**SQL**

**ASSIGNMENT 3**

**Assignment 3 : Retrieve data using Group By clause**

Sample table1: Department

-dept\_id

-dept\_name

Sample table2: Employee

-emp\_id

-dept\_id

-mngr\_id

-emp\_name

-salary

**Create Table --->**

use [Northwind]

go

create table Department(

dept\_id int primary key,

dept\_name varchar(50),

);

create table Employee (

emp\_id int primary key,

dept\_id int,

mngr\_id int,

emp\_name varchar(50),

salary int,

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.DEPT\_ID,e.EMP\_NAME,MAX(e.salary) MAX\_SALARY

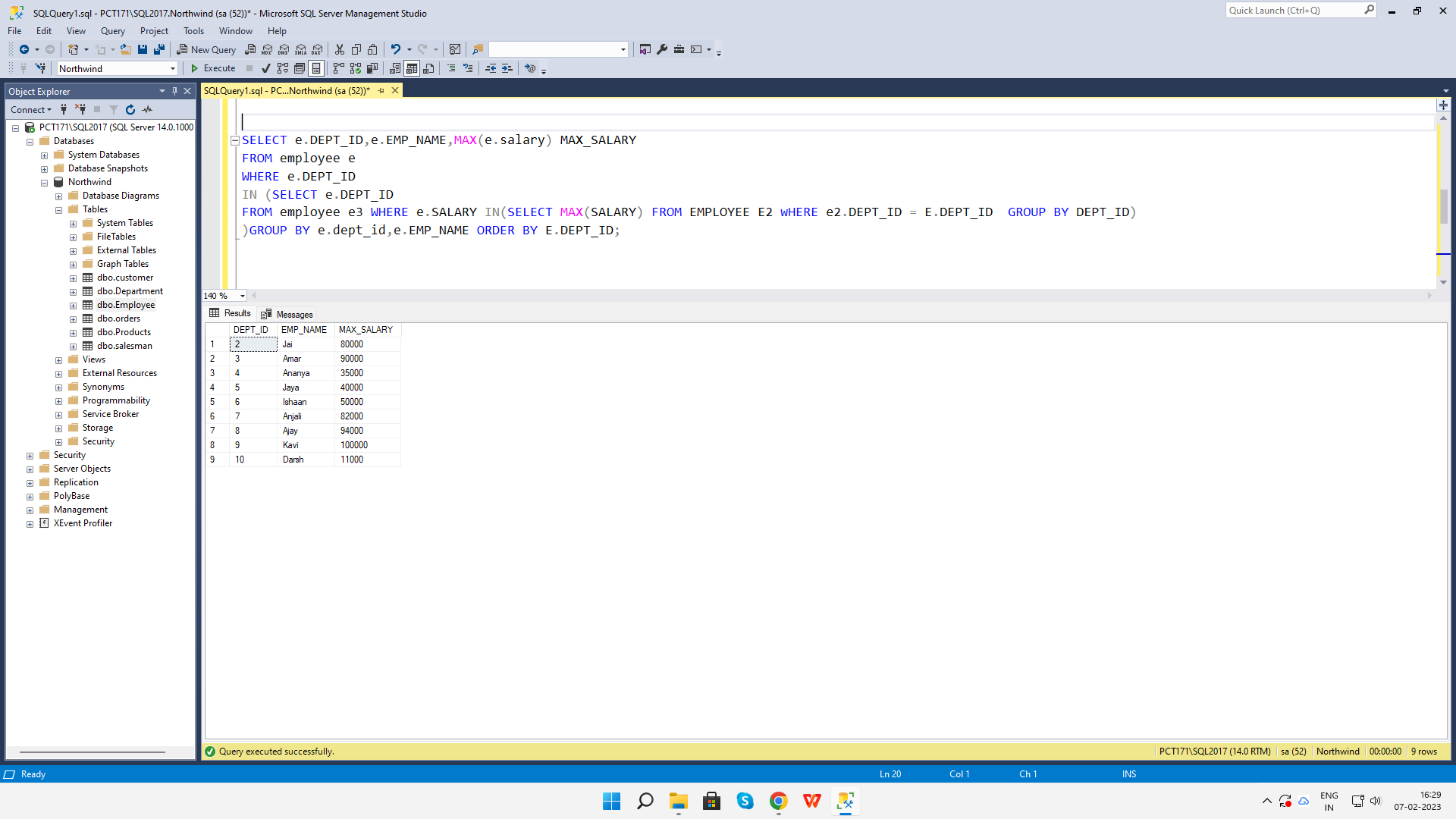
FROM employee e

WHERE e.DEPT\_ID

IN (SELECT e.DEPT\_ID

FROM employee e3 WHERE e.SALARY IN(SELECT MAX(SALARY) FROM EMPLOYEE E2 wHERE e2.DEPT\_ID = E.DEPT\_ID GROUP BY DEPT\_ID)

