RUZI DIANA  
TASK 1

DDL – CREATE, DROP, RENAME; creates database and schema, define constraints and tables

DML – UPDATE, INSERT, MERGE; updates/deletes them

TASK 2 and 4

CREATE TABLE customers

(

id int unique not null,

full\_name varchar(50) not null,

timestamp\_address timestamp not null,

delivery\_address text not null,

primary key(id)

);

CREATE TABLE orders

(

code int unique 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),

primary key(code)

);

CREATE TABLE products

(

id varchar unique not null,

name varchar unique not null,

description text,

price double precision not null check(price>0),

primary key(id)

);

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)

);

INSERT INTO products(id, name, description, price) values (010, 'milk', 'fresh', 100);

UPDATE products set name='milk' where name='juice';

DELETE FROM products where id=010;

TASK3

CREATE TABLE students(

id int not null unique,

full\_name varchar(50) not null,

age int check(age>0),

birth\_date date not null,

gender varchar(7),

average\_grade double precision check(average\_grade>0),

info text,

need\_for\_dormitory boolean not null,

additional\_info text,

primary key (id)

);

CREATE TABLE instructors(

instructor\_id int not null unique,

full\_name varchar(50),

speaking\_languages varchar(15) not null,

work\_experience int check(work\_experience >= 0),

possibility\_of\_having\_remote\_lessons boolean not null,

primary key(instructor\_id),

foreign key (instructor\_id) references students(id)

);

CREATE TABLE lesson\_participants(

participant\_id int not null unique,

lesson\_title varchar(50) not null,

teaching\_instructor varchar(50) not null,

studying\_students varchar(50) not null,

room\_number int check (room\_number > 0),

primary key(participant\_id),

foreign key (participant\_id) references instructors(instructor\_id)

);