CREATE TABLE lesson (lesson\_id integer primary key, title varchar(50), room\_number integer, instructor integer);

CREATE TABLE students\_lessons (int lesson\_id primary key, int student\_id primary key, foreign key (lesson\_id)references lesson(lesson\_id), foreign key(student\_id) references students(student\_id));

4.

INSERT INTO additional\_students\_information(id, faculty,organization)VALUES (0,'FIT','ArtHouse');

INSERT INTO additional\_students\_information(id, faculty)VALUES (1,'bs');

SELECT \* FROM additional\_students\_information;

INSERT INTO students (student\_id,full\_name, birth\_date, gender, average\_grade,dorm, additional\_information\_id)VALUES (0,'IVANOV IVAN',now(),'m',2.5,true,0);

INSERT INTO students (student\_id,full\_name, birth\_date, gender, average\_grade,dorm, additional\_information\_id)VALUES (1,'IVANOV VANYA’,now(),'m',0.2,FALSE,1);

SELECT \* FROM students;

DELETE FROM students WHERE(full\_name='IVANOV VANYA');