**Assignment 3**

create database sales

Create Database DB3

CREATE TABLE Employee (emp\_id int ,emp\_name varchar(20) ,mngr\_id int,salary decimal(7,2),dept\_id int )

INSERT INTO Employee VALUES

(7369, 'SMITH', 7902, 800.00, 10),

(7499, 'ALLEN', 7698, 1600.00, 30),

(7521, 'WARD', 7698, 1250.00, 30),

(7566, 'JONES', 7839, 2975.00, 20),

(7654, 'MARTIN', 7698, 1250.00, 30),

(7698, 'BLAKE', 7839, 2850.00, 30),

(7782, 'CLARK', 7839, 2450.00, 10),

(7788, 'SCOTT', 7566, 3000.00, 20),

(7839, 'KING', NULL, 5000.00, 10),

(7844, 'TURNER', 7698, 1500.00, 30),

(7876, 'ADAMS', 7788, 1100.00, 20),

(7900, 'JAMES', 7698, 950.00, 30),

(7902, 'FORD', 7566, 3000.00, 20),

(7934, 'MILLER', 7782, 1300.00, 10);

CREATE TABLE Department (dept\_id INT PRIMARY KEY ,dept\_name varchar(30));

INSERT INTO Department VALUES (10,'ACCOUNTING'),

(20,'RESEARCH'),

(30,'SALES'),

(40,'OPERATIONS');

Select \* from Department

Select \* from Employee

ALTER TABLE Employee ALTER COLUMN emp\_id int NOT NULL;

ALter table Employee ADD Constraint PK\_Employee\_emp\_id Primary Key (emp\_id)

Alter Table Employee ADD CONSTRAINT FK\_dept\_id Foreign Key (dept\_id) references Department(dept\_id);

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

select e.emp\_name,d.dept\_name,d.dept\_id,isnull(e.salary,0) from employee e right join Department d on e.dept\_id = d.dept\_id

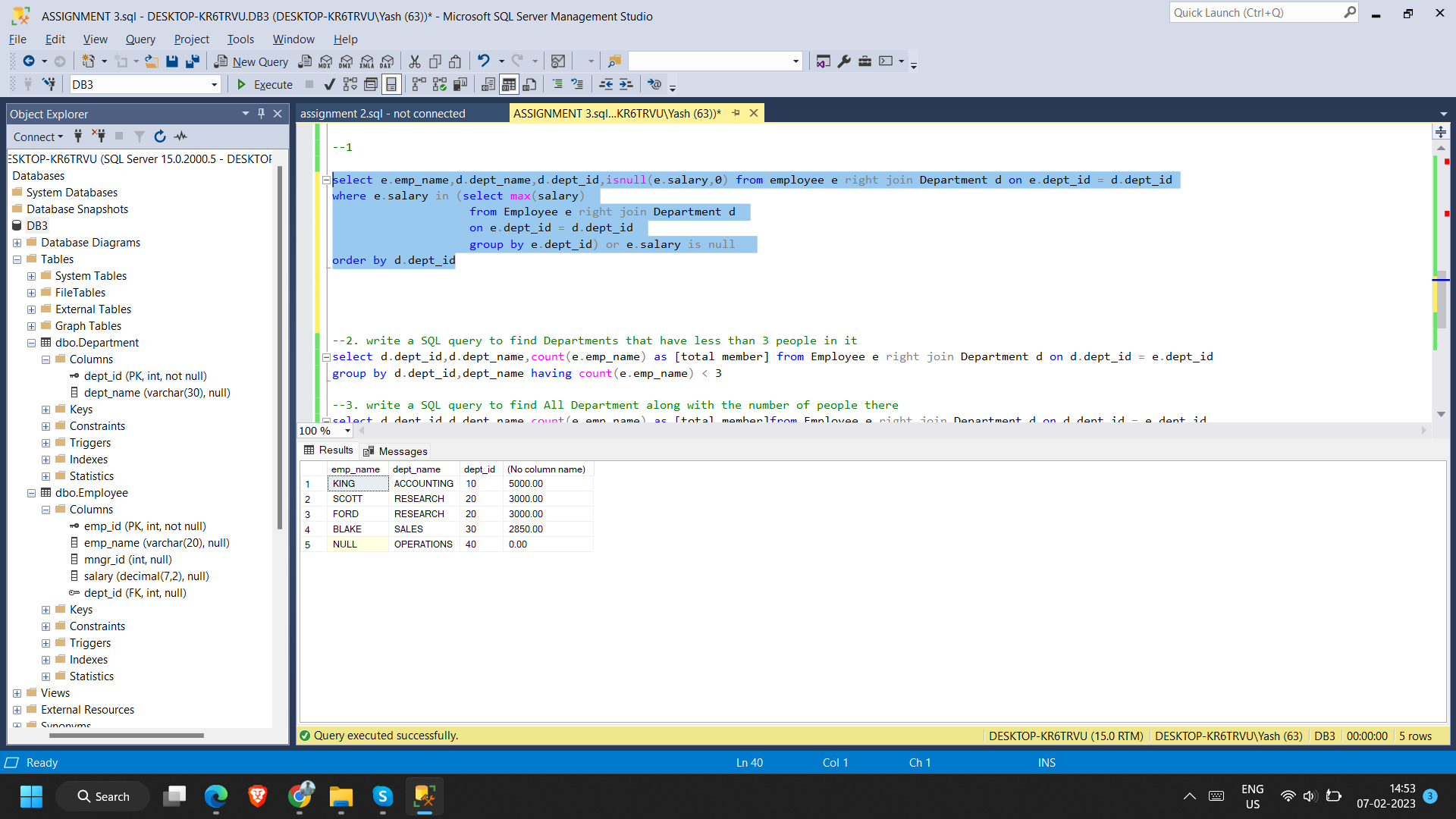
where e.salary in (select max(salary)

