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

**Sample table1:Department**

create table Department(

dept\_id int not null primary key,

dept\_name nvarchar(50) not null)

INSERT INTO Department VALUES (101,'PRODUCTION')

INSERT INTO Department VALUES (102,'FINANCE')

INSERT INTO Department VALUES (103,'MARKETING')

INSERT INTO Department VALUES (104,'ACCOUNTING')

**Sample table2: Employee**

create table Employee(

emp\_id int not null primary key,

dept\_id int not null foreign key(dept\_id) references Department(dept\_id),

mngr\_id int not null,

emp\_name nvarchar(50) not null,

salary money not null)

INSERT INTO Employee VALUES (1,102,2,'VIKAS',8000)

INSERT INTO Employee VALUES (2,103,3,'VIJAY',15000)

INSERT INTO Employee VALUES (3,104,5,'RAJ',11500)

INSERT INTO Employee VALUES (4,102,2,'JOSH',3000)

INSERT INTO Employee VALUES (5,103,4,'PARTH',10000)

INSERT INTO Employee VALUES (6,103,4,'SMEET',28000)

INSERT INTO Employee VALUES (7,101,1,'VIMAL',25500)

INSERT INTO Employee VALUES (8,102,2,'VISVAS',7000)

INSERT INTO Employee VALUES (9,101,1,'PRAKASH',12850)

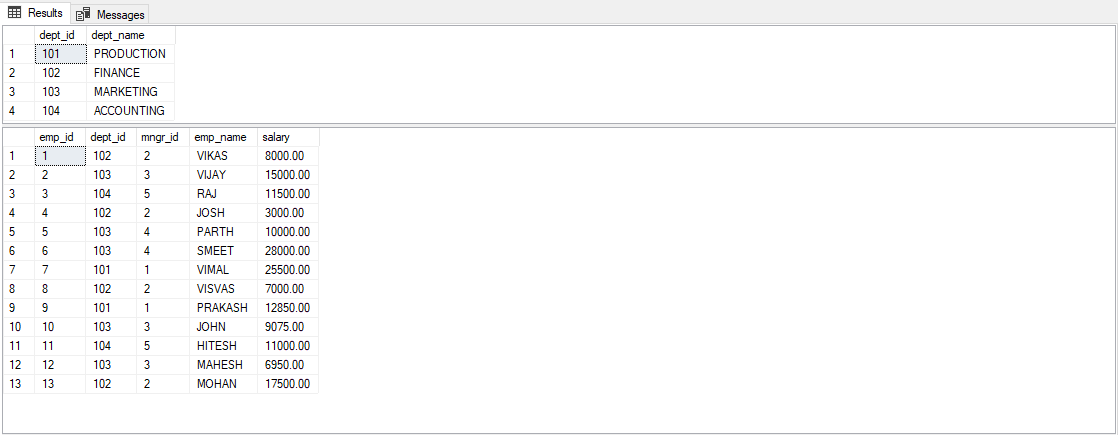
INSERT INTO Employee VALUES (10,103,3,'JOHN',9075)

INSERT INTO Employee VALUES (11,104,5,'HITESH',11000)

INSERT INTO Employee VALUES (12,103,3,'MAHESH',6950)

INSERT INTO Employee VALUES (13,102,2,'MOHAN',17500)

INSERT INTO Employee VALUES (14,101,1,'KUSH',13500)



