DMV Assignment 4

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Question 1: List the department name, employee ID, and last name for all employees in the 'Sales' and 'IT' departments.

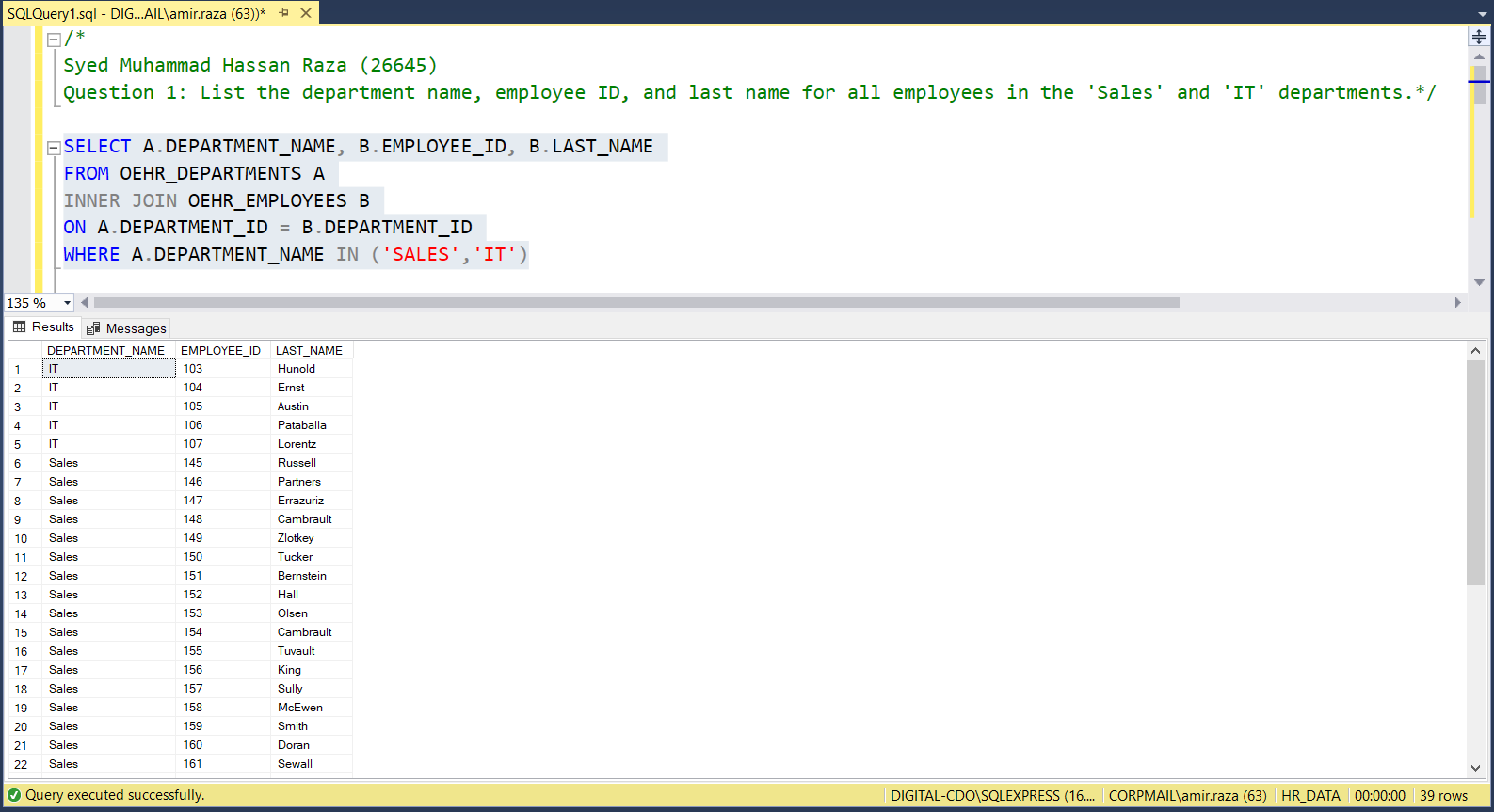
SELECT A.DEPARTMENT\_NAME, B.EMPLOYEE\_ID, B.LAST\_NAME

FROM OEHR\_DEPARTMENTS A

INNER JOIN OEHR\_EMPLOYEES B

ON A.DEPARTMENT\_ID = B.DEPARTMENT\_ID

WHERE A.DEPARTMENT\_NAME IN ('SALES','IT')



Question 2: Find the highest salary in the 'IT' department.

