ASSIGNMENT-3

Assignment3.sql:

```
use AssignmentDB

select * from EMP;

select * from DEPT;

-- 1. Retrieve a list of MANAGERS.
select DISTINCT E1.MGR_ID, E2.ENAME AS MANAGER_NAME
from EMP E1
JOIN EMP E2 ON E1.MGR_ID = E2.EMPNO
where E1.MGR_ID IS NOT NULL;

-- 2. Find out the names and salaries of all employees earning more than 1000 per month.
select ENAME, SAL from EMP where SAL > 1000;

-- 3. Display the names and salaries of all employees except JAMES.
select ENAME, SAL from EMP where ENAME NOT IN ('JAMES');

-- 4. Find out the details of employees whose names begin with ‘S’.
select * from EMP where ENAME LIKE 'S%';

-- 5. Find out the names of all employees that have ‘A’ anywhere in their name.
select ENAME from EMP where ENAME LIKE '%A%';

-- 6. Find out the names of all employees that have ‘L’ as their third character in their name.
select ENAME from EMP where ENAME LIKE '__L%';

-- 7. Compute daily salary of JONES.
select ENAME, SAL/30 AS DAILY_SALARY from EMP where ENAME = 'JONES';
```

-- 8. Calculate the total monthly salary of all employees.

```
select SUM(SAL) AS TOTAL_MONTHLY_SALARY from EMP;
```

-- 9. Print the average annual salary.

```
select AVG(SAL) * 12 AS AVG_ANNUAL_SALARY from EMP;
```

-- 10. Select the name, job, salary, department number of all employees except SALESMAN from department number 30.

```
select ENAME, JOB, SAL, DEPTNO
from EMP
where DEPTNO = 30 AND JOB NOT IN ('SALESMAN');
```

-- 11. List unique departments of the EMP table.

```
select DISTINCT E.DEPTNO, D.DNAME
from EMP E
JOIN DEPT D ON E.DEPTNO = D.DEPTNO;
```

-- 12. List the name and salary of employees who earn more than 1500 and are in department 10 or 30. Label the columns Employee and Monthly Salary respectively.

```
select ENAME AS Employee, SAL AS "Monthly Salary"
from EMP
where SAL > 1500 AND DEPTNO IN (10, 30);
```

-- 13. Display the name, job, and salary of all the employees whose job is MANAGER or ANALYST and their salary is not equal to 1000, 3000, or 5000.

```
select ENAME, JOB, SAL
from EMP
where (JOB = 'MANAGER' OR JOB = 'ANALYST') AND SAL NOT IN (1000, 3000, 5000);
```

-- 14. Display the name, salary and commission for all employees whose commission amount is greater than their salary increased by 10%.

```
select ENAME, SAL, COMM
from EMP
where COMM > SAL * 1.0;
```

-- 15. Display the name of all employees who have two Ls in their name and are in department 30 or their manager is 7782.

```
select ENAME
from EMP
where (ENAME LIKE '%L%L%' AND DEPTNO = 30) OR MGR_ID = 7782;
```

-- 16. Display the names of employees with experience of over 30 years and under 40 yrs. Count the total number of employees.

```
WITH ExperiencedEmployees AS (
    select ENAME
    from EMP
    where DATEDIFF(YEAR, HIREDATE, GETDATE()) > 30
    AND DATEDIFF(YEAR, HIREDATE, GETDATE()) < 40
)
select ENAME, (select COUNT(*) from ExperiencedEmployees) AS TOTAL_EMPLOYEES
from ExperiencedEmployees;
```

-- 17. Retrieve the names of departments in ascending order and their employees in descending order.

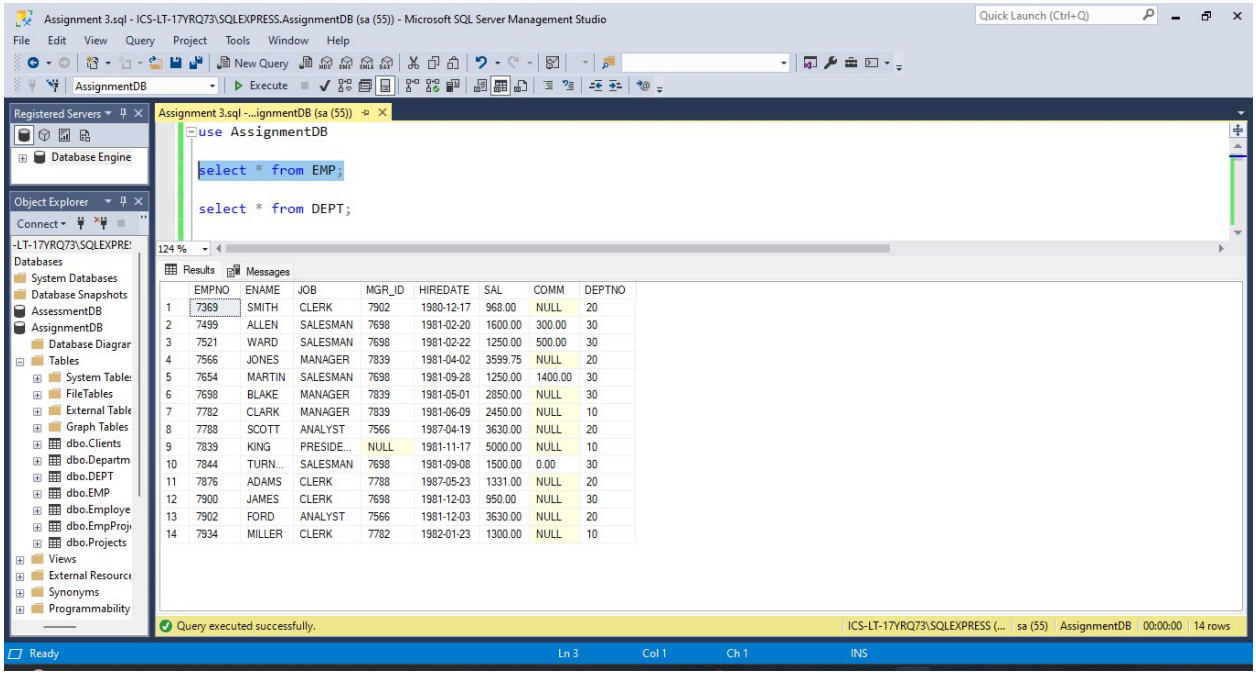
```
select D.DNAME, E.ENAME
from DEPT D
JOIN EMP E ON D.DEPTNO = E.DEPTNO
ORDER BY D.DNAME ASC, E.ENAME DESC;
```

-- 18. Find out experience of MILLER.

```
select ENAME, DATEDIFF(YEAR, HIREDATE, GETDATE()) AS EXPERIENCE_YEARS
from EMP
where ENAME = 'MILLER';
```

