1.

DDL	DML
<ul> <li>Data Definition Language</li> </ul>	Data Manipulation Language
<ul> <li>For creating database scheme and its</li> </ul>	<ul> <li>For adding, retrieving and updating</li> </ul>
constraints	data
<ul> <li>Defines the column of the table</li> </ul>	<ul> <li>Adds or updates tuples</li> </ul>
<ul> <li>Don't have classifications</li> </ul>	<ul> <li>Classifies in two categories: Non-</li> </ul>
<ul> <li>Basic commands: CREATE, DROP,</li> </ul>	Procedural and Procedural
RENAME, etc.	Basic commands: UPDATE, INSERT
<ul> <li>No clauses</li> </ul>	INTO, MERGE, etc.
	We can use clauses

a. DDL commands:

```
i.
    CREATE TABLE table0(
        primary_key int not null unique primary key ,
        atribute0 time not null,
        atribute1 varchar not null,
        atribute2 text
    )
ii.
    ALTER TABLE table0
    ADD COLUMN attribute3 smallint not null
iii.
    DROP TABLE table0
```

b. DML commands:

1.

```
INSERT INTO COSTOMERS VALUES (I, "NAME", TIMESTAMP"2020-01-01 00:00:00:00.000", "ADDRESS")
```

```
ii.
   UPDATE customers
   SET full_name = 'Zhandos Ayupov'
   WHERE full_name = 'NAME'
iii.
   INSERT INTO products VALUES
   (1, 'NAME', 'comments', 100.00)
```

iv.
UPDATE products
SET name = 'Milk'
WHERE id = '1'

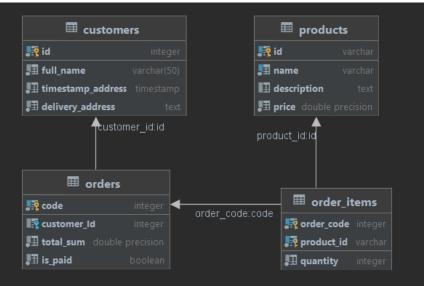
```
CREATE TABLE customers
    (
        id int unique not null primary key ,
        full_name varchar(50) not null,
        timestamp_address timestamp not null,
        delivery_address text not null
)
```

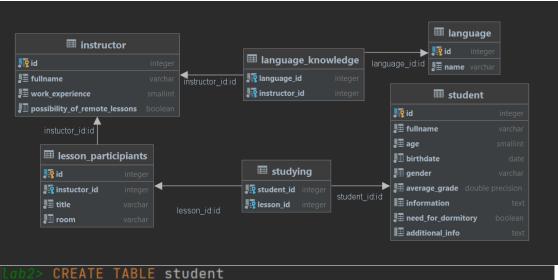
```
CREATE TABLE orders
(
    code int not null unique primary key,
    customer_id int,
    total_sum double precision not null,
    is_paid boolean not null,
    foreign key (customer_id) references customers(id)
)
```

```
CREATE TABLE products
(
    id varchar primary key unique not null,
    name varchar unique not null,
    description text,
    price double precision not null
)
```

```
CREATE TABLE order_items
(
    order_code int unique not null,
    product_id varchar unique not null,
    quantity int not null,
    primary key (order_code,product_id),
    foreign key (order_code) references orders(code),
    foreign key (product_id) references products(id)
)
```

## RESULT:





```
id int unique not null primary key,
          fullname varchar not null,
          age smallint not null,
          birthdate date not null,
          gender varchar not null,
          average_grade double precision not null,
          information text,
          need_for_dormitory boolean not null,
          additional_info text,
          check(age >= 0 or age<=200),</pre>
          check (gender = 'Male' or gender = 'Female'),
          check(average_grade>=0.0 and average_grade<=4.0)</pre>
[2021-09-23 11:26:41] completed in 55 ms
 ab2.public> CREATE TABLE language
                 id int unique not null primary key,
                 name varchar not null
[2021-09-23 11:28:34] completed in 36 ms
 ab2.public> CREATE TABLE instructor
                 id int unique not null primary key,
                 fullname varchar not null,
                 work_experience smallint not null,
                 possibility_of_remote_lessons boolean not null,
                 check (work_experience>=0)
[2021-09-23 11:28:54] completed in 27 ms
```

```
CREATE TABLE language_knowledge
                language_id int not null,
                instructor_id int not null,
                foreign key (language_id) references language(id),
                foreign key (instructor_id) references instructor(id)
[2021-09-23 11:29:17] completed in 12 ms
 ab2.public> CREATE TABLE lesson_participiants
                instuctor_id int not null,
                title varchar not null,
                room varchar not null,
                foreign key (instuctor_id) references instructor(id),
[2021-09-23 11:32:37] completed in 23 ms
 ab2.public> CREATE TABLE studying
                student_id int not null,
                lesson_id int not null,
                foreign key (student_id) references student(id),
                foreign key (lesson_id) references lesson_participiants(id)
[2021-09-23 11:33:32] completed in 6 ms
INSERT INTO customers VALUES
(2, 'Name2', TIMESTAMP'2021-05-05 21:34:34', 'Address2'),
```

(3, 'Name3', TIMESTAMP'2019-05-05 19:34:34', 'Address3'),

(4, 'Name4', TIMESTAMP'2021-03-05 21:12:34', 'Address4')

```
DELETE FROM customers
WHERE full_name = 'Zhandos Ayupov'
```

```
INSERT INTO orders VALUES
(1234, 2, 1000000.00, True)
```

```
UPDATE orders
SET total_sum = total_sum/2
WHERE code = 1234
```