SELECT TOP 1 B.SALARY 'MAX SALARY'

FROM OEHR\_DEPARTMENTS A

INNER JOIN OEHR\_EMPLOYEES B

ON A.DEPARTMENT\_ID = B.DEPARTMENT\_ID

WHERE A.DEPARTMENT\_NAME = 'IT'

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Question 3: Show the number of employees in each department, but only for departments with more than 3 employees.

SELECT DEPARTMENT\_NAME, COUNT (\*) 'NUMBER OF EMPLOYEES'

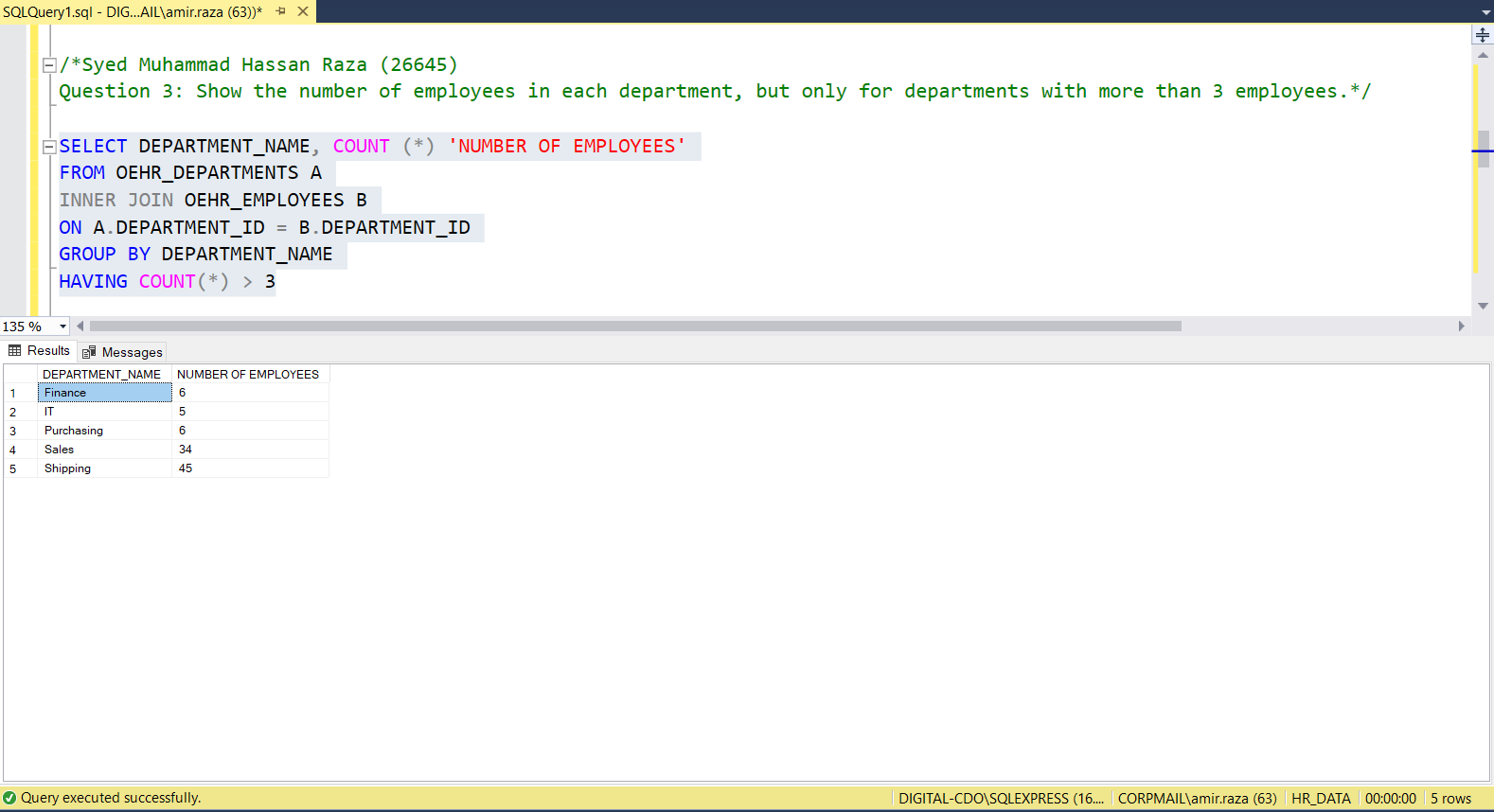
FROM OEHR\_DEPARTMENTS A

INNER JOIN OEHR\_EMPLOYEES B

ON A.DEPARTMENT\_ID = B.DEPARTMENT\_ID

GROUP BY DEPARTMENT\_NAME

HAVING COUNT(\*) > 3



Question 4: List all employees who were hired in 2005. Those employees who were hired first should come first in your rows.

SELECT EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME

FROM OEHR\_EMPLOYEES

WHERE YEAR(HIRE\_DATE) = 2005

ORDER BY HIRE\_DATE ASC

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Question 5: Display the average salary of each department, ordered by average salary in ascending order.

SELECT DEPARTMENT\_NAME, AVG(SALARY) 'AVERAGE SALARY'

