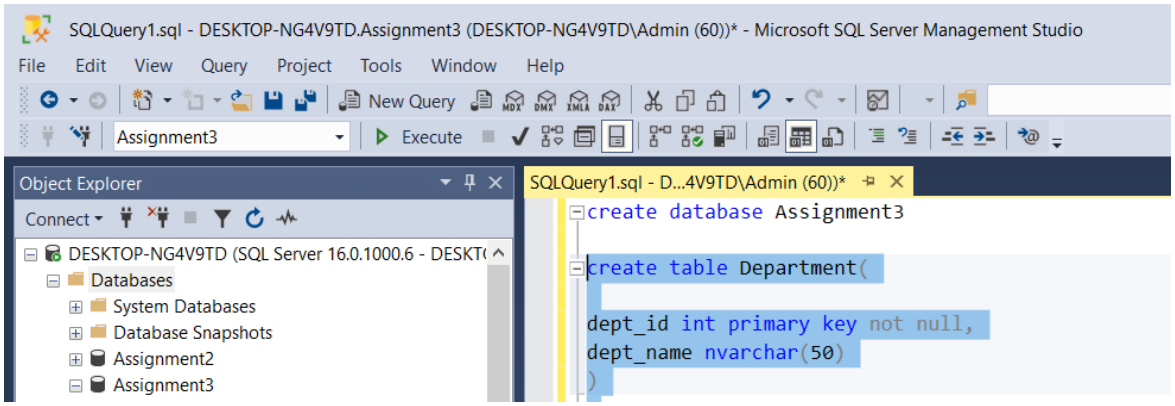
Assignment 3 : Retrieve data using Group By clause

