1)Difference between DDL and DML is that DML is used to access, modify or retrieve the <u>data from the database</u>, whereas DDL is used to <u>specify the database schema database structure</u>.

```
a)-CREATE(create table/tablespace/...);
-DROP(drop table/database/...);
-ALTER(ALTER TABLE table name ADD column name ...).
b)-INSERT(INSERT INTO table name() VALUES(););
-UPDATE(UPDATE table name SET ... WHERE ...);
-DELETE(DELETE FROM table name WHERE ...).
-SELECT(SELECT columns... FROM table name);
2)create table customers(
  id
                  SERIAL PRIMARY KEY,
  full name
                  VARCHAR(50),
                  TIMESTAMP,
  timestamp
  delivery_address TEXT
);
create table orders(
  code
                  INT PRIMARY KEY,
                  INT REFERENCES customers(id),
  customer id
  total sum
                  DOUBLE PRECISION,
  is_paid
                  BOOLEAN
);
create table order items(
  order code INT FOREIGN KEY REFERENCES orders(code),
  product id VARCHAR REFERENCES products(id),
  quantity
              INT
);
```

```
create table products(
                  VARCHAR PRIMARY KEY,
  id
                  VARCHAR NOT NULL UNIQUE,
  name
  description
                 TEXT,
  price
                  DOUBLE PRECISION
);
3)
create table student(
  full name
                  VARCHAR(50) PRIMARY KEY,
                  INT,
  age
  birth_date
                  DATE,
                 VARCHAR,
  gender
  average_grade
                 DOUBLE PRECISION,
  description
                  TEXT,
  dormitory status BOOLEAN,
  other
                  TEXT
);
create table instructor(
  full name
                   VARCHAR(50) PRIMARY KEY,
  languages
                   VARCHAR,
  work_experience TEXT,
  remote lessons
                   BOOLEAN
);
create table lesson_partisipants(
  lesson title
                    VARCHAR,
  teaching instructor VARCHAR REFERENCES instructor(full_name),
  studying_students
                   TEXT,
  room number
                    INT
);
```

4)

INSERT INTO customers (full_name,timestamp,delivery_address) VALUES ('Nurs',now(),'Maшxyp Жусупа 33a');

UPDATE customers SET delivery_address = 'Заслонова 54a' WHERE full_name = 'Nurs';

DELETE FROM customers WHERE full_name = 'Nurs';