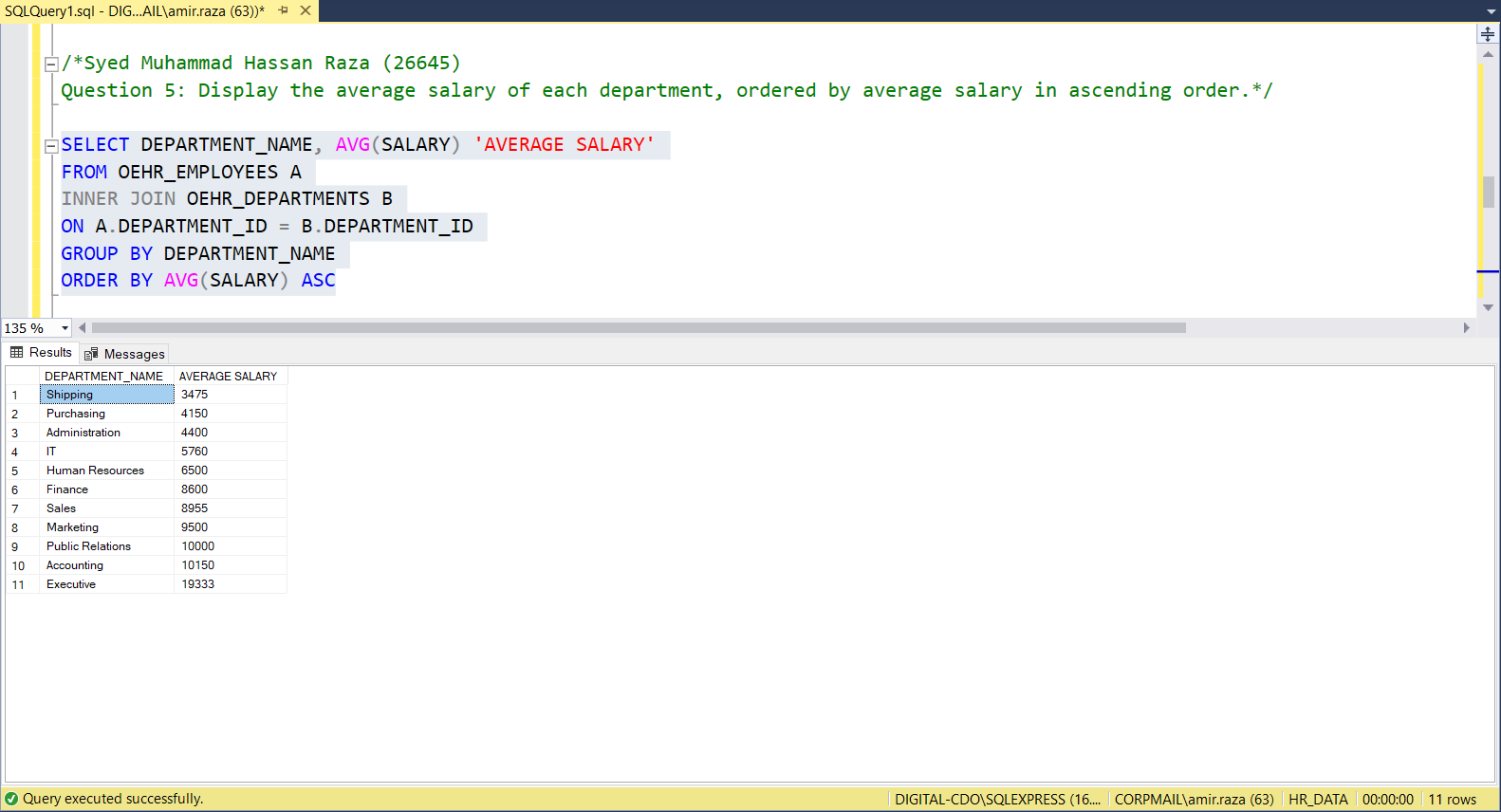
FROM OEHR\_EMPLOYEES A

INNER JOIN OEHR\_DEPARTMENTS B

ON A.DEPARTMENT\_ID = B.DEPARTMENT\_ID

GROUP BY DEPARTMENT\_NAME

ORDER BY AVG(SALARY) ASC



Question 6: Identify the departments where the lowest salary is above $3000.

SELECT DEPARTMENT\_NAME, MIN(SALARY) 'LOWEST SALARY'