Sample table1:Department

-dept_id

-dept_name



Sample table2: Employee

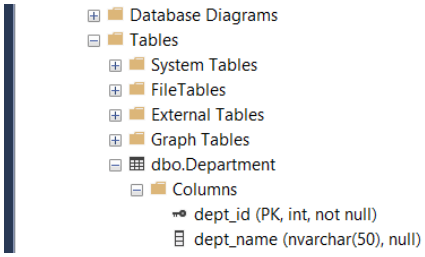
-emp_id

-dept_id

-mngr_id

-emp_name

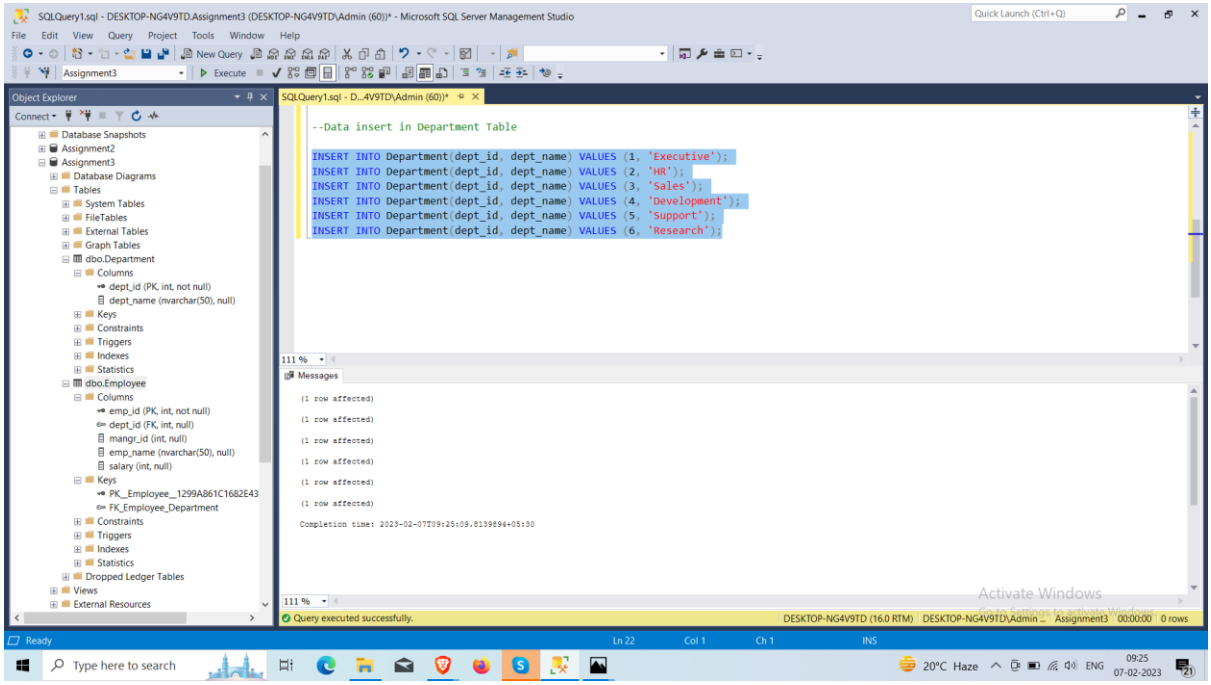
-salary

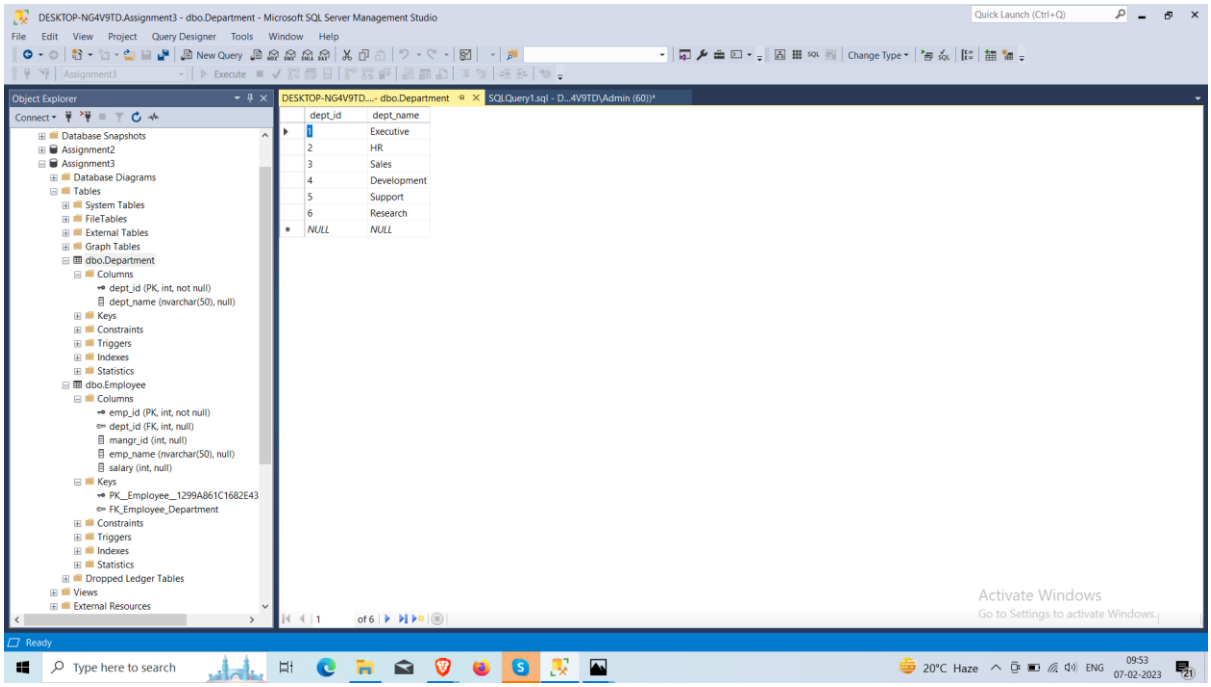



```
create table Employee(

emp_id int primary key not null,
dept_id int,
mangr_id int,
emp_name nvarchar(50),
salary int
)
```

