

**Created Table:**

```
MariaDB [cse370_assignment02]> select * from employee;
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Yuji	Itadori	yuji.almost@email.com	55512345678	2022-03-15	JOB001	15000	25.122	MING002	DPT007
EMP002	Megumi	Fushiguro	megumi.notzenin@email.com	55556781234	2018-09-07	JOB001	25000	35.211	MING002	DPT007
EMP003	Nanami	Kento	nanami.overtime@email.com	55587654321	2013-04-02	JOB001	75000	25.011	MING002	DPT007
EMP004	Satoru	Gojo	gojo.infinity@email.com	55569696969	2012-12-07	JOB002	90000	77.071	MING001	DPT001
EMP005	Suguru	Geto	geto.kenjaku@email.com	55578901234	2012-08-13	JOB002	70000	65.446	MING002	DPT005
EMP006	Maki	Zenin	maki.ewzenin@email.com	55543215678	2017-05-28	JOB003	40000	32.992	MING004	DPT004
EMP007	Toge	Inumaki	inumaki.speaks@email.com	55567892345	2017-11-15	JOB003	35000	42.349	MING004	DPT003
EMP008	Ryomen	Sukuna	sukuna.fraud@email.com	55512345578	2011-02-18	JOB001	80000	62.483	MING001	DPT001
EMP009	Yuta	Okkutsu	yuta.rika@email.com	55556987745	2017-02-14	JOB002	65000	68.353	MING004	DPT003
EMP010	Kinji	Hakari	hakari.deathgambler@email.com	55585674321	2016-04-27	JOB003	60000	45.799	MING003	DPT004

10 rows in set (0.000 sec)

**TASK - 01:**

**Objective:** Finding the first\_name, last\_name, email, phone\_number, hire\_date and department\_id of all the employees with the latest hire\_date.

**Command=>**

*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_assignment02]> 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
Yuji	Itadori	yuji.almost@email.com	55512345678	2022-03-15	DPT007

1 row in set (0.000 sec)

**TASK - 02:**

**Objective:** Finding the first\_name, last\_name, employee\_id, phone\_number, salary and department\_id of all the employees with the lowest salary in each department.

**Command=>**

*select first\_name, last\_name, employee\_id, phone\_number, salary, department\_id from employee where (department\_id, salary) in (select department\_id, min(salary) as min\_salary from employee group by department\_id);*

```
MariaDB [cse370_assignment02]> select first_name, last_name, employee_id, phone_number, salary, department_id from employee where (department_id, salary) in (select department_id, min(salary) as min_salary from employee group by department_id);
```

first_name	last_name	employee_id	phone_number	salary	department_id
Yuji	Itadori	EMP001	55512345678	15000	DPT007
Suguru	Geto	EMP005	55578901234	70000	DPT005
Maki	Zenin	EMP006	55543215678	40000	DPT004
Toge	Inumaki	EMP007	55567892345	35000	DPT003
Ryomen	Sukuna	EMP008	55512345578	80000	DPT001

5 rows in set (0.001 sec)

**TASK - 03:**

**Objective:** Finding the first\_name, last\_name, employee\_id, commission\_pct and department\_id of all the employees in the department 'DPT007' who have a lower commission\_pct than all of the department 'DPT005' employees.

**Command=>**

*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_assignment02]> 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
Yuji	Itadori	EMP001	25.122	DPT007
Megumi	Fushiguro	EMP002	35.211	DPT007
Nanami	Kento	EMP003	25.011	DPT007

3 rows in set (0.001 sec)

### **TASK - 04:**

**Objective:** Finding the department\_id and total number of employees of each department which does not have a single employee under it with a salary more than 30,000.

**Command=>**

*select distinct department\_id, count(\*) as total\_employees from employee where salary < 30000 group by department\_id;*

