1.

```
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;
+---------+-----------------+
| Name    | Department      |
+---------+-----------------+
| 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 (0.001 sec)
```

2.

```
MariaDB [employee]> select e.name as Name, d.department_name as Department from employees e left join departments d on e.department_id = d.id;
+---------+-----------------+
| Name    | Department      |
+---------+-----------------+
| 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 (0.001 sec)
```

```
MariaDB [employee]> select d.department_name as Department, e.name as EmployeeName from departments d left join employees e on d.id = e.department_id;
+------------------+--------------+
| Department       | EmployeeName |
+------------------+--------------+
| 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         |
+------------------+--------------+
26 rows in set (0.000 sec)
```

3.

4.

```
MariaDB [employee]> select T1.name as EmployeeName, T2.name as ManagerName from employees T1 inner join employees T2 on T1.manager_id = T2.id;
+--------------+-------------+
| EmployeeName | ManagerName |
+--------------+-------------+
| 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        |
+--------------+-------------+
17 rows in set (0.001 sec)
```

5.

```
MariaDB [employee]> select e.name as Name, d.department_name as Department from employees e left join departments d on e.department_id = d.id;
+---------+------------------+
| Name    | Department       |
+---------+------------------+
| 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 (0.001 sec)
```

6.

```
MariaDB [employee]> select name, salary from employees where salary = (select MAX(salary) from employees);
+------+----------+
| name | salary   |
+------+----------+
| Emma | 90000.00 |
+------+----------+
1 row in set (0.001 sec)
```

7.

```
MariaDB [employee]> select e.name, d.department_name, e.salary from departments d inner join (select name, salary, department_id from employees where salary = (select max(salary) from
employees)) e on e.department_id = d.id;
+------+-----------------+----------+
| name | department_name | salary   |
+------+-----------------+----------+
| Emma | Finance         | 90000.00 |
+------+-----------------+----------+
1 row in set (0.001 sec)
```