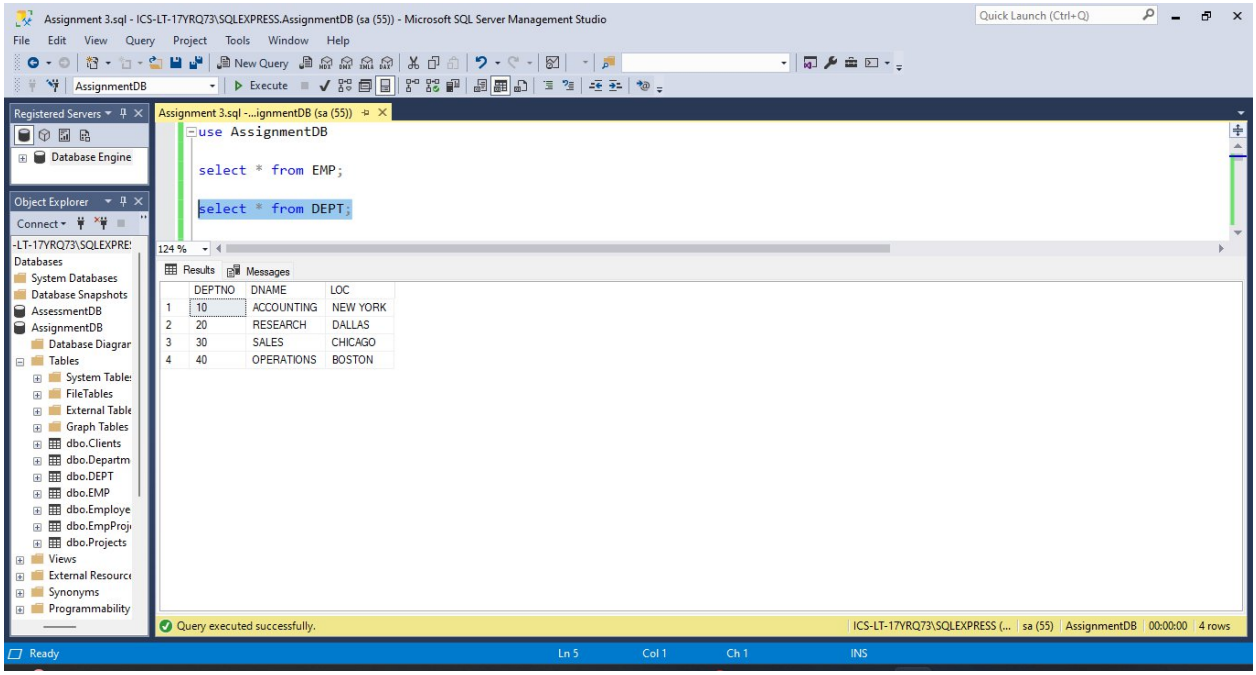
Queries Snapshots:

Employee Table



	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	1980-12-17	968.00	NULL	20
2	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
3	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
4	7566	JONES	MANAGER	7839	1981-04-02	3599.75	NULL	20
5	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
6	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
8	7788	SCOTT	ANALYST	7566	1987-04-19	3630.00	NULL	20
9	7839	KING	PRESIDE...	NULL	1981-11-17	5000.00	NULL	10
10	7844	TURN...	SALESMAN	7698	1981-09-08	1500.00	0.00	30
11	7876	ADAMS	CLERK	7788	1987-05-23	1331.00	NULL	20
12	7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
13	7902	FORD	ANALYST	7566	1981-12-03	3630.00	NULL	20
14	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

Department Table:



	DEPTNO	DNAME	LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON

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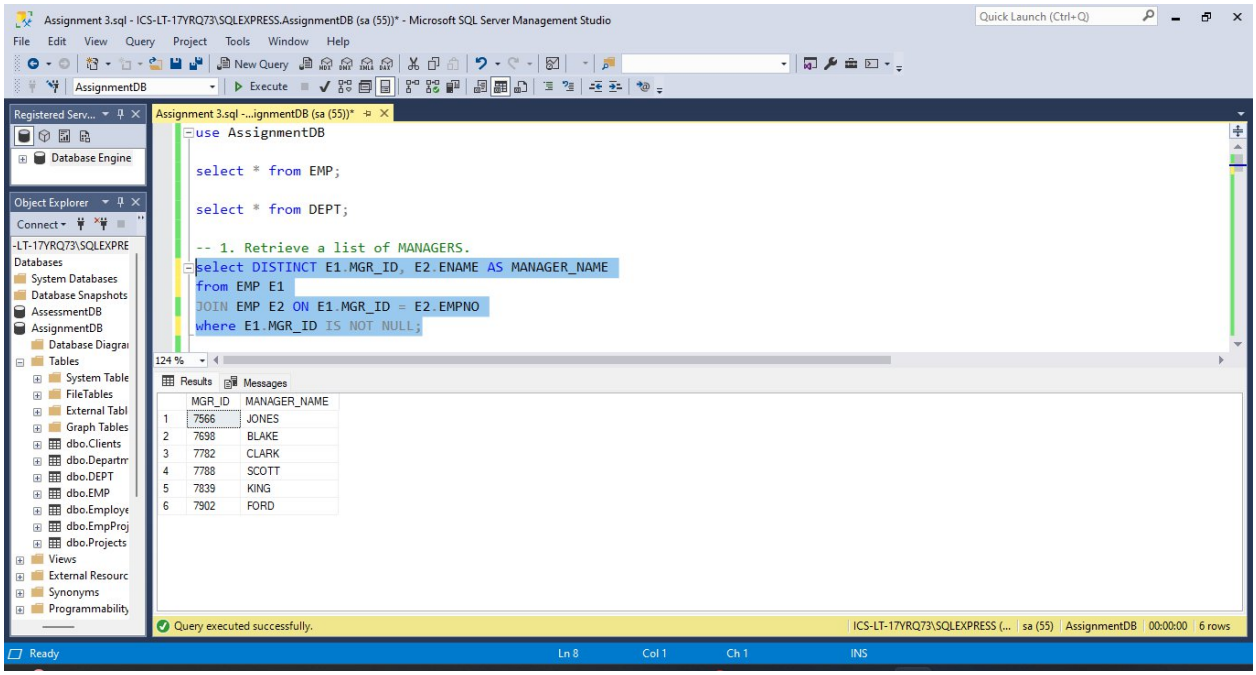
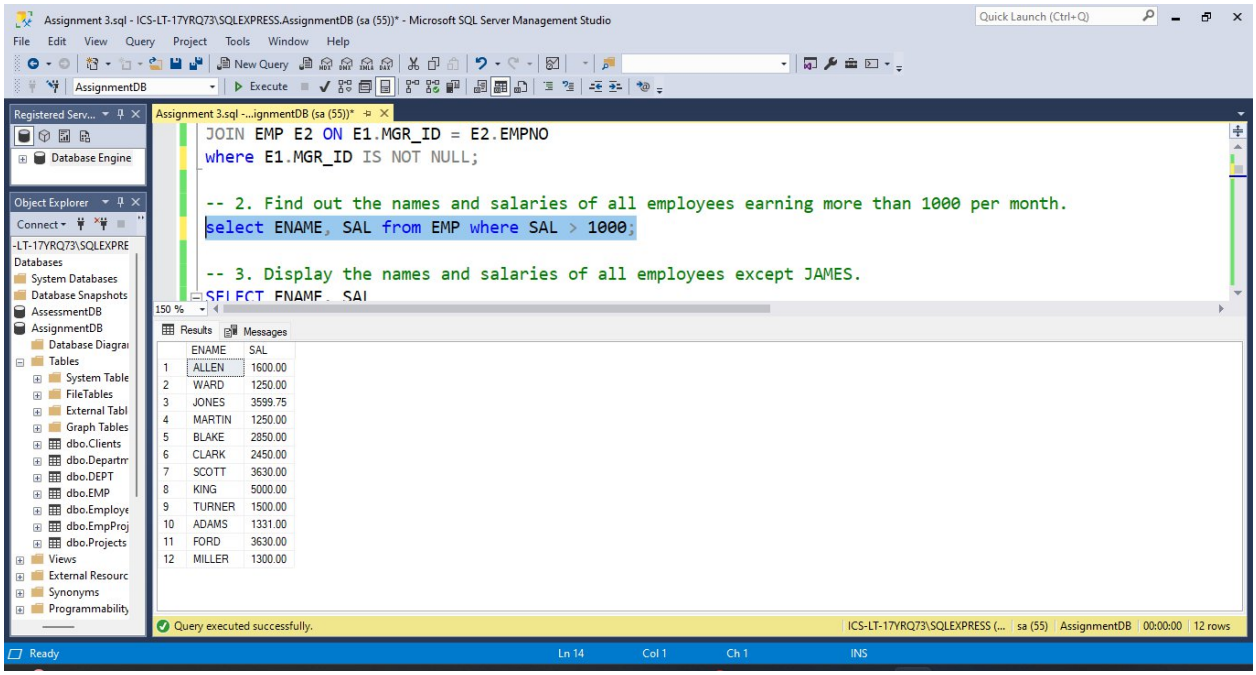