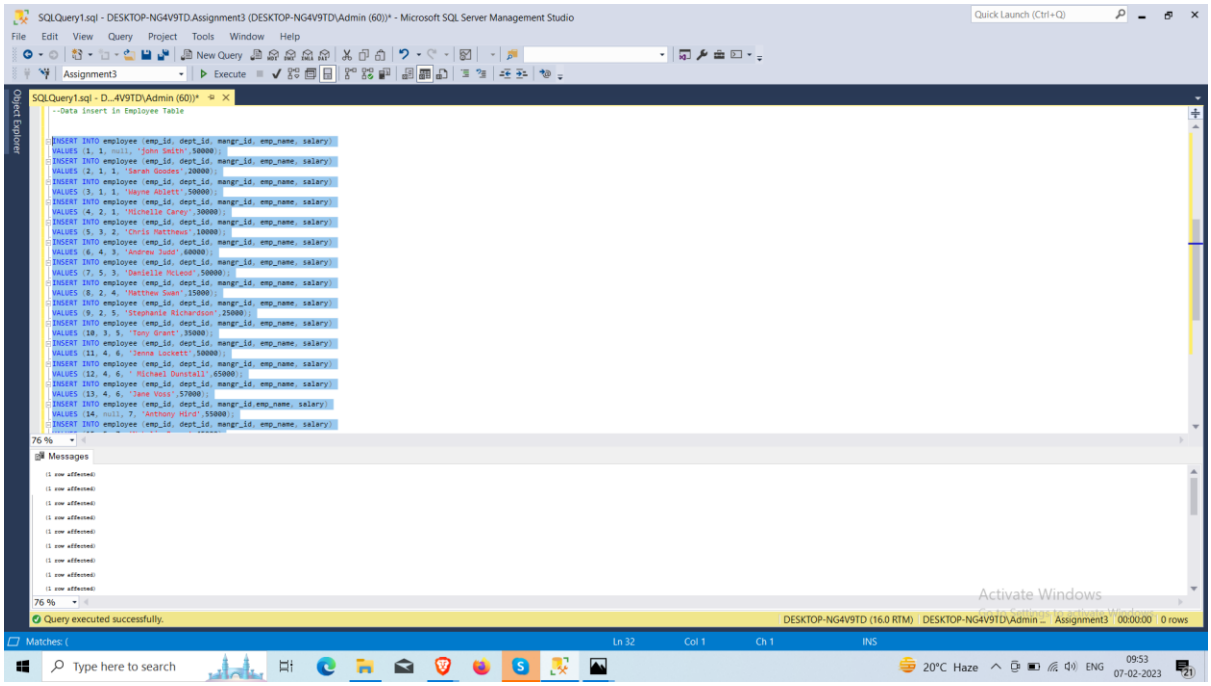
Insert data in table

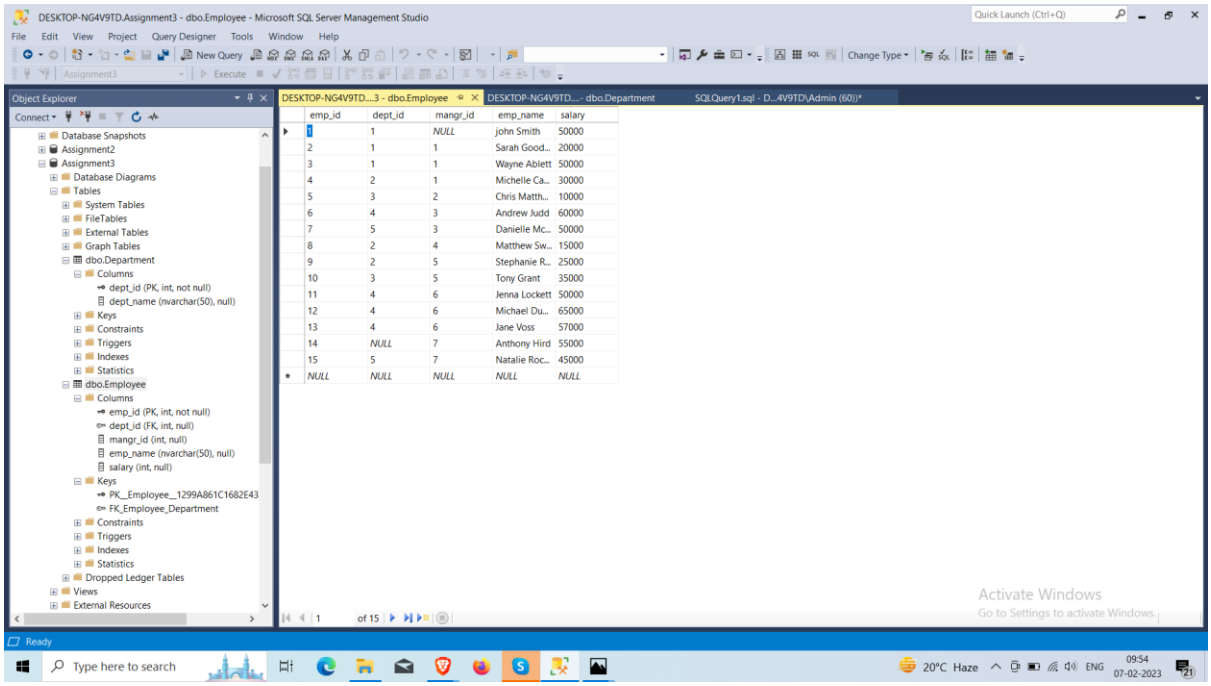
- **Table Department**





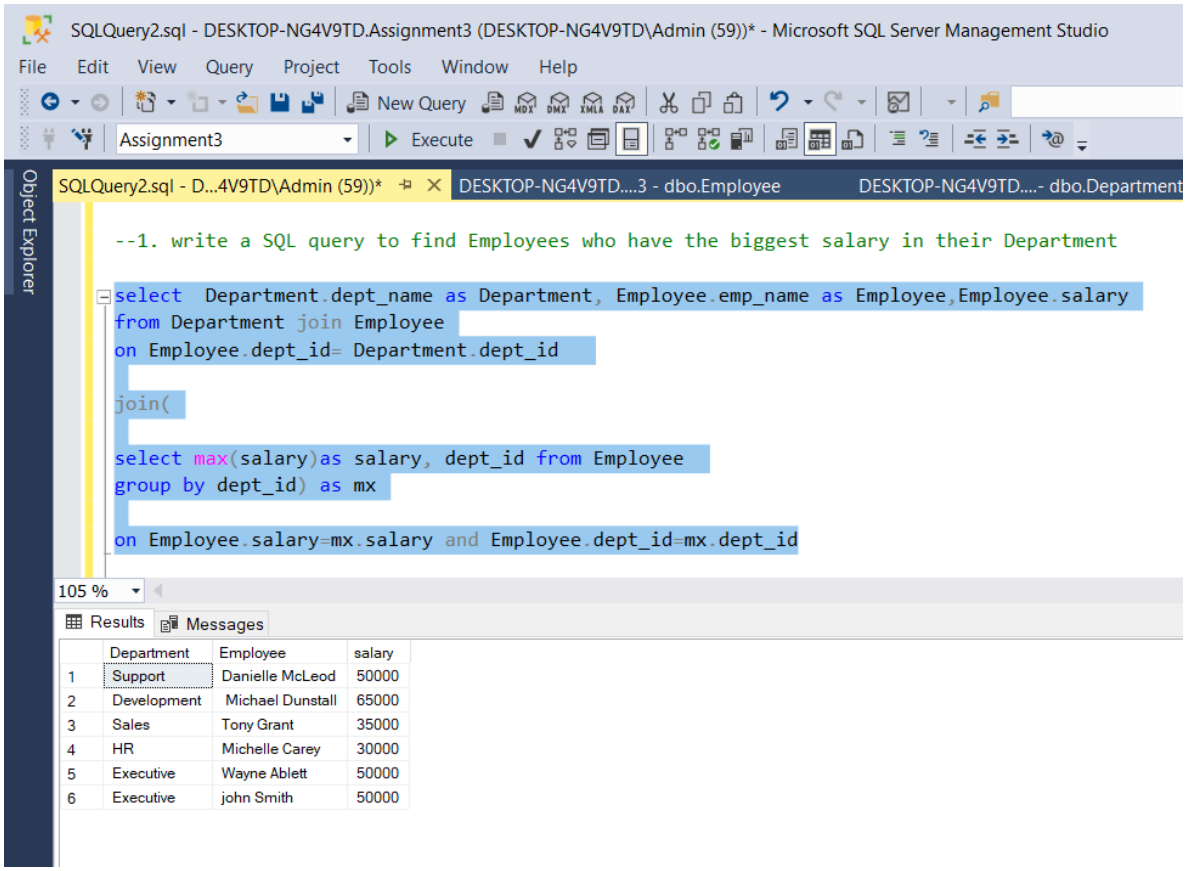
- **Table Emploay**





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

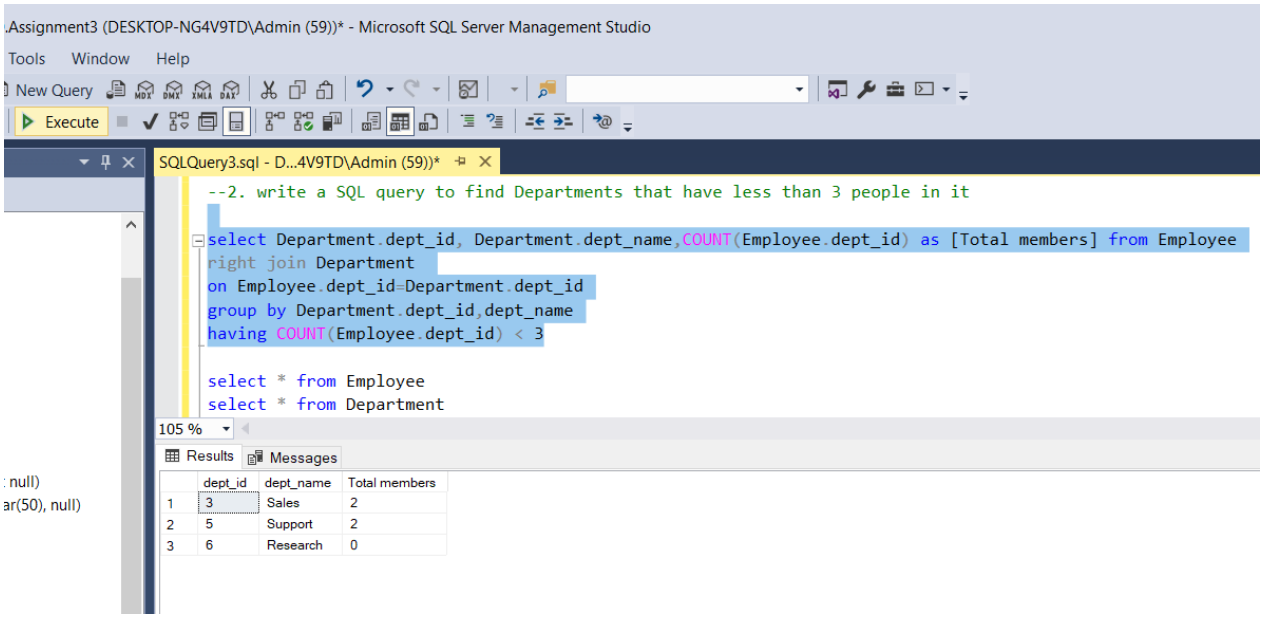
```
select  Department.dept_name as Department, Employee.emp_name as
Employee,Employee.salary
