```
-> ('EMP009', 'Mominul', 'Haq', 'mominul.haq@example.com', 'd1544350505', '2023-09-12', 'JOB002', 37500, 0.03, 'MNG002', 'DPT002'),
-> ('EMP009', 'Mominul', 'Haq', 'mominul.haq@example.com', '01999112233', '2023-09-25', 'JOB003', 36000, 0.02', 'MNG001', 'DPT004'),
-> ('EMP010', 'Farzana', 'Akhter', 'farzana.akhter@example.com', '01711223344', '2023-10-10', 'JOB001', 29500, 0.025', 'MNG002', 'DPT005'
-> ('EMP011', 'Khaled', 'Hossain', 'khaled.hossain@example.com', '0187654321', '2023-11-18', 'JOB002', 34000, 0.03, 'MNG001', 'DPT006')
-> ('EMP012', 'Fahmida', 'Begum', 'fahmida.begum@example.com', '01511112233', '2023-12-05', 'JOB003', 37000, 0.015, 'MNG002', 'DPT007');
Query OK, 12 rows affected (0.01 sec)
Records: 12 Duplicates: 0 Warnings: 0
  employee_id | first_name | last_name | email
                                                                                   | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_i
                                               | aisha.akhtar@example.com | 01887654321 | 2023-02-15 | JOB002 | 32000 |
                                              Imran
                              Ahmed
                                                                                                                                                          0.025 | MNG001
                                                                                                                                                                                  | DPT001
                | Nusrat | Islam | nusrat.islam@example.com | 01511112222 | 2023-04-10 | JOB001 | 28000 |
  EMP004
                                                                                                                                                                                  | DPT002
                | Abdul | Rahman | abdul.rahman@example.com | 01677889900 | 2023-05-05 | JOB002 | 31000 |
                | Sadia
                                | Sultana | sadia.sultana@example.com | 01733445566 | 2023-06-15<u>| JOB003 | 33000 |</u>
                                | Hossain | kamal.hossain@example.com | 01666778888 | 2023-07-01 | JOB001 | 29000 |
                | Sabina
                              | Khatun
                                               | sabina.khatun@example.com | 01544456666 | 2023-08-12 | JOB002 | 32500 |
                                                                                                                                                           0.030 | MNG002
                                                                                                                                                                                   | DPT002
                | Mominul | Haq
                                               | mominul.haq@example.com | 01999112233 | 2023-09-25 | JOB003 | 36000 |
                                                                                                                                                                                   | DPT004
                | Khaled | Hossain | khaled.hossain@example.com | 01887654321 | 2023-11-18 | JOB002 | 34000 |
                                                                                                                                                                                   | DPT006
  EMP012
                                               | fahmida.begum@example.com | 01511112233 | 2023-12-05 | JOB003 | 37000 |
l2 rows in set (0.00 sec)
```

 SELECT first\_name, last\_name, email, phone\_number, hire\_date, department\_id FROM Employee WHERE hire\_date = (SELECT MAX(hire\_date) FROM Employee);

SELECT first\_name, last\_name, employee\_id, phone\_number, salary, department\_id
 FROM Employee e1
 WHERE salary = (
 SELECT MIN(salary)

```
FROM Employee e2
WHERE e1.department_id = e2.department_id
);
```

```
mysql> SELECT first_name, last_name, employee_id, phone_number, salary, department_id
    -> FROM Employee e1
    -> WHERE salary = (
           SELECT MIN(salary)
           FROM Employee e2
    ->
           WHERE e1.department_id = e2.department_id
    ->
    -> );
                                                         salary
 first_name | last_name
                           employee_id | phone_number
                                                                  department_id
                                                                   DPT001
  Rahim
               Khan
                           EMP001
                                          01712345678
                                                          30000
  Nusrat
               Islam
                           EMP004
                                          01511112222
                                                          28000
                                                                   DPT002
  Kamal
               Hossain
                           EMP007
                                          01666778888
                                                          29000
                                                                   DPT003
  Mominul
               Haq
                           EMP009
                                          01999112233
                                                          36000
                                                                   DPT004
  Farzana
               Akhter
                           EMP010
                                          01711223344
                                                          29500
                                                                   DPT005
  Khaled
               Hossain
                           EMP011
                                          01887654321
                                                          34000
                                                                   DPT006
  Fahmida
               Begum
                           EMP012
                                          01511112233
                                                          37000
                                                                   DPT007
 rows in set (0.00 sec)
```

```
    SELECT first_name, last_name, employee_id, commission_pct, department_id
        FROM Employee e1
        WHERE department_id = 'DPT007'
        AND commission_pct < (
            SELECT MIN(commission_pct)
            FROM Employee e2
            WHERE e2.department_id = 'DPT005'
        );</li>
```

SELECT department\_id, COUNT(\*) AS total\_employees
 FROM Employee
 WHERE department\_id NOT IN (
 SELECT DISTINCT department\_id
 FROM Employee
 WHERE salary > 30000
 )
 GROUP BY department\_id;

```
5. SELECT department_id, job_id, commission_pct
FROM Employee e1
WHERE commission_pct < (
SELECT MAX(commission_pct)
FROM Employee e2
WHERE e1.department_id = e2.department_id
AND e1.job_id != e2.job_id
);
```

```
mysql> SELECT department_id, job_id, commission_pct
    -> FROM Employee e1
    -> WHERE commission_pct < (</pre>
           SELECT MAX(commission_pct)
           FROM Employee e2
           WHERE e1.department_id = e2.department_id
           AND e1.job_id != e2.job_id
    -> );
  department_id | job_id | commission_pct
  DPT001
                   J0B001
                                      0.020
  DPT002
                   J0B001
                                      0.020
  DPT003
                   J0B002
                                      0.020
  DPT002
                   J0B003
                                      0.015
4 rows in set (0.00 sec)
```

```
6. SELECT DISTINCT manager_id FROM Employee WHERE manager_id NOT IN (
SELECT DISTINCT manager_id FROM Employee WHERE salary < 3500
);
```

```
7. SELECT e1.first_name, e1.last_name, e1.employee_id, e1.email, e1.salary, e1.department_id, e1.commission_pct FROM Employee e1 JOIN ( SELECT manager_id, MIN(commission_pct) AS min_commission FROM Employee GROUP BY manager_id ) AS e2 ON e1.manager_id = e2.manager_id AND e1.commission pct = e2.min commission;
```

```
first_name | last_name | employee_id | email
                                                                     | salary | department_id | commission_pct |
                                                                                                          0.020
0.020
0.015
0.020
0.015
                                                                        30000 |
31000 |
33000 |
36000 |
 Rahim
Abdul
               Khan
Rahman
                           EMP001
EMP005
                                          rahim.khan@example.com
abdul.rahman@example.com
                                                                                DPT001
DPT003
                           EMP006
EMP009
EMP012
  Sadia
               Sultana
                                          sadia.sultana@example.com |
                                                                                 DPT002
                                          mominul.haq@example.com
fahmida.begum@example.com
  Mominul
               Haq
                                                                                 DPT004
               Begum
  Fahmida
                                                                        37000
                                                                                DPT007
5 rows in set (0.00 sec)
```