2. Find out the names and salaries of all employees earning more than 1000 per month.



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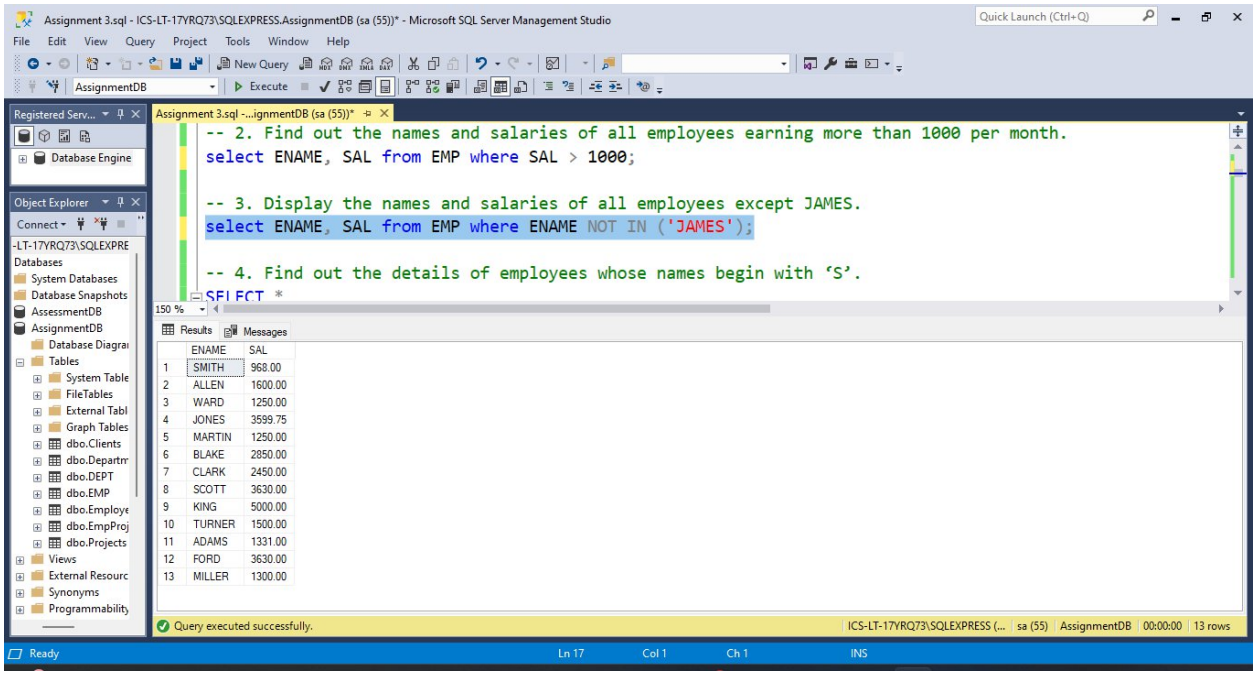

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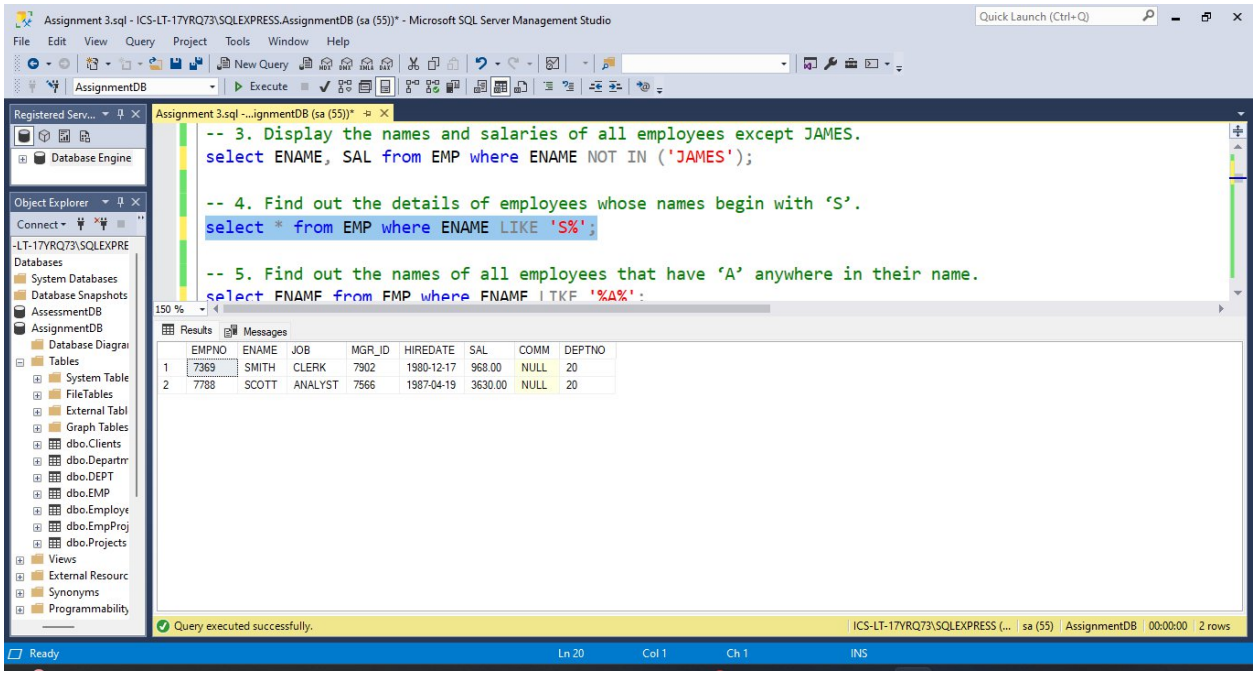

