1. **Top 10 distinct job titles along with their corresponding salaries, ordered by salary in descending order:**

SELECT TOP 10 Job\_Title AS nam\_job\_titles, Salary

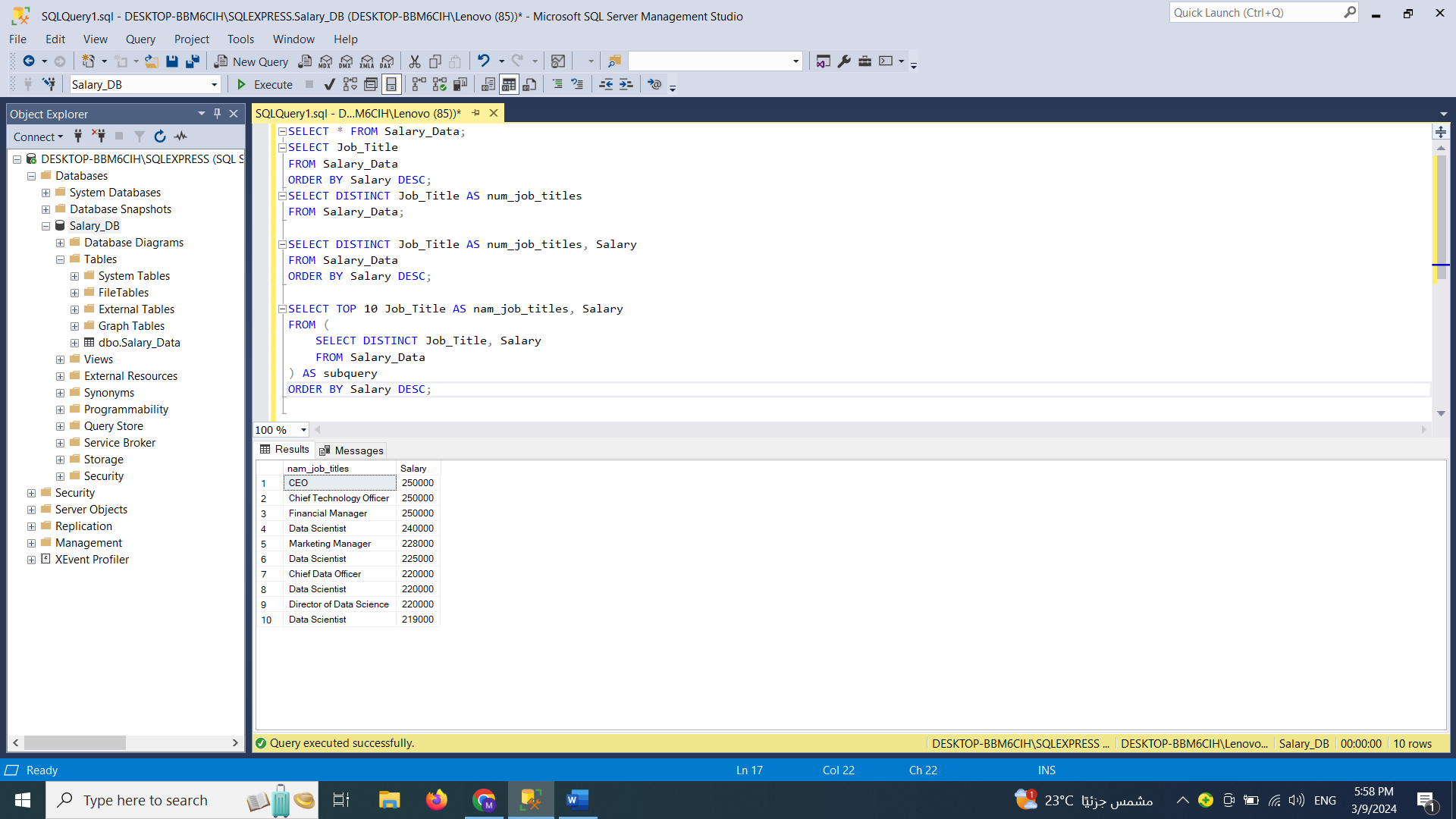
FROM (

SELECT DISTINCT Job\_Title, Salary

FROM Salary\_Data

) AS subquery

ORDER BY Salary DESC;