from Employee e right join Department d

on e.dept\_id = d.dept\_id

group by e.dept\_id) or e.salary is null

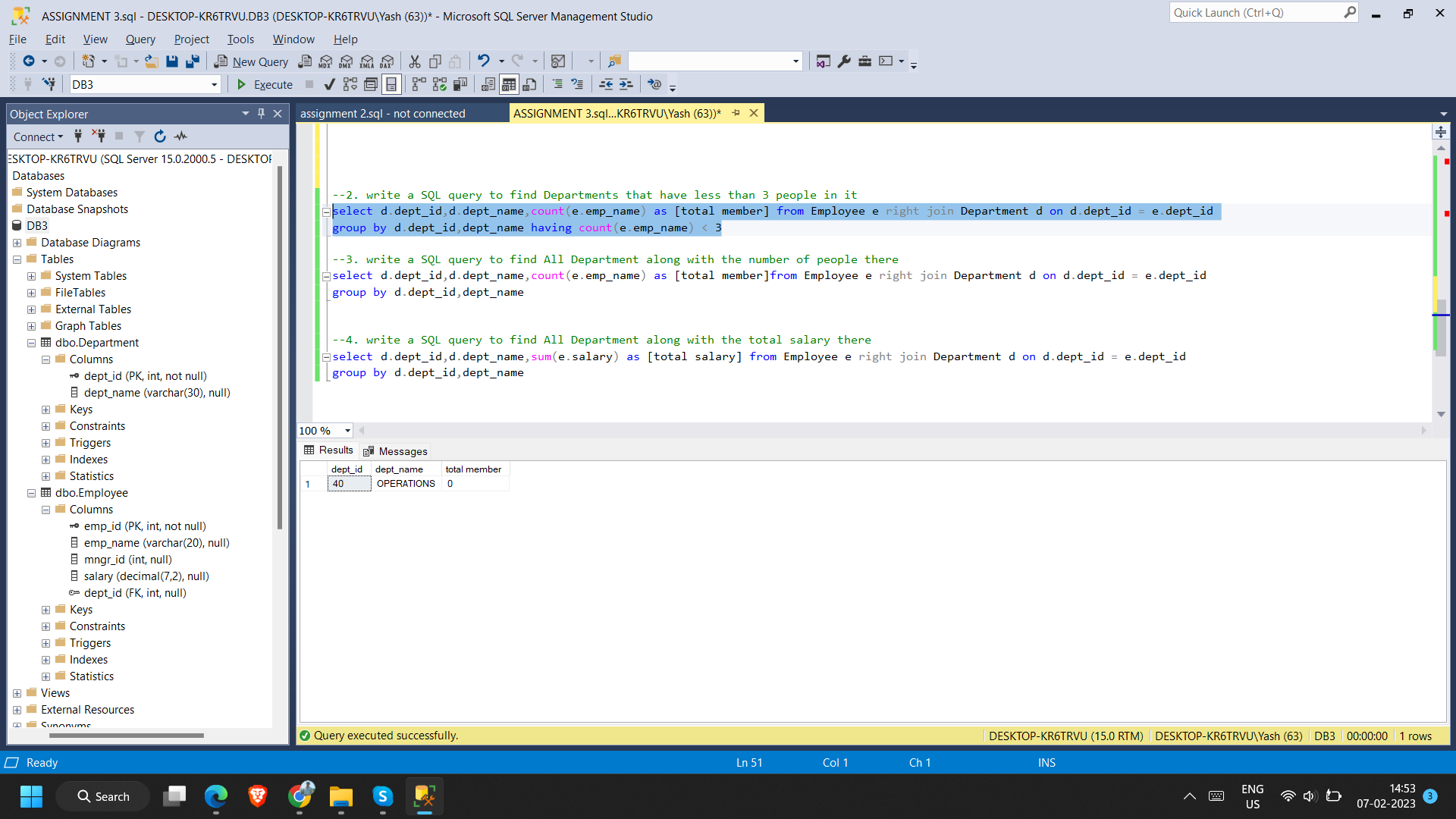
order by d.dept\_id



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