```
MariaDB [cse370_assignment02]> select distinct department_id, count(*) as total_employees from employee where salary < 30000 group by department_id;
```

department_id	total_employees
DPT007	2

1 row in set (0.001 sec)

### **TASK - 05:**

**Objective:** For each of the departments, finding the department\_id, job\_id and commission\_pct with commission\_pct less than at least one other job\_id in that department.

**Command=>**

*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_assignment02]> 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	JOB001	62.483
DPT003	JOB003	42.349

2 rows in set (0.000 sec)

### **TASK - 06:**

**Objective:** Finding the manager\_id who does not have any employee under them with a salary less than 3500.

**Command=>**

*select distinct manager\_id from employee where manager\_id not in (select manager\_id from employee where salary < 3500);*

```
MariaDB [cse370_assignment02]> select distinct manager_id from employee where manager_id not in (select manager_id from employee where salary < 3500);
```

manager_id
MNG002
MNG001
MNG004
MNG003

4 rows in set (0.001 sec)

**TASK - 07:**

**Objective:** Finding the first\_name, last\_name, employee\_id, email, salary, department\_id and commission\_pct of the employee with the lowest commission\_pct under each manager.

**Command=>**

```
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_assignment02]> 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 |
+-----+-----+-----+-----+-----+-----+-----+
| Nanami | Kento | EMP003 | nanami.overtime@email.com | 75000 | DPT007 | 25.011 |
| Maki | Zenin | EMP006 | maki.euzeni@email.com | 40000 | DPT004 | 32.992 |
| Ryomen | Sukuna | EMP008 | sukuna.fraud@email.com | 80000 | DPT001 | 62.483 |
| Kinji | Hakari | EMP010 | hakari.deathgamble@email.com | 60000 | DPT004 | 45.799 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

**Table-data extras:**

```
create table employee(employee_id char(10), first_name varchar(20), last_name
varchar(20), email varchar(60), phone_number char(14), hire_date date, job_id
char(10), salary int, commission_pct decimal(5,3), manager_id char(10),
department_id char(10));
```

```
insert into employee values("EMP001", "Yuji", "Itadori", "yuji.almost@email.com",
"55512345678", "2022-03-15", "JOB001", 15000, 25.122, "MNG002", "DPT007");
```

```
insert into employee values("EMP002", "Megumi", "Fushiguro",
"megumi.notzenin@email.com", "55556781234", "2018-09-07", "JOB001", 25000,
35.211, "MNG002", "DPT007");
```

```
insert into employee values("EMP003", "Nanami", "Kento",
"nanami.overtime@email.com", "55587654321", "2013-04-02", "JOB001", 75000,
25.011, "MNG002", "DPT007");
```

```
insert into employee values("EMP004", "Satoru", "Gojo", "gojo.infinity@email.com",
"55569696969", "2012-12-07", "JOB002", 90000, 77.071, "MNG001", "DPT001");
```

```
insert into employee values("EMP005", "Suguru", "Geto", "geto.kenjaku@email.com",
"55578901234", "2012-08-13", "JOB002", 70000, 65.446, "MNG002", "DPT005");
```

```
insert into employee values("EMP006", "Maki", "Zenin", "maki.ewzenin@email.com",  
"55543215678", "2017-05-28", "JOB003", 40000, 32.992, "MNG004", "DPT004");
```

```
insert into employee values("EMP007", "Toge", "Inumaki",  
"inumaki.speaks@email.com", "55567892345", "2017-11-15", "JOB003", 35000,  
42.349, "MNG004", "DPT003");
```

```
insert into employee values("EMP008", "Ryomen", "Sukuna",  
"sukuna.fraud@email.com", "55512345578", "2011-02-18", "JOB001", 80000,  
62.483, "MNG001", "DPT001");
```

```
insert into employee values("EMP009", "Yuta", "Okkutsu", "yuta.rika@email.com",  
"55556987745", "2017-02-14", "JOB002", 65000, 68.353, "MNG004", "DPT003");
```

```
insert into employee values("EMP010", "Kinji", "Hakari",  
"hakari.deathgamble@email.com", "55585674321", "2016-04-27", "JOB003", 60000,  
45.799, "MNG003", "DPT004");
```

```
insert into employee values("EMP011", "Thishi", "Ronita", "thishi.panda@email.com",  
"55585674351", "2001-06-29", "JOB011", 60000, 45.799, "MNG011", "DPT011");
```