from Department join Employee
on Employee.dept_id= Department.dept_id

join(

select max(salary)as salary, dept_id from Employee
group by dept_id) as mx
on Employee.salary=mx.salary and Employee.dept_id=mx.dept_id
```



	Department	Employee	salary
1	Support	Danielle McLeod	50000
2	Development	Michael Dunstall	65000
3	Sales	Tony Grant	35000
4	HR	Michelle Carey	30000
5	Executive	Wayne Ablett	50000
6	Executive	john Smith	50000

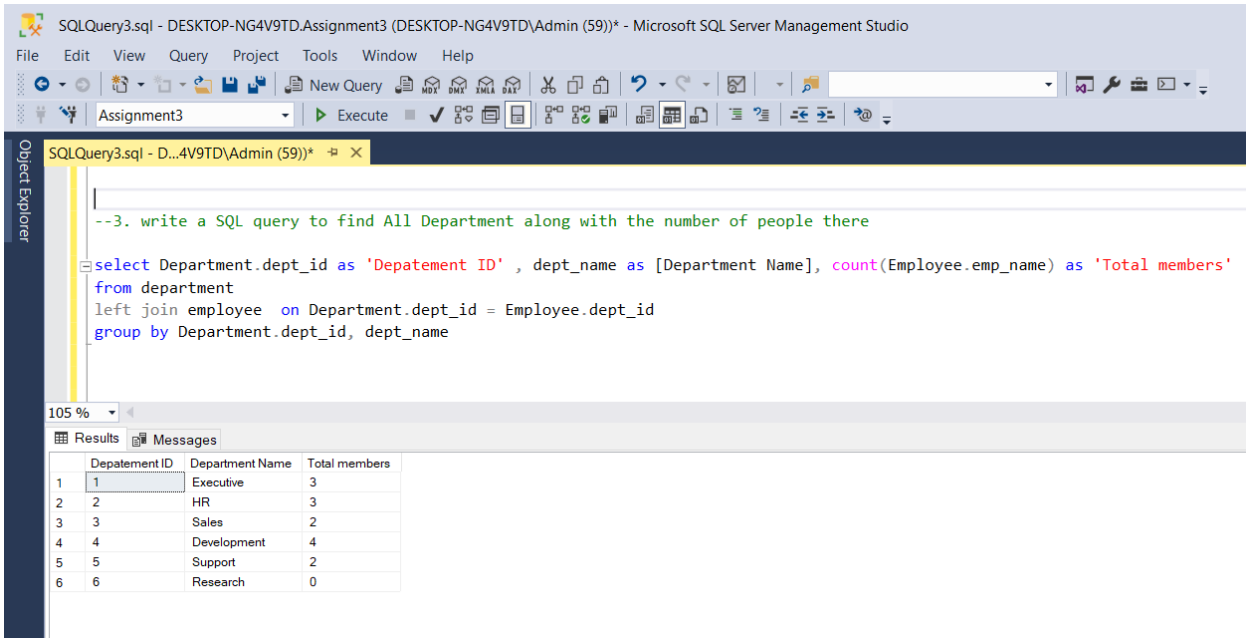
2. write a SQL query to find Departments that have less than 3 people in it

```
select Department.dept_id, Department.dept_name,COUNT(Employee.dept_id) as [Total members]
from Employee
right join Department
on Employee.dept_id=Department.dept_id
group by Department.dept_id,dept_name
having COUNT(Employee.dept_id) < 3
```



