

TASK_1

SELECT first_name, last_name, email, phone_number, hire_date, department_id
-> FROM Employee WHERE hire_date = (SELECT MAX(hire_date) FROM Employee);

```
MariaDB [cse370_summer24]> SELECT first_name, last_name, email, phone_number, hire_date, department_id  
-> FROM Employee WHERE hire_date = (SELECT MAX(hire_date) FROM Employee);
```

first_name	last_name	email	phone_number	hire_date	department_id
syed	Hossain	syed.hossain@gmail.com	+8801911345659	2023-10-01	DPT007

```
1 row in set (0.001 sec)
```

TASK 2

SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM
-> Employee WHERE(department_id, salary) IN (SELECT department_id, MIN(salary) FROM
-> Employee GROUP BY department_id);

```
MariaDB [cse370_summer24]> SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM Employee WHERE(department_id, salary) IN (SELECT department_id, MIN(salary) FROM Employee GROUP BY department_id);
```

first_name	last_name	employee_id	phone_number	salary	department_id
Fatima	khatun	EMP004	+8801912376653	2500	DPT001
Sultan	Ibrahim	EMP005	+8801912133554	30000	DPT005
Samiha	Khan	EMP007	+8801912345656	4000	DPT007

```
3 rows in set (0.015 sec)
```

TASK 3

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 [cse370_summer24]> 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');
```

first_name	last_name	employee_id	commission_pct	department_id
Kamrul	Islam	EMP003	6.789	DPT007
Samiha	Khan	EMP007	8.891	DPT007

```
2 rows in set (0.006 sec)
```

TASK_4

SELECT DISTINCT department_id, count(*) as total_employee FROM Employee WHERE
-> salary < 30000 GROUP BY department_id;

```
MariaDB [cse370_summer24]> SELECT DISTINCT department_id, count(*) as total_employee FROM Employee WHERE salary < 30000 GROUP BY department_id;
```

department_id	total_employee
DPT001	2
DPT007	1

```
2 rows in set (0.005 sec)
```

TASK_5

SELECT department_id, job_id, commission_pct FROM Employee e1 WHERE
-> commission_pct < any (SELECT commission_pct FROM Employee e2 WHERE
-> e1.department_id = e2.department_id AND e1.job_id != e2.job_id);

```
MariaDB [cse370_summer24]> SELECT department_id, job_id, commission_pct FROM Employee e1 WHERE commission_pct < any (SELECT 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
DPT005	JOB002	11.123
DPT001	JOB002	3.345
DPT005	JOB002	13.345

```
3 rows in set (0.004 sec)
```

TASK 6

SELECT manager_id FROM Employee GROUP BY manager_id HAVING MIN(salary) > 3500;

```
MariaDB [cse370_summer24]> SELECT manager_id FROM Employee GROUP BY manager_id HAVING MIN(salary) > 3500;
+-----+
| manager_id |
+-----+
| MNG001      |
+-----+
1 row in set (0.001 sec)
```

TASK 7

SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct
-> FROM Employee WHERE (manager_id, commission_pct)
-> IN (SELECT manager_id, MIN(commission_pct) FROM Employee GROUP BY
manager_id);

```
MariaDB [cse370_summer24]> SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct FROM Employee WHERE (manager_id, commission_pct)
-> IN (SELECT manager_id, MIN(commission_pct) FROM Employee GROUP BY manager_id);
+-----+-----+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | email                | salary | department_id | commission_pct |
+-----+-----+-----+-----+-----+-----+-----+
| Fatima     | khatun    | EMP004      | fatima.khatun@gmail.com | 2500   | DPT001        | 3.345          |
| Zahin      | Islam     | EMP006      | zahin.islam@gmail.com   | 48000  | DPT001        | 4.456          |
| Samiha     | Khan      | EMP007      | samiha.khan@gmail.com   | 4000   | DPT007        | 8.891          |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [cse370_summer24]>
```