1. **The number of females, males and other in the Gender column:**

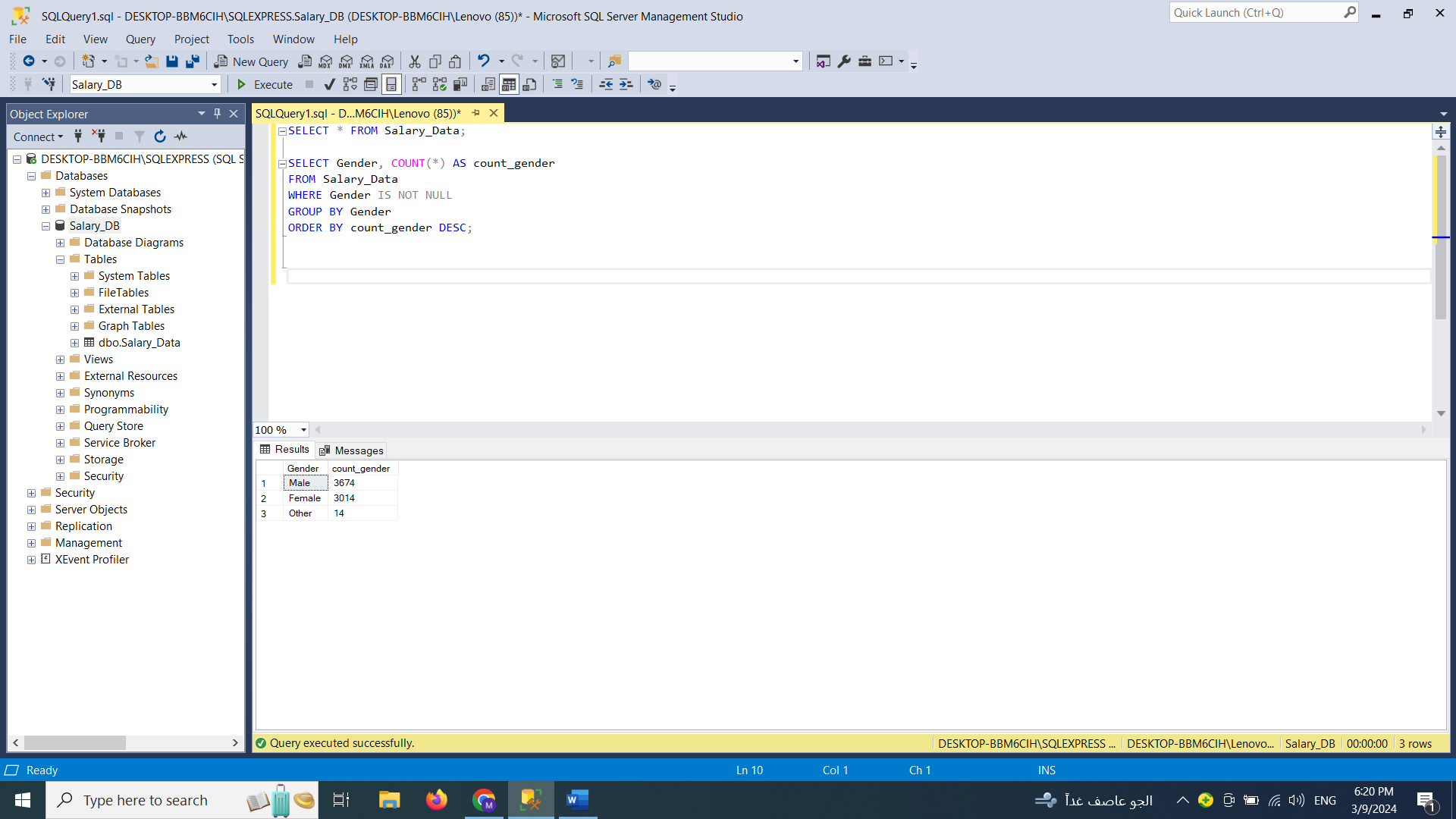
SELECT Gender, COUNT(\*) AS count\_gender

FROM Salary\_Data

WHERE Gender IS NOT NULL

GROUP BY Gender

ORDER BY count\_gender DESC;