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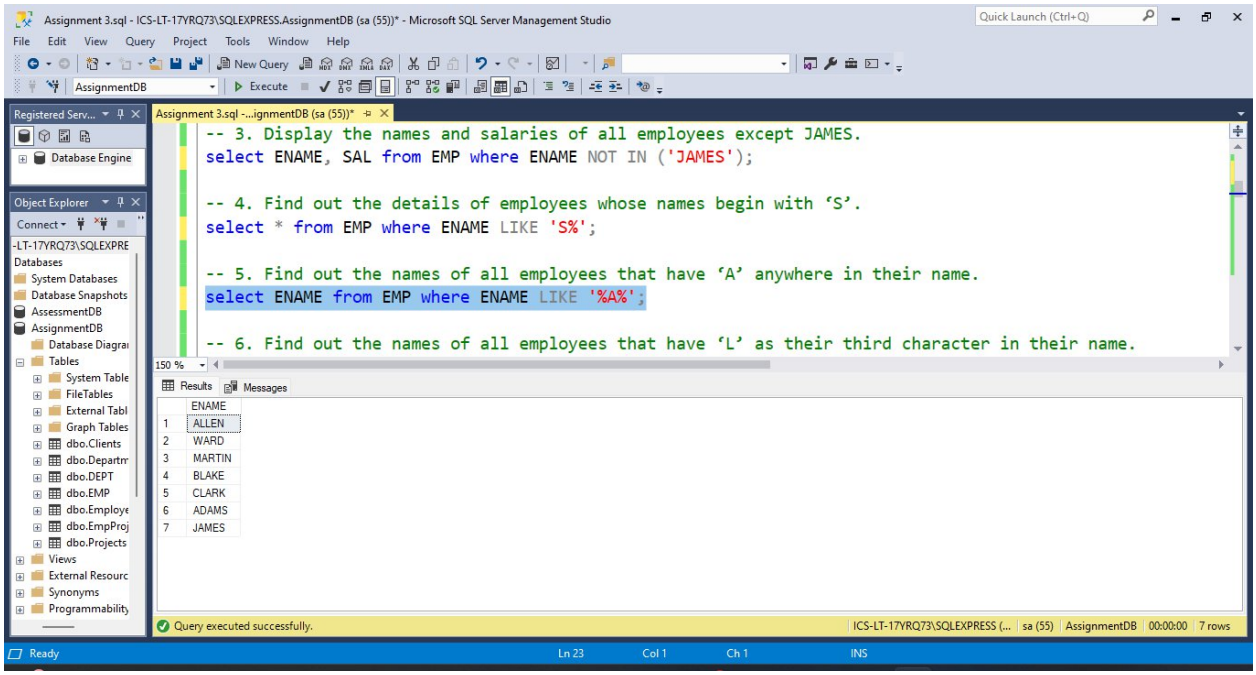

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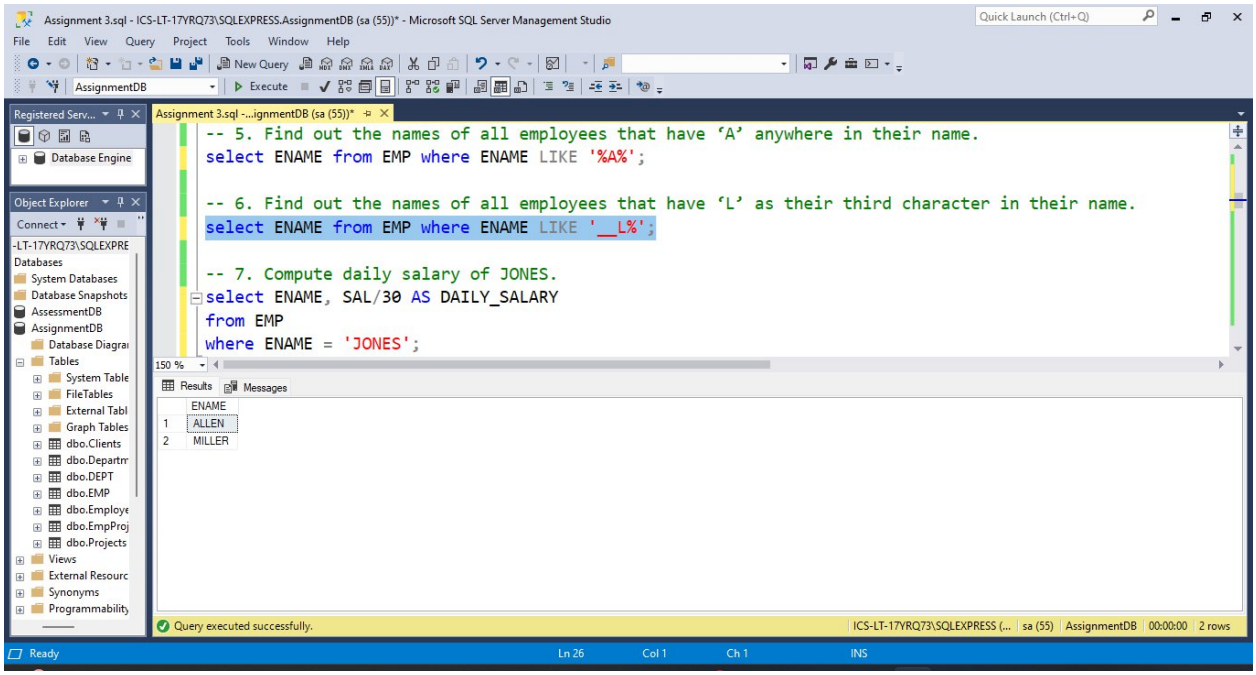

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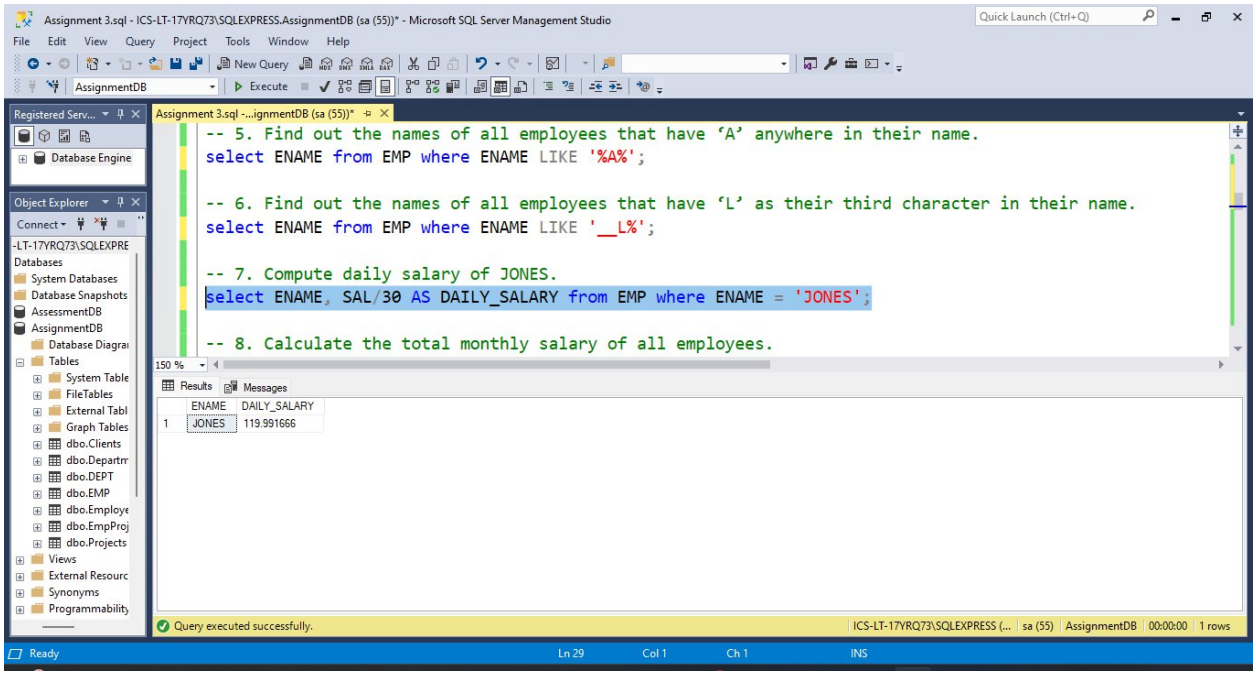

