

1.

```
MariaDB [employee]> select e1.name as Employee, e2.name as Manager from employees e1 inner join employees e2 where e1.manager_id = e2.id order by Manager;
```

Employee	Manager
Ella	Ava
Jackson	Ava
Evelyn	Ava
Ethan	Ava
Joseph	Ava
Amelia	Ava
Jackson	Ava
Lucas	Ava
Mia	Ava
Aiden	Ava
Scarlett	Ava
Grace	Ava
Charlotte	Ava
Jackson	Ava
Evelyn	Ava
Zoe	Ava
Oliver	Ava
Abigail	Ava
Mateo	Ava
Lucas	Ava
Joseph	Ava
Mia	Emma
Grace	Emma
Elijah	Emma
Aiden	Emma
Elijah	Emma
Emma	Emma
Ava	Emma

2.

```
MariaDB [employee]> select d.department_name as DepartmentName, e.name as Manager from departments d inner join employees e on d.manager_id = e.id;
```

DepartmentName	Manager
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)

3.

```
MariaDB [employee]> select e.name as Name, d.department_name as Department from employees e inner join departments d on e.department_id = d.id order by Department;
```

Name	Department
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
Ava	Health & Safety
Ella	Health & Safety
Scarlett	Health & Safety
Logan	Health & Safety
Logan	Health & Safety
Joseph	Health & Safety
Grace	Health & Safety
Joseph	Health & Safety
Emma	Health & Safety
Zoe	Health & Safety
Logan	Health & Safety
Evelyn	Health & Safety
Lucas	Health & Safety
David	Health & Safety
Ava	Health & Safety
Zoe	Health & Safety
Isabella	Health & Safety
Sophia	Health & Safety
Logan	Health & Safety
James	Health & Safety
Oliver	Health & Safety
Mia	Health & Safety
Robert	Health & Safety

4.

```
MariaDB [employee]> select name as Name from employees where manager_id is null and id > 12;
+-----+
| Name  |
+-----+
| Omar  |
| Sherif|
+-----+
2 rows in set (0.001 sec)
```

5.

```
MariaDB [employee]> select name as 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)
```

6.

```
MariaDB [employee]> select count(e.name) as EmployeeCount, d.department_name as Department from employees e left join departments d on e.department_id = d.id group by Department;
+-----+
| EmployeeCount | Department |
+-----+
| 12 | NULL |
| 16 | Assembly |
| 24 | Health & Safety |
| 16 | Inventory |
| 13 | Logistics |
| 13 | Machining |
| 10 | Maintenance |
| 11 | Packaging |
| 16 | Plant Management |
| 13 | Procurement |
| 12 | Quality Control |
| 15 | R&D |
| 17 | Welding |
+-----+
13 rows in set (0.001 sec)
```

7.

```
MariaDB [employee]> select e.name, e.salary, d.department_name from (select * from employees where manager_id is null) e inner join departments d on e.department_id = d.id;
+-----+
| name  | salary | department_name |
+-----+
| James | 95000  | Assembly |
| Maria | 92000  | Quality Control |
| Robert | 88000  | Machining |
| Emma  | 91000  | Logistics |
| Liam  | 85000  | Maintenance |
| Olivia | 118000 | 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 (0.001 sec)
```

8.

```
MariaDB [employee]> select e.Employee from (select e1.name as Employee, e1.salary as employeeSalary, e2.salary as managerSalary from employees e1 inner join employees e2 on e1.manager_
id = e2.id order by employeeSalary) e where e.employeeSalary > e.managerSalary;
+-----+
| Employee |
+-----+
| Ella     |
| Scarlett |
+-----+
2 rows in set (0.001 sec)
```