

**Practice 3 - Group Functions**

***Hex 2551***

**Tables :EMP ,DEPT**

1. Group functions work across many rows to produce one result. (True/False)

2. Group functions include nulls in calculations. (True/False)

3. The WHERE clause restricts rows prior to inclusion in a group calculation. (True/False)

4. Display the highest, lowest, sum, and average salary of all employees. Label the columns

Maximum, Minimum, Sum, and Average, respectively. Round your results to the nearest whole number.

MINIMUM MAXIMUM SUM AVERAGE

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800 5000 29025 2073

5. Modify the query in 4 exercise to display the minimum, maximum, sum, and average salary for

each job type.

MINIMUM MAXIMUM SUM AVERAGE

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3000 3000 6000 3000

800 1300 4150 1038

2450 2975 8275 2758

5000 5000 5000 5000

1250 1600 5600 1400

6. Write a query to display the number of people with the same job.

JOB COUNT(\*)

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ANALYST 2

CLERK 4

MANAGER 3

PRESIDENT 1

SALESMAN 4

7. Determine the number of managers without listing them. Label the column Number of

Managers.

NUMBER OF MANAGERS

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6

8. Write a query that displays the difference between the highest and lowest salaries. Label the

column DIFFERENCE.

DIFFERENCE

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4200

9. Display the manager number and the salary of the lowest paid employee for that manager.

Exclude anyone whose manager is not known. Exclude any groups where the minimum

salary is 1,000 or less. Sort the output in descending order of salary.

MGR MIN(SAL)

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7566 3000

7839 2450

7782 1300

7788 1100

10. Create a query that will display the total number of employees and, of that total, the number

of employees hired in 1981, 1983 and 1980. Create appropriate column headings.

TOTAL 1983 1982 1980

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14 1 2 1

11. Create a matrix query to display the job, the salary for that job based on department number,

and the total salary for that job, for departments 10 ,20 and 30, giving each column an

Appropriate heading.

JOB Dept 10 Dept 20 Dept 30 Total

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ANALYST 6000 6000

CLERK 1300 1900 950 4150

MANAGER 2450 2975 2850 8275

PRESIDENT 5000 5000

SALESMAN 5600 5600

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