

Case Study

Objective:

Generate an output table using UiPath to identify employees from different departments who have the same highest salary.

The goal is to list employees alongside their departments and salaries in the output table

Query writing:

```
C:\Users\patil>cd\
```

```
C:\>cd xampp\mysql\bin
```

```
C:\xampp\mysql\bin>mysql -h localhost -u root
```

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

```
Your MariaDB connection id is 26
```

```
Server version: 10.4.32-MariaDB mariadb.org binary distribution
```

```
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
```

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

```
MariaDB [(none)]> use college;
```

```
Database changed
```

Create Tables and Insert values:

```
MariaDB [college]> create table department(department_ID int, name varchar(50), primary  
key(department_ID));
```

```
Query OK, 0 rows affected (0.023 sec)
```

```
MariaDB [college]> create table employee(department_ID int, name varchar(50), salary int,  
foreign key(department_ID) references department(department_ID));
```

```
Query OK, 0 rows affected (0.047 sec)
```

```
MariaDB [college]> insert into department(department_ID,name) values(1,'IT'),(2,'Sales');
```

```
Query OK, 2 rows affected (0.014 sec)
```

```
Records: 2 Duplicates: 0 Warnings: 0
```

```
MariaDB [college]> insert into employee(name,salary,department_ID)
```

```
values('Joe',70000,1),('Jim',90000,1),('Henry',80000,2),('Sam',60000,2),('max',90000,1);
```

```
Query OK, 5 rows affected (0.018 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

Display Tables:

MariaDB [college]> select * from department;

department_ID	name
1	IT
2	Sales

2 rows in set (0.000 sec)

MariaDB [college]> select * from employee;

department_ID	name	salary
1	Joe	70000
1	Jim	90000
2	Henry	80000
2	Sam	60000
1	max	90000

5 rows in set (0.000 sec)

Query for final Output which displaying Highest salary from Different department:

MariaDB [college]> select d.name as Department, e.name as Employee, e.salary from department d right join employee e on d.department_ID=e.department_ID where e.salary in (select max(e.salary) from employee e group by d.name, e.department_ID);

Department	Employee	salary
IT	Jim	90000
Sales	Henry	80000
IT	max	90000

3 rows in set (0.001 sec)

```
Command Prompt - mysql -h x + v
+-----+-----+
| name | name | salary |
+-----+-----+
| IT | Jim | 90000 |
| Sales | Henry | 80000 |
| IT | max | 90000 |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [college]> select * from department;
+-----+-----+
| department_ID | name |
+-----+-----+
| 1 | IT |
| 2 | Sales |
+-----+-----+
2 rows in set (0.000 sec)

MariaDB [college]> select * from employee;
+-----+-----+
| department_ID | name | salary |
+-----+-----+
| 1 | Joe | 70000 |
| 1 | Jim | 90000 |
| 2 | Henry | 80000 |
| 2 | Sam | 60000 |
| 1 | max | 90000 |
+-----+-----+
5 rows in set (0.000 sec)
```

```
Command Prompt - mysql -h x + v
+-----+-----+
| 1 | IT |
| 2 | Sales |
+-----+-----+
2 rows in set (0.000 sec)

MariaDB [college]> select * from employee;
+-----+-----+
| department_ID | name | salary |
+-----+-----+
| 1 | Joe | 70000 |
| 1 | Jim | 90000 |
| 2 | Henry | 80000 |
| 2 | Sam | 60000 |
| 1 | max | 90000 |
+-----+-----+
5 rows in set (0.000 sec)

MariaDB [college]> select d.name as Department, e.name as Employee, e.salary from department d right join employee e on
d.department_ID=e.department_ID where e.salary in (select max(e.salary) from employee e group by d.name, e.department_ID
);
+-----+-----+
| Department | Employee | salary |
+-----+-----+
| IT | Jim | 90000 |
| Sales | Henry | 80000 |
| IT | max | 90000 |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [college]> |
```