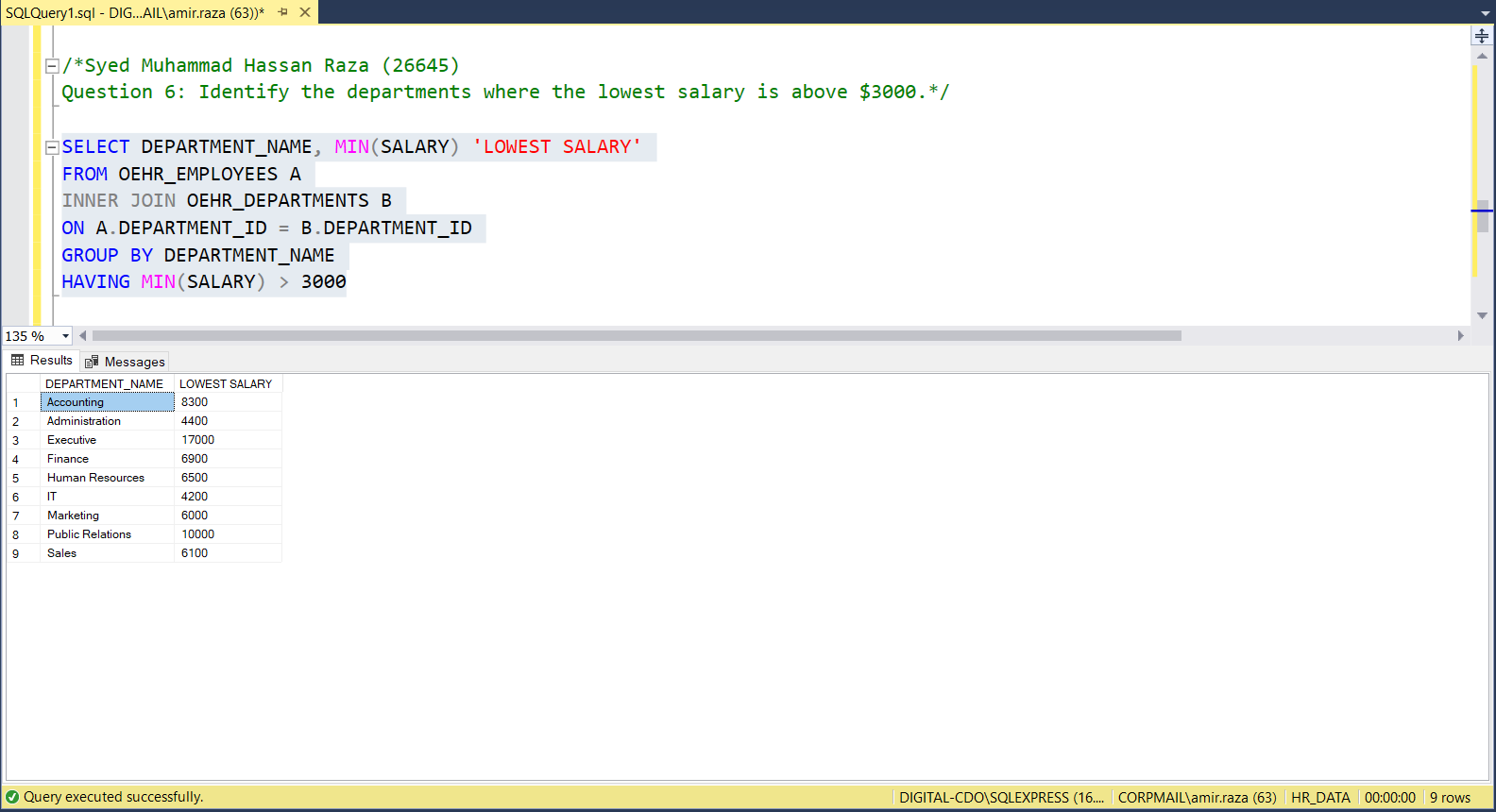
FROM OEHR\_EMPLOYEES A

INNER JOIN OEHR\_DEPARTMENTS B

ON A.DEPARTMENT\_ID = B.DEPARTMENT\_ID

GROUP BY DEPARTMENT\_NAME

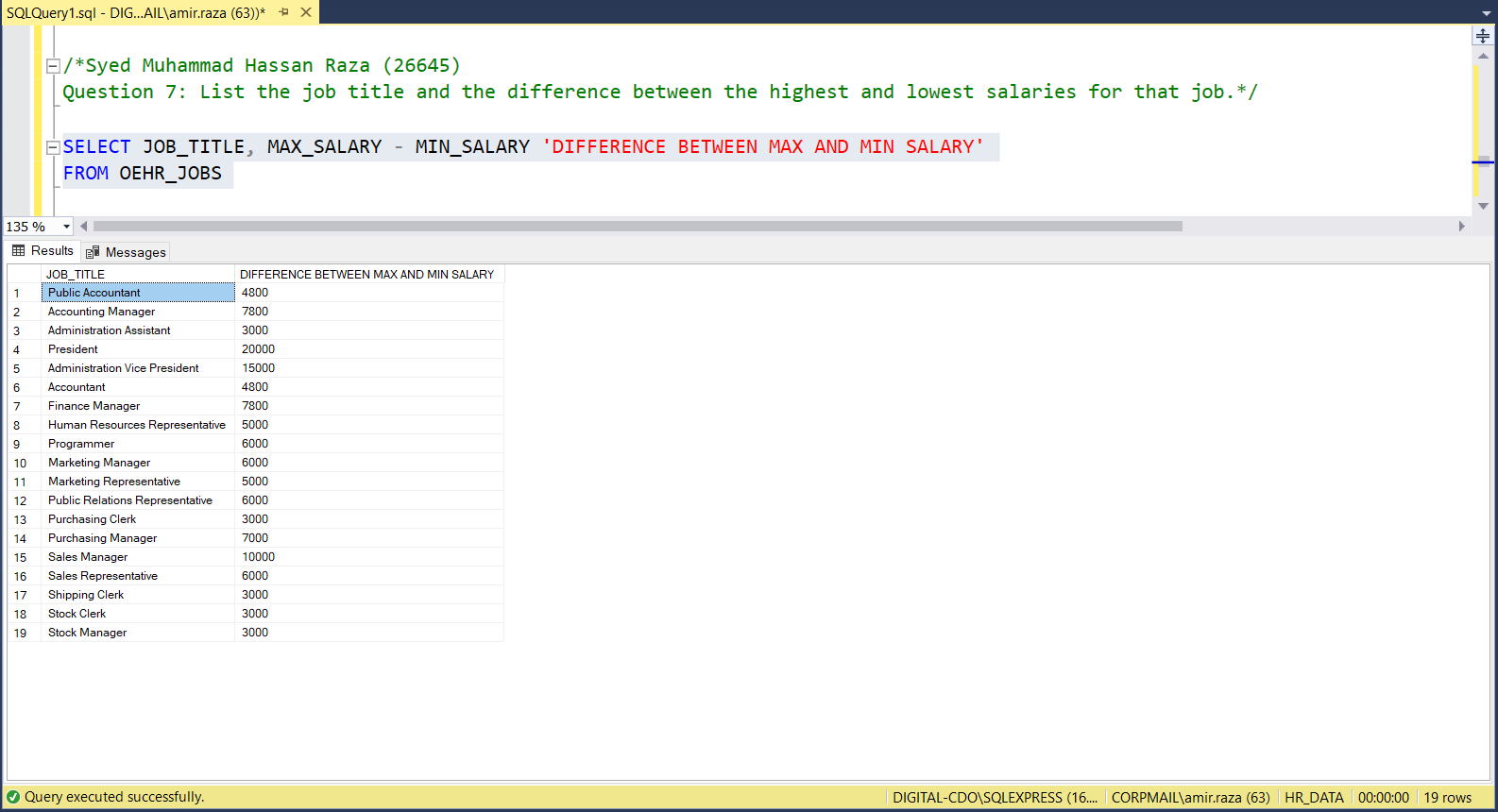
HAVING MIN(SALARY) > 3000



Question 7: List the job title and the difference between the highest and lowest salaries for that job.

SELECT JOB\_TITLE, MAX\_SALARY - MIN\_SALARY 'DIFFERENCE BETWEEN MAX AND MIN SALARY'