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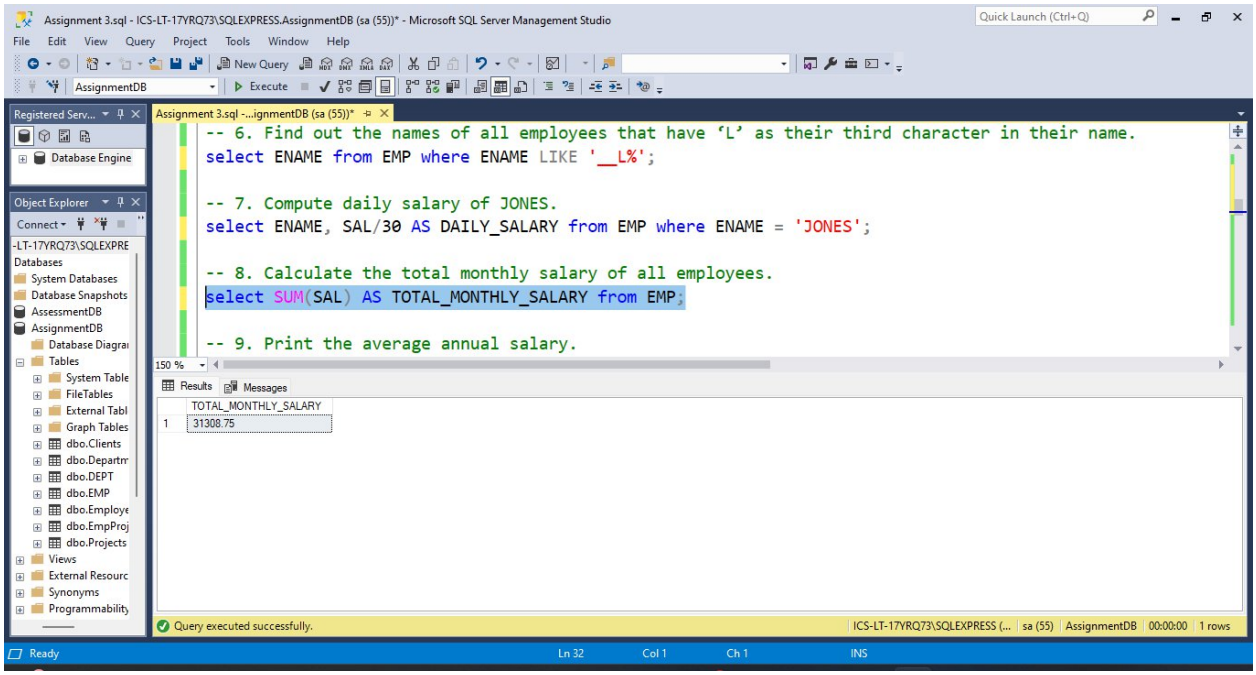

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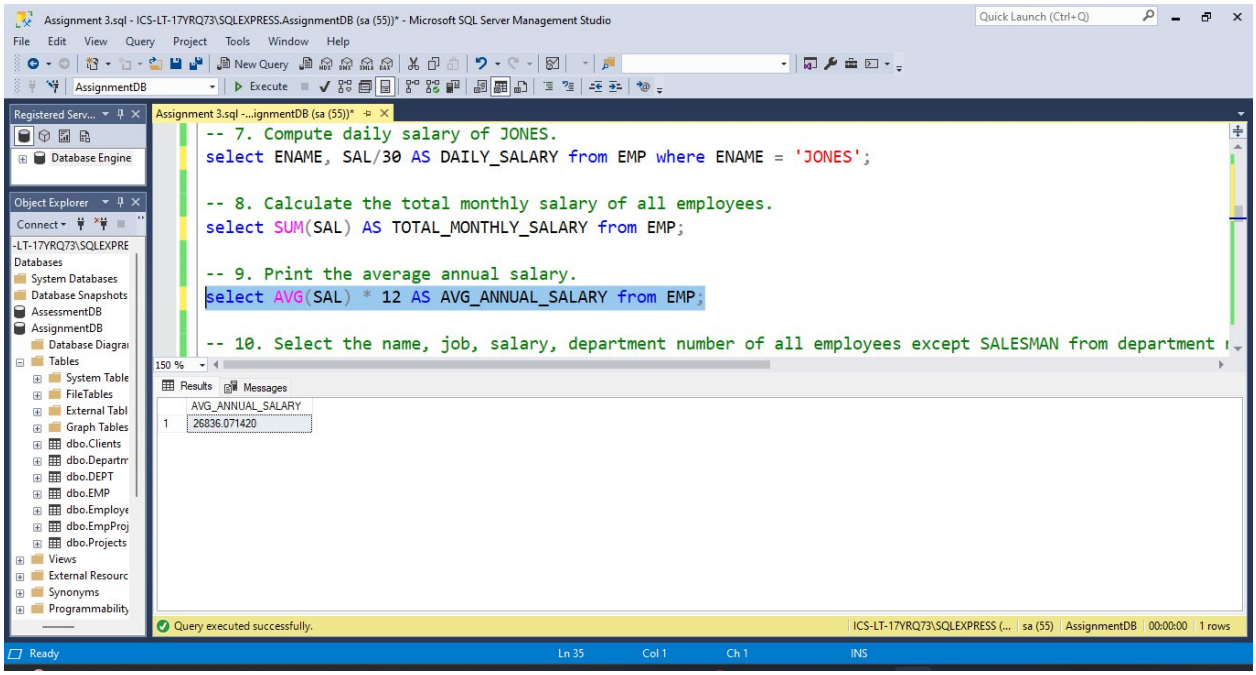

