```
ments on e.department_id=departments.department_name;
ERROR 1054 (42S22): Unknown column 'departments.department_name' in 'SELECT'
MariaDB [employee]> SELECT e.name AS Employee, m.name AS Manager FROM employe
es e JOIN employees m ON e.manager_id = m.id;
+-----------+-----------+
| Employee  | Manager   |
+-----------+-----------+
| 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     |
| Amelia    | Liam      |
| Elijah    | William   |
| Grace     | Liam      |
```

```
MariaDB [employee]> SELECT d.department_name, e.name AS Manager FROM departme
nts d JOIN employees e ON d.manager_id = e.id;
+-------------------+----------+
| department_name   | 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 (0.002 sec)

MariaDB [employee]>
```

```
| Lucas      | Health & Safety   |
| Evelyn     | Procurement       |
| David      | Health & Safety   |
| Isabella   | Machining         |
| Ava        | Health & Safety   |
| Liam       | Logistics         |
| Zoe        | Health & Safety   |
| Sherif     | NULL              |
| Isabella   | Health & Safety   |
| Olivia     | Packaging         |
| Sebastian  | NULL              |
| Jackson    | R&D               |
| Abigail    | Logistics         |
| Amelia     | Logistics         |
| Joseph     | Welding           |
| Logan      | R&D               |
| Sophia     | Health & Safety   |
| Elijah     | Quality Control   |
| Logan      | Health & Safety   |
| Ethan      | Inventory         |
| Jackson    | Maintenance       |
| Sophia     | Welding           |
| Charlotte  | Inventory         |
| Mateo      | Maintenance       |
| Lucas      | Machining         |
| Ella       | Welding           |
| James      | Health & Safety   |
| Oliver     | Health & Safety   |
| Mateo      | Inventory         |
| Mia        | Health & Safety   |
| Ava        | NULL              |
| Oliver     | Assembly          |
| Emma       | Packaging         |
| Aiden      | Procurement       |
| Grace      | Machining         |
| Lucas      | Maintenance       |
| Grace      | Quality Control   |
| Jackson    | Logistics         |
| Abigail    | Quality Control   |
| Jackson    | Health & Safety   |
| Noah       | Health & Safety   |
```

```
MariaDB [employee]> SELECT e.name, d.department_name FROM employees e LEFT JO
IN departments d ON e.department_id = d.id;
+-----------+-------------------+
| name      | department_name   |
+-----------+-------------------+
| James     | Assembly          |
| Maria     | Quality Control   |
| Robert    | Machining         |
| Emma      | Logistics         |
| Liam      | Maintenance       |
| Olivia    | R&D               |
| Noah      | Procurement       |
| Ava       | Health & Safety   |
| William   | Packaging         |
| Sophia    | Inventory         |
| Ethan     | Welding           |
| Isabella  | Plant Management  |
| Charlotte | Machining         |
| Ella      | Health & Safety   |
| Scarlett  | Health & Safety   |
| Ava       | Procurement       |
| Scarlett  | R&D               |
| Charlotte | Inventory         |
| Evelyn    | Machining         |
| Mia       | NULL              |
| Ava       | R&D               |
| Ella      | Procurement       |
| Logan     | Health & Safety   |
| Evelyn    | R&D               |
| Scarlett  | Assembly          |
| Zoe       | R&D               |
| Mia       | Plant Management  |
| Grace     | Procurement       |
| Olivia    | Assembly          |
| Scarlett  | Quality Control   |
| Mia       | Plant Management  |
| Emma      | Assembly          |
| Ethan     | Assembly          |
| Logan     | Health & Safety   |
| Abigail   | Plant Management  |
| Aiden     | Welding           |
```

```
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 (0.001 sec)

MariaDB [employee]>

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)

MariaDB [employee]>
```

```
MariaDB [employee]> SELECT d.department_name, COUNT(e.id) AS employee_count
    -> FROM departments d
    -> LEFT JOIN employees e ON d.id = e.department_id
    -> GROUP BY d.department_name
    -> UNION
    -> SELECT 'No Department', 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 (0