

Setting environment for using XAMPP for Windows.

USER@MONOXIDE c:\xampp

mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 10

Server version: 10.4.24-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use avi

Database changed

MariaDB [avi]> create table employees (

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

Query OK, 0 rows affected (0.077 sec)

MariaDB [avi]> insert into employees values

```
-> ('E001','Michael','Scott','scott@laravel.com','095682','2000-08-10',306,65000,5.35,'M001',5),  
-> ('E002','Jim','Harper','harper@nodejs.org','095596','2004-09-05',307,60000,5.2,'M002',6),  
-> ('E003','Pam','Beesly','beesly@javascript.com','095483','2005-03-30',308,55000,5.13,'M003',7),  
-> ('E004','Angela','Martin','martin@vuejs.org','095972','2003-05-20',309,28000,5.13,'M003',8),  
-> ('E005','Dwight','Shrute','shrute@php.net','095546','2001-06-13',310,35000,5.29,'M001',5),  
-> ('E006','Kelly','Kapoor','kapoor@gmail.com','098796','2005-11-15',311,3300,5.22,'M002',6);
```

Query OK, 6 rows affected (0.111 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
-> ('E006','Kelly','Kapoor','kapoor@gmail.com','098796','2005-11-15',311,3300,5.22,'M002',6);
```

Query OK, 6 rows affected (0.111 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
MariaDB [avi]> select first_name, last_name, email, phone_number, hire_date, department_id from employees where hire_date >= (select max(hire_date) from employees);
```

first_name	last_name	email	phone_number	hire_date	department_id
Kelly	Kapoor	kapoor@gmail.com	098796	2005-11-15	6

1 row in set (0.003 sec)

```
MariaDB [avi]> select first_name, last_name, email, phone_number, hire_date, department_id from employees where (department_id, salary) in (select department_id, min(salary) from employees group by department_id);
```

first_name	last_name	email	phone_number	hire_date	department_id
Pam	Beesly	beesly@javascript.com	095483	2005-03-30	7
Angela	Martin	martin@vuejs.org	095972	2003-05-20	8
Dwight	Shrute	shrute@php.net	095546	2001-06-13	5
Kelly	Kapoor	kapoor@gmail.com	098796	2005-11-15	6

4 rows in set (0.001 sec)

```
MariaDB [avi]> SELECT first_name, last_name, employee_id, commission_pct, salary, department_id FROM employees where department_id=7 and commission_pct<all (select commission_pct from employees where department_id=5);
```

first_name	last_name	employee_id	commission_pct	salary	department_id
Pam	Beesly	E003	5.130	55000	7

1 row in set (0.001 sec)

```
MariaDB [avi]> select distinct department_id from employees L1 where not exists (select * from employees L2 WHERE L1.department_id = L2.department_id and L2.salary > 30000);
```

department_id
8

MariaDB [avi]> select distinct department_id from employees L1 where not exists (select * from employees L2 WHERE L1.department_id = L2.department_id and L2.salary > 30000);

```
+-----+
| department_id |
+-----+
|          8 |
+-----+
1 row in set (0.001 sec)
```

MariaDB [avi]> select department_id, job_id, commission_pct FROM employees L1 WHERE EXISTS (select * FROM employees 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 |
+-----+-----+-----+
|          5 |    310 |          5.290 |
|          6 |    307 |          5.200 |
+-----+-----+-----+
2 rows in set (0.001 sec)
```

MariaDB [avi]> select distinct manager_id FROM employees L1 WHERE NOT EXISTS (select * FROM employees L2 WHERE L1.manager_id = L2.manager_id and L2.salary < 3500);

```
+-----+
| manager_id |
+-----+
| M001 |
| M003 |
+-----+
2 rows in set (0.001 sec)
```

MariaDB [avi]> select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employees WHERE (manager_id, commission_pct) IN (select manager_id, min(commission_pct) FROM employees group BY manager_id);

```
+-----+-----+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | email | salary | department_id | commission_pct |
+-----+-----+-----+-----+-----+-----+-----+
| Jim | Harper | E002 | harper@nodejs.org | 60000 | 6 | 5.200 |
| Pam | Beesly | E003 | beesly@javascript.com | 55000 | 7 | 5.130 |
| Angela | Martin | E004 | martin@vuejs.org | 28000 | 8 | 5.130 |
| Dwight | Shrute | E005 | shrute@php.net | 35000 | 5 | 5.290 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)
```