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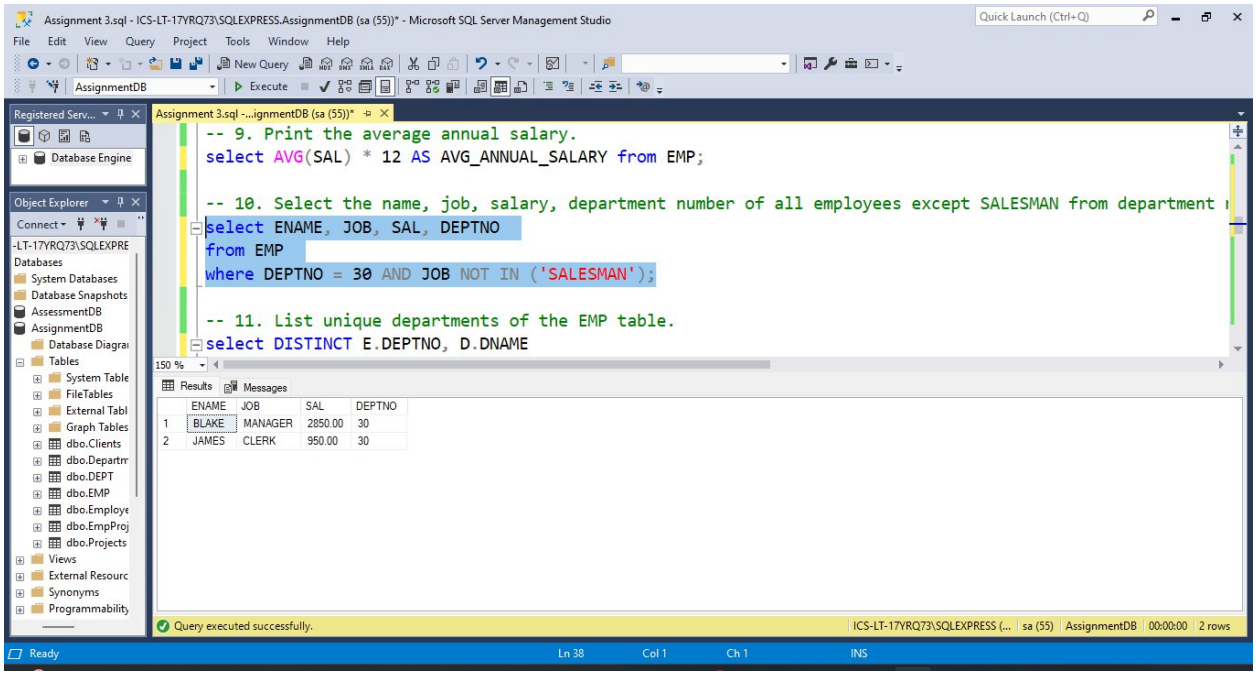

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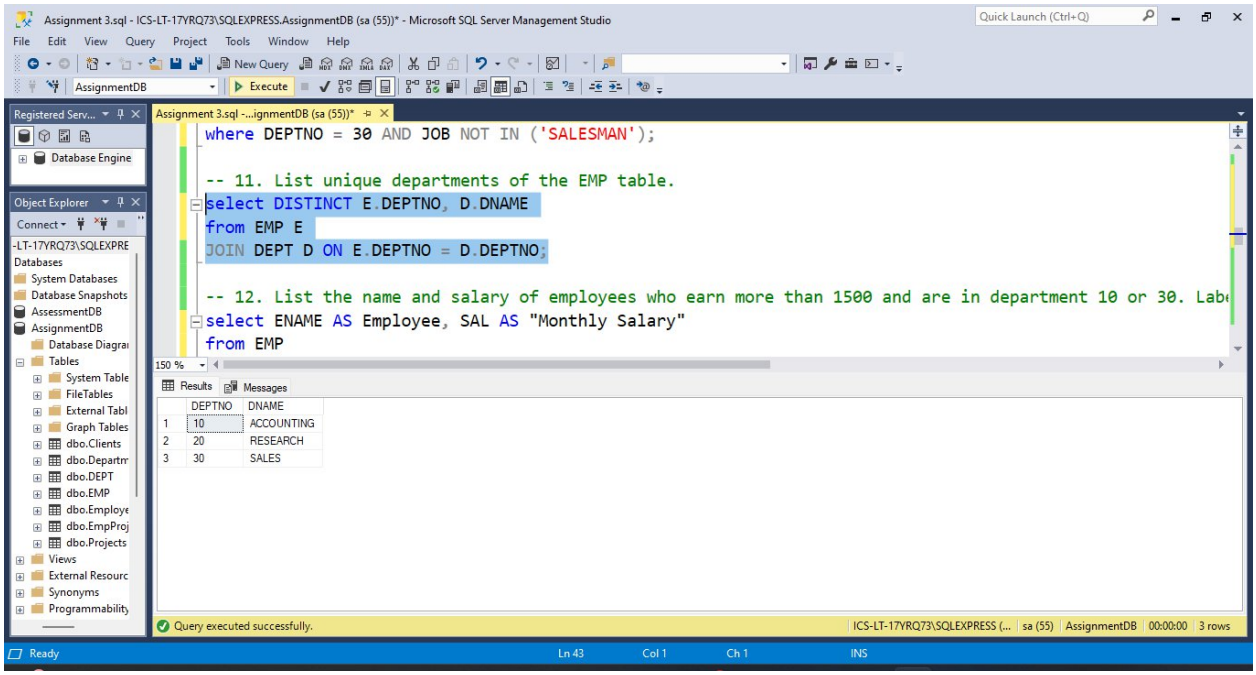

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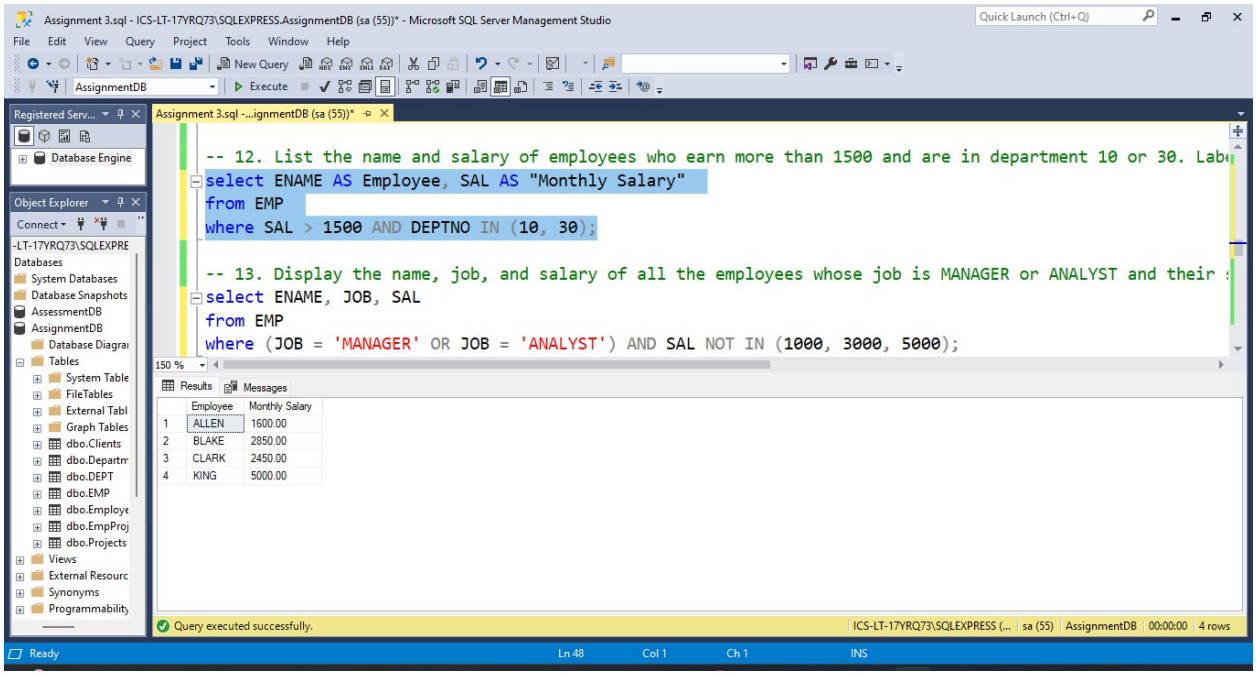