select d.dept\_id,d.dept\_name,count(e.emp\_name) as [total member] from Employee e right join Department d on d.dept\_id = e.dept\_id

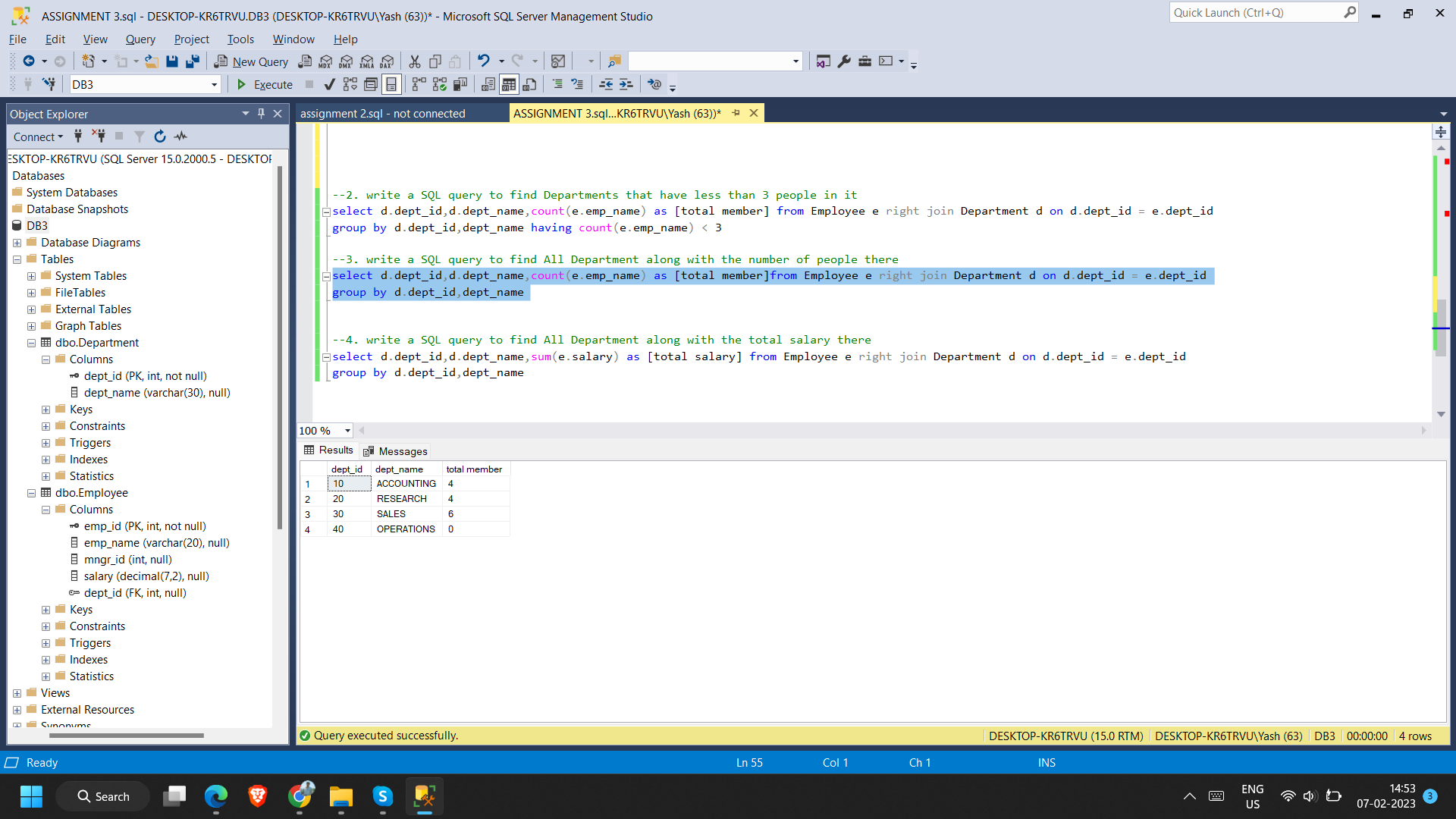
group by d.dept\_id,dept\_name having count(e.emp\_name) < 3



