REPORTING AGGREGATE DATA USING GROUP FUNCTIONS - WORKSHEET

1. Write a query that will return four separate columns containing the highest, lowest, sum and average salary of all the employees. It is paramount to give each column a meaningful name.

	Maximum	Minimum	Total	Average
1	24000.00	2100.00	691400.00	6461.682242

1 row returned

2. Modify the previous query such that all the values will be rounded to decimal places.

	Maximum	Minimum	Total	Average
1	24000.00	2100.00	691400.00	6462.000000

1 row returned

3. Modify question 3, so that you get the same four columns but this time for each job type that exists. You are to include the job type as the fifth column. Sort your results using the job type.

	Maximum	Minimum	Total	Average	Job ID
1	8300.00	8300.00	8300.00	8300.000000	AC_ACCOUNT
2	12000.00	12000.00	12000.00	12000.000000	AC_MGR
3	4400.00	4400.00	4400.00	4400.000000	AD_ASST

•••

19 rows returned

4. Write a query that will list all the job types available and the number of people doing that particular job.

	job_id	No. of employees
1	AC_ACCOUNT	1
2	AC_MGR	1
3	AD_ASST	1
4	AD_PRES	1

••••

19 rows returned

5. Write a query that will list the number of managers without listing them. The query should return only one column named 'No. of managers' with one single row containing the amount of managers.

	No. of managers
1	18

1 row returned

6. Write a query that will display the difference between the highest and lowest salary in the database.

	Difference
1	21900.00

1 row returned

7. Write a query that will display the manager number and the salary of the lowest paid employee for that manager. Exclude any employee whose manager is not known. Exclude any groups where the minimum salary is 6000 or less.

	manager_id	Min Salary
1	102	9000.00
2	205	8300.00
3	145	7000.00
4	146	7000.00

••••

8 row returned

8. Write a query that will display the total number of employees and, of that total, the number of employees hired in 1995, 1996, 1997 and 1998.

	Total	1995	1996	1997	1998
1	107	4	10	28	23

1 row returned

9. Write a query that will display the job, the salary for that job based on department number and the total salary for that job for departments 20, 50 and 80. Sort your results using the highest value in department 20

	job_id	Dep 20	Dep 50	Dep 80	Total salary
1	MK_MAN	13000.00	NULL	NULL	13000.00
2	MK_REP	6000.00	NULL	NULL	6000.00
3	PR_REP	NULL	NULL	NULL	10000.00
4	PU_CLERK	NULL	NULL	NULL	13900.00

19 rows returned