```
00.
CREATE DATABASE softuni_management_db;

PASTE 02.Exercise Lab- Basic CRUD.sql in PgAdmin

01.
SELECT * FROM cities
ORDER BY id;

02.
SELECT
CONCAT(name, ' ', state) AS "Cities Information",
       area AS "Area (km2)"
FROM cities;

03.
SELECT
DISTINCT name,
area AS "Area (km2)"
FROM cities
ORDER BY name DESC;

04.
SELECT
      id AS "ID",
      CONCAT(first_name,' ', last_name) AS "Full Name",
      job_title AS "Job Title"
FROM employees
ORDER BY first_name ASC
LIMIT 50;

05.
SELECT
      id,
      CONCAT(first_name, ' ', middle_name, ' ', last_name) AS "Full Name",
      hire_date AS "Hire Date"
FROM employees
ORDER BY hire_date ASC
OFFSET 9
***
OFFSET clause is zero-based, which means that it skips the specified number of rows
staring from 0.
***

06.
SELECT
      id,
      CONCAT(number, ' ', street) AS "Address",
      city_id
FROM addresses
WHERE id>=20;

07.
SELECT
      CONCAT(number, ' ', street) AS "Address",
      city_id
FROM addresses
WHERE city_id > 0 AND city_id % 2 = 0
ORDER BY city_id ASC;
```

```
08.
SELECT
      name,
      start_date,
      end_date
FROM projects
WHERE start_date >= '2016-06-01 07:00:00' AND end_date < '2023-06-04 00:00:00'
ORDER BY start_date ASC;

09.
SELECT
      number,
      street
FROM addresses
WHERE (id BETWEEN 50 AND 100) OR (number < 1000);

10.
SELECT
      employee_id,
      project_id
FROM employees_projects
WHERE (employee_id IN(200, 250)) AND (project_id NOT IN(50, 100));

11.
SELECT
      name,
      start_date
FROM projects
WHERE name IN('Mountain', 'Road', 'Touring')
LIMIT 20;

12.
SELECT
      CONCAT(first_name, ' ', last_name) as "Full Name",
      job_title,
      salary
FROM employees
WHERE salary IN(12500, 14000, 23600, 25000)
ORDER BY salary DESC;

13.
SELECT
      id,
      first_name,
      last_name
FROM employees
WHERE middle_name IS NULL
LIMIT 3;

14.
INSERT INTO departments(department, manager_id)
VALUES
      ('Finance', 3),
      ('Information Services', 42),
      ('Document Control', 90),
      ('Quality Assurance', 274),
      ('Facilities and Maintenance', 218),
      ('Shipping and Receiving', 85),
```

```
      ('Executive', 109);
```

15.
```
CREATE TABLE company_chart AS
SELECT
    CONCAT(first_name, ' ', last_name) AS "Full Name",
    job_title AS "Job Title",
    department_id AS "Department ID",
    manager_id AS "Manager ID"
FROM employees;
```

16.
```
UPDATE projects
SET end_date = start_date + INTERVAL '5 months'
WHERE end_date IS NULL;
```

17.
```
UPDATE employees
SET salary = salary + 1500,
    job_title = 'Senior ' || job_title
WHERE hire_date BETWEEN '1998-01-01' AND '2000-01-05';
***
DATE FORMAT: YYYY-MM-DD***
```

18.
```
DELETE FROM addresses
WHERE city_id IN (5, 17, 20, 30)
```

19.
```
CREATE VIEW view_company_chart AS
SELECT "Full Name", "Job Title"
FROM company_chart
WHERE "Manager ID" = 184;
```

20.
```
CREATE VIEW view_addresses AS
SELECT CONCAT(first_name, ' ', last_name) AS "Full Name",
         department_id,
       CONCAT(addresses.number, ' ', addresses.street) AS "Address"
FROM employees
JOIN addresses ON employees.address_id = addresses.id
ORDER BY "Address";
```

21.
```
ALTER VIEW view_addresses RENAME TO view_employee_addresses_info;
```

22.
```
DROP VIEW view_company_chart;
```

23.
```
UPDATE projects
SET name = upper(name);
```

24.
```
CREATE VIEW view_initials AS
SELECT first_name AS "initial", last_name
FROM employees
ORDER BY last_name;
```

```
UPDATE view_initials
SET initial = LEFT(initial, 2);
```

25.

```
SELECT name, start_date
FROM projects
WHERE name LIKE 'MOUNT%'
ORDER BY id;
```