

Table:

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab2]> select * from employee;
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Rakib	Hasan	rakibhasan@gmail.com	1789456123	2018-09-15	JOB001	60750	32.222	MING001	DPT001
EMP002	Sakib	Al Hasan	sakibalhasan@gmail.com	1732567426	2018-08-15	JOB001	90500	50.500	MING001	DPT001
EMP003	Roudro	Sorkar	roudrosorkar@gmail.com	1798465123	2018-09-18	JOB002	52520	24.500	MING002	DPT001
EMP004	Mohammad	Yunus	mohammadyunus@gmail.com	1954785613	2018-09-13	JOB001	45521	51.500	MING002	DPT001
EMP005	Touhid	Tuhin	touhidtuhin@gmail.com	1745689125	2018-08-15	JOB002	60800	77.500	MING003	DPT005
EMP006	Tanvir	Ahsan	tanvirahsan@gmail.com	1745896189	2018-09-16	JOB003	50600	73.500	MING003	DPT005
EMP007	Showrov	Hasan	showrovhasan@gmail.com	19457894562	2018-09-16	JOB003	40560	25.500	MING004	DPT007
EMP008	Jubayer	Ahmed	jubayerahmed@gmail.com	1786549823	2018-09-18	JOB004	50560	15.500	MING004	DPT007
EMP009	Ruhul	Amin	ruhulamin@gmail.com	1975469823	2018-09-15	JOB004	80560	37.500	MING004	DPT007
EMP010	Niloy	Sorkar	niloysorkar@gmail.com	1712312312	2017-05-20	JOB002	70506	50.000	MING002	DPT001

10 rows in set (0.000 sec)

Question 01:

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_abrarmojahidrafi_22101593_lab2]> 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
Roudro	Sorkar	roudrosorkar@gmail.com	1798465123	2018-09-18	DPT001
Jubayer	Ahmed	jubayerahmed@gmail.com	1786549823	2018-09-18	DPT007

2 rows in set (0.001 sec)

Question 02:

SELECT first_name, last_name, email, phone_number, MIN(salary),

-> department_id FROM employee GROUP BY department_id;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab2]> SELECT first_name, last_name, email, phone_number, MIN(salary),
-> department_id FROM employee GROUP BY department_id;
```

first_name	last_name	email	phone_number	MIN(salary)	department_id
Rakib	Hasan	rakibhasan@gmail.com	1789456123	45521	DPT001
Touhid	Tuhin	touhidtuhin@gmail.com	1745689125	50600	DPT005
Showrov	Hasan	showrovhasan@gmail.com	19457894562	40560	DPT007

3 rows in set (0.000 sec)

Question 03:

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_abrarmojahidrafi_22101593_lab2]> 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 |
+-----+-----+-----+-----+-----+
| Showrov    | Hasan     | EMP007      | 25.500         | DPT007        |
| Jubayer    | Ahmed     | EMP008      | 15.500         | DPT007        |
| Ruhul      | Amin      | EMP009      | 37.500         | DPT007        |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

Question 04:

select distinct department_id, count(*) as total_Employees from

-> employee where salary < 30000 group by department_id;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab2]> select distinct department_id, count(*) as total_Employees from
-> employee where salary < 30000 group by department_id;
Empty set (0.000 sec)
```

Question 05:

select department_id, job_id, commission_pct from employee L1 where

-> exists(select * from employee L2 where L1.department_id=L2.department_id and

-> L1.job_id != L2.job_id and L1.commission_pct < L2.commission_pct);

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab2]> select department_id, job_id, commission_pct from employee L1 where
-> exists(select * from employee L2 where L1.department_id=L2.department_id and
-> L1.job_id != L2.job_id and L1.commission_pct < L2.commission_pct);
+-----+-----+-----+
| department_id | job_id | commission_pct |
+-----+-----+-----+
| DPT001        | JOB002 | 24.500         |
| DPT001        | JOB001 | 32.222         |
| DPT001        | JOB002 | 50.000         |
| DPT005        | JOB003 | 73.500         |
| DPT007        | JOB004 | 15.500         |
| DPT007        | JOB003 | 25.500         |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

Question 06:

select distinct manager_id from employee where salary > 3500;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab2]> select distinct manager_id from employee where salary > 3500;
+-----+
| manager_id |
+-----+
| MNG001     |
| MNG002     |
| MNG003     |
| MNG004     |
+-----+
4 rows in set (0.000 sec)
```

Question 07:

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_abrarmojahidrafi_22101593_lab2]> 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 |
+-----+-----+-----+-----+-----+-----+-----+
| Rakib      | Hasan     | EMP001      | rakibhasan@gmail.com | 60750 | DPT001         | 32.222 |
| Roudro     | Sonkar    | EMP003      | roudrosorkar@gmail.com | 52520 | DPT001         | 24.500 |
| Tanvir     | Ahsan     | EMP006      | tanvirahsan@gmail.com | 50600 | DPT005         | 73.500 |
| Jubayer    | Ahmed     | EMP008      | jubayerahmed@gmail.com | 50560 | DPT007         | 15.500 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```