Create database 21201207\_CSE370\_Lab2

create table employees

-> (employee\_id char(10),

-> first\_name varchar(20),

-> last\_name varchar(20),

-> email varchar(60),

-> phone\_number char(14),

-> hire\_date date,

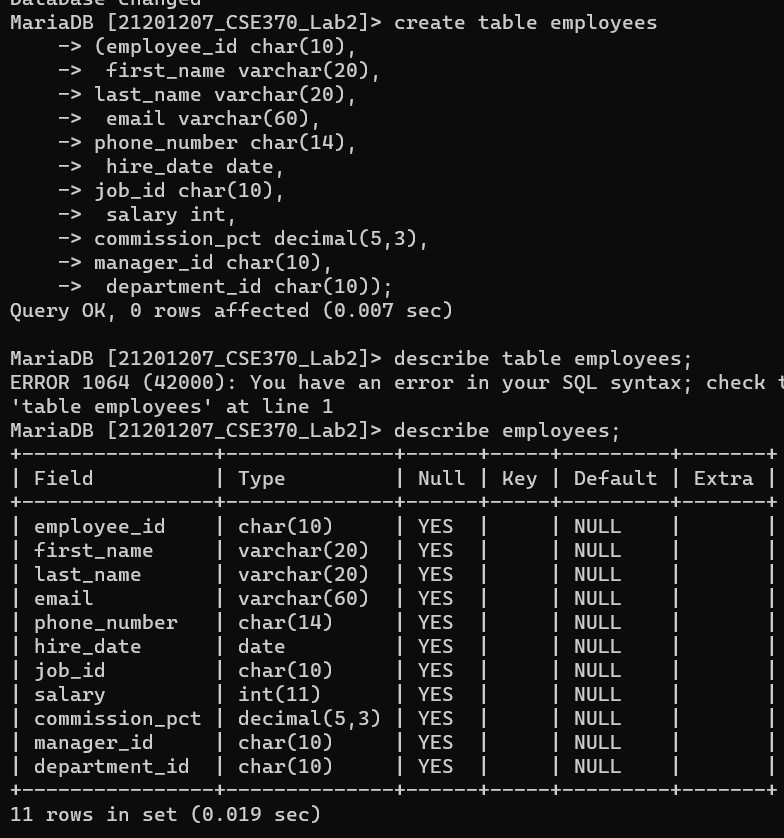
-> job\_id char(10),

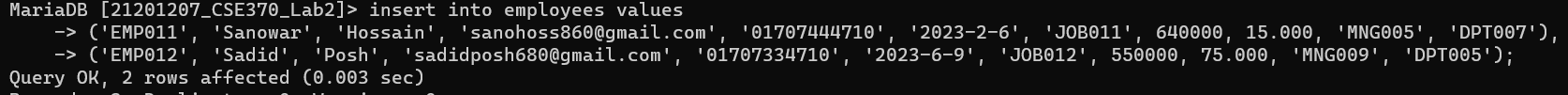
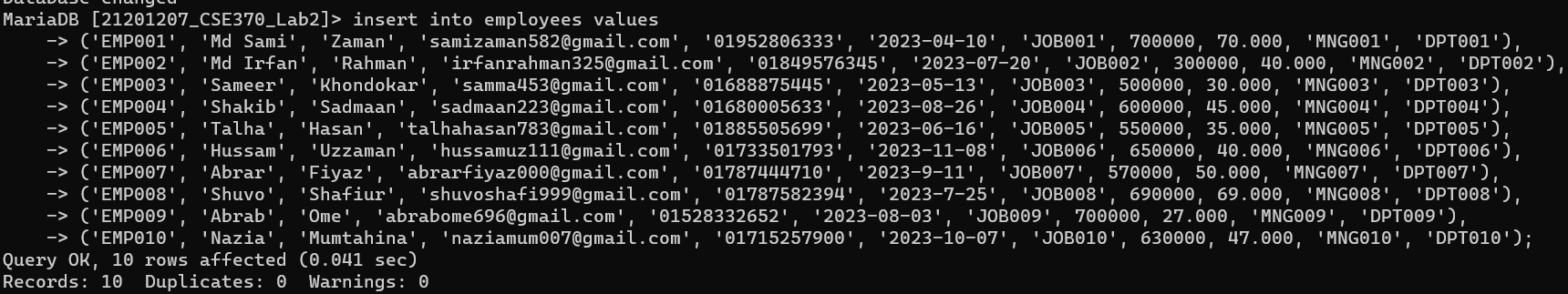
-> salary int,

