**Muhammad Abdullah**

**SE(4A) | 19F-0916**

Database Course

Assignment # 5

**PART # 1 SUB QUERIES**

**Q1**

**Graphical user interface, text, application

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**Q2**

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**Q3**

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**Q4**

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Description automatically generated**

**Q5**

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**Q6**

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**Q7**

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Description automatically generated**

**Q8**

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Description automatically generated**

**Q9**

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**PART 1 TOTAL QUERIES**

/\* Part 1 Queries with Sub Queries \*/

/\* Q1. Display the employee who got the maximum salary.\*/

Select \*

From EMP1

where SAL IN ( Select Max(SAL) From EMP1 )

/\* Q2. Display the employees who are working in Sales department.\*/

Select \*

From EMP1

Where DEPTNO IN (Select DEPTNO From DEPT1 Where DNAME = 'SALES')

/\* Q3. Display the employees who are working in “New York”.\*/

Select \*

From EMP1

Where DEPTNO IN (Select DEPTNO From DEPT1 Where LOC = 'NEW YORK')

/\* Q4. Find out no. of employees working in “Sales” department.\*/

Select COUNT(\*) as Total\_Employees

From EMP1

Where DEPTNO IN (Select DEPTNO From DEPT1 Where DNAME = 'SALES')

/\* Q5. List out the employees who earn more than every employee in department 30.\*/

Select \*

From EMP1

Where SAL > (Select MAX(SAL) as Max\_Salary

From EMP1

where DEPTNO IN (Select DEPTNO From DEPT1 where DEPTNO = '30'))

/\* Q6. List out the employees who earn more than the lowest salary in department 30.\*/

Select \*

From EMP1

Where SAL > (Select MIN(SAL) as Min\_Salary

From EMP1

where DEPTNO = '30')

/\* Q7. Find out whose department has not employees.\*/

Select \*

From DEPT1

Where DEPTNO NOT In ( Select DEPTNO From EMP1 )

/\* Q8. Find out which department does not have any employees.\*/

Select \*

From DEPT1

Where DEPTNO NOT In ( Select DEPTNO From EMP1 )

/\* Q9. Find out the employees who earn greater than the average salary for their department.\*/

