## Task 01:

```
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:

```
SELECT first_name, last_name, employee_id, phone_number, salary,
department_id
FROM employees
WHERE (department_id, salary) IN (
        SELECT department_id, MIN(salary)
        FROM employees
        GROUP BY department_id
);
```

```
MariaDB [socialapp]>
MariaDB [socialapp]> SELECT first_name, last_name, employee_id, phone_number, salary, department_id
    -> FROM employees
    -> WHERE (department_id, salary) IN (
    ->
           SELECT department_id, MIN(salary)
           FROM employees
           GROUP BY department_id
    -> );
 first_name | last_name | employee_id | phone_number
                                                         | salary | department_id
                           EMP001
                                         12345678901234
                                                            50000
                                                                    DPT001
  Michael
               Johnson
                           EMP003
                                          5555555555555
                                                            45000
                                                                    DPT002
  David
               Wilson
                           EMP005
                                          7777777777777
                                                            70000
                                                                    DPT003
  Matthew
                           EMP007
               Taylor
                                         6666666666666
                                                            60000
                                                                    DPT004
  Olivia
               Brown
                           EMP008
                                          111111111111111
                                                            50000
                                                                    DPT005
  Sophia
               Wilson
                           EMP010
                                         888888888888
                                                            65000
                                                                    DPT006
 6 rows in set (0.016 sec)
```

#### Task 03:

## ScreenShot:

## Table to Be Specific:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_i
EMP001	John	Doe	john.doe@example.com	12345678901234	2022-01-01	J0B001	50000	0.050	MNG001	DPT001
EMP002	Jane	Smith	jane.smith@example.com	98765432109876	2022-02-15	J0B002	60000	0.030	MNG001	DPT001
EMP003	Michael	Johnson	michael.johnson@example.com	5555555555555	2022-03-10	J0B001	45000	0.020	MNG002	DPT002
EMP004	Emily	Davis	emily.davis@example.com	4444444444444	2022-04-05	J0B002	55000	0.040	MNG002	DPT002
EMP005	David	Wilson	david.wilson@example.com	77777777777777	2022-05-20	J0B003	70000	0.060	MNG003	DPT003
EMP006	Sarah	Anderson	sarah.anderson@example.com	2222222222222	2022-06-25	J0B003	80000	0.050	MNG003	DPT003
EMP007	Matthew	Taylor	matthew.taylor@example.com	6666666666666	2022-07-15	J0B004	60000	0.030	MNG003	DPT004
EMP008	Olivia	Brown	olivia.brown@example.com	111111111111111	2022-08-10	J0B004	50000	0.020	MNG004	DPT005
EMP009	Daniel	Miller	daniel.miller@example.com	33333333333333	2022-09-01	J0B005	55000	0.040	MNG004	DPT005
EMP010	Sophia	Wilson	sophia.wilson@example.com	8888888888888	2022-10-05	J0B005	65000	0.050	MNG005	DPT006

#### Task 04:

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

```
MariaDB [socialapp]> SELECT department_id, COUNT(*) AS total_employees
    -> FROM employees
    -> WHERE department_id NOT IN (
    -> SELECT department_id
    -> FROM employees
    -> WHERE salary > 30000
    -> )
    -> GROUP BY department_id;
Empty set (0.093 sec)
```

## Task 05:

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

#### ScreenShot:

```
MariaDB [socialapp]> SELECT e1.department_id, e1.job_id, e1.commission_pct
    -> FROM employees e1
   -> WHERE e1.commission_pct < ANY (
          SELECT e2.commission_pct
          FROM employees e2
    ->
          WHERE e2.department_id = e1.department_id AND e2.job_id != e1.job_id
   -> );
 department_id | job_id |
                           commission_pct
 DPT001
                  J0B002
                                    0.030
                                    0.020
 DPT002
                  J0B001
 DPT005
                  J0B004
                                    0.020
3 rows in set (0.088 sec)
```

#### Task 06:

```
SELECT DISTINCT e1.manager_id
FROM employees e1
WHERE NOT EXISTS (
    SELECT *
    FROM employees e2
    WHERE e2.manager_id = e1.manager_id AND e2.salary < 3500
);</pre>
```

## Task 07:

```
SELECT e1.first_name, e1.last_name, e1.employee_id, e1.email, e1.salary,
e1.department_id, e1.commission_pct
FROM employees e1
WHERE (e1.manager_id, e1.commission_pct) IN (
        SELECT manager_id, MIN(commission_pct)
        FROM employees
        GROUP BY manager_id
);
```

```
MariaDB [socialapp]> SELECT e1.first_name, e1.last_name, e1.employee_id, e1.email, e1.salary, e1.department_id, e1.commission_pct
    -> FROM employees e1
    -> WHERE (e1.manager_id, e1.commission_pct) IN (
-> SELECT manager_id, MIN(commission_pct)
            FROM employees
            GROUP BY manager_id
    -> );
  first_name | last_name | employee_id | email
                                                                               salary | department_id | commission_pct
                                                                                                                      0.030
0.020
                Smith
                              EMP002
                                                                                          DPT001
  Jane
                                              jane.smith@example.com
                                                                                 60000
                              EMP003
EMP007
                                              michael.johnson@example.com
matthew.taylor@example.com
  Michael
                 Johnson
                                                                                 45000
                                                                                          DPT002
  Matthew
                                                                                 60000
                                                                                          DPT004
                                                                                                                      0.030
                 Taylor
                              EMP008
                                                                                 50000
                                                                                          DPT005
                                                                                                                      0.020
  Olivia
                Brown
                                              olivia.brown@example.com
                              EMP010
                                                                                 65000
  Sophia
                Wilson
                                              sophia.wilson@example.com
                                                                                          DPT006
                                                                                                                      0.050
 rows in set (0.090 sec)
```