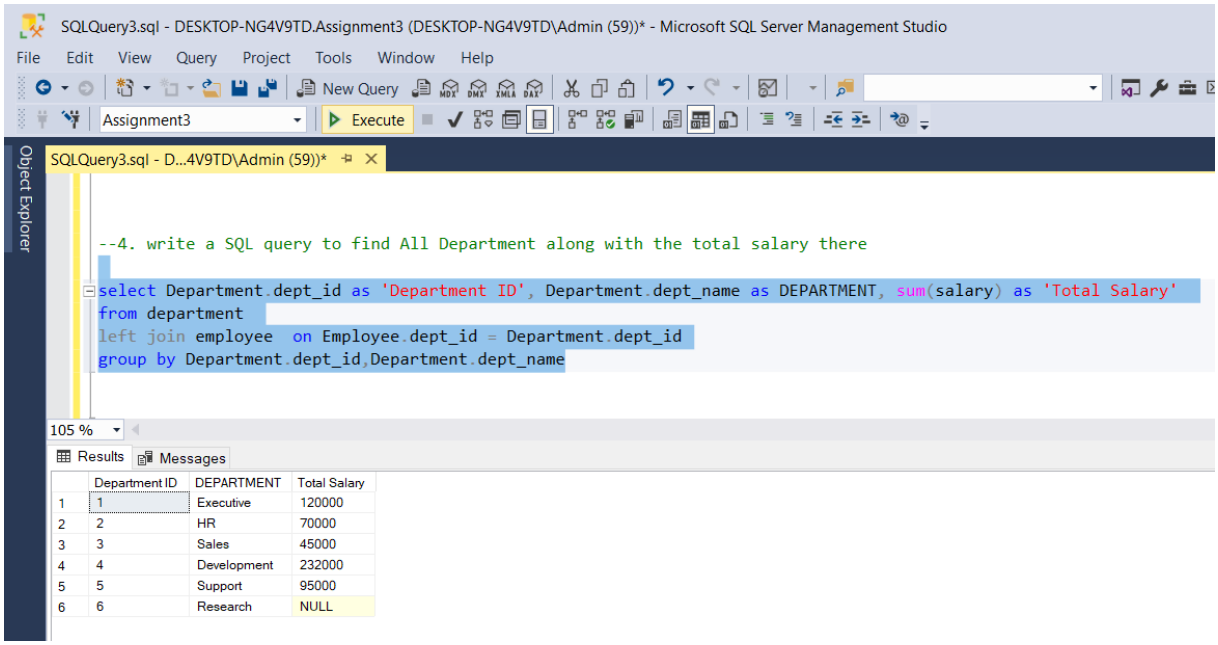
3. write a SQL query to find All Department along with the number of people there

```
select Department.dept_id as 'Depatement ID' , dept_name as [Department Name],
count(Employee.emp_name) as 'Total members'
from department
left join employee  on Department.dept_id = Employee.dept_id
group by Department.dept_id, dept_name
```



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

```
select Department.dept_id as 'Department ID', Department.dept_name as DEPARTMENT,
sum(salary) as 'Total Salary'
from department
left join employee  on Employee.dept_id = Department.dept_id
group by Department.dept_id,Department.dept_name
```



	Department ID	DEPARTMENT	Total Salary
1	1	Executive	120000
2	2	HR	70000
3	3	Sales	45000
4	4	Development	232000
5	5	Support	95000
6	6	Research	NULL