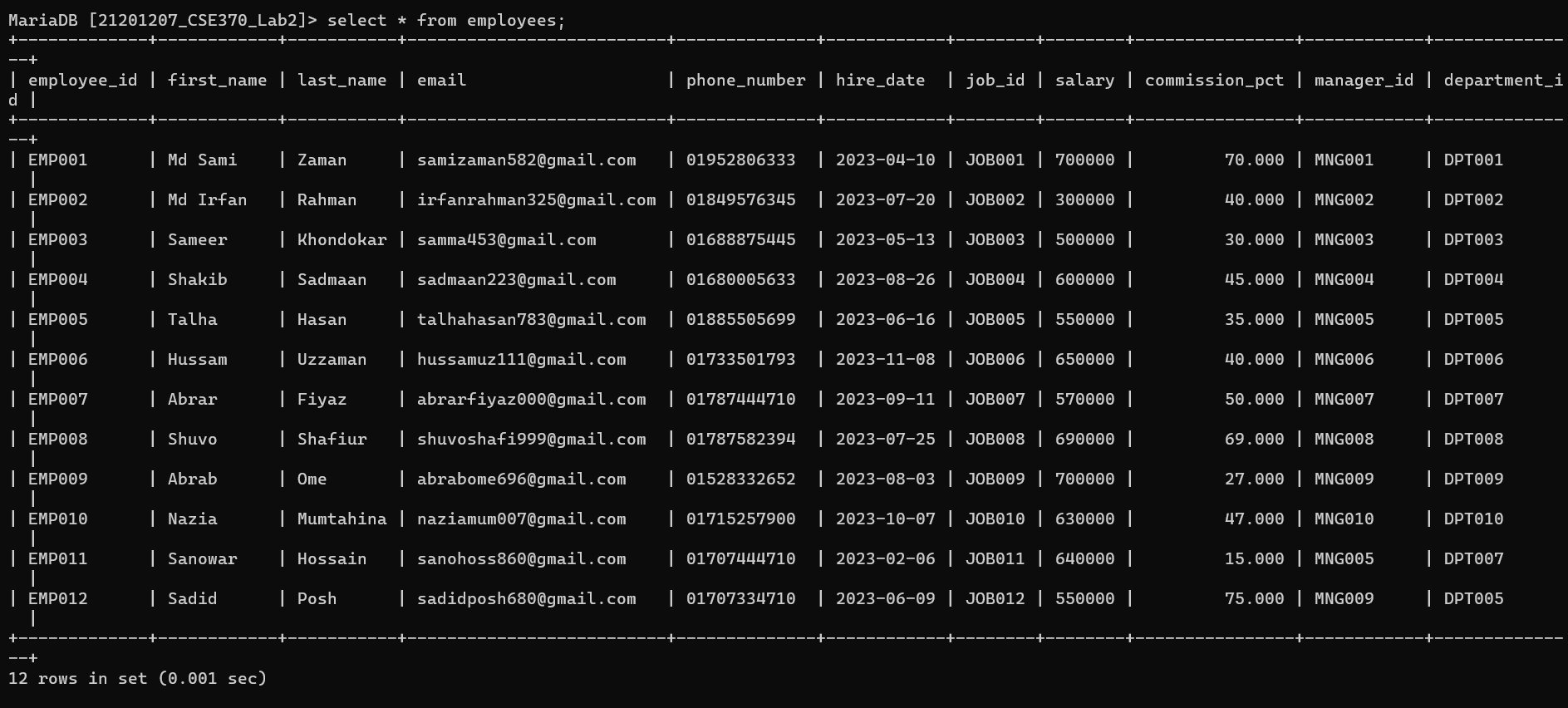
-> commission\_pct decimal(5,3),

-> manager\_id char(10),

-> department\_id char(10));