FROM OEHR\_JOBS



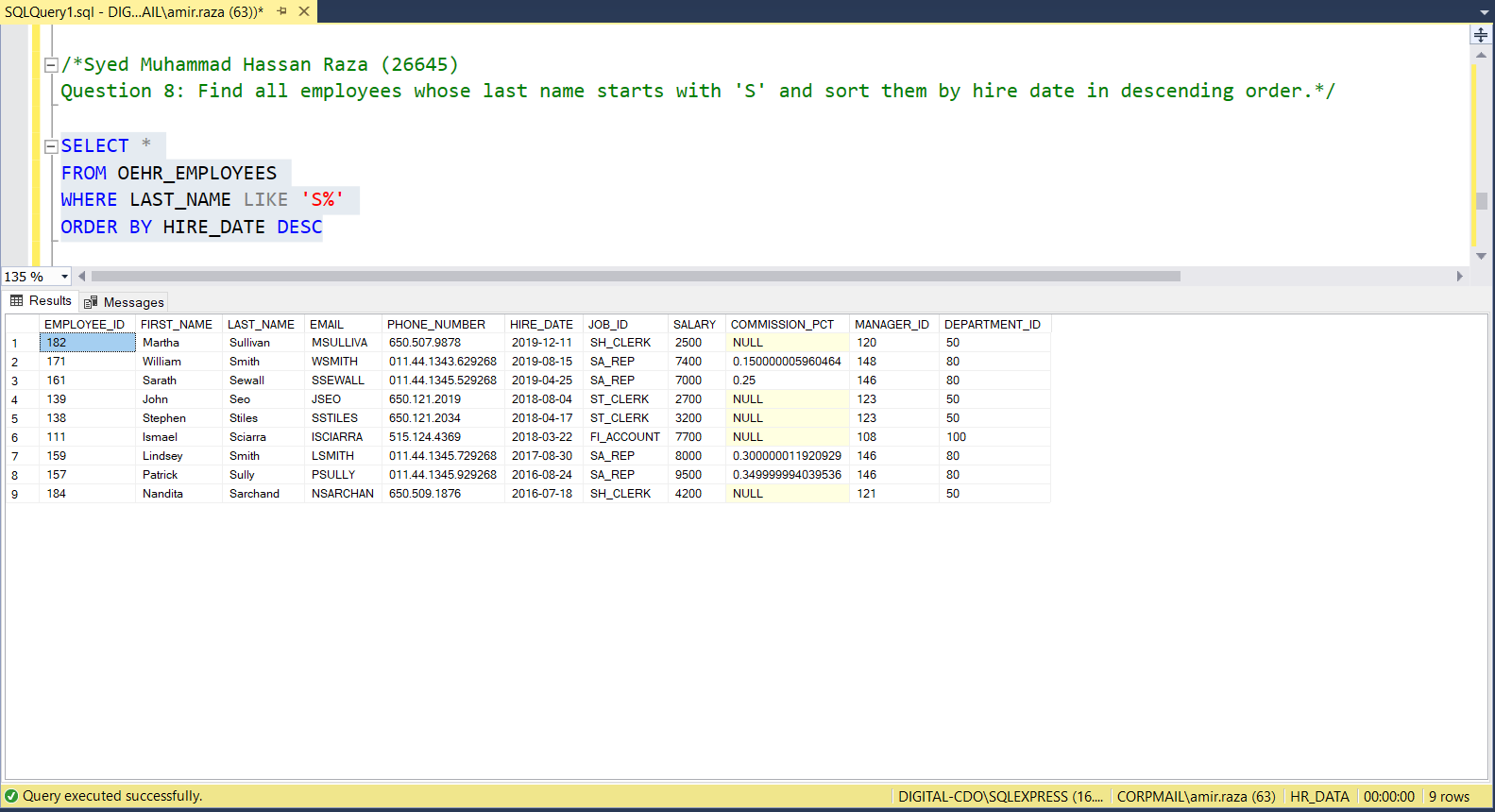
Question 8: Find all employees whose last name starts with 'S' and sort them by hire date in descending order.

SELECT \*

FROM OEHR\_EMPLOYEES

WHERE LAST\_NAME LIKE 'S%'

ORDER BY HIRE\_DATE DESC



Question 9: Show each department's name along with the count of employees who earn more than $5000, only for departments with such employees.

SELECT A.DEPARTMENT\_NAME, COUNT(B.EMPLOYEE\_ID) 'NUM OF EMPLOYEES EARNING MORE THAN 5000'

