Assignment-3

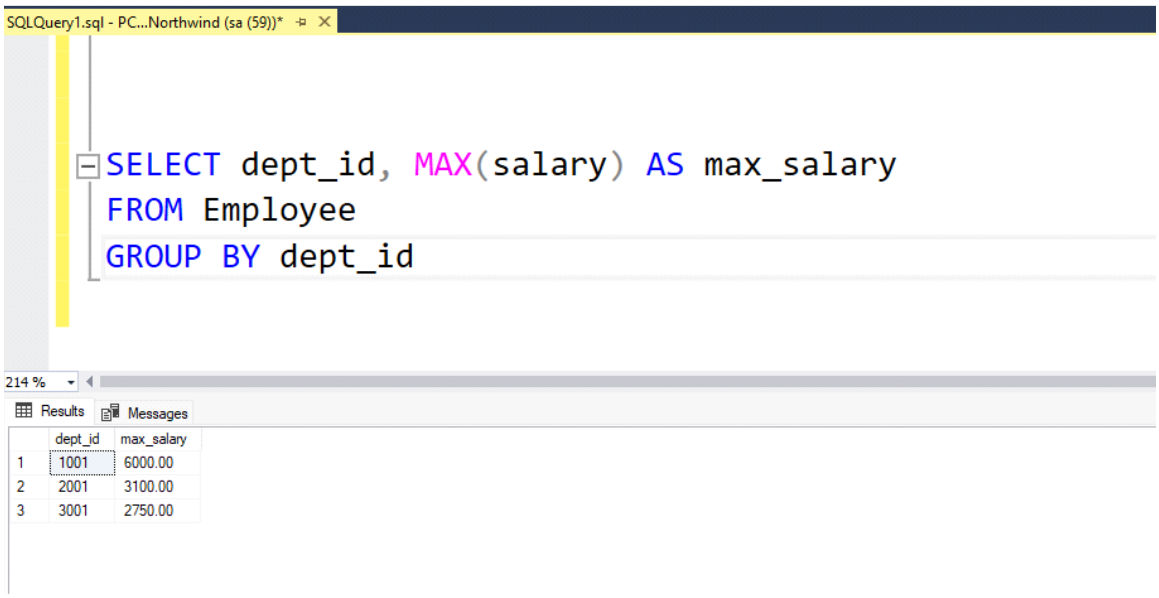
Retrieve data using Group By clause

```
CREATE TABLE Department (
  dept_id INT PRIMARY KEY,
  dept_name VARCHAR(255) NOT NULL
);



CREATE TABLE Employee (
  emp_id INT PRIMARY KEY,
  dept_id INT NOT NULL,
  mngr_id INT,
  emp_name VARCHAR(255) NOT NULL,
  salary DECIMAL(10,2) NOT NULL,
);

INSERT INTO Department (dept_id, dept_name)
VALUES
  (1001, 'FINANCE'),
  (2001, 'AUDIT'),
  (3001, 'MARKETING'),
  (4001, 'PRODUCTION');
```

```sql
INSERT INTO employee (emp_id, dept_id, mngr_id, emp_name, salary)
VALUES
  (68319, 1001, NULL, 'KAYLING', 6000.00),
  (66928, 3001, 68319, 'BLAZE', 2750.00),
  (67832, 1001, 68319, 'CLARE',2550.00),
  (65646, 2001, 68319, 'JONAS', 2957.00),
  (67858, 2001, 65646, 'SCARLET', 3100.00),
  (69062, 2001, 65646, 'FRANK', 3100.00),
  (63679, 2001, 69062, 'SANDRINE', 900.00),
  (64989, 3001, 66928, 'ADELYN', 1700.00),
  (65271, 3001, 66928, 'WADE', 1350.00),
  (66564, 3001, 66928, 'MADDEN', 1350.00),
  (68454, 3001, 66928, 'TUCKER', 1600.00),
  (68736, 2001, 67858, 'ADNRES', 1200.00),
  (69000, 3001, 66928, 'JULIUS', 1050.00),
  (69324, 1001, 67832, 'MARKER', 1400.00);
```

