**Assignment 3**

* **Creating Database**

CREATE DATABASE emp\_dep\_db;

* **Creating Tables**
  1. Employee

CREATE TABLE employee(

emp\_id INT PRIMARY KEY,

dept\_id INT,

mngr\_id INT,

emp\_name VARCHAR(30),

salary INT

FOREIGN KEY (dept\_id) REFERENCES department(dept\_id)

);

* 1. Department

CREATE TABLE department(

dept\_id INT PRIMARY KEY,

dept\_name VARCHAR(20) NOT NULL

);

* **Queries**

1)

SELECT E.emp\_id, E.emp\_name, E.salary, D.\*

FROM employee E

JOIN department D

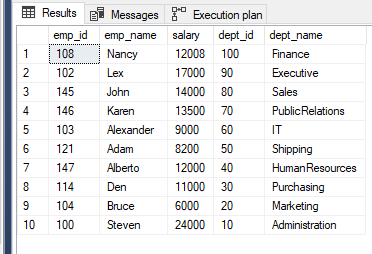
ON D.dept\_id = E.dept\_id

JOIN (SELECT dept\_id, MAX(salary) AS salary

FROM employee

GROUP BY dept\_id) AS mx

ON mx.dept\_id = E.dept\_id AND mx.salary = E.salary



2)

SELECT COUNT(\*) AS 'count', D.dept\_name

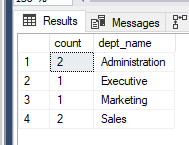
FROM department D

LEFT JOIN employee E

ON D.dept\_id = E.dept\_id

Group by E.dept\_id, D.dept\_name

HAVING COUNT(\*) < 3



3)

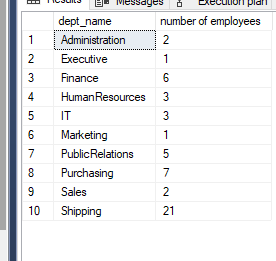
SELECT D.dept\_name, COUNT(\*) AS 'number of employees'

FROM department D

LEFT JOIN employee E

ON E.dept\_id = D.dept\_id

GROUP BY D.dept\_name;



4)

SELECT D.dept\_name, SUM(E.salary) AS 'total salary'

FROM department D

LEFT JOIN employee E

ON E.dept\_id = D.dept\_id

GROUP BY D.dept\_name;

