DB

Task 2

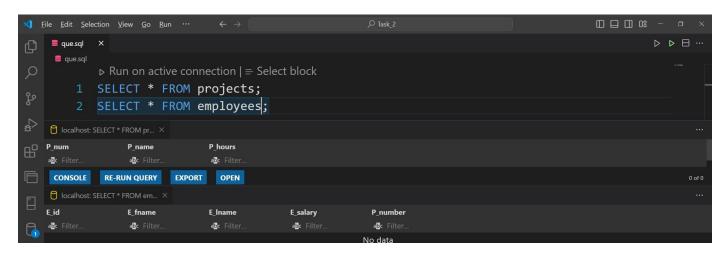
إسلام محمد عطية محمد

سكشن 1 (20220126)

Task 2

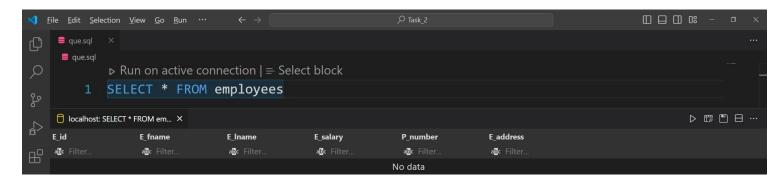
1. Create Employees and Projects tables with the following constraint: (E_fname ,E_salary,P_name must be entered from user, E_salary must be greater than 2500, p_hours must be greater than 25).

```
1 CREATE TABLE Projects
      P_num INT PRIMARY KEY,
      P_name VARCHAR(100) NOT NULL,
      P hours INT,
      CHECK (P_hours > 25)
7);
8 CREATE TABLE Employees
9 (
10
      E id INT PRIMARY KEY AUTO INCREMENT,
      E fname VARCHAR(50) NOT NULL,
11
12
      E lname VARCHAR(50),
13
      E_salary INT NOT NULL,
14
      P number int,
      FOREIGN KEY (P_number) REFERENCES Projects(P_num),
15
      CHECK (E_salary > 2500),
16
17
18);
```

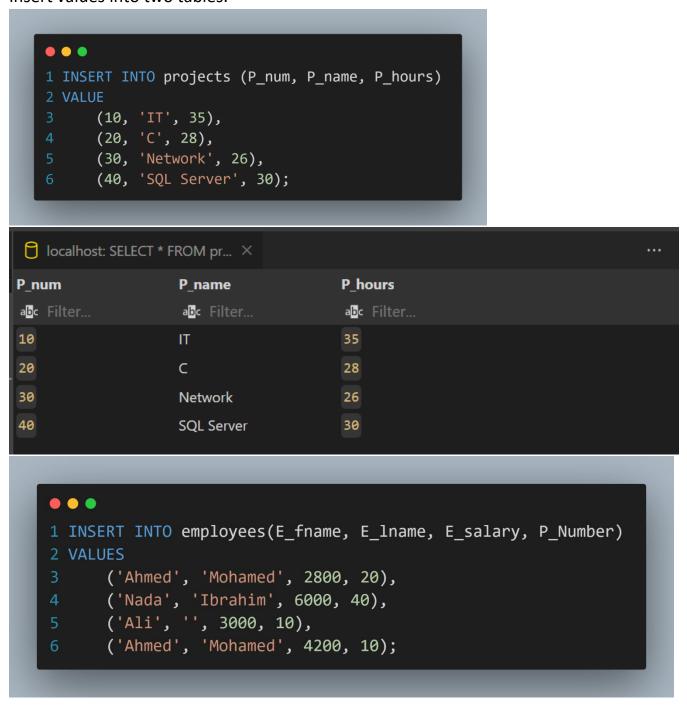


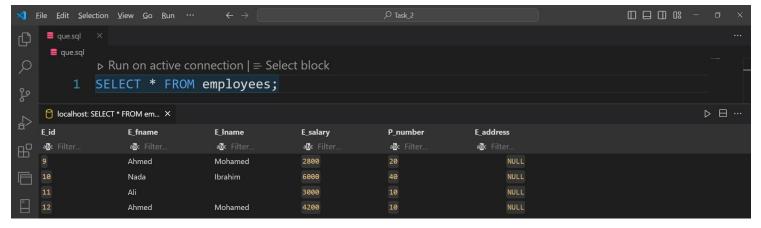
2. Add E_address column to employee table that must be only cairo, giza, and helwan,

```
1 ALTER TABLE employees
2 ADD E_address ENUM('cairo', 'giza', 'helwan')
```

