

1. Find name and number of departments in each city ordered by name of the city. You are not allowed to use join in this question.
2. The average salary of a department is the average of the salaries got by the employees working in that department. Find out the departments which either has the average salary more than the average salaries of every other departments or which has the average salary less than the average salaries of every other departments. Print the department id and average salary for each of the departments. You **MUST** use set operation(s).
3. Print HIRE_DATE and COUNTRY_NAME of the most senior employee of each department. If a department has no employee then HIRE_DATE will be 'January/01/ 1900'. Note that the date format is 'Full month name/Date as number/4 digit Year'.
4. There are several employees working in each department. Each employee is under a manager. Is it possible that an employee is getting more salary than his/her manager? Print the unique department names if there are departments with the above mentioned scenario. You are **not allowed** to use Join operation to accomplish this task.
5. Print the job titles of those managers who have at least one other previous job. You are **not allowed** to use Join operation to accomplish this task.
6. It is expected that employees who have at least one other previous job, have more salary than those who don't. Is it the case for all departments? Print those department names whose fresh employees' (this is their first job) average salary is more than the experienced employees' (they have at least one job switch) average salary. You are **not allowed** to use Join operation to accomplish this task.