

Matthew Curley

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```
MariaDB [employee]> SELECT e.name AS employee_name, d.department_name FROM employees e INNER JOIN departments d ON e.department_id = d.id;
```

employee_name	department_name
Charlie	HR
Frank	HR
Paul	HR
Wendy	HR
Alice	Engineering
Bob	Engineering
Jack	Engineering
Quincy	Engineering
Xander	Engineering
Grace	Marketing
Olivia	Marketing
Victor	Marketing
David	Finance
Emma	Finance
Rachel	Finance
Hank	Sales
Ivy	Sales
Zach	Sales
Karen	IT
Laura	IT
Tracy	IT
Mike	Customer Support
Nina	Customer Support
Uma	Customer Support

24 rows in set (0.010 sec)

1.

```
MariaDB [employee]> SELECT e.name AS employee_name, d.department_name FROM employees e LEFT JOIN departments d ON e.department_id = d.id;
```

employee_name	department_name
Alice	Engineering
Bob	Engineering
Charlie	HR
David	Finance
Emma	Finance
Frank	HR
Grace	Marketing
Hank	Sales
Ivy	Sales
Jack	Engineering
Karen	IT
Laura	IT
Mike	Customer Support
Nina	Customer Support
Olivia	Marketing
Paul	HR
Quincy	Engineering
Rachel	Finance
Steve	NULL
Tracy	IT
Uma	Customer Support
Victor	Marketing
Wendy	HR
Xander	Engineering
Yvonne	NULL
Zach	Sales

26 rows in set (0.005 sec)

2.

```
MariaDB [employee]> SELECT d.department_name, e.name AS employee_name FROM departments d LEFT JOIN employees e ON d.id = e.department_id;
```

department_name	employee_name
HR	Charlie
HR	Frank
HR	Paul
HR	Wendy
Engineering	Alice
Engineering	Bob
Engineering	Jack
Engineering	Quincy
Engineering	Xander
Marketing	Grace
Marketing	Olivia
Marketing	Victor
Finance	David
Finance	Emma
Finance	Rachel
Sales	Hank
Sales	Ivy
Sales	Zach
IT	Karen
IT	Laura
IT	Tracy
Customer Support	Mike
Customer Support	Nina
Customer Support	Uma
IT SECURITY	NULL
QA	NULL

3. 26 rows in set (0.002 sec)

```
MariaDB [employee]> SELECT e.name AS employee_name, m.name AS manager_name FROM employees e INNER JOIN employees m ON e.manager_id = m.id;
```

employee_name	manager_name
Alice	Jack
Bob	Jack
David	Emma
Frank	Charlie
Ivy	Hank
Karen	Laura
Mike	Nina
Olivia	Grace
Paul	Charlie
Quincy	Jack
Rachel	Emma
Tracy	Laura
Uma	Nina
Victor	Grace
Wendy	Charlie
Xander	Jack
Zach	Hank

4. 17 rows in set (0.001 sec)

```
MariaDB [employee]> SELECT e.name AS employee_name, d.department_name FROM employees e LEFT JOIN departments d ON e.department_id = d.id;
```

employee_name	department_name
Alice	Engineering
Bob	Engineering
Charlie	HR
David	Finance
Emma	Finance
Frank	HR
Grace	Marketing
Hank	Sales
Ivy	Sales
Jack	Engineering
Karen	IT
Laura	IT
Mike	Customer Support
Nina	Customer Support
Olivia	Marketing
Paul	HR
Quincy	Engineering
Rachel	Finance
Steve	NULL
Tracy	IT
Uma	Customer Support
Victor	Marketing
Wendy	HR
Xander	Engineering
Yvonne	NULL
Zach	Sales

5. 26 rows in set (0.001 sec)

```
MariaDB [employee]> SELECT name, salary FROM employees WHERE salary = (SELECT MAX(salary) FROM employees);
```

name	salary
Emma	90000.00

```
1 row in set (0.007 sec)
```

6.

```
MariaDB [employee]> SELECT e.name, d.department_name, e.salary FROM employees e LEFT JOIN departments d ON e.department_id = d.id WHERE e.salary = (SELECT MAX(salary) FROM employees);
```

name	department_name	salary
Emma	Finance	90000.00

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

7.