CREATE DATABASE Assignment3;

USE Assignment3;

CREATE TABLE department(

dept\_id INT PRIMARY KEY IDENTITY(1,1),

dept\_name nvarchar(20)

);

CREATE TABLE employee (

emp\_id INT PRIMARY KEY IDENTITY(1,1),

dept\_id INT ,

mngr\_id INT ,

emp\_name NVARCHAR(20),

salary INT,

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

);

INSERT INTO department (dept\_name) values ('SALES'),('MANAGEMENT'),('IT'),('NETWORK');

INSERT INTO employee (dept\_id,mngr\_id,emp\_name,salary) values

(1,5,'Bhargav Trivedi',20000),

(1,4,'Umang Gohel',40000),

(3,2,'Paras Gediya',50000),

(3,1,'Hardik Mer',35000),

(4,1,'Sagar Mer',35000),

(4,1,'Bhumika Shah',70000),

(2,1,'Eric Shah',32000);

--1. write a SQL query to find Employees who have the biggest salary in their Department

SELECT e.emp\_name,e.salary,d.dept\_name

FROM employee as e

INNER JOIN department as d

ON e.dept\_id=d.dept\_id

WHERE (e.dept\_id) in (

SELECT d.dept\_id

FROM Department as d

INNER JOIN employee e

ON d.dept\_id=e.dept\_id

GROUP BY d.dept\_id

)

AND(e.salary) in (

SELECT MAX(e.salary)