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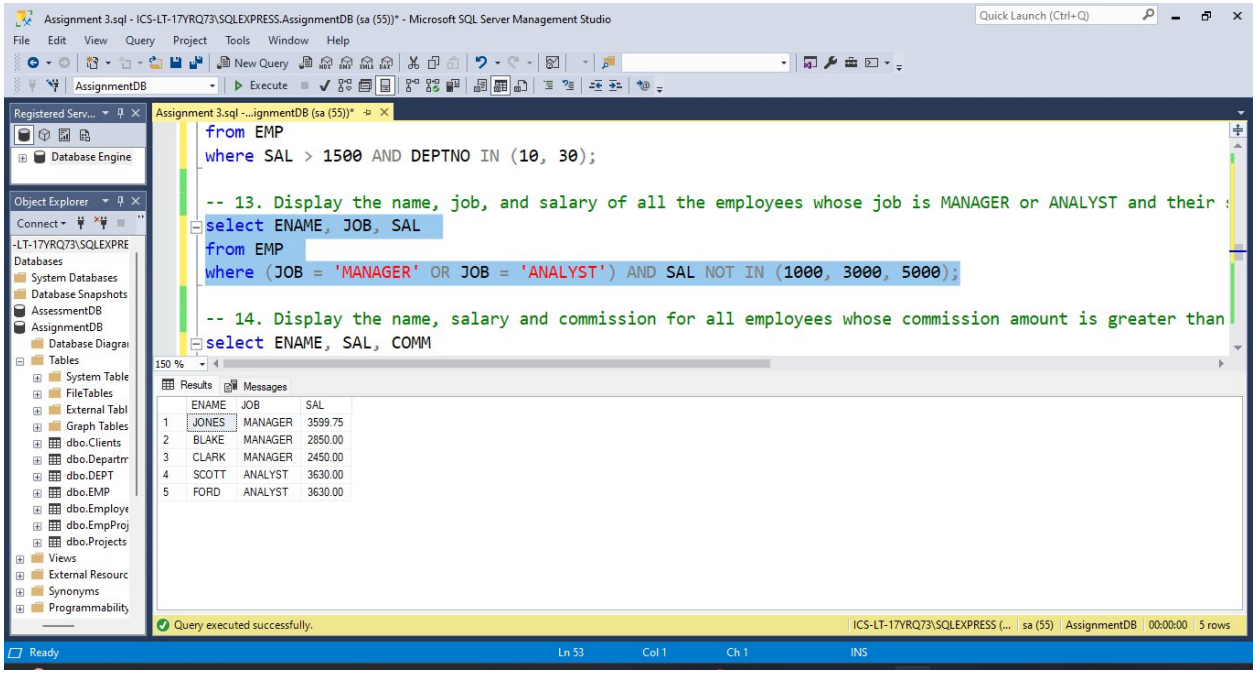

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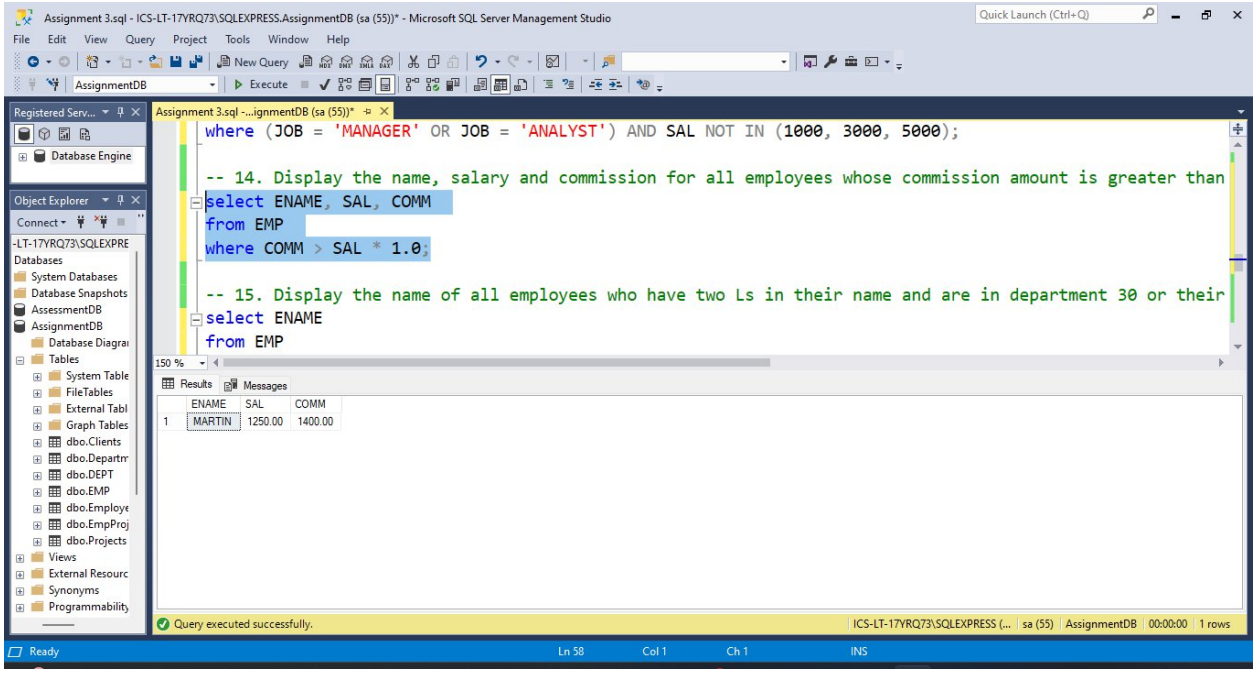

