1.

DDL – creating data and modifying the structure of objects in database.

DML – manipulating the data inside database

a) At least 3 DDL commands:

rename

CREATE

Alter

Drop

b) At least 4 DML commands:

INSERT into

DELETE from

UPDATE table

SELECT table

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 (product_id) references products(id),
   foreign key (order_code) references orders(code)
);

select * from customers;
select * from order;
select * from products;
```

Customers:

```
Orders:

| Total_sum | Image |
```

3.

```
foreign key (studying student) references students (full name)
elect * from a lesson participants;
```

Info_student (atomic):

```
🤇 🎼 name

‡ ■ education

‡ ■ attestation
Instructors:
full_name

‡ ■ speak_lang

‡ ■ work_experience

‡ II remote_lessons

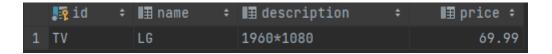
Students:
 📭 full_name 🗧
                                              ■ average_grade : Information_about_yourself : ■ needed_dormitory
A_lesson_participants:
                   ‡ I∰ teaching_instructor
 I≣ lesson_title
                                                📭 studying_student
                                                                             II room_number ÷
```

4.

Insertion:

Update:

```
Update products
set price = 69.99
where id = 'TV';
```



Deletion:

```
INSERT INTO products(id, name, description, price) values ('car', 'McLaren', 'Спер пупер автомобиль', '99999.99'); select * from products;
```

```
      Image: Image | Figure | F
```

delete from products
where name = 'McLaren';

	📭 id	‡	I ≣ name	‡	■ description	‡	■ price ÷
1	TV		LG		1960*1080		69.99