Name: S. M. Rakib Hasan

ID: 22241038

Sec: 07

Commands: mysql -h localhost -u root

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 int,

Salary int,

Commission pct decimal(5,3),

Manager_id char(10),

Department id int);

insert into employees values

('e001', 'Taylor', 'Otwell', 'otwell@laravel.com', 014000001,'2020-6-10',001, 55000, 30.201, 'm01',1),

('e002', 'Ryan', 'Dahl', 'ryan@nodejs.org', 01900002, '2020-04-22', 002, 3000, 59.031, 'm02', 2),

('e003', 'Brendan', 'Eich', 'eich@javascript.com',01800002, '2020-05-07',007, 60000, 29.401, 'm02',5),

('e004', 'Evan', 'You', 'you@vuejs.org',013000004, '2020-06-11', 003,5000,20.105, 'm03',7),

('e005', 'Rasmus', 'Lerdorf', 'lerdorf@php.net',014000002,'2020-06-3', 004, 2000,40.945,'m06',7),

('e006', 'Guido van', 'Rossum', 'guido@python.org',01700000 ,'2020-07-18', 005,7000,62.401,'m06',5),

('e007', 'Adrian', 'Holovaty', 'adrian@djangoproject.com', 01800000, '2020-05-07',006, 9000, 26.805, 'm05',3);

Select * from employees;

MariaDB [lab1]:	select * fro	om employees	;							
employee_id	First_name	last_name	email	Phone_number	Hire_date	Job_id	Salary	Commission_pct	Manager_id	Department_id
e001	Taylor	Otwell	otwell@laravel.com	14000001	2020-06-10	1	55000	30.201	m01	1
e002	Ryan	Dahl	ryan@nodejs.org	1900002	2020-04-22	2	3000	59.031	m02	2
e003	Brendan	Eich	eich@javascript.com	1800002	2020-05-07	7	60000	29.401	m02	5
e004	Evan	You	you@vuejs.org	13000004	2020-06-11	3	5000	20.105	m03	j 7 j
e005	Rasmus	Lerdorf	lerdorf@php.net	14000002	2020-06-03	4	2000	40.945	m06	7
e006	Guido van	Rossum	guido@python.org	1700000	2020-07-18	5	7000	62.401	m06	5
e007	Adrian	Holovaty	adrian@djangoproject.com	1800000	2020-05-07	6	9000	26.805	m05	3
7	(0, 000,)				+			+	+	
7 rows in set ((b.000 Sec)									

Task-1:

select first_name, last_name, email, phone_number, hire_date, department_id from employees order by hire_date desc;

first_name	last_name	email	phone_number	hire_date	department_id	
Guido van	Rossum	guido@python.org	1700000	2020-07-18	5	
Evan	You	you@vuejs.org	13000004	2020-06-11	7	
Taylor	Otwell	otwell@laravel.com	14000001	2020-06-10	1	
Rasmus	Lerdorf	lerdorf@php.net	14000002	2020-06-03	7	
rendan	Eich	eich@javascript.com	1800002	2020-05-07	5	
Adrian	Holovaty	adrian@djangoproject.com	1800000	2020-05-07	3	
Ryan	Dahl	ryan@nodejs.org	1900002	2020-04-22	2	

Task-2:

select first_name, last_name, employee_id,phone_number,salary, department_id from employees where salary in (select min(salary) from employees group by department_id);

<u>Task-3:</u>

select first_name,last_name,employee_id,commission_pct,department_id from employees where department_id=7 and commission_pct < (select min(commission_pct) from employees where department_id=5);

Task-4:

select department_id,count(*) from employees where salary<30000 and salary in (select max(salary) from employees group by department_id) group by department_id;

Task-5:

select department_id,job_id,commission_pct from employees where commission_pct < job_id group by department_id;

```
MariaDB [lab1]> select department_id,job_id,commission_pct from employees where commission_pct < job
_id group by department_id;
Empty set (0.001 sec)
```

Task-6:

select manager_id from employees where salary>3500 and salary in (select min(salary) from employees group by manager_id);

Task-7:

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);