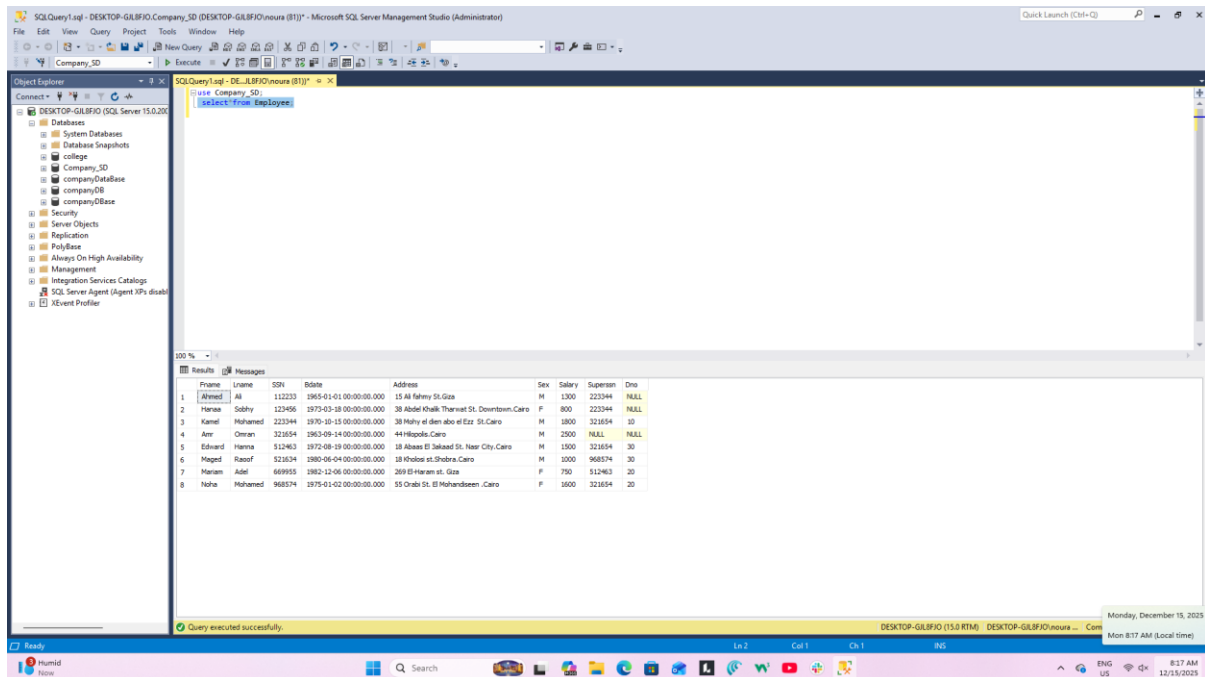


Noura almaslari

# DML & DQL Task on Company database

## DQL

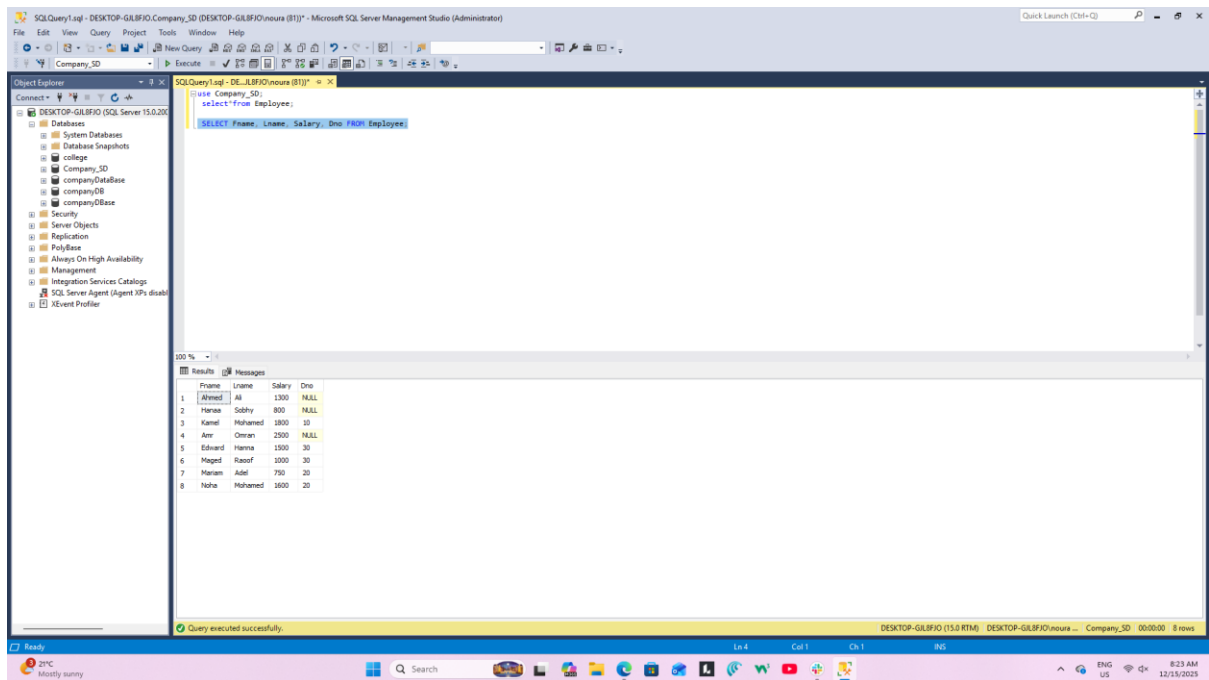
### 1. Display all employee data.