1. **Counting the occurrences of each education level in salary data:**

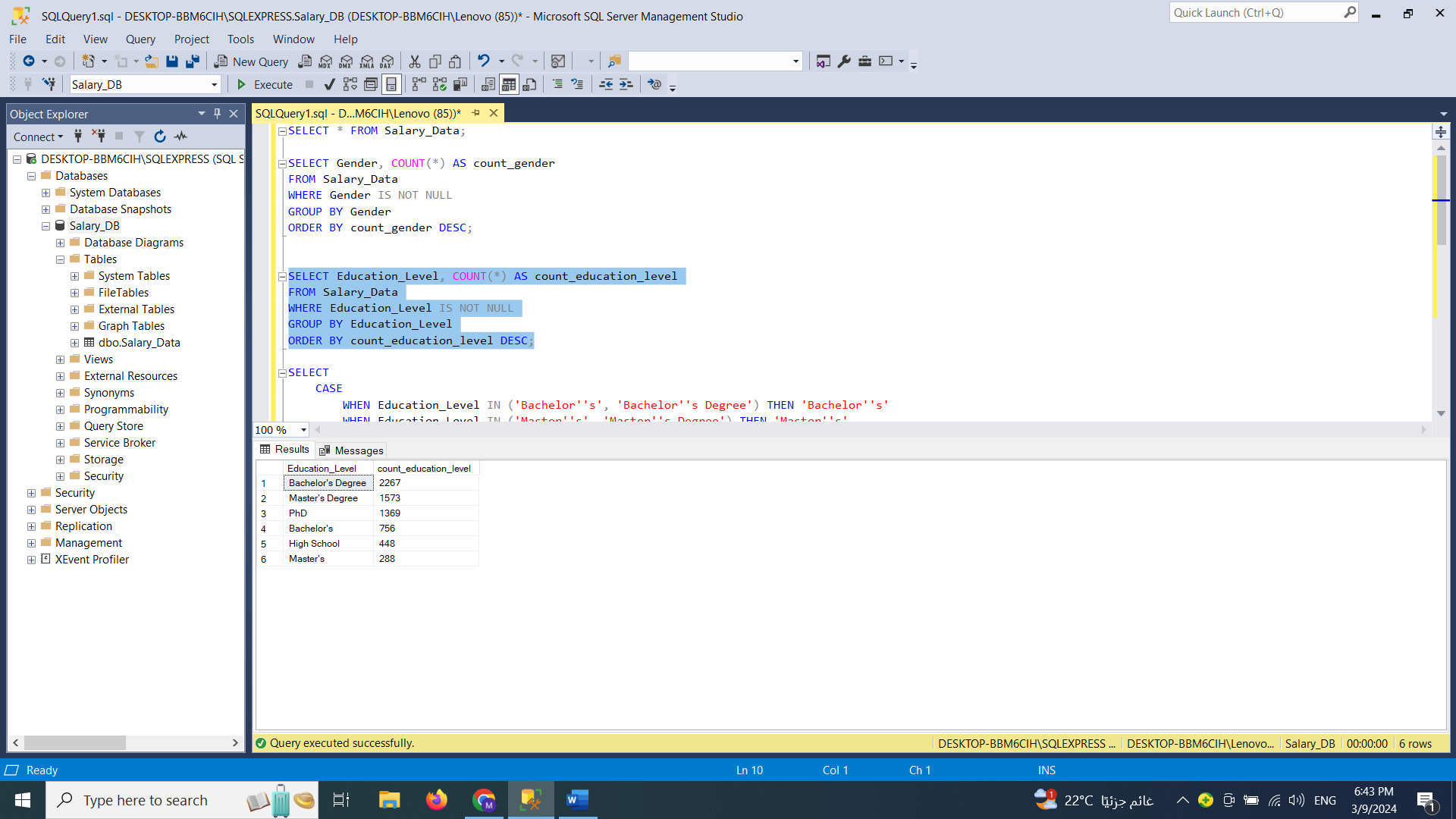
SELECT Education\_Level, COUNT(\*) AS count\_education\_level

FROM Salary\_Data

WHERE Education\_Level IS NOT NULL

GROUP BY Education\_Level

ORDER BY count\_education\_level DESC;



1. **Combine similar values in education level column while counting the occurrences of each education level:**

SELECT

CASE

WHEN Education\_Level IN ('Bachelor''s', 'Bachelor''s Degree') THEN 'Bachelor''s'

WHEN Education\_Level IN ('Master''s', 'Master''s Degree') THEN 'Master''s'