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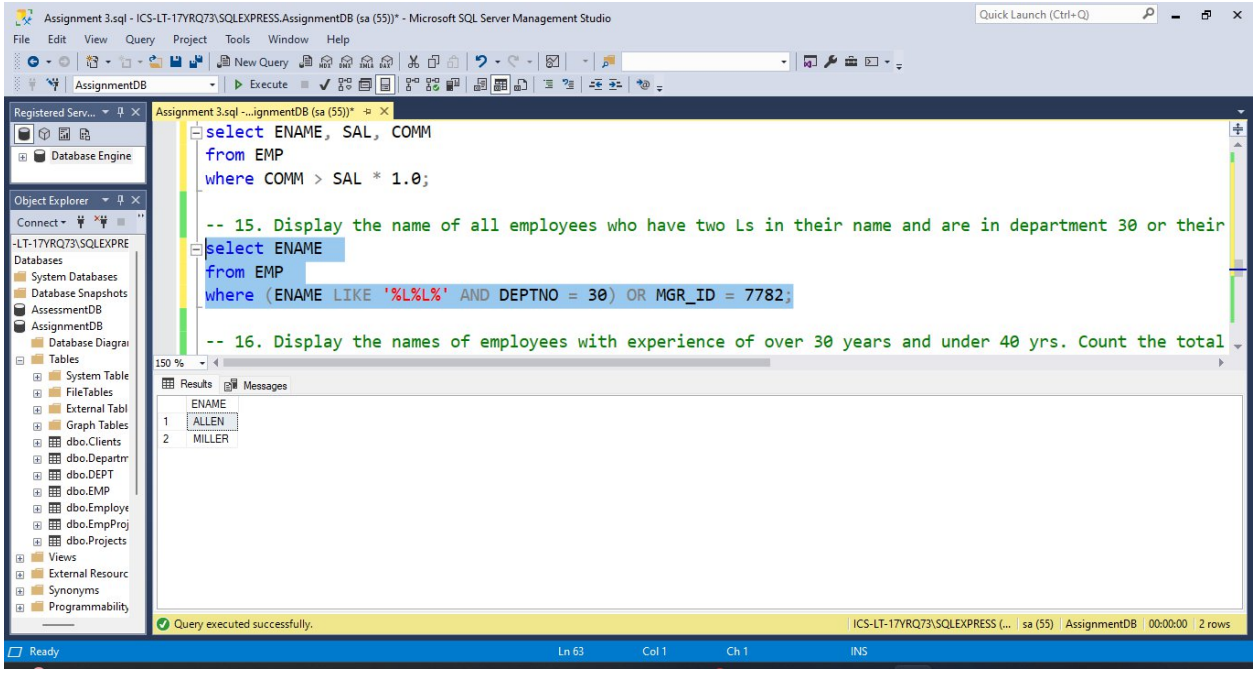

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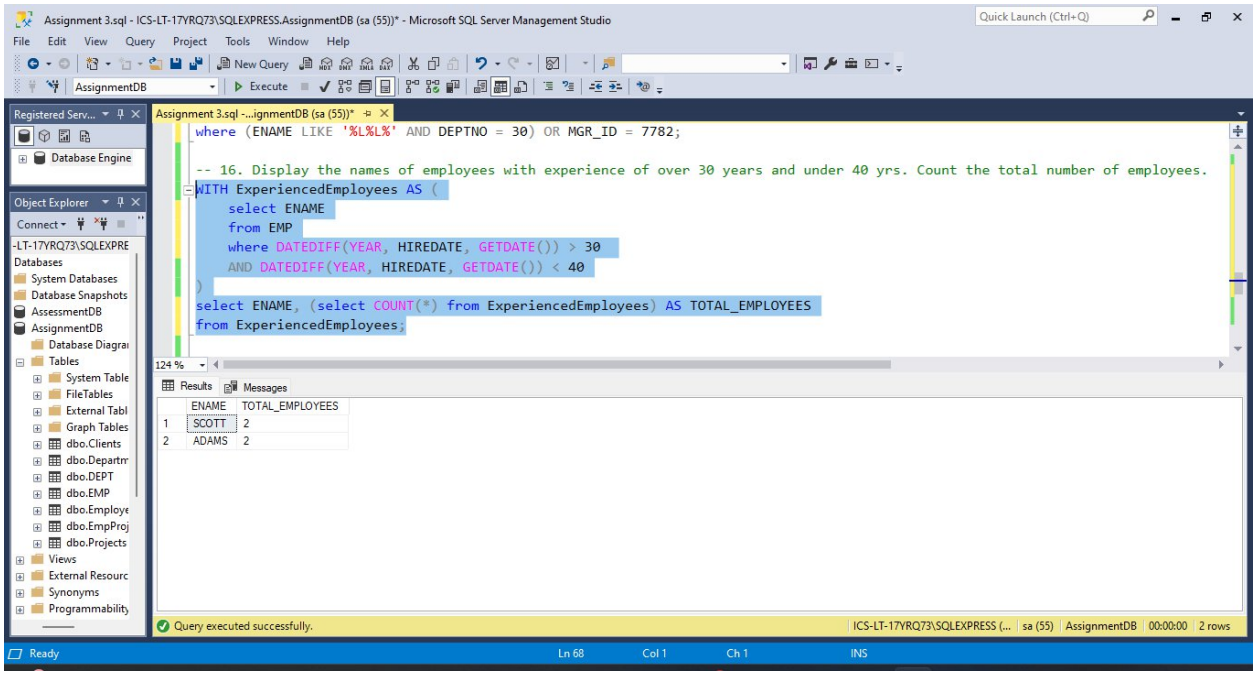

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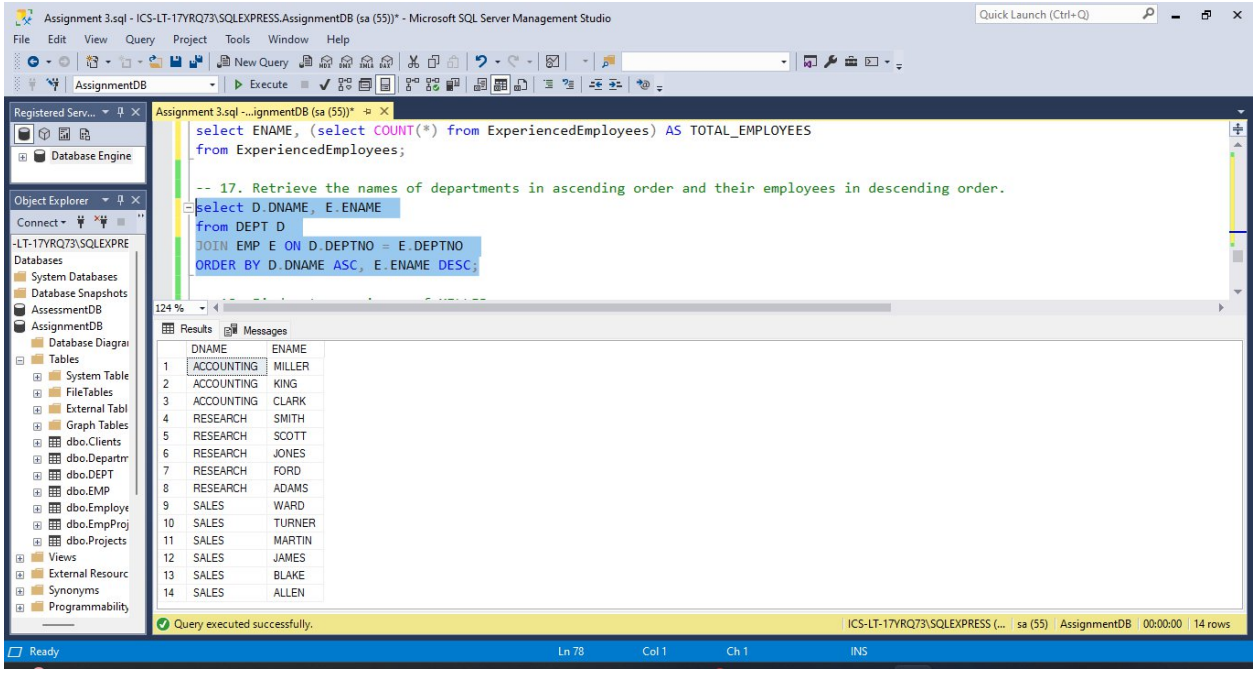

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