#For creating Databases
CREATE DATABASE IF NOT EXISTS campusx

#for creating table
CREATE TABLE users(
  user_id INTEGER,
  name VARCHAR(255),
  email VARCHAR(255),
  password VARCHAR(255)
)

#empty the table
TRUNCATE TABLE users

#for dropping the table
DROP TABLE IF EXISTS users

#constraint
not null
CREATE TABLE users(
    user_id INTEGER NOT NULL,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255),
    password VARCHAR(255)
)

 # unique
CREATE TABLE users(
    user_id INTEGER NOT NULL,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL
)

CREATE TABLE users(
    user_id INTEGER NOT NULL,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL,
    #second ways
    CONSTRAINT users_email_unique UNIQUE (name,email)
)

 # auto increment
```
CREATE TABLE users(
    user_id INTEGER PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL
)
```

#check
```
CREATE TABLE students(
    student_id INTEGER PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(50) NOT NULL,
    age INTEGER CHECK(age > 6 AND age < 25),

    CONSTRAINT student_age_check CHECK (age > 6 AND age < 25)
)
```

#Foreign key
```
CREATE TABLE customers(

    cid INTEGER PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE



)

CREATE TABLE orders(
    order_id INTEGER PRIMARY KEY AUTO_INCREMENT,
    cid INTEGER NOT NULL,
    order_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,

    CONSTRAINT order_fk FOREIGN KEY (cid) REFERENCES customers(cid)


)
```

#cascade

```
CREATE TABLE orders(
    order_id INTEGER PRIMARY KEY,
    cid INTEGER NOT NULL,
    order_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,


    CONSTRAINT order_fk FOREIGN KEY (cid) REFERENCES customers(cid)
    ON DELETE CASCADE
    ON UPDATE CASCADE



)
```

#ALTER COMMAND

```
ALTER TABLE customers ADD COLUMN surname VARCHAR(255) NOT NULL AFTER name


ALTER TABLE customers
ADD COLUMN pan_number VARCHAR(255) AFTER surname,
ADD COLUMN joining_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP
```

#Delete command

```
ALTER TABLE customers DROP COLUMN pan_number

ALTER TABLE customers
DROP COLUMN password,
DROP COLUMN joining_date
```

#modify

```
ALTER TABLE customers MODIFY COLUMN surname INTEGER


ALTER TABLE customers ADD COLUMN age INTEGER NOT NULL


ALTER TABLE customers ADD CONSTRAINT customer_age_check CHECK(age>13)


ALTER TABLE customers DROP CONSTRAINT customer_age_check
ALTER TABLE customers ADD CONSTRAINT customer_age_check CHECK (age >6)
```