ELSE Education\_Level

END AS Education\_Level,

COUNT(\*) AS Count\_Education\_Level

FROM Salary\_Data

WHERE Education\_Level IS NOT NULL

GROUP BY

CASE

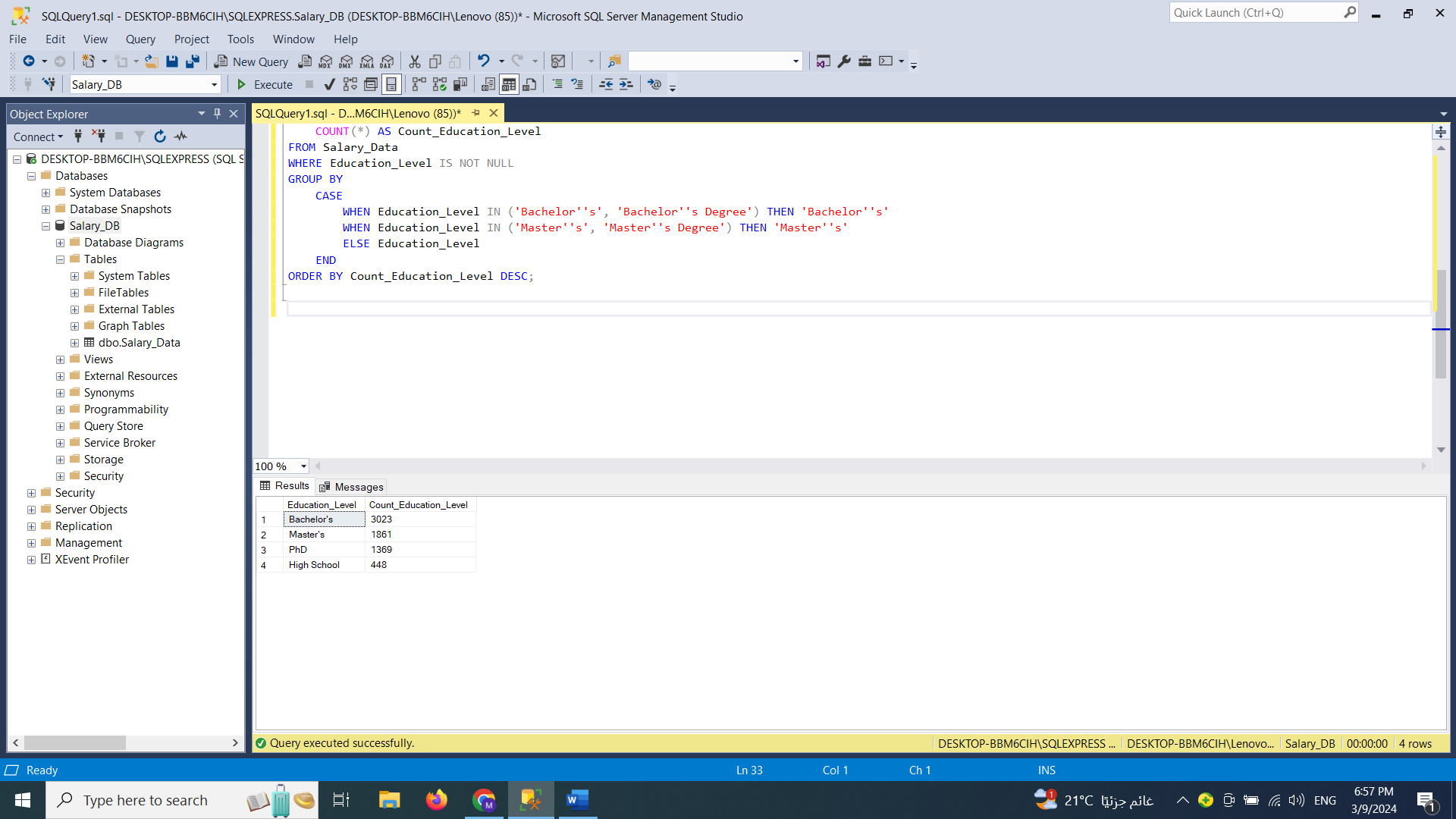
WHEN Education\_Level IN ('Bachelor''s', 'Bachelor''s Degree') THEN 'Bachelor''s'

WHEN Education\_Level IN ('Master''s', 'Master''s Degree') THEN 'Master''s'

ELSE Education\_Level

END

ORDER BY Count\_Education\_Level DESC;



1. **Calculates the top 5 job titles for each education level (Bachelor's, Master's, and PhD) based on the number of occurrences in the Salary\_Data table, sorted by education level and rank:**

WITH RankedJobTitles AS (

SELECT

Education\_Level,

Job\_Title,

COUNT(\*) AS Count,

ROW\_NUMBER() OVER (PARTITION BY Education\_Level ORDER BY COUNT(\*) DESC) AS Rank

FROM Salary\_Data

WHERE Education\_Level IN ('Bachelor''s', 'Master''s', 'PhD') AND Job\_Title IS NOT NULL

GROUP BY Education\_Level, Job\_Title

)

SELECT

Education\_Level,

Job\_Title,

Count

FROM RankedJobTitles

WHERE Rank <= 5

ORDER BY Education\_Level, Rank;