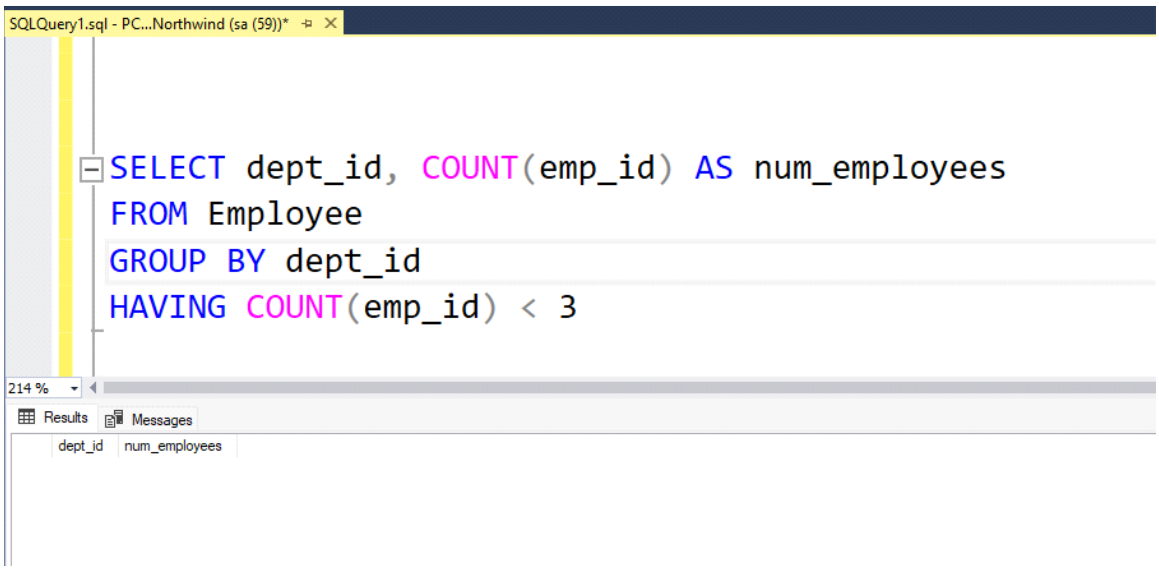
1. write a SQL query to find Employees who have the biggest salary in their Department

```
SELECT dept_id, MAX(salary) AS max_salary
FROM Employee
GROUP BY dept_id
```



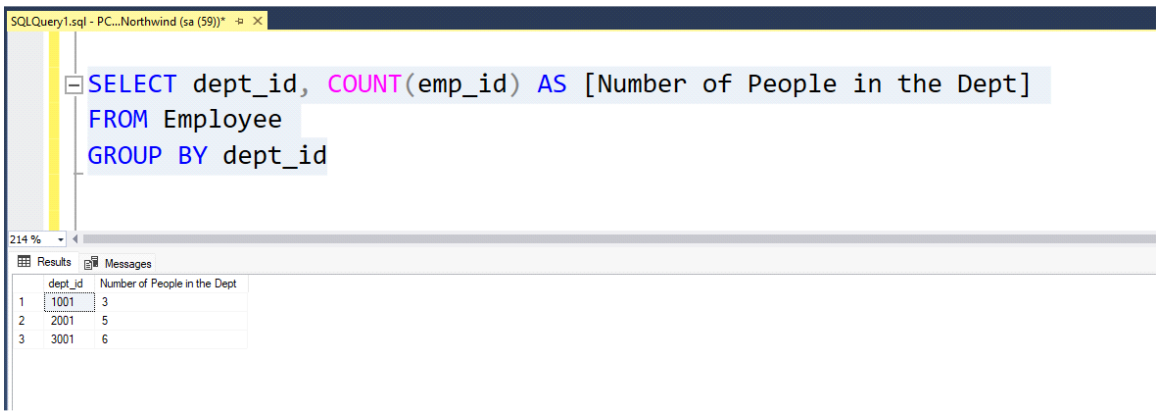
2. write a SQL query to find Departments that have less than 3 people in it

```sql
SELECT dept_id, COUNT(emp_id) AS num_employees
FROM Employee
GROUP BY dept_id
HAVING COUNT(emp_id) < 3
```



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

```
SELECT dept_id, COUNT(emp_id) AS [Number of People in the Dept]
FROM Employee
GROUP BY dept_id
```



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

```
SELECT Employee.dept_id, SUM(salary)
FROM Department, Employee
GROUP BY Employee.dept_id
```