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

select emp\_name,maxsalemp.salary from Employee E

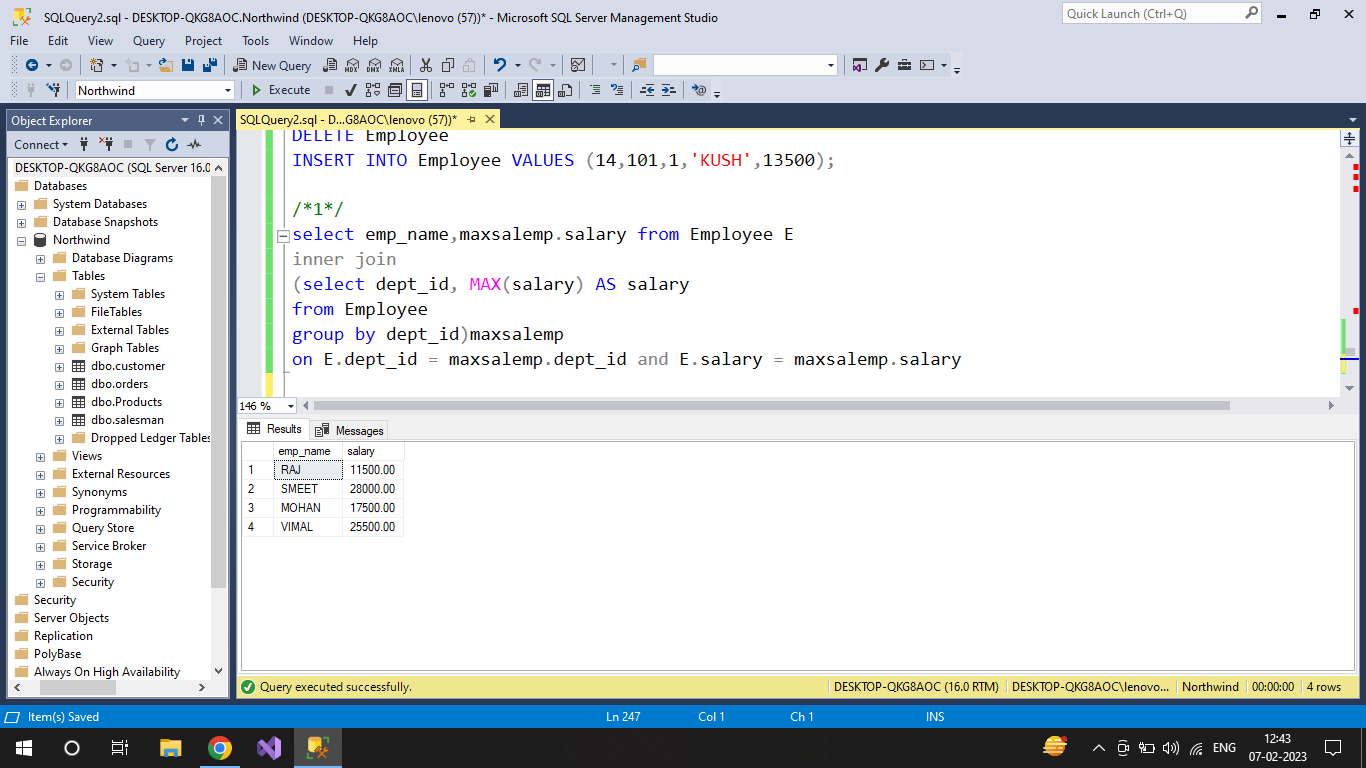
inner join

(select dept\_id, MAX(salary) AS salary

from Employee

group by dept\_id)maxsalemp

on E.dept\_id = maxsalemp.dept\_id and E.salary = maxsalemp.salary



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

select d.dept\_name, count(e.emp\_name) as employeno

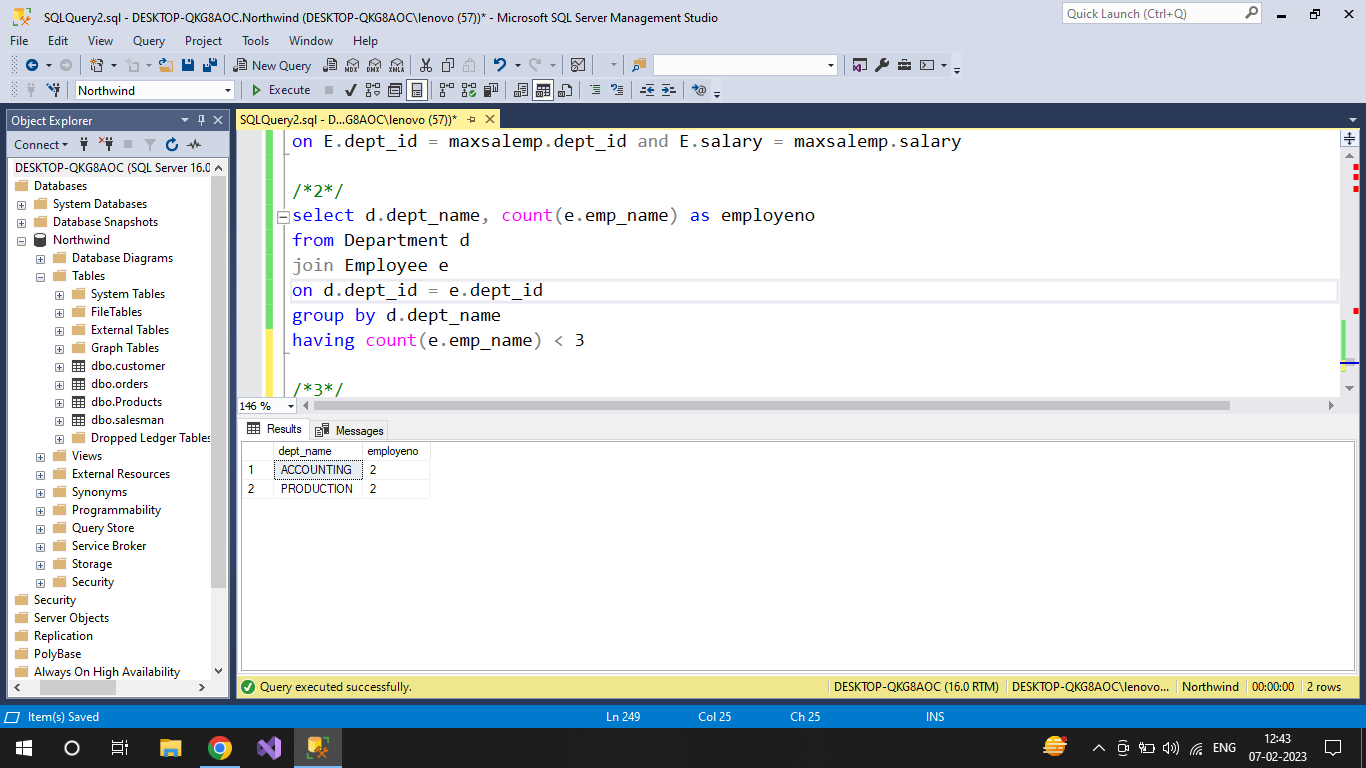
from Department d