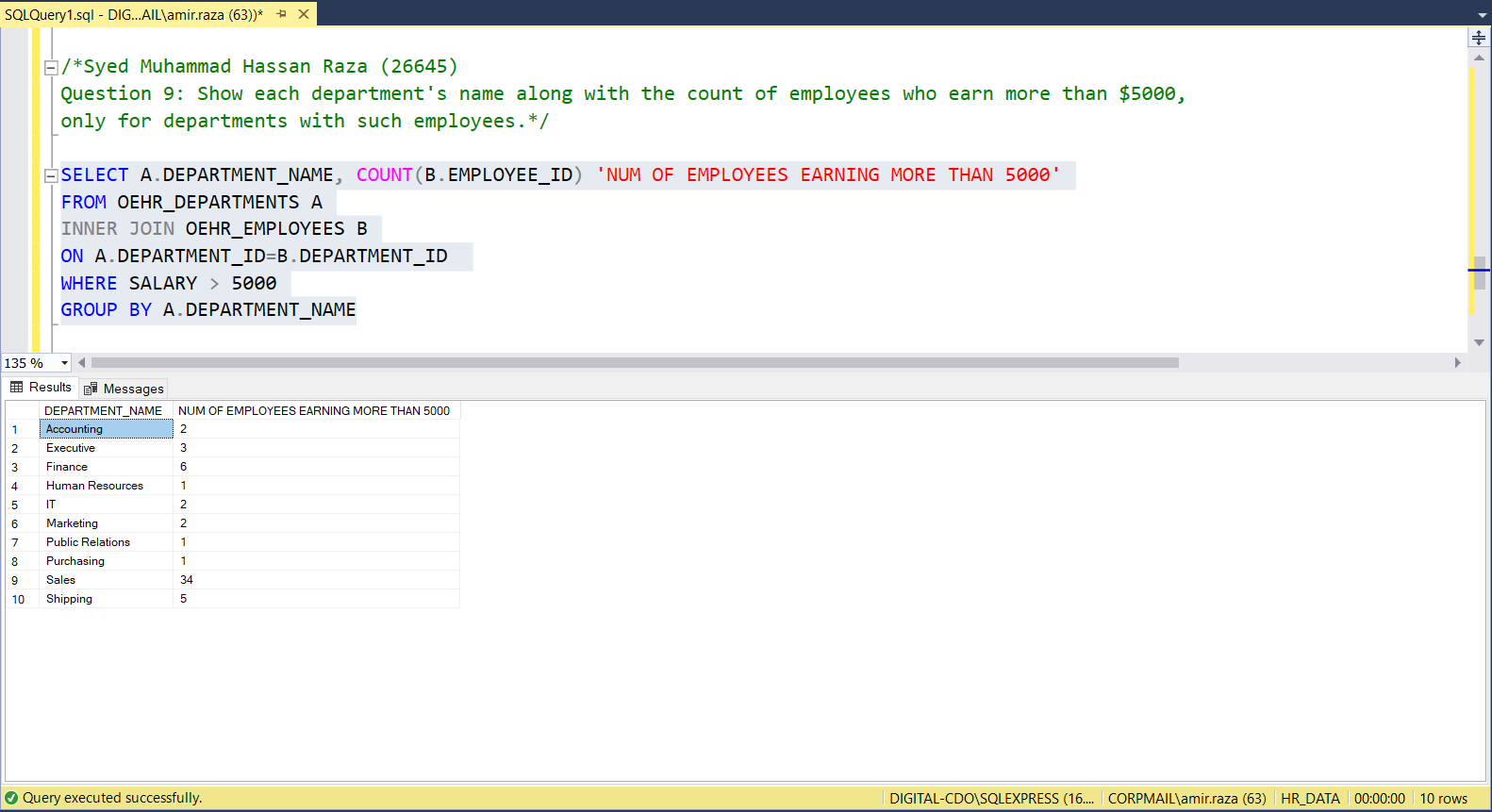
FROM OEHR\_DEPARTMENTS A

INNER JOIN OEHR\_EMPLOYEES B

ON A.DEPARTMENT\_ID=B.DEPARTMENT\_ID

WHERE SALARY > 5000

GROUP BY A.DEPARTMENT\_NAME



Question 10: For every employee, display their ID, last name, and a case statement that shows 'High Earner' if their salary is above 5000. Otherwise ‘Low Earner’.

SELECT EMPLOYEE\_ID, LAST\_NAME,

CASE WHEN SALARY > 5000 THEN 'HIGH EARNER' ELSE 'LOW EARNER' END AS 'SALARY TYPE'

FROM OEHR\_EMPLOYEES