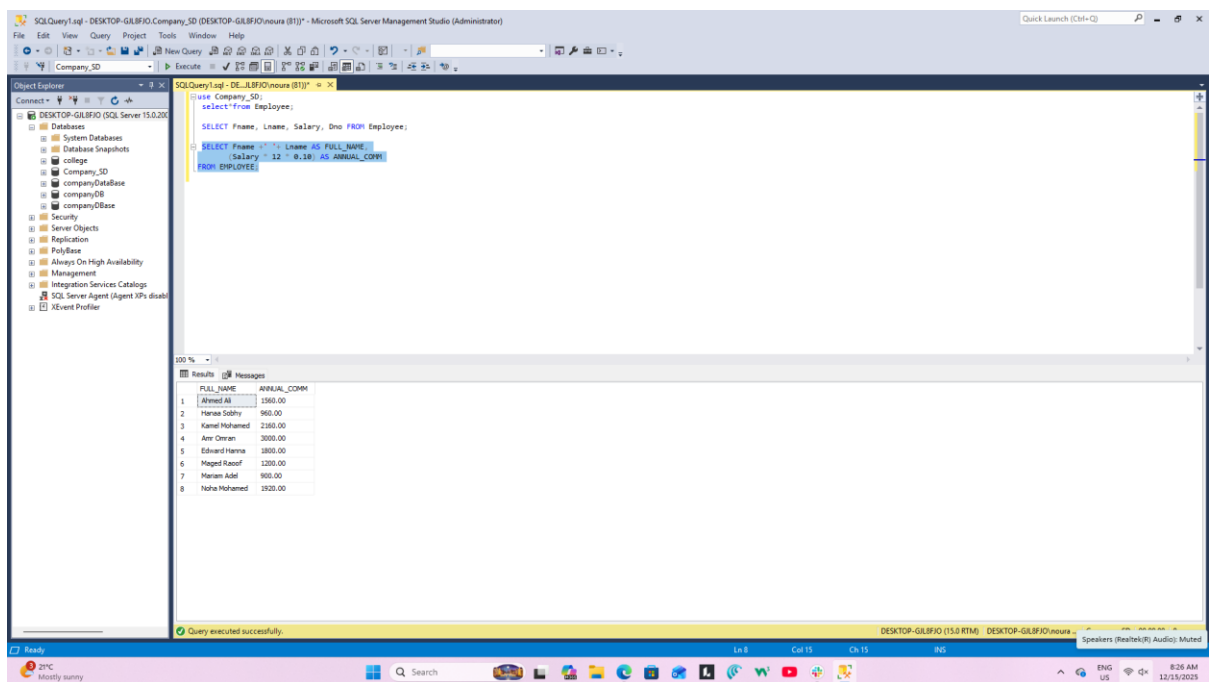
The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The 'Object Explorer' on the left displays the 'Company\_DB' database. The 'SQL Query' window in the center shows the query 'select \* from Employee'. The 'Results' pane at the bottom displays the query output as a table with 8 rows and 10 columns: Id, First Name, Last Name, SSN, Birth Date, Address, Sex, Salary, Supervisor Id, and Department Id. A status bar at the bottom indicates 'Query executed successfully'.

	Id	First Name	Last Name	SSN	Birth Date	Address	Sex	Salary	Supervisor Id	Department Id
1	Ahmed	Ali		112233	1965-01-01 00:00:00.000	15 Al Fahmy St. Giza	M	1300	223344	NLL
2	Hanaa	Sobhy		123456	1975-03-18 00:00:00.000	38 Abdel Khaliq Tharwat St. Downtown, Cairo	F	800	223344	NLL
3	Kamel	Hamed		223344	1970-10-12 00:00:00.000	38 Hany el dem ely el Ezz St. Cairo	M	1800	321654	SD
4	Amr	Omran		321654	1963-09-14 00:00:00.000	44 Hilepols, Cairo	M	2500	NLL	NLL
5	Edward	Hanna		512463	1972-08-19 00:00:00.000	19 Abbas El Salead St. Near City, Cairo	M	1500	321654	30
6	Maged	Rasof		521634	1980-06-04 00:00:00.000	19 Khelost st. Shobra, Cairo	M	1000	968574	30
7	Menam	Adel		669955	1982-12-08 00:00:00.000	269 El-Haram st. Giza	F	750	512463	20
8	Noha	Mohamed		968574	1975-01-02 00:00:00.000	55 Orabi St. El Mohandeseen ,Cairo	F	3600	321654	20