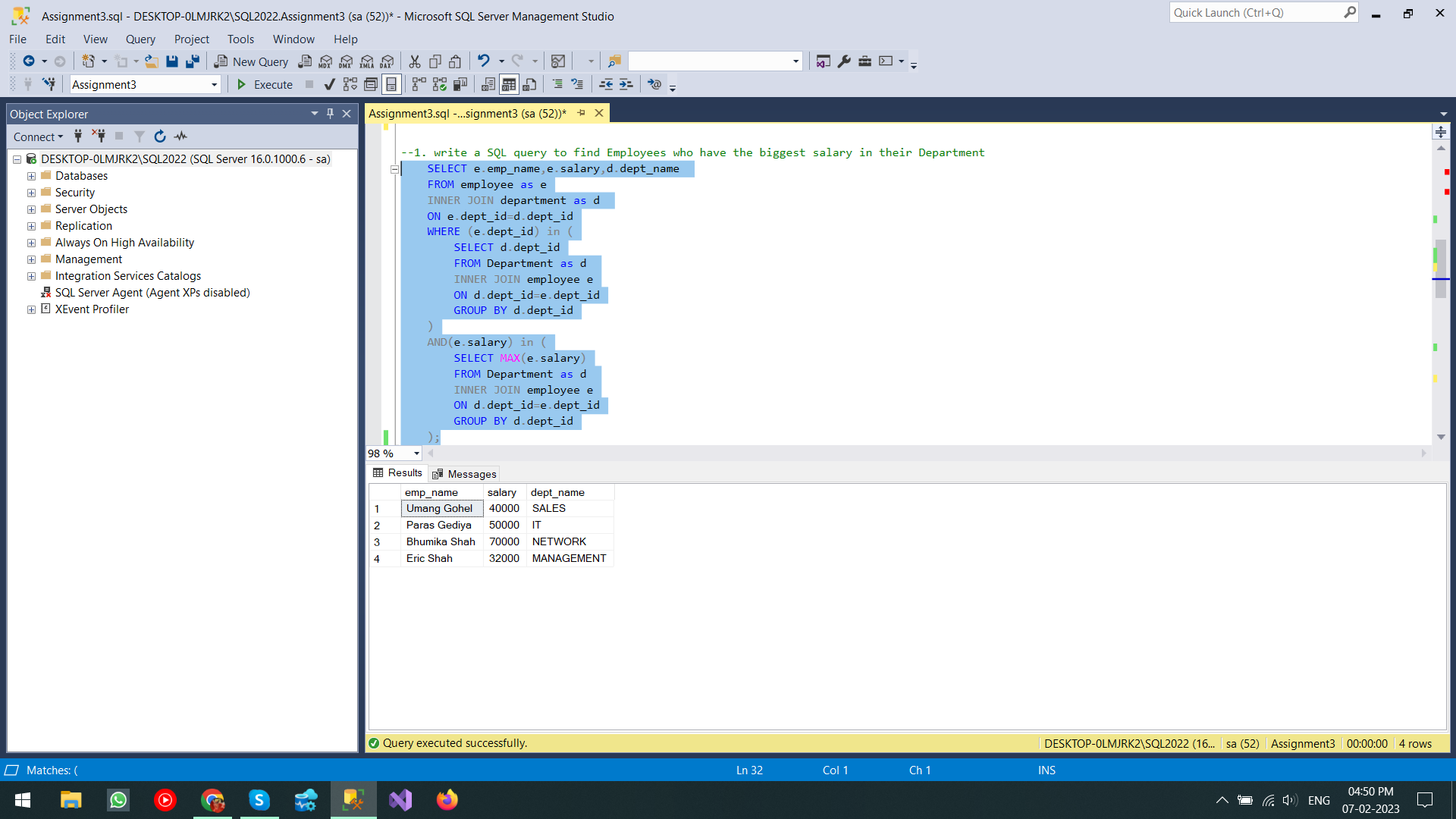
FROM Department as d

INNER JOIN employee e

ON d.dept\_id=e.dept\_id

GROUP BY d.dept\_id

);



--2. write a SQL query to find Departments that have less than 3 people in it

SELECT d.dept\_name,COUNT(e.emp\_id) from department as d

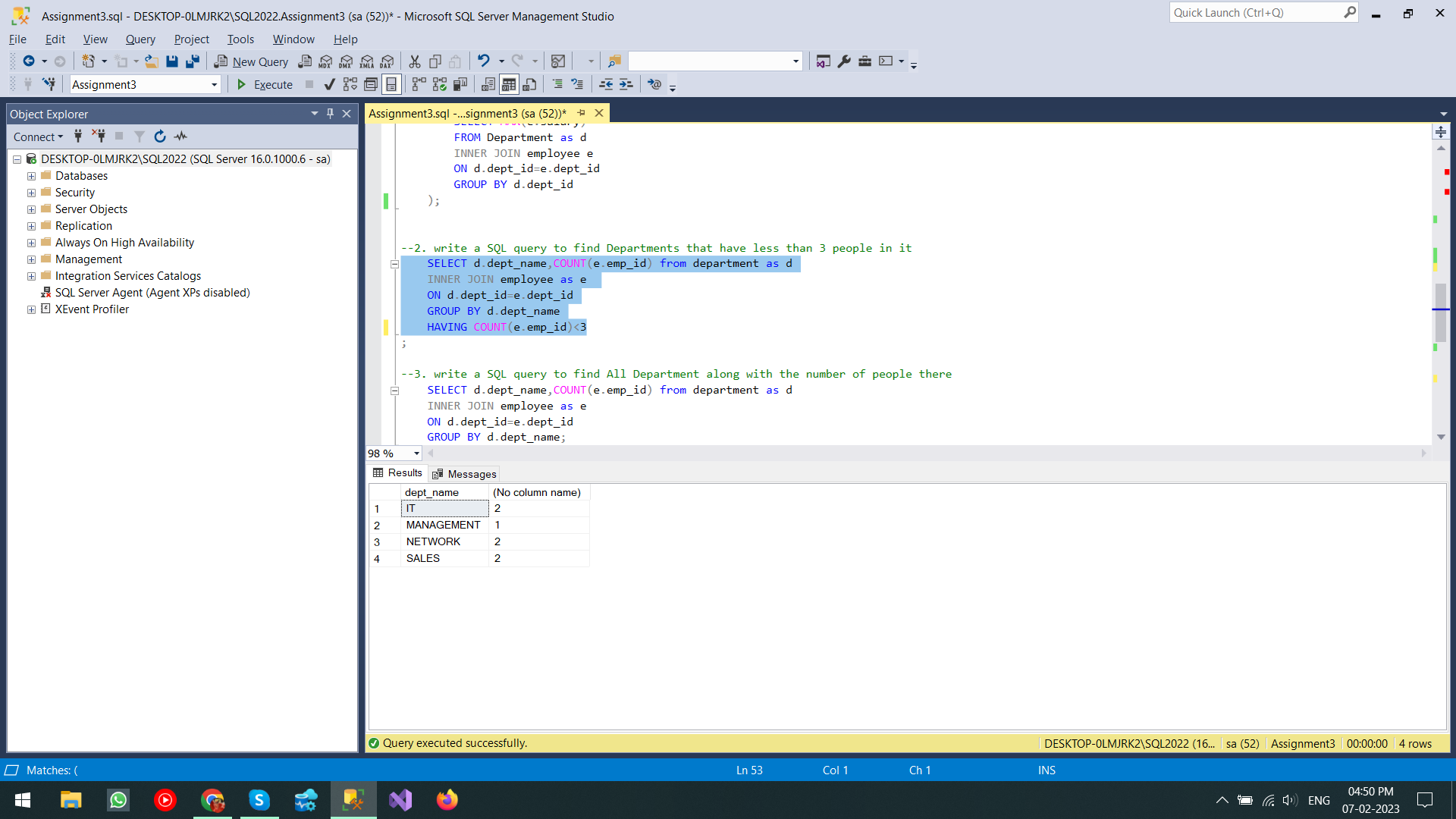
INNER JOIN employee as e

ON d.dept\_id=e.dept\_id

GROUP BY d.dept\_name

HAVING COUNT(e.emp\_id)<3

;



