CSE370 Lab Homework:03

Name: Shabab Abdullah

ID: 20301005

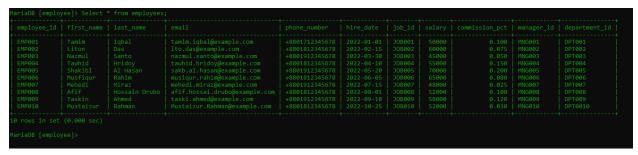
Section: 08

#Table

Command:

```
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)
);
INSERT INTO employees (employee id, first name, last name, email, phone number,
hire date, job id, salary, commission pct, manager id, department id)
VALUES
 ('EMP001', 'Tamim', 'Igbal', 'tamim.igbal@example.com', '+8801712345678',
'2022-01-01', 'JOB001', 50000, 0.100, 'MNG001', 'DPT001'),
 ('EMP002', 'Liton', 'Das', 'lto.das@example.com', '+8801812345678', '2022-02-15',
'JOB002', 60000, 0.075, 'MNG002', 'DPT002'),
 ('EMP003', 'Nazmul', 'Santo', 'nazmul.santo@example.com', '+8801912345678',
'2022-03-30', 'JOB003', 45000, 0.050, 'MNG003', 'DPT003'),
 ('EMP004', 'Tawhid', 'Hridoy', 'tawhid.hridoy@example.com', '+8801812345678',
'2022-04-10', 'JOB004', 55000, 0.150, 'MNG004', 'DPT004'),
 ('EMP005', 'Shakibl', 'Al Hasan', 'sakb.al.hasan@example.com', '+8801912345678',
'2022-05-20', 'JOB005', 70000, 0.200, 'MNG005', 'DPT005'),
 ('EMP006', 'Musfigur', 'Rahim', 'musigur.rahim@example.com', '+8801812345678',
'2022-06-05', 'JOB006', 65000, 0.080, 'MNG006', 'DPT006'),
 ('EMP007', 'Mehedi', 'Miraz', 'mehedi.miraz@example.com', '+8801912345678',
'2022-07-15', 'JOB007', 48000, 0.025, 'MNG007', 'DPT007'),
 ('EMP008', 'Afif', 'Hossain Drubo', 'afif.hossai.drubo@example.com',
'+8801812345678', '2022-08-01', 'JOB008', 52000, 0.100, 'MNG008', 'DPT008'),
 ('EMP009', 'Taskin', 'Ahmed', 'taski.ahmed@example.com', '+8801912345678',
'2022-09-10', 'JOB009', 58000, 0.120, 'MNG009', 'DPT009'),
 ('EMP010', 'Mustaizur', 'Rahman', 'Mustaizur.Rahman@example.com',
'+8801812345678', '2022-10-25', 'JOB010', 52000, 0.030, 'MNG010', 'DPT0010');
```

Screenshot:



#Task_01

Command:

Select first_name, last_name,email,phone_number,hire_date,department_id from employees where hire_date = (Select max(hire_date) from employees);

Screenshot:

#Task_02

Command:

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

```
| No. | No.
```

#Task 03

Command:

SELECT first_name, last_name, employee_id, commission_pct, department_id FROM employees WHERE department_id = 'DPT007' AND commission_pct < (SELECT MAX(commission_pct) FROM employees WHERE department_id = 'DPT005');

Screenshot:

#Task 04

Command:

```
SELECT department_id, COUNT(*) AS total_employees
FROM employees
WHERE department_id NOT IN (
SELECT DISTINCT department_id
FROM employees
WHERE salary > 30000
)
GROUP BY department_id;
```

```
MariaDB [employee]> SELECT department_id, COUNT(*) AS total_employees
    -> FROM employees
    -> WHERE department_id NOT IN (
    -> SELECT DISTINCT department_id
    -> FROM employees
    -> WHERE salary > 30000
    -> )
    -> GROUP BY department_id;
Empty set (0.000 sec)
MariaDB [employee]>
```

#Task 05

Command:

```
SELECT department_id, job_id, commission_pct
FROM employees e1
WHERE commission_pct < ANY (
SELECT commission_pct
FROM employees e2
WHERE e1.department_id = e2.department_id
AND e1.job_id != e2.job_id
);
```

```
MariaDB [employee]> SELECT department_id, job_id, commission_pct
   -> FROM employees e1
   -> WHERE commission_pct < ANY (
   -> SELECT commission_pct
   -> FROM employees e2
   -> WHERE e1.department_id = e2.department_id
   -> AND e1.job_id != e2.job_id
   -> );
Empty set (0.000 sec)
```

#Task_06

Command:

```
SELECT DISTINCT manager_id
FROM employees
WHERE manager_id IS NOT NULL
AND manager_id NOT IN (
SELECT DISTINCT manager_id
FROM employees
WHERE salary < 3500
);
```

#Task_07

Command:

```
SELECT DISTINCT manager_id
FROM employees
WHERE manager_id IS NOT NULL
AND manager_id NOT IN (
SELECT DISTINCT manager_id
FROM employees
WHERE salary < 3500
);
```