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

select d.dept\_id,d.dept\_name,count(e.emp\_name) as [total member]from Employee e right join Department d on d.dept\_id = e.dept\_id

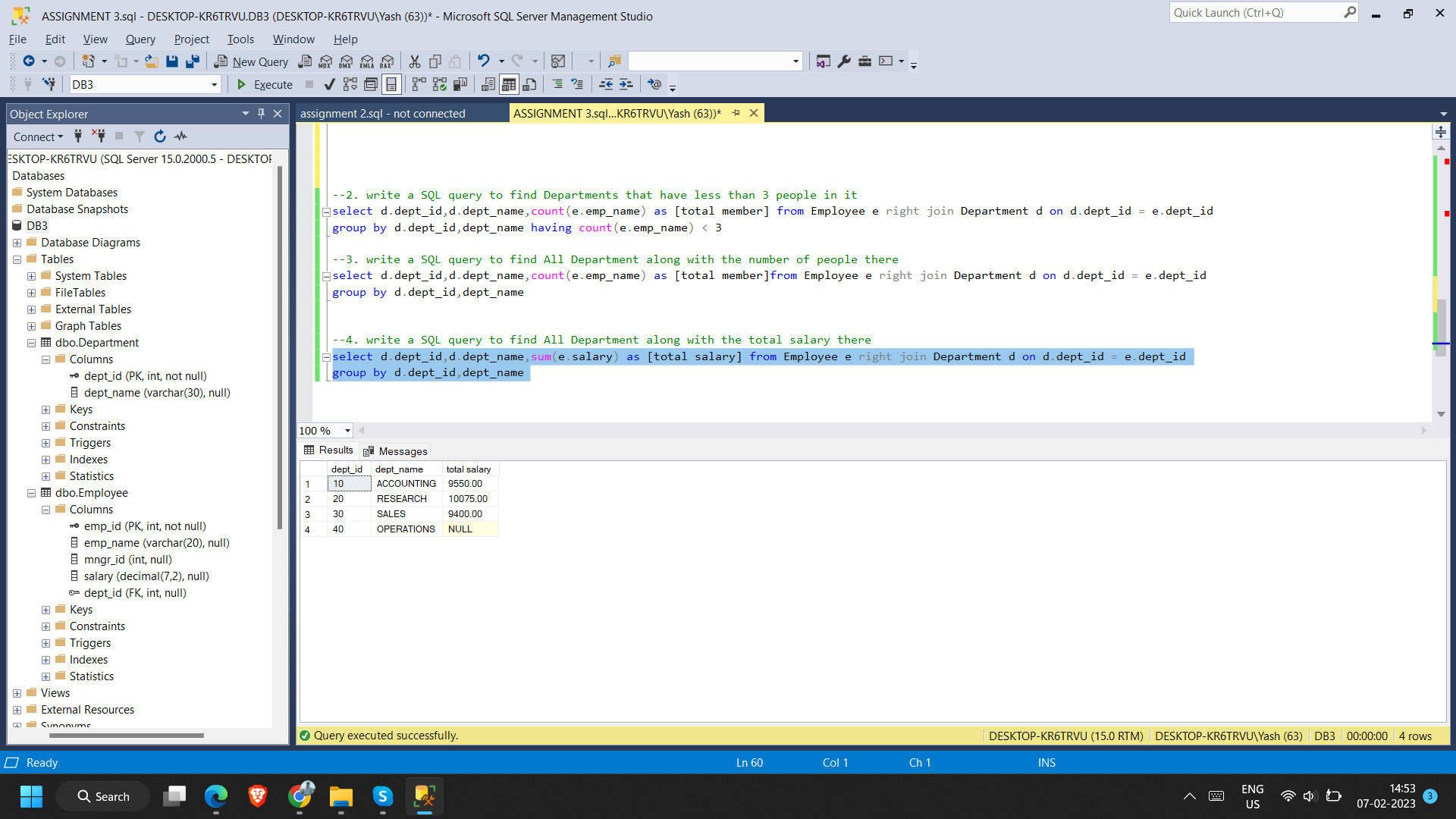
group by d.dept\_id,dept\_name

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1. **write a SQL query to find All Department along with the total salary there**

select d.dept\_id,d.dept\_name,sum(e.salary) as [total salary] from Employee e right join Department d on d.dept\_id = e.dept\_id

group by d.dept\_id,dept\_name

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