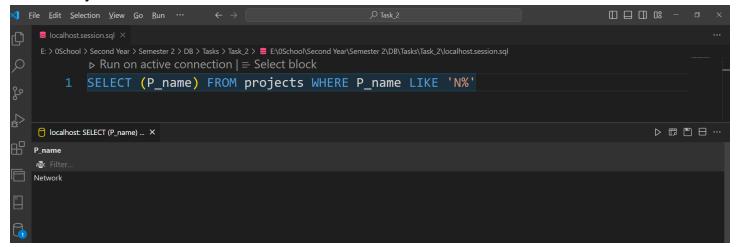


3. Insert values into two tables.

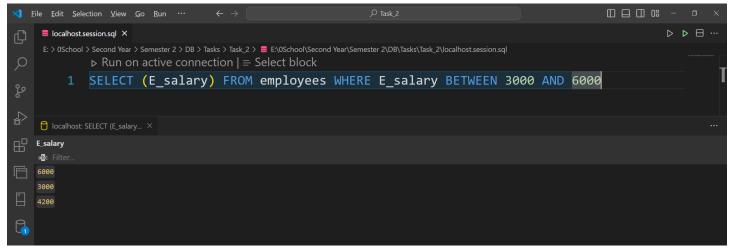




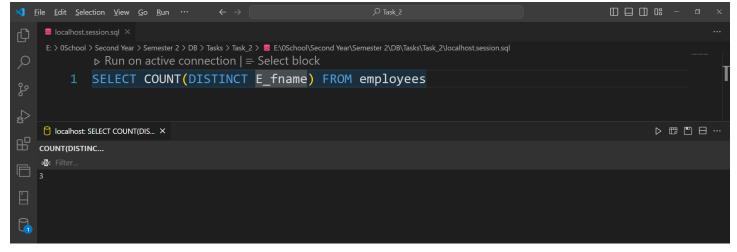
4. Select Project name start with N.



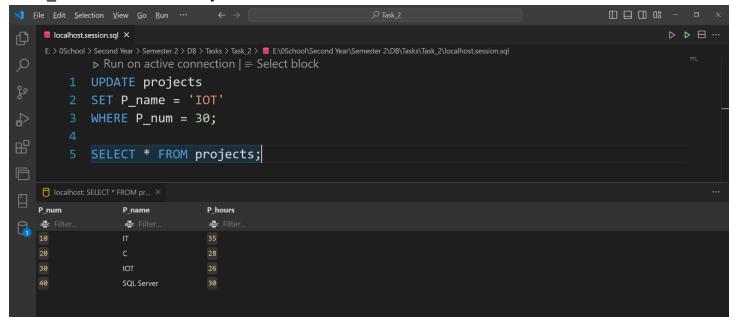
5. Select employee salary from 3000 to 6000.



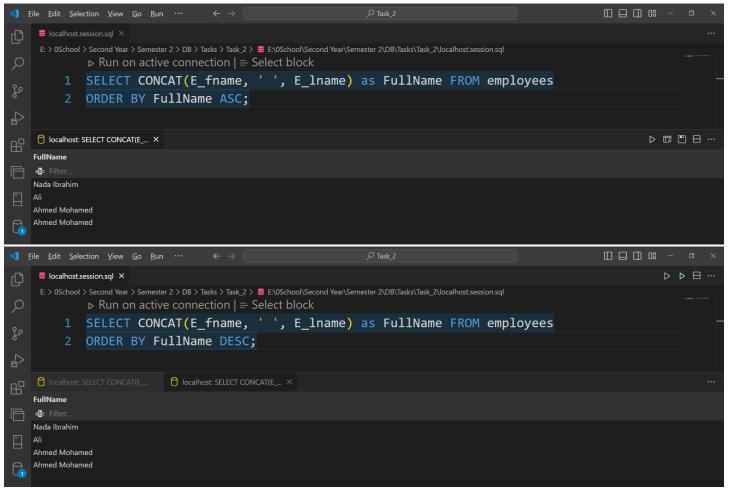
6. Select number of Employees without repeated name.



7. Set P name = IOT with Project number 30.



8. Select full name of employees sorting then descending.



9. Select P_name of maximum hours and E_name that works on it.

```
1 SELECT P_name, P_hours, E_fname FROM employees
2 JOIN projects
3 ON employees.P_number = projects.P_num AND projects.P_hours = (SELECT max(projects.p_hours) FROM projects)
```

