Practice 5

Determine the validity of the following statements. Circle either True or False

- 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.
- 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 decimal position. Save your SQL statement in a file called p5q4.sql.

Maximum	Minimum	Sum	Average	
5000	800	29025	2073	

5. Modify p5q4.sql to display the minimum, maximum, sum, and average salary for each job type. Resave to a file called p5q5.sql. Rerun your query.

JOB	Maximum	Minimum	Sum	Average
ANALYST	3000	3000	6000	3000
CLERK	1300	800	4150	1038
MANAGER	2975	2450	8275	2758
PRESIDENT	5000	5000	5000	5000
SALESMAN	1600	1250	5600	1400

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

JOB	COUNT (*)			
ANALYST	2			
CLERK	4			
MANAGER	3			
PRESIDENT	1			
SALESMAN	4	1 3 1/2 3		No.

Practice 5 (continued)

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

SELECT COUNT DISTINCT MINE MANAGERS.

Number of Managers

Write a query that will display the difference between the highest and lowest salaries. Label the column DIFFERENCE.

DIFFERENCE

4200

If you have time, complete the following exercises:

Display the manager number and the salary of the lowest paid employee for that manager Exclude anyone where the manager id is not known. Exclude any groups where the minimum salary is less than \$1000. Sort the output in descending order of salary

alary is less than 5	1000. Soft the output in	Solice roge, MIN(Ja)
MGR	MIN(SAL)	From Emp
	**********	WHERE MAY IS NOT NULL
7566	3000	words By righ
7839	2450	wiells by 191
7782	1300	naving mIN (Sal) 21000
7788	1100	order by MIN (Sal) DES
1		0

Write a query to display the department name, location name, number of employees, and the average salary for all employees in that department. Label the columns' dname, loc, Number of People, and Salary, respectively.

DNAME	LOC	Number of People	Salary
ACCOUNTING	NEW YORK	3	2916.67
RESEARCH	DALLAS	5	2175
SALES	CHICAGO	6	1566.67

Select dedname, de loc, contit (*)"Number of Ecople,"

ANG (Sal) "Salary"

From Emp E, dept d

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practice 5

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Practice 5 (continued)

If you want extra challenge, complete the following exercises:

11. Create a query that will display the total number of employees and of that total the number who were hired in 1980, 1981, 1982, and 1983. Give appropriate column headings.

100					
14	1	10	9		
TOTAL 1	980	1981	1982	1983	

12. Create a matrix query to display the job, the salary for that job based upon department number and the total salary for that job for all departments, giving each column an appropriate heading.

Job	Dept 10	Dept 20	Dept 30	Total		
ANALYST		6000		6000		
CLERK	1300	1900	950	4150	#1	
MANAGER	2450	2975	2850	8275		
PRESIDENT	5000			5000		
SALESMAN			5600	5600		

SELECT COUNT (*) TOTAL,

SUM (DECODE (TO_CHAR(hirdet, 'YYYY'),

1980, 1, 0))"1980"

SUM (DECODE (TO_CHAR(hirdet, 'YYYY'))"

1981, 1, 0))"1981"

SUM (DECODE (TO_CHAR(hirdet, 'YYYY'),

1982, 1, 0))"1982"

SUM (DECODE (TO_CHAR (hirdet, 'YYYY'),

1982, 1, 0))"1983"

FROM EMP;