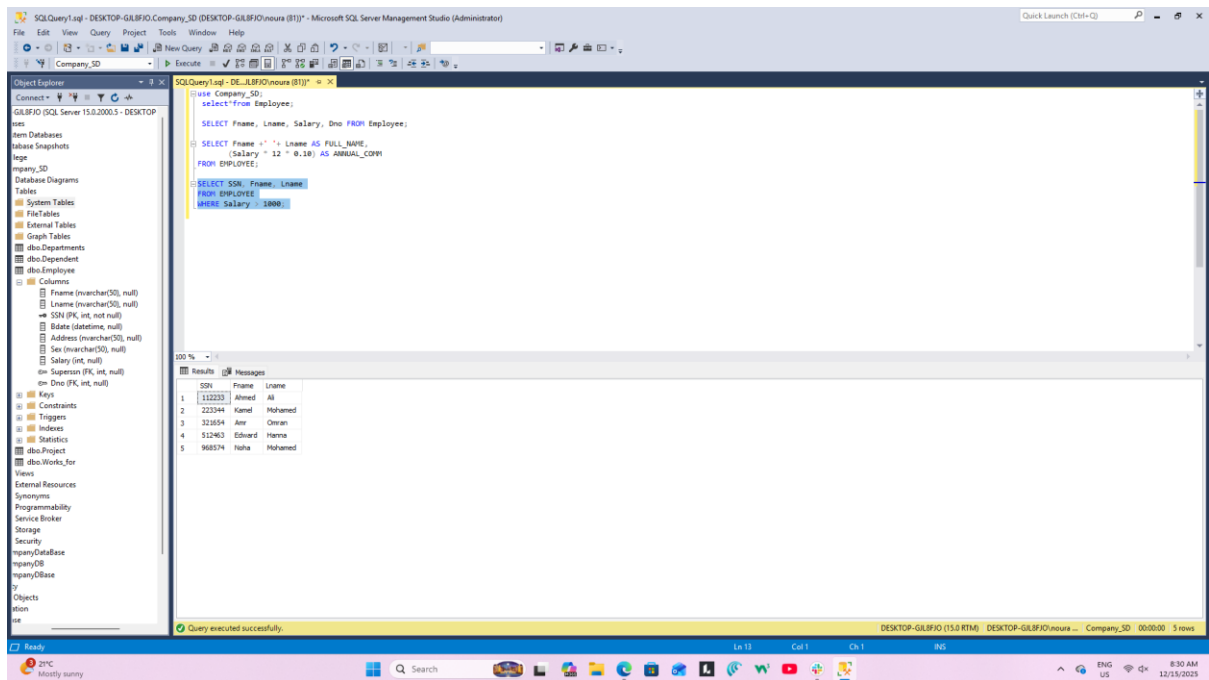
### 2. Display employee first name, last name, salary, and department number.



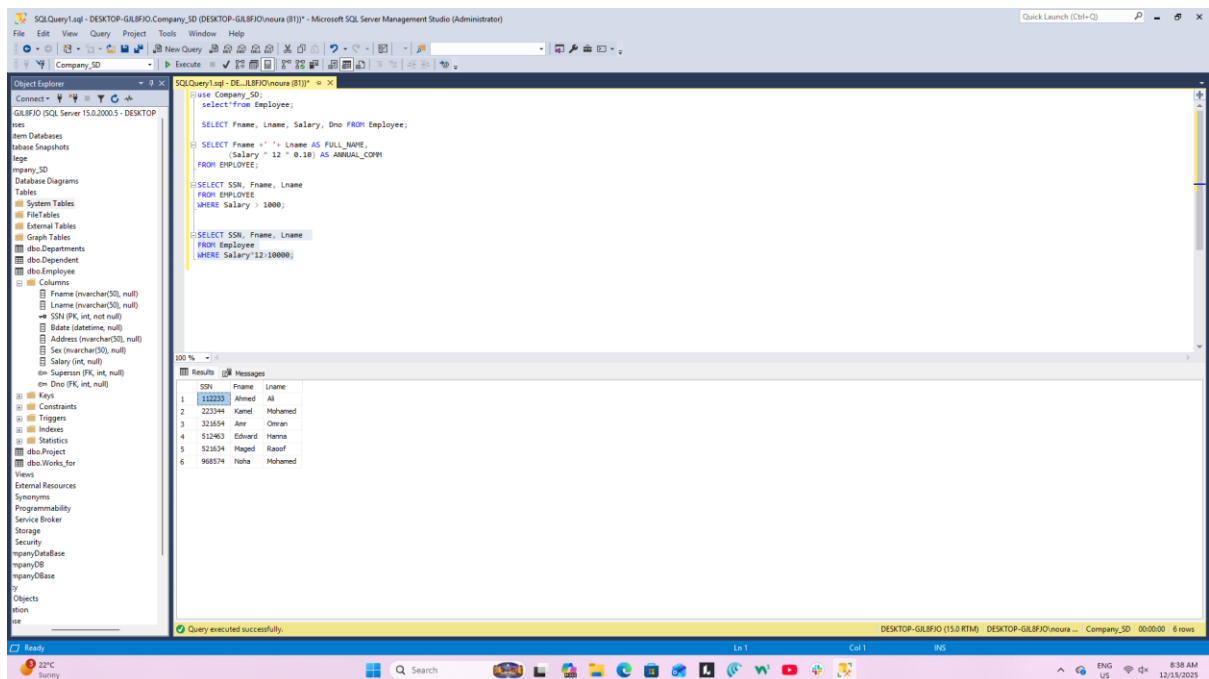
3. Display each employee's full name and their annual commission (10% of annual salary) as **ANNUAL\_COMM**.



4. Display employee ID and name for employees earning more than 1000 LE monthly.



## 5. Display employee ID and name for employees earning more than 10000 LE annually.



## 6. Display names and salaries of all female employees.

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Company\_3D' database selected. The right pane shows a SQL query window with the following code:

```
USE Company_3D;
SELECT * FROM Employee;

SELECT FName, LName, Salary, Dno FROM Employee;

SELECT FName + ' ' + LName AS FULL_NAME,
       Salary * 12 * 0.10 AS ANNUAL_COST
FROM EMPLOYEE;

SELECT SSN, FName, LName
FROM EMPLOYEE
WHERE Salary > 10000;

SELECT SSN, FName, LName
FROM Employee
WHERE Salary > 100000;

SELECT FName, LName, Salary
FROM EMPLOYEE
WHERE Sex = 'F';
```

The 'Results' pane shows the output of the last query, displaying three rows of female employees:

Fname	Lname	Salary
Marina	Sobhy	800
Marina	Adel	750
Nahla	Hamed	1000

## 7. Display employees whose salary is between 2000 and 5000.

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Company\_3D' database selected. The right pane shows a SQL query window with the following code:

```
USE Company_3D;
SELECT * FROM Employee;

SELECT FName, LName, Salary
FROM EMPLOYEE
WHERE Sex = 'F';

SELECT FName, LName, Salary
FROM Employee
WHERE Salary BETWEEN 2000 AND 5000;
```

The 'Results' pane shows the output of the last query, displaying one row of an employee:

Fname	Lname	Salary
Ahmed	Omran	2500

## 8. Display employee names ordered by salary descending.

The screenshot shows the Microsoft SQL Server Management Studio interface. The left pane displays the 'Object Explorer' with the 'Employee' table selected under the 'Company\_3D' database. The main query window contains two SQL queries:

```

SELECT FName, LName, Salary
FROM Employee
WHERE Salary BETWEEN 2000 AND 5000;

SELECT FName, LName
FROM Employee
ORDER BY Salary DESC;

```

The 'Results' pane shows the output of the second query, displaying a list of employees ordered by salary in descending order:

	FName	LName
1	Amr	Omran
2	Kamel	Mohamed
3	Noha	Mohamed
4	Edward	Hanna
5	Ahmed	Ali
6	Maged	Raouf
7	Hanaa	Sobhy
8	Mariam	Adel

The status bar at the bottom indicates 'Query executed successfully' and '8 rows'.

## 9. Display the maximum, minimum, and average salary.

The screenshot shows the Microsoft SQL Server Management Studio interface. The left pane displays the 'Object Explorer' with the 'Employee' table selected under the 'Company\_3D' database. The main query window contains three SQL queries:

```

SELECT FName, LName, Salary
FROM Employee
WHERE Salary BETWEEN 2000 AND 5000;

SELECT FName, LName
FROM Employee
ORDER BY Salary DESC;

SELECT MAX(Salary) AS MAX_Salary,
       MIN(Salary) AS MIN_Salary,
       AVG(Salary) AS AVG_Salary
FROM Employee;

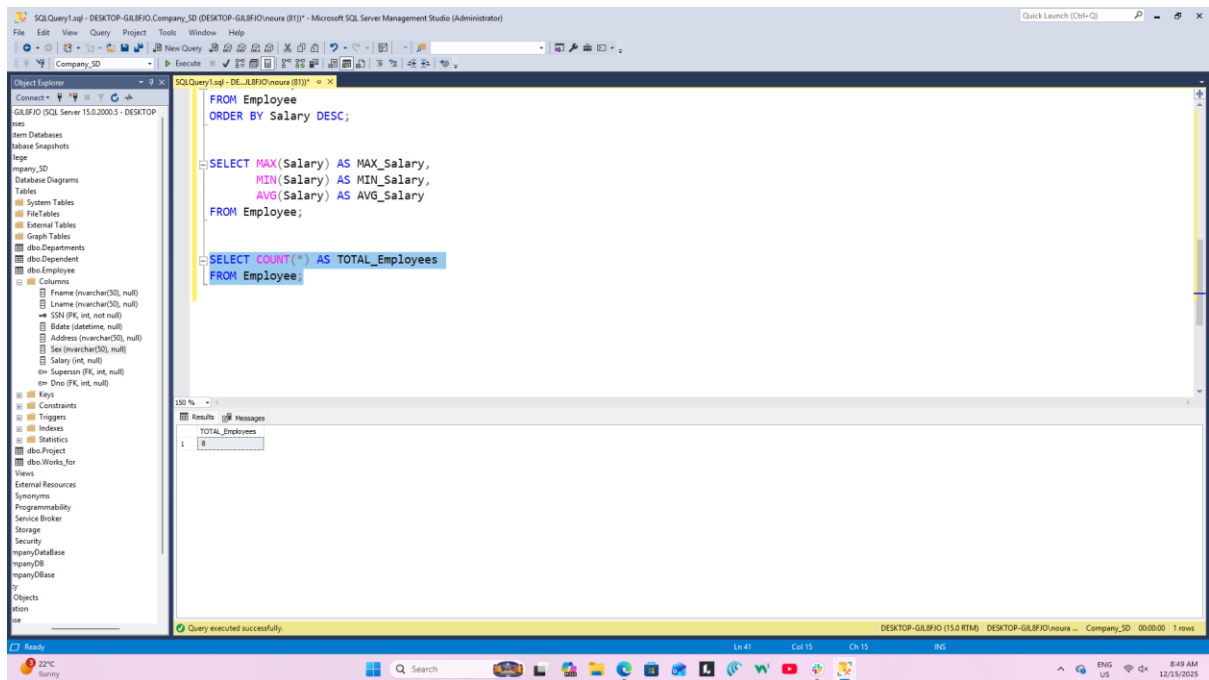
```

The 'Results' pane shows the output of the third query, displaying the maximum, minimum, and average salary:

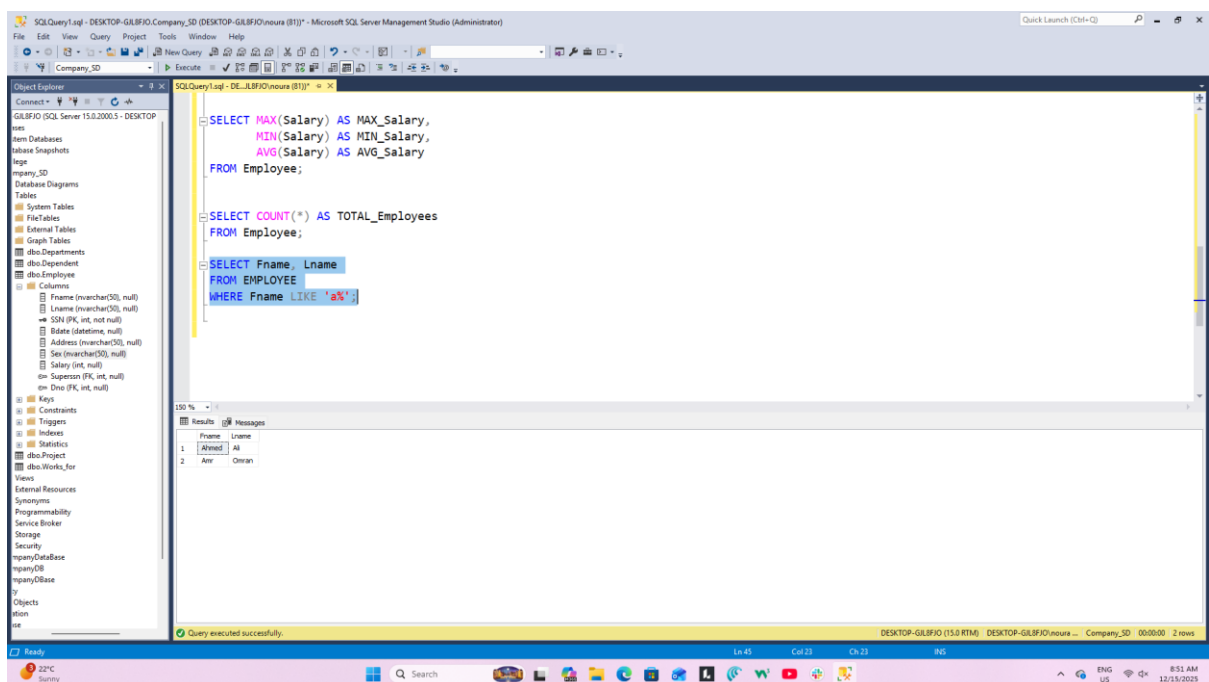
	MAX_Salary	MIN_Salary	AVG_Salary
1	2500	750	1406

The status bar at the bottom indicates 'Query executed successfully' and '1 rows'.

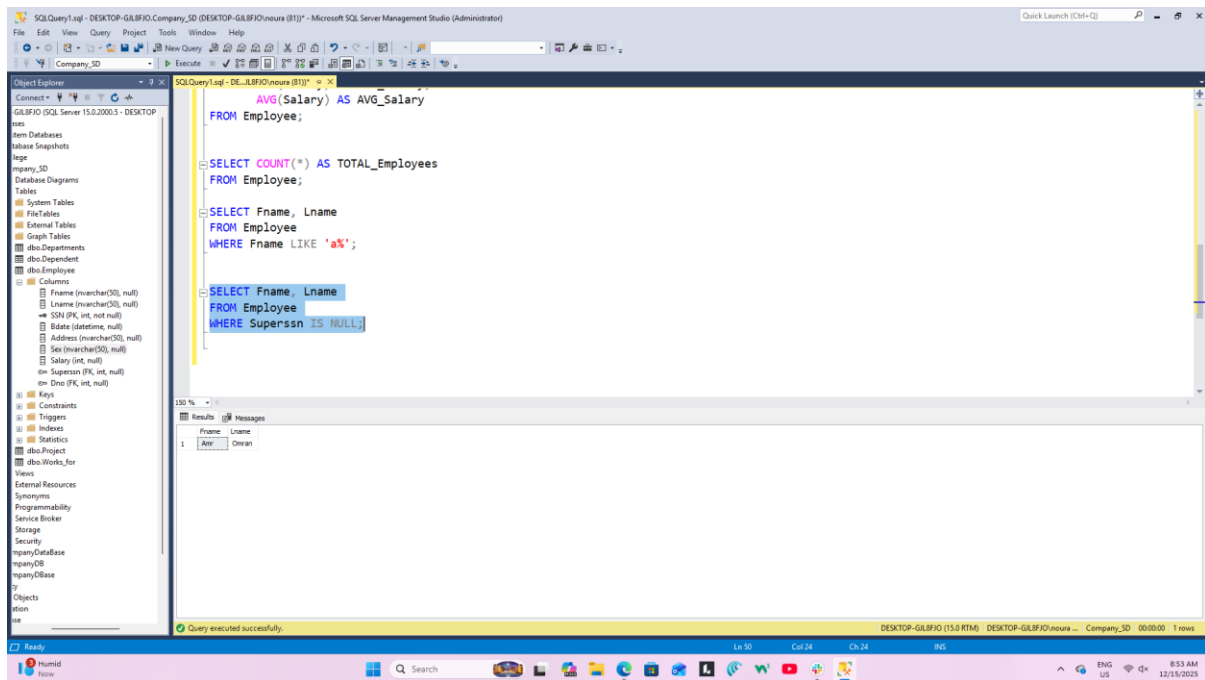
## 10. Display the total number of employees.