join Employee e

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

group by d.dept\_name

having count(e.emp\_name) < 3



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

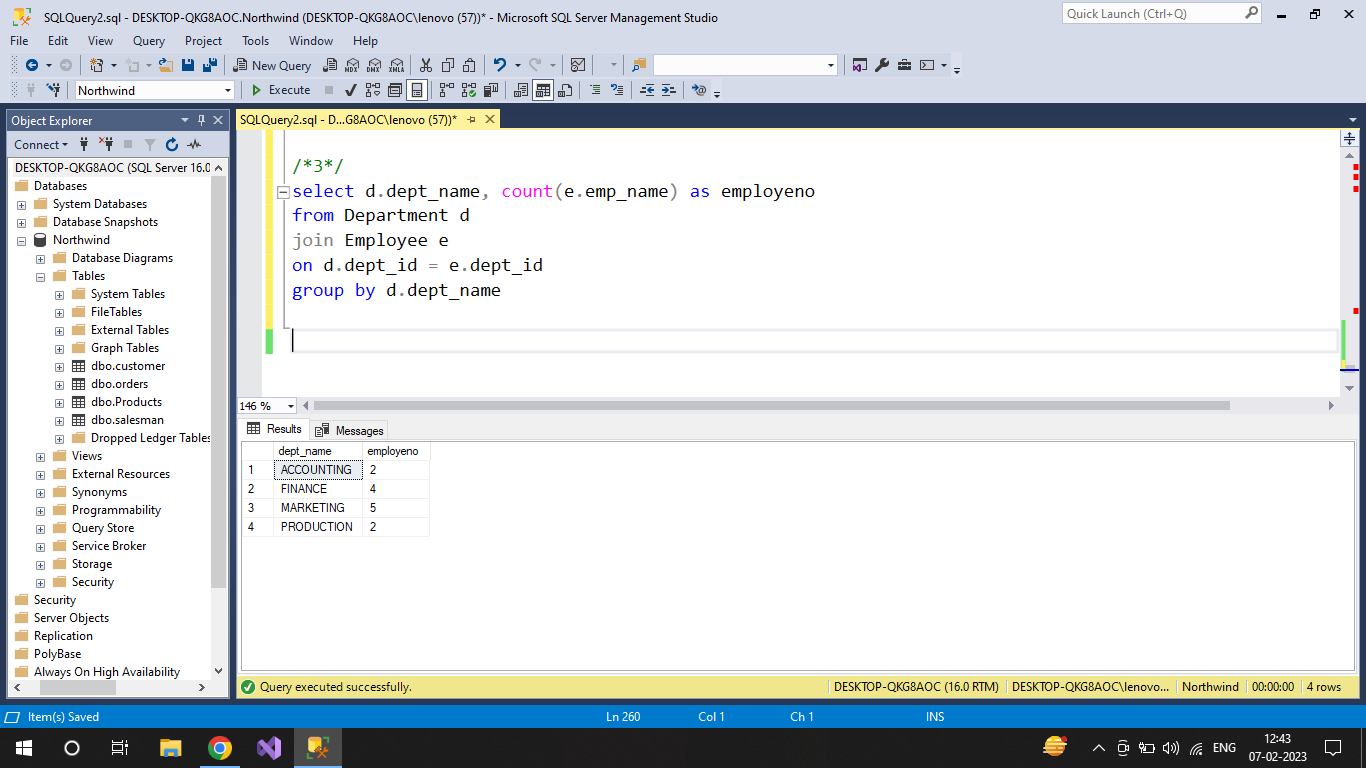
select d.dept\_name, count(e.emp\_name) as employeno

from Department d

join Employee 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) as totalsalary

from Department d

join Employee e

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

group by d.dept\_name

