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1. 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

2. 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

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.