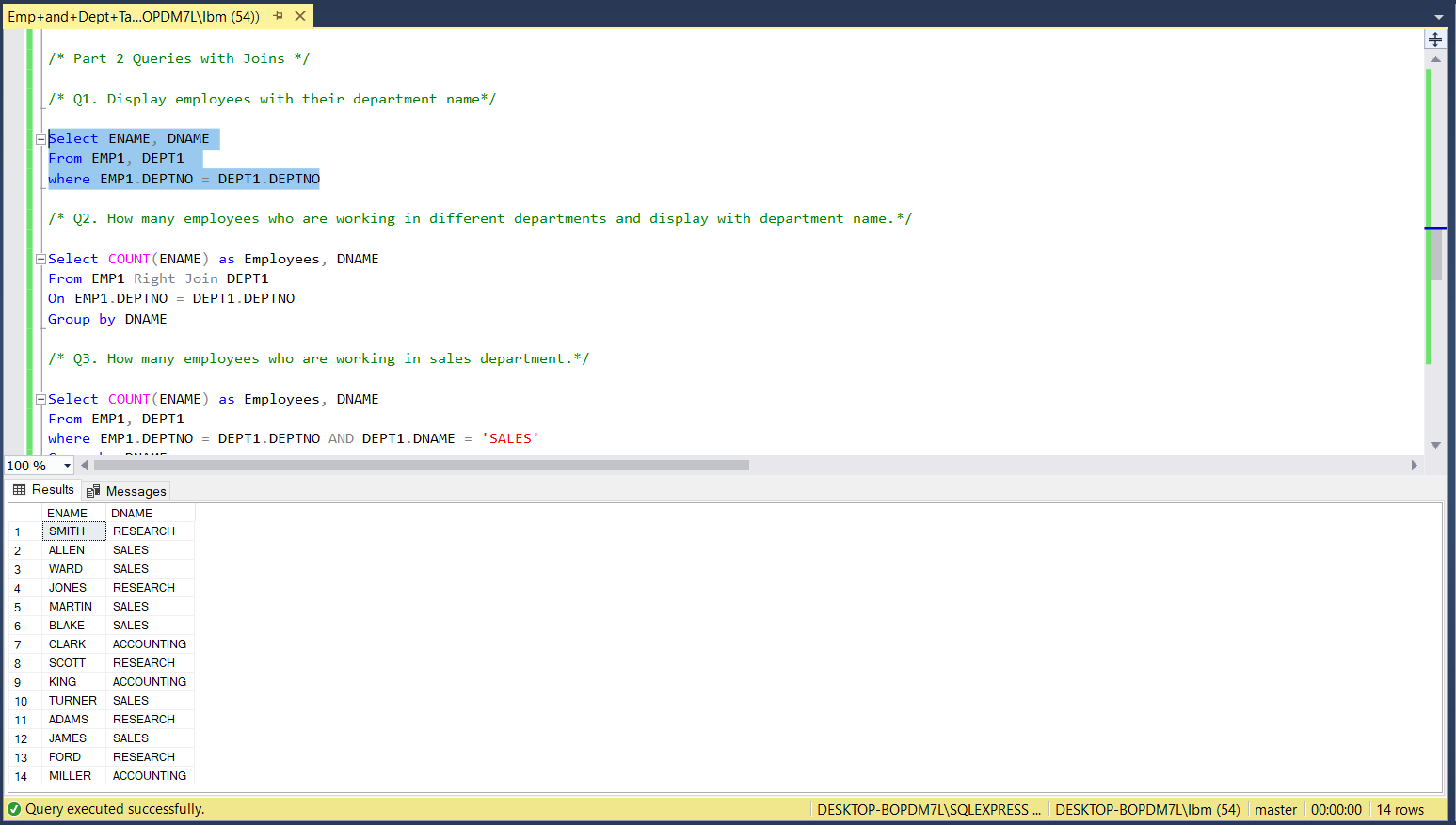
Select DISTINCT EName,DEPTNO,SAL

From EMP1, (Select Avg(SAL) as AVG\_Salary From EMP1 Where DEPTNO In ( Select DEPTNO From EMP1) Group By DEPTNO) T

Group By EName,DEPTNO,T.AVG\_Salary,SAL

Having SAL > T.AVG\_Salary

**PART # 2 SUB QUERIES**

**Q1**

**Q2**

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**Q3**

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**Q4**

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**Q5**

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**Q6**

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**Q7**

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**Q8**

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**Q9**

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**PART 2 TOTAL QUERIES**

/\* Part 2 Queries with Joins \*/

/\* Q1. Display employees with their department name\*/

Select ENAME, DNAME

From EMP1, DEPT1

where EMP1.DEPTNO = DEPT1.DEPTNO

/\* Q2. How many employees who are working in different departments and display with department name.\*/

Select COUNT(ENAME) as Employees, DNAME

From EMP1 Right Join DEPT1

On EMP1.DEPTNO = DEPT1.DEPTNO

Group by DNAME

/\* Q3. How many employees who are working in sales department.\*/

Select COUNT(ENAME) as Employees, DNAME

From EMP1, DEPT1

where EMP1.DEPTNO = DEPT1.DEPTNO AND DEPT1.DNAME = 'SALES'

Group by DNAME

/\* Q4. Which is the department having greater than or equal to 5 employees and display the department names in ascending order.\*/

Select COUNT(ENAME) as Employees, DNAME

From EMP1, DEPT1

where EMP1.DEPTNO = DEPT1.DEPTNO

Group by DNAME

Having COUNT(ENAME) >= 5

Order By DNAME ASC

/\* Q5. List out the total salary of each department\*/

Select SUM(SAL) as Total\_Salary, DNAME

From EMP1 Right Join DEPT1

On EMP1.DEPTNO = DEPT1.DEPTNO

Group by DNAME

/\* Q6. Display employee details with all departments.\*/

Select EMP1.\*, DNAME

From EMP1 Right Join DEPT1

On EMP1.DEPTNO = DEPT1.DEPTNO

/\* Q7. Display the employee details with their manager names.\*/

Select P.ENAME as Manager\_Name ,T.\*

From EMP1 P Right Join EMP1 T

On P.EMPNO = T.MGR

/\* Q8. Display the employee details who earn more than their managers' salaries.\*/

Select P.ENAME as Manager\_Name ,T.\*

From EMP1 P, EMP1 T

where P.EMPNO = T.MGR AND T.SAL > P.SAL

/\* Q9. Show the no. of employees working under every manager.\*/

Select COUNT(P.EMPNO) as Total\_Employees, T.MGR as Manager\_ID

From EMP1 P , EMP1 T

where P.EMPNO = T.MGR

Group By T.MGR