## 11. Display employees whose first name starts with 'A'.

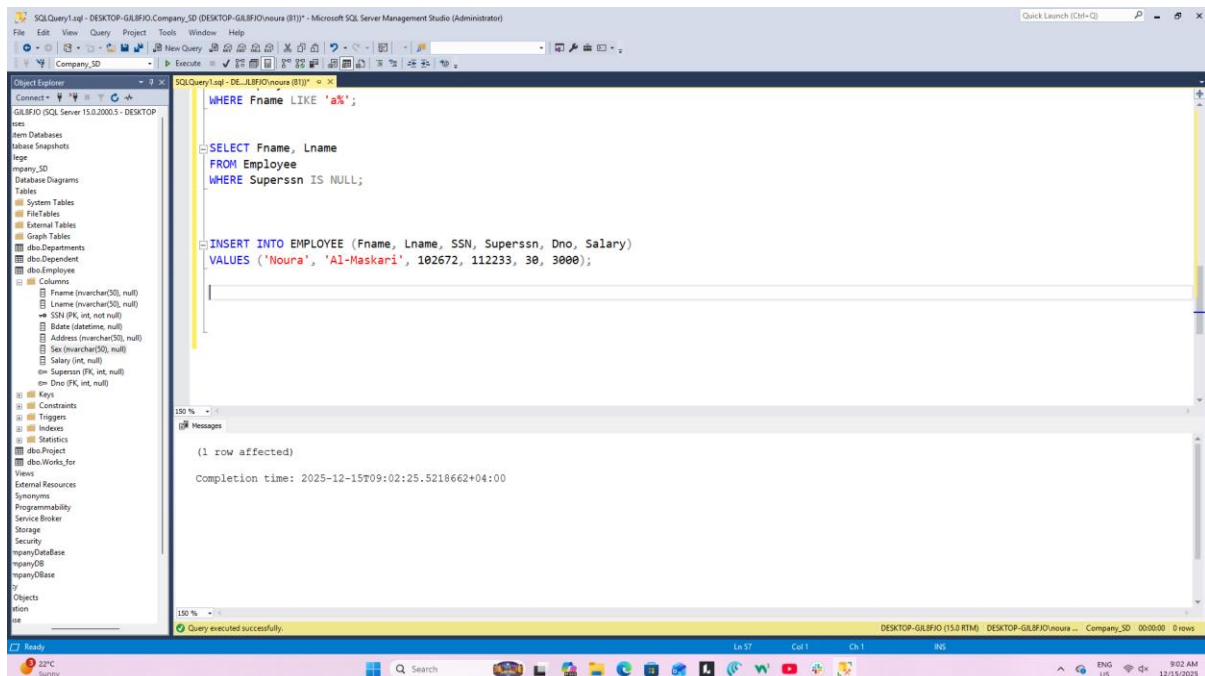


## 12. Display employees who have no supervisor.

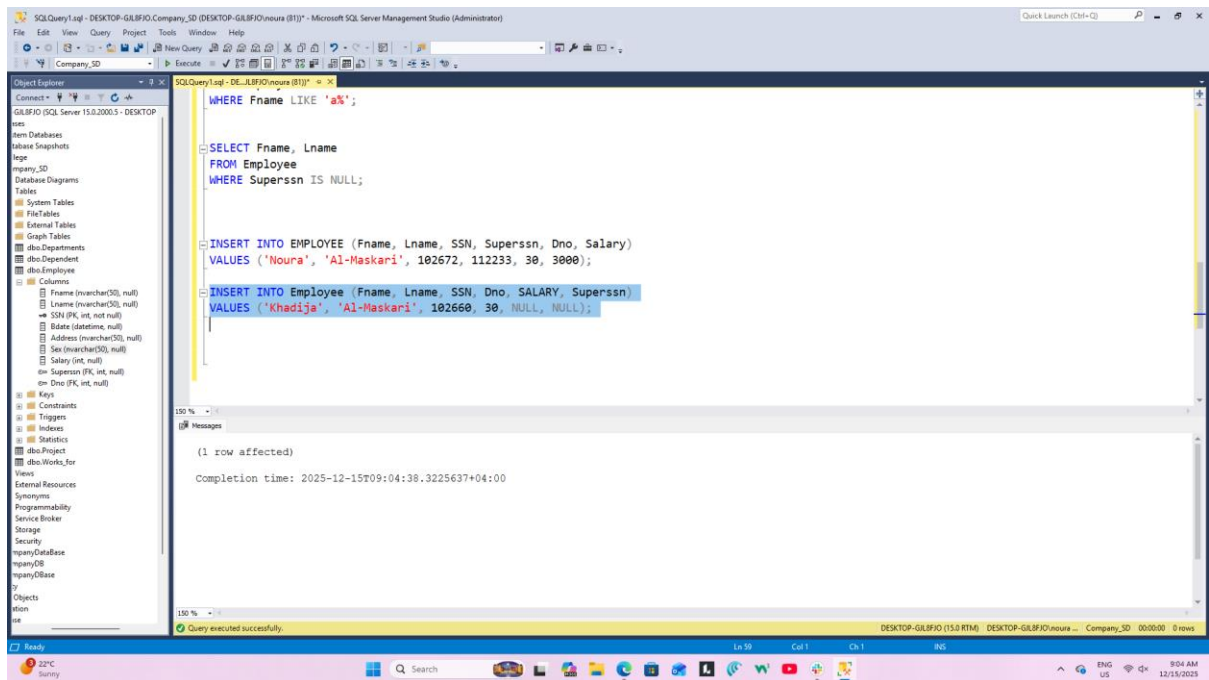


## DML

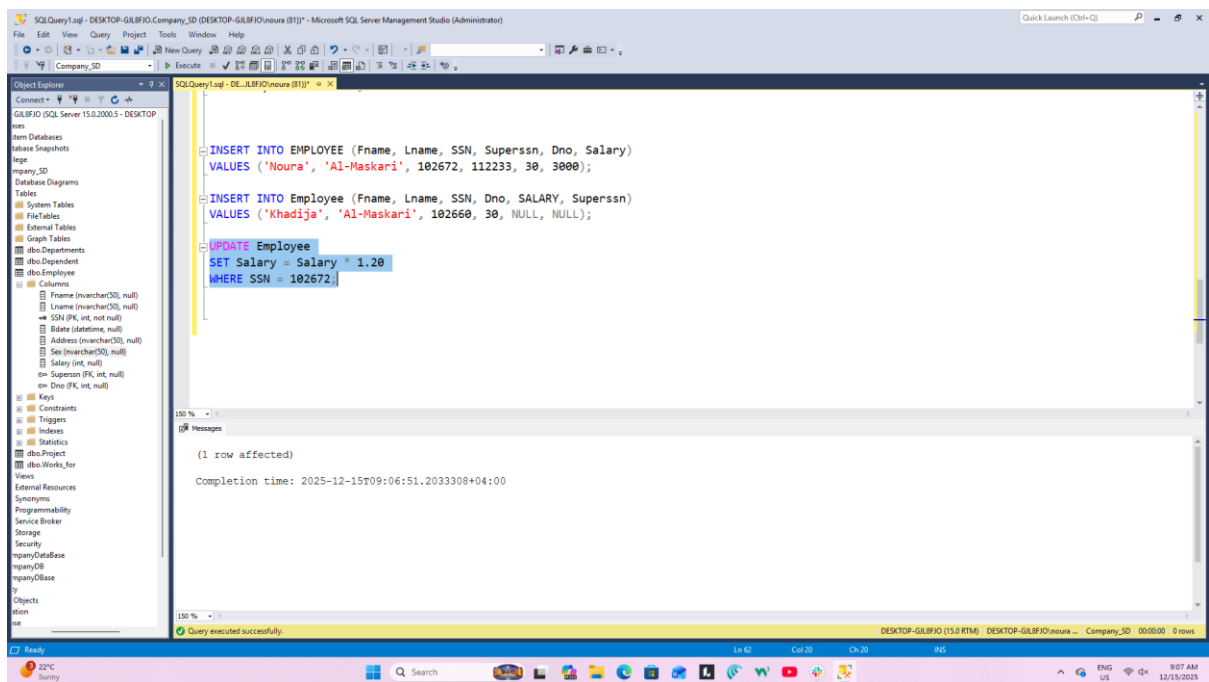
14. Insert your personal data into the employee table (Department = 30, SSN = 102672, Superssn = 112233, Salary = 3000).



