

Matthew Curley

2/24/26

```
MariaDB [employee]> SELECT e.name AS employee_name, m.name AS manager_name FROM employees e JOIN employees m ON e.manager_id = m.id;
+-----+-----+
| employee_name | manager_name |
+-----+-----+
| Charlotte     | Emma          |
| Ella          | William        |
| Scarlett      | Olivia         |
| Ava           | Ethan          |
| Scarlett      | Sophia         |
| Charlotte     | Robert         |
| Evelyn        | Ava            |
| Mia            | Noah           |
| Ava            | Ethan          |
| Ella          | James          |
| Logan         | Emma           |
| Evelyn        | Emma           |
| Scarlett      | Ethan          |
| Zoe            | Noah           |
| Mia            | Isabella       |
| Grace          | Ethan          |
| Olivia         | James          |
| Scarlett      | William        |
| Mia            | Ava            |
| Emma           | Olivia          |
| Ethan          | Ethan          |
| Logan         | Maria           |
| Abigail       | Emma           |
| Aiden          | Noah           |
| Ava            | Liam            |
| Charlotte     | James          |
| Mateo          | Sophia          |
| Charlotte     | Olivia          |
| Jackson        | Sophia          |
| Evelyn        | Ethan          |
| Joseph         | James          |
+-----+-----+
1.   MariaDB [employee]> SELECT d.department_name, e.name AS manager_name FROM departments d JOIN employees e ON d.manager_id = e.id;
+-----+-----+
| department_name | manager_name |
+-----+-----+
| Assembly       | James          |
| Quality Control | Maria          |
| Machining      | Robert         |
| Logistics      | Emma           |
| Maintenance    | Liam            |
| R&D            | Olivia          |
| Procurement    | Noah           |
| Health & Safety | Ava            |
| Packaging       | William         |
| Inventory       | Sophia          |
| Welding          | Ethan           |
| Plant Management | Isabella        |
+-----+-----+
2.   12 rows in set (0.001 sec)
```

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

employee_name	department_name
James	Assembly
Scarlett	Assembly
Olivia	Assembly
Emma	Assembly
Ethan	Assembly
Mateo	Assembly
Scarlett	Assembly
Aiden	Assembly
Aiden	Assembly
Aiden	Assembly
Emma	Assembly
Ethan	Assembly
Logan	Assembly
Oliver	Assembly
Lucas	Assembly
David	Assembly
Maria	Quality Control
Scarlett	Quality Control
Charlotte	Quality Control
Evelyn	Quality Control
Mason	Quality Control
Ava	Quality Control
Sophia	Quality Control
Noah	Quality Control
Abigail	Quality Control
Elijah	Quality Control
Grace	Quality Control
Abigail	Quality Control
Robert	Machining
Charlotte	Machining
Evelyn	Machining

3.

```
MariaDB [employee]> SELECT name FROM employees WHERE manager_id IS NULL;
```

name
James
Maria
Robert
Emma
Liam
Olivia
Noah
Ava
William
Sophia
Ethan
Isabella
Omar
Sherif

```
14 rows in set (0.004 sec)
```

4.

```
MariaDB [employee]> SELECT name FROM employees WHERE department_id IS NULL;
+-----+
| name |
+-----+
| Mia   |
| Ava   |
| Oliver |
| Omar  |
| Aiden |
| Olivia |
| Logan |
| Mateo |
| Sherif |
| Sebastian |
| Ava   |
| Charlotte |
+-----+
12 rows in set (0.001 sec)
```

5.

```
MariaDB [employee]> SELECT d.department_name, COUNT(e.id) AS employee_count FROM departments d LEFT JOIN employees e ON e.department_id = d.id GROUP BY d.department_name UNION SELECT 'No Department' AS department_name, COUNT(*) FROM employees WHERE department_id IS NULL;
+-----+-----+
| department_name | employee_count |
+-----+-----+
| Assembly       |          16 |
| Health & Safety |         24 |
| Inventory      |          16 |
| Logistics      |          13 |
| Machining      |          13 |
| Maintenance    |          10 |
| Packaging       |          11 |
| Plant Management |         16 |
| Procurement    |          13 |
| Quality Control |          12 |
| R&D            |          15 |
| Welding         |          17 |
| No Department  |          12 |
+-----+-----+
13 rows in set (0.005 sec)
```

6.

```
MariaDB [employee]> SELECT e.name, e.salary, d.department_name FROM employees e JOIN departments d ON e.department_id = d.id WHERE e.manager_id IS NULL AND e.department_id IS NOT NULL;
+-----+-----+-----+
| name  | salary | department_name |
+-----+-----+-----+
| James | 95000 | Assembly      |
| Maria | 92000 | Quality Control |
| Robert | 88000 | Machining     |
| Emma  | 91000 | Logistics     |
| Liam  | 85000 | Maintenance   |
| Olivia | 110000 | R&D          |
| Noah  | 78000 | Procurement   |
| Ava   | 82000 | Health & Safety |
| William | 75000 | Packaging     |
| Sophia | 84000 | Inventory     |
| Ethan  | 89000 | Welding       |
| Isabella | 125000 | Plant Management |
+-----+-----+-----+
12 rows in set (0.003 sec)
```

7.

```
MariaDB [employee]> SELECT e.name AS employee_name, e.salary AS employee_salary, m.name AS manager_name, m.salary AS manager_salary FROM employees e JOIN employees m ON e.manager_id = m.id WHERE e.salary > m.salary;
+-----+-----+-----+-----+
| employee_name | employee_salary | manager_name | manager_salary |
+-----+-----+-----+-----+
| Ella          |        97000 | James        |        95000 |
| Scarlett      |        77000 | William      |        75000 |
+-----+-----+-----+-----+
2 rows in set (0.003 sec)
```

8.