Online 1 (A1)

Suppose, you are a database expert (going to be) in a company having the oracle database system like the one installed in your lab. One day, your CEO told you to provide him/her with the following information from the **hr schema** of your database. Sample outputs have been provided. Observe carefully, your column names are expected to be matched with the provided output's column names.

1. Find the number of employees working in each city. Order the output according to the city name.

CITY	Employee Count
London	1
Munich	1
Oxford	34

2. For each employee, find his/her manager's name, department name and job title along with his/her name and ID. Order the output according to employee ID.

EMPLOYEE_ID	NAME	Manager Name	DEPARTMENT_NAME	JOB_TITLE
100	Steven King		Executive	President
101	Neena Kochhar	Steven King	Executive	Administration Vice President
102	Lex De Haan	Steven King	Executive	Administration Vice President
103	Alexander Hunold	Lex De Haan	IT	Programmer
104	Bruce Ernst	Alexander Hunold	IT	Programmer

3. For each manager, find their ID, name, salary, number of employees working under them and the average salary of the employees. Take average up to two decimal points. Order the output according to manager ID.

Manager ID	Manager Name	SALARY	EMPLOYEE_COUNT	AVG_SALARY
100	Steven King	24000	14	11100
101	Neena Kochhar	17000	5	8983.2
102	Lex De Haan	17000	1	9000
103	Alexander Hunold	9000	4	4950

4. For each employee who have never switched job, find his/her ID, full name (first name + ' ' + last name), department name, job title and annual salary (= salary * 12 * (1 + COMMISSION_PCT)). Order the output according to employee ID.

EMPLOYEE_ID	FULLNAME	DEPARTMENT_NAME	JOB_TITLE	ANNUAL SALARY
100	Steven King	Executive	President	288000
103	Alexander Hunold	IT	Programmer	108000
104	Bruce Ernst	IT	Programmer	72000

5. For each manager, find the total number of employees who earn more than him/her and who earn less than him/her. Print the manager's ID, name, salary, number of employees who earn more than him/her and number of employees who earn less than him/her. Order the output according to manager ID.

MANAGER_ID	NAME	SALARY	RICHER THAN	POORER THAN
100	Steven King	24000	106	0
101	Neena Kochhar	17000	104	1
102	Lex De Haan	17000	104	1
103	Alexander Hunold	9000	80	23