15. Insert another employee (your friend) in department 30 with SSN = 102660, leaving salary and supervisor number NULL.

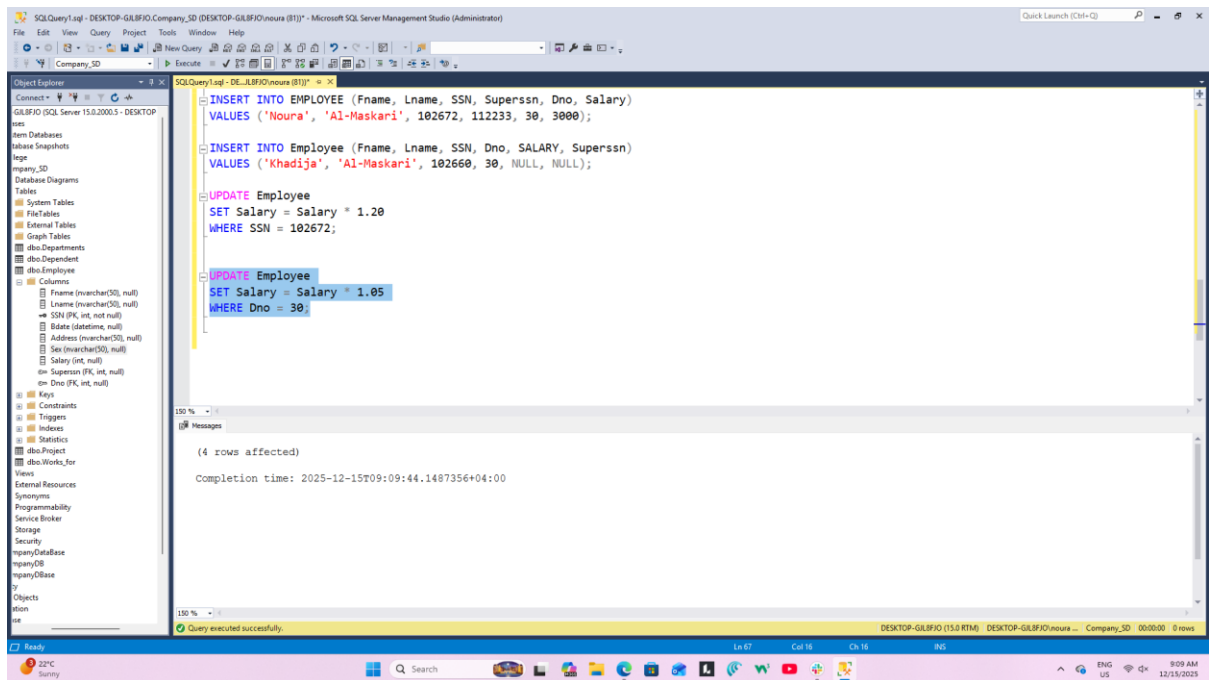


## 16. Update your salary by 20%.

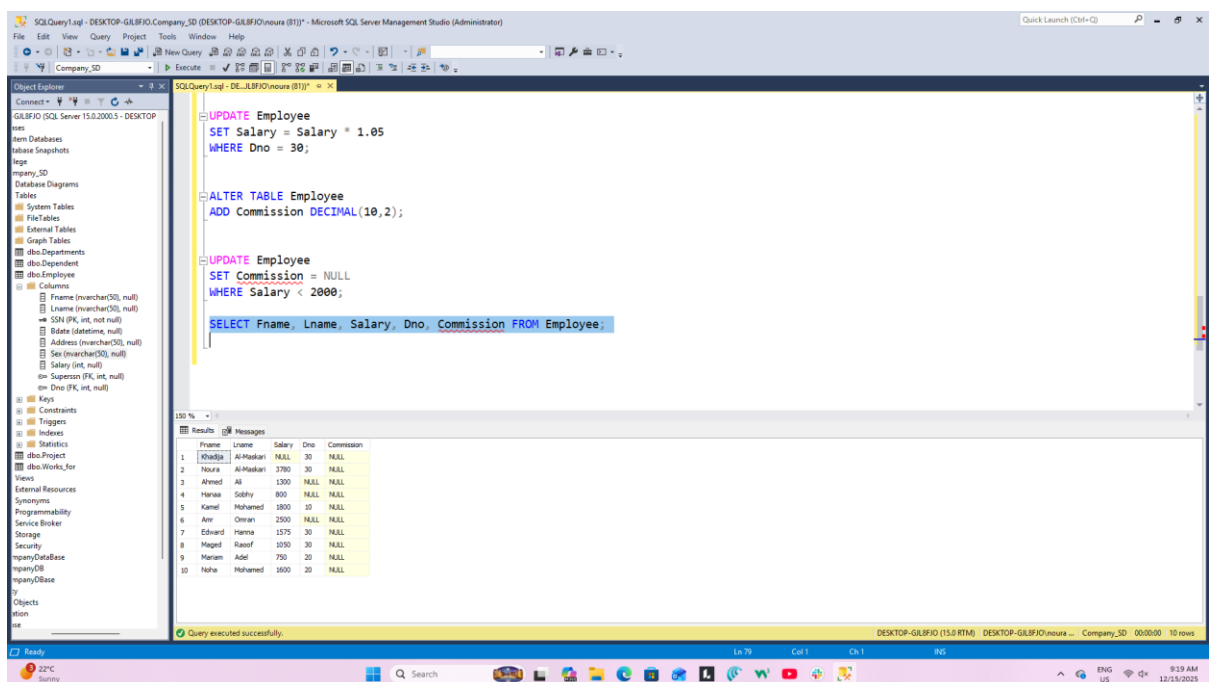