)GROUP BY e.dept\_id,e.EMP\_NAME ORDER BY E.DEPT\_ID;



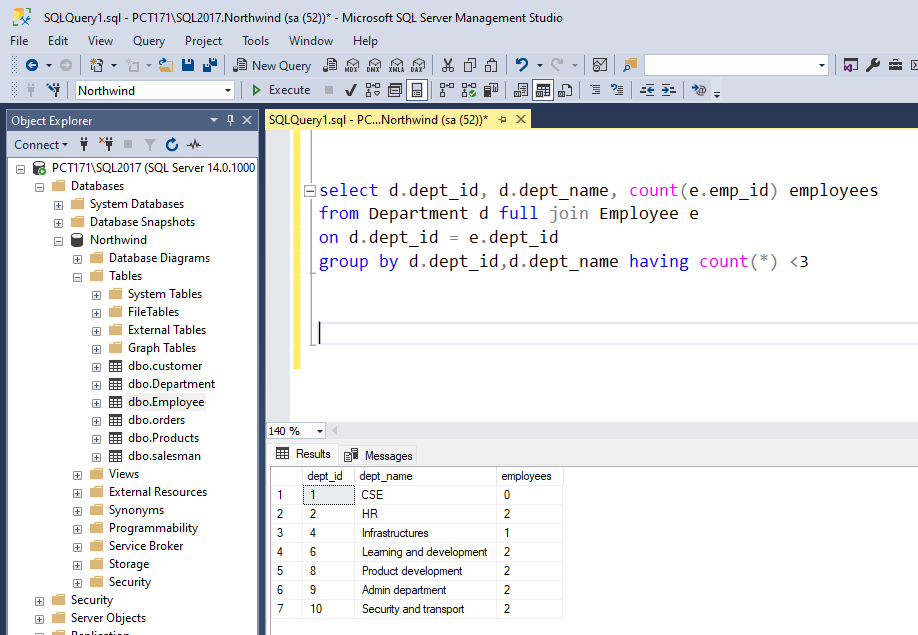
**2. write a SQL query to find Departments that have less than 3 people in it**

select d.dept\_id, d.dept\_name, count(e.emp\_id) employees

from Department d full join Employee e

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

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



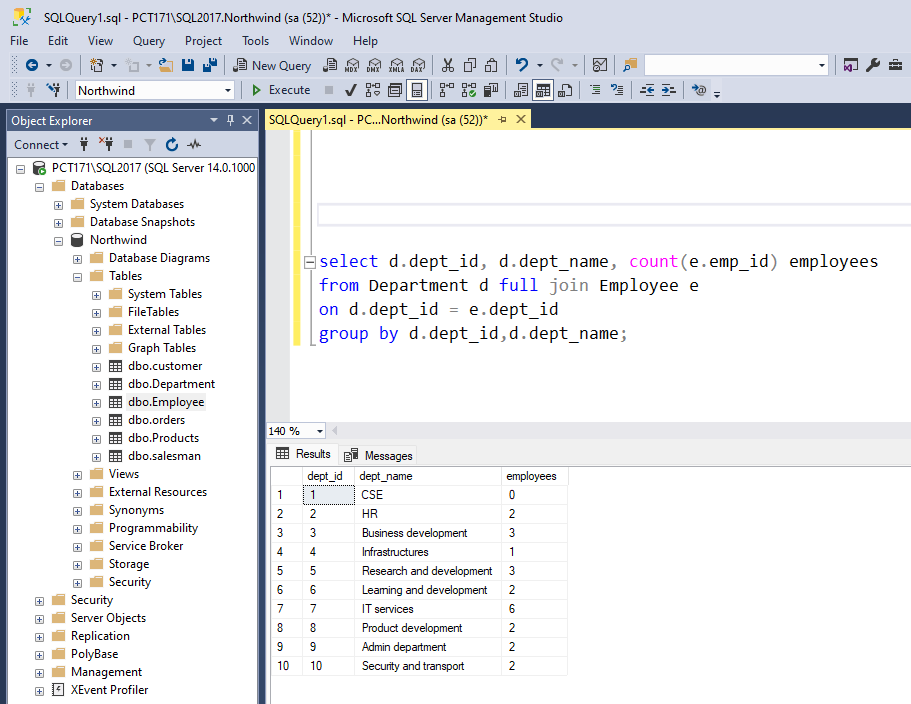
1. **write a SQL query to find All Department along with the number of people there**

select d.dept\_id, d.dept\_name, count(e.emp\_id) employees

from Department d full join Employee e

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

group by d.dept\_id,d.dept\_name;



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

select d.dept\_id, d.dept\_name, isnull(sum(e.salary), 0) Total\_salary

from Department d full join Employee e

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

group by d.dept\_id,d.dept\_name;