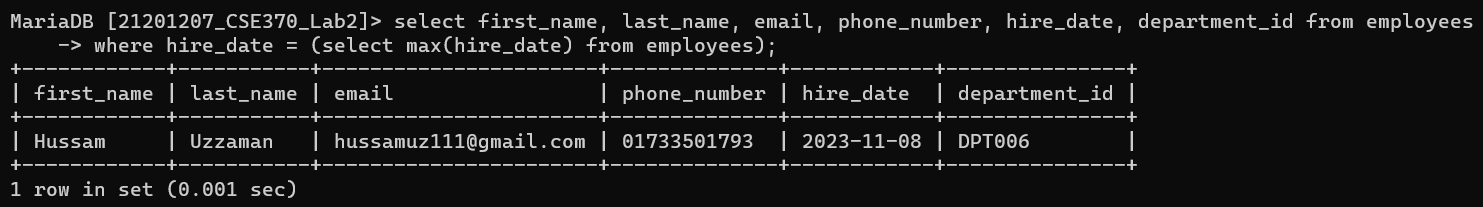






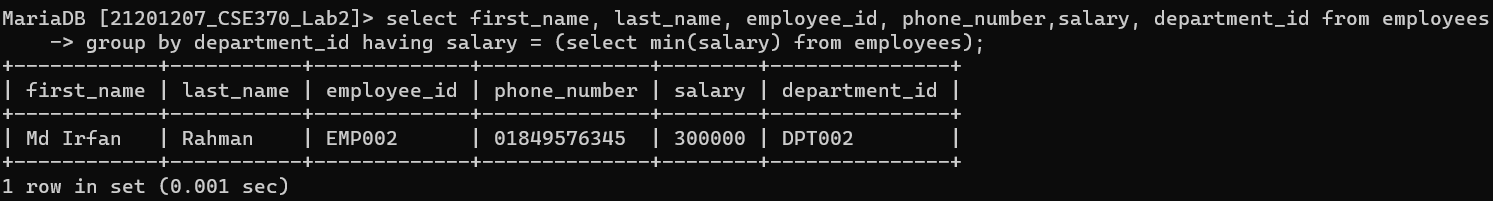
1. Find the **first\_name, last\_name, email, phone\_number, hire\_date** and **department\_id** of all the employees with the latest **hire\_date**

**select first\_name, last\_name, email, phone\_number, hire\_date and department\_id from employees where hire\_date = (select max(hire\_date) from employees);**



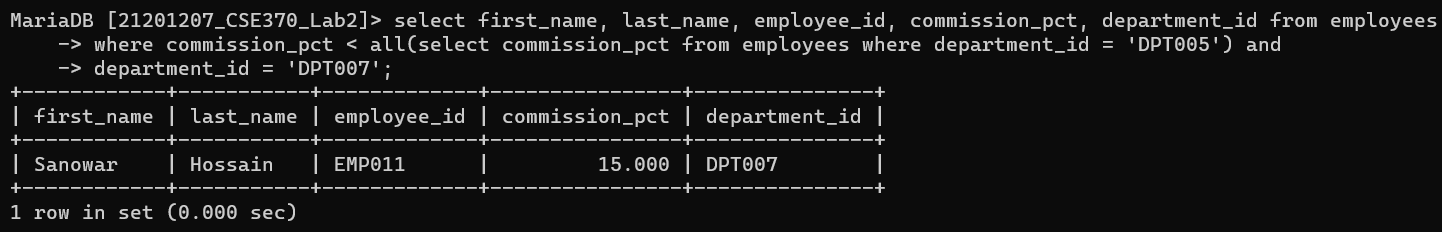
1. Find the ***first\_name*, *last\_name*, *employee\_id*, *phone\_number, salary*** and ***department\_id***of all the employees with the lowest **salary** in each department.

select first\_name, last\_name, employee\_id, phone\_number,salary and department\_id from employees where salary = (select min(salary) from employees) group by department\_id;



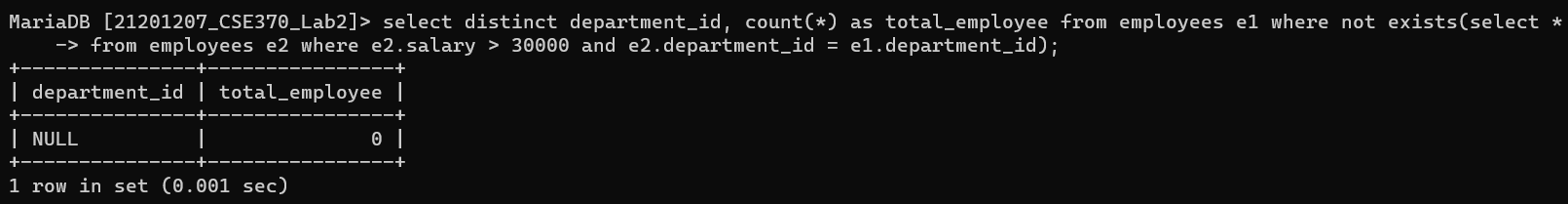
1. Find the ***first\_name****,* ***last\_name****,* ***employee\_id****,* ***commission\_pct*** *and* ***department\_id*** of all the employees in the department 'DPT007' who have a lower commission\_pct than all of the employees of the department 'DPT005'.