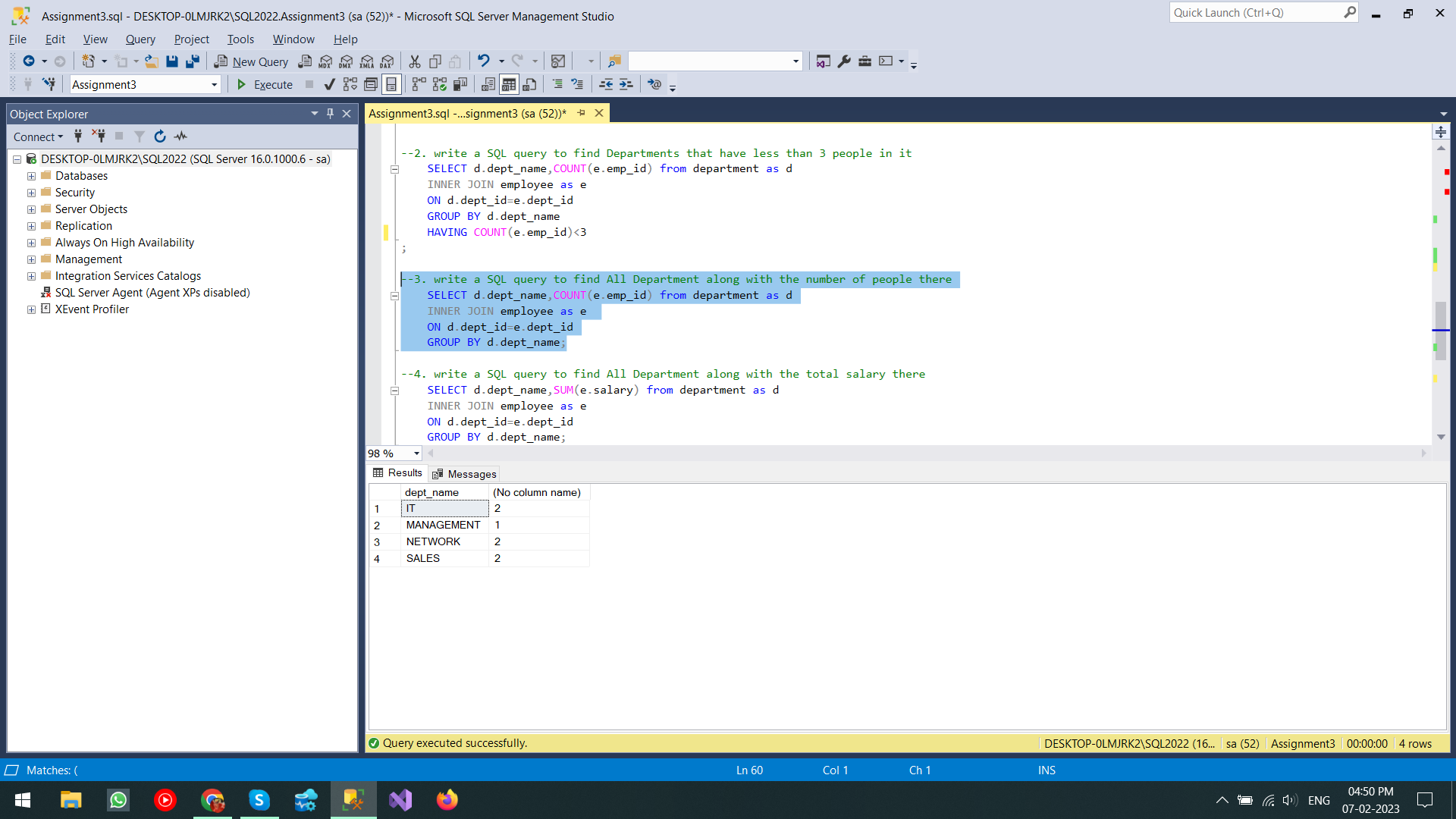
--3. write a SQL query to find All Department along with the number of people there

SELECT d.dept\_name,COUNT(e.emp\_id) from department as d

INNER JOIN employee as e

ON d.dept\_id=e.dept\_id

GROUP BY d.dept\_name;



--4. write a SQL query to find All Department along with the total salary there

SELECT d.dept\_name,SUM(e.salary) from department as d

INNER JOIN employee as e

ON d.dept\_id=e.dept\_id

GROUP BY d.dept\_name;

