**Homework 03**

Task 01: SELECT first\_name, last\_name, email, phone\_number, hire\_date, department\_id FROM employees WHERE (hire\_date, department\_id) IN (SELECT max(hire\_date), department\_id FROM employees GROUP BY department\_id);

Task 02: SELECT first\_name, last\_name, email, phone\_number, hire\_date, department\_id FROM employees WHERE (hire\_date, department\_id) IN (SELECT min(hire\_date), department\_id FROM employees GROUP BY department\_id);

Task 03: SELECT first\_name, last\_name, employee\_id, phone\_number, salary,department\_id from employees WHERE (salary,department\_id) IN (SELECT min(salary),department\_id FROM employees GROUP BY department\_id);

Task 04: SELECT first\_name, last\_name, employee\_id, commission\_pct,department\_id from employees WHERE department\_id=7 AND commission\_pct < ALL (SELECT commission\_pct from employees WHERE department\_id=5);

Task 05: SELECT department\_id, COUNT(\*) FROM employees group by department\_id;

Task 06: SELECT first\_name, last\_name, employee\_id, email, salary ,department\_id FROM employees WHERE hire\_date<'2020-01-01';

Task 07: SELECT first\_name, last\_name, employee\_id, email, salary ,department\_id FROM employees WHERE salary = (select max(salary) FROM employees WHERE manager\_id='abcd998773');

Task 08: SELECT distinct department\_id   
FROM employees e1   
WHERE NOT EXISTS  
(SELECT \*   
FROM employees e2 WHERE e2.department\_id = e1.department\_id and e2.salary>30000);

Task 09: SELECT department\_id, job\_id, commission\_pct   
FROM employees e1   
WHERE EXISTS   
(SELECT \*  
FROM employees e2 WHERE e1.department\_id=e2.department\_id AND e1.job\_id!=e2.job\_id AND e1.commission\_pct<e2.commission\_pct);

Task 10: SELECT first\_name, last\_name, employee\_id, email, salary, department\_id ,commission\_pct FROM employees WHERE (commission\_pct ,manager\_id) IN (select min(commission\_pct ), manager\_id from employees group by manager\_id);

Task 11: SELECT COUNT(\*) FROM employees where manager\_id= employee\_id;

Task 12: SELECT department\_id, job\_id ,salary from employees WHERE (salary,department\_id) NOT IN(select max(salary),department\_id FROM employees GROUP BY department\_id);

Task 13: SELECT manager\_id FROM employees WHERE salary = ANY (SELECT salary FROM employees WHERE salary > 1500 GROUP BY manager\_id);

Task 14: SELECT manager\_id FROM employees WHERE commission\_pct = ANY(SELECT commission\_pct WHERE commission\_pct<15.25) GROUP BY manager\_id;

Task 15: SELECT distinct manager\_id   
FROM employees e1 WHERE EXISTS  
(SELECT \*  
FROM employees e2 WHERE e2.manager\_id = e1.manager\_id AND e2.salary>3500);