select first\_name, last\_name, employee\_id, commission\_pct, department\_id from employees where commission\_pct < all(select commission\_pct from employees where department\_id = 'DPT005') and department\_id = 'DPT007';



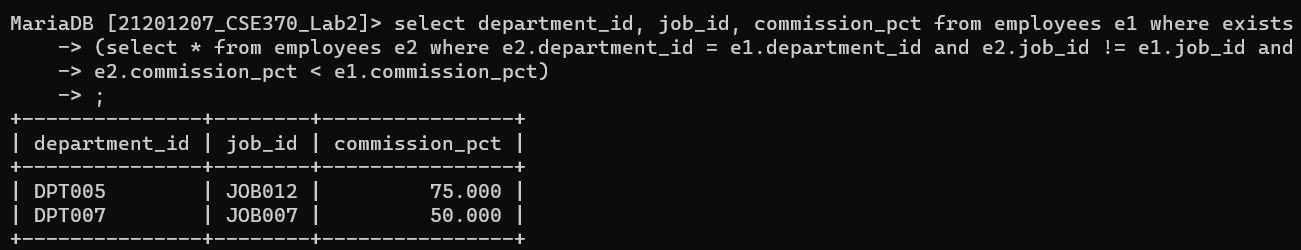
1. Find the **department\_id** and total number of employees of each department which does not have a single employee under it with a **salary** more than 30,000.

select distinct department\_id, count(\*) as total\_employee from employees e1 where not exists(select \* from employees e2 where e2.salary > 30000 and e2.department\_id = e1.department\_id);



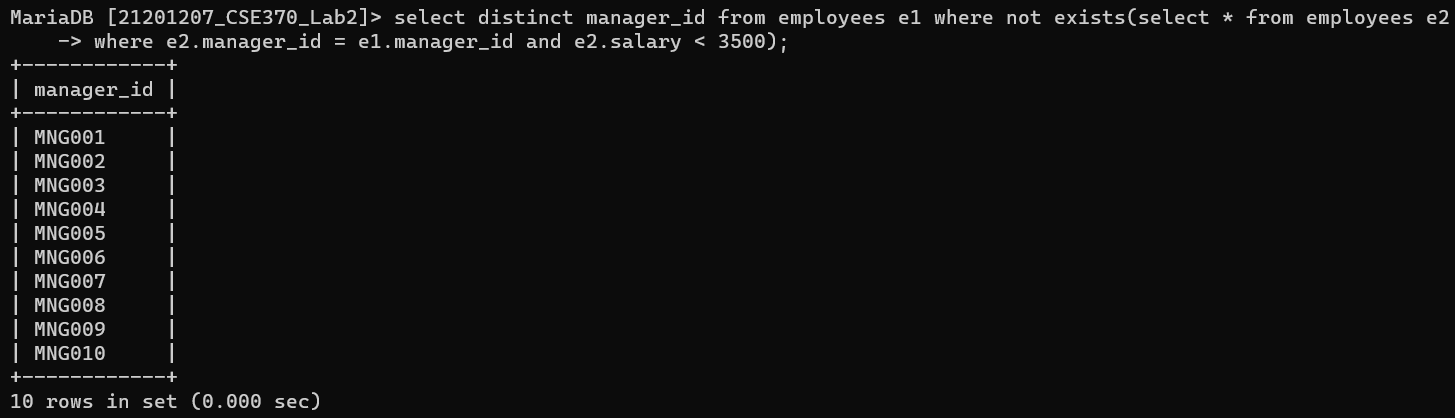
1. For each of the departments, find the ***department\_id***, ***job\_id***and ***commission\_pct***with ***commission\_pct***less than at least one other ***job\_id***in that department.

select department\_id, job\_id, commission\_pct from employees e1 where exists (select \* from employees e2 where e2.department\_id = e1.department\_id and e2.job\_id != e1.job\_id and e2.commission\_pct < e1.commission\_pct);



1. Find the ***manager\_id*** who does not have any employee under them with a ***salary*** less than 3500.

select distinct manager\_id from employees e1 where not exists(select \* from employees e2 where e2.manager\_id = e1.manager\_id and e2.salary < 3500);



1. 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.

select first\_name, last\_name, employee\_id, email, salary, department\_id, commission\_pct from employees where commission\_pct in (select min(commission\_pct) from employees group by manager\_id);