## 17. Increase salaries by 5% for all employees in department 30.

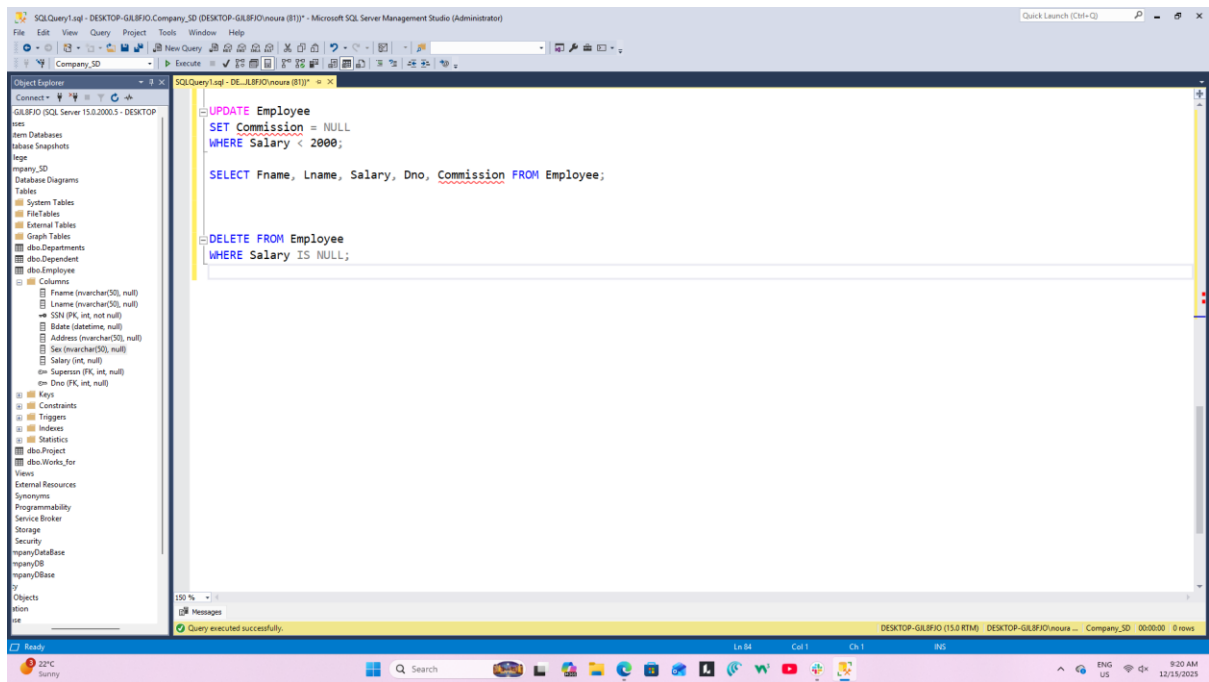




## 18. Set commission to NULL for employees earning less than 2000.



## 19. Delete employees with NULL salary



## After Deleting employees with NULL salary

