Homework 3

Proving yourself worthy of being able to handle bigger tasks, the tech lead has decided to give you a challenging job. However, this time, the data that you would be handling is very sensitive and no one wants this data to be leaked. Therefore, instead of getting the entire table, the tech lead has given you the list of attributes that the table contains and the table name. The information given is as follows:

Table Name: ***employees***	
Attribute Name	Attribute type
employee_id	char(10)
first_name	varchar(20)
last_name	varchar(20)
email	varchar(60)
phone_number	char(14)
hire_date	date
job_id	int

salary	int
commission_pct	decimal(5,3)
manager_id	char(10)
department_id	int

You are tasked with building the queries to retrieve the following information:

1. Find the first_name, last_name, email, phone_number, hire_date and department_id of all the employees with the latest hire_date in each department.

2. Find the ***first_name***, ***last_name***, ***email***, ***phone_number, hire_date*** and *department_id* of all the employees with the oldest hire_date in each department.

3. Find the ***first_name***, ***last_name***, ***employee_id***, ***phone_number, salary*** and *department_id* of all the employees with the lowest salary in each department.

4. Find the ***first_name***, ***last_name***, ***employee_id***, ***commission_pct*** and *department_id* of all the employees in department XYZABC (department_id = 7) who have a lower *commission_pct* than all of the employees of department ABCXYZ(department_id = 5).

5. Find the Total number of employees in each department.

6. Find the ***first_name***, ***last_name***, ***employee_id***, ***email, salary*** and *department_id* of all the employees who joined before 2020.

7. Find the ***first_name***, ***last_name***, ***employee_id***, ***email, salary*** and *department_id* of the employee who has the highest salary working under the manager with id= abcd998773.

8. Find the department_id for which does not have any employee under it with a salary more than 30,000.

9. For each of the departments, find the ***department_id***, *job_id* and *commission_pct* with *commission_pct* less than at least one other *job_id* in the department.

10. Find the ***first_name***, ***last_name***, ***employee_id***, *email, salary, department_id and commission_pct* of the employee who has the lowest *commission_pct* under each manager.

11. Count the number of employees where the employee is a manager.

12. For each of the departments, find the ***department_id***, ***job_id*** and ***salary*** with ***salary*** less than at least one other ***job_id*** in the department.

13. Find the ***manager_id*** for who have at least one employee under them with a ***salary*** greater than 1500.

14. Find the ***manager_id*** for who have at least one employee under them with a ***commission_pct*** less than 15.25.

15. Find the ***manager_id*** for who does not have any employee under them with a ***salary*** less than 3500.

Write queries for these problems in your machine and submit the queries in the following google form :
link of the google form

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