CSE370 LAB ASSIGNMENT 02

NAME: Mayeesha Mahbub

ID: 21201462

SECTION:02

Question 1 ans:

SELECT first name, last name, email, phone number, hire date, department id

FROM Employee

WHERE hire date = (SELECT MAX(hire date) FROM Employee);

```
lariaDB [AO2]> SELECT first_name, last_name, email, phone_number, hire_date, department_id
-> FROM Employee
   -> WHERE hire_date = (SELECT MAX(hire_date) FROM Employee);
                                                                                     department_id
 first_name | last_name | email
                                                       phone_number | hire_date
                         | james.wilson@example.com | 789-012-3456 |
                                                                       2023-07-01 | DPT007
James
             Wilson
 row in set (0.001 sec)
```

Question 2 ans:

```
SELECT first name, last name, employee id, phone number, salary,
department id
  FROM Employee e
```

```
WHERE salary = (
```

SELECT MIN(salary)

FROM Employee

WHERE department id = e.department id

);

+ first_name	+ last_name	employee_id	phone_number	salary	department_id
Jack	 Smith	EMP001	123-456-7890	50000	DPT001
Jane	Taylor	EMP002	234-567-8901	60000	DPT002
Michael	Brown	EMP003	345-678-9012	45000	DPT003
Emily	Johnson	EMP004	456-789-0123	55000	DPT004
David	Davis	EMP005	567-890-1234	70000	DPT005
Sarah	Anderson	EMP006	678-901-2345	48000	DPT006
James	Wilson	EMP007	789-012-3456	60000	DPT007
+	+	+		·	+
7 rows in set (0.001 sec)					

Question 3 ans:

```
SELECT first name, last name, employee id, commission pct,
department id
```

FROM Employee

WHERE department id = 'DPT007' AND commission pct < ALL (

SELECT commission pct

FROM Employee

WHERE department id = 'DPT005'

```
);
 MariaDB [AO2]> SELECT first_name, last_name, employee_id, commission_pct, department_id
         FROM Employee
         WHERE department_id = 'DPT007' AND commission_pct < ALL (
         SELECT commission_pct
         FROM Employee
         WHERE department_id = 'DPT005'
                                                 department_id
  first_name | last_name
                       employee_id | commission_pct
            Wilson
                       EMP007
                                           0.030
                                                 DPT007
  James
 1 row in set (0.001 sec)
Ouestion 4 ans:
SELECT department id, COUNT(*)
 FROM Employee
 WHERE department id NOT IN (
  SELECT department id
  FROM Employee
  WHERE salary > 30000
  GROUP BY department id;
MariaDB [A02]> SELECT department_id, COUNT(*)
           FROM Employee
           WHERE department_id NOT IN (
    ->
            SELECT department_id
            FROM Employee
            WHERE salary > 30000
     ->
    ->
            GROUP BY department_id;
Empty set (0.001 sec)
Ouestion 5 ans:
SELECT e1.department id, e1.job id, e1.commission pct
 FROM Employee e1
 WHERE commission pct < (
SELECT MAX(e2.commission pct)
 FROM Employee e2
WHERE e2.department id = e1.department id AND e2.job id <> e1.job id
);
```

```
MariaDB [AO2] > SELECT e1.department_id, e1.job_id, e1.commission_pct
        FROM Employee e1
    ->
        WHERE commission_pct < (</pre>
        SELECT MAX(e2.commission_pct)
      FROM Employee e2
    -> WHERE e2.department_id = e1.department_id AND e2.job_id <> e1.job_id
-> );
Empty set (0.000 sec)
Question 6 ans:
SELECT DISTINCT manager id
  FROM Employee
  WHERE manager id NOT IN (
  SELECT manager id
  FROM Employee
  WHERE salary < 3500
  );
 MariaDB [AO2]> SELECT DISTINCT manager_id
            FROM Employee
            WHERE manager_id NOT IN (
     ->
     ->
            SELECT manager_id
            FROM Employee
            WHERE salary < 3500
             );
     ->
   manager_id
   MNG001
   MNG002
   MNG003
3 rows in set (0.000 sec)
Question 7 ans:
SELECT first name, last name, employee id, email, salary, department id,
commission pct
  FROM Employee e
  WHERE commission pct = (
  SELECT MIN(commission pct)
  FROM Employee
  WHERE manager id = e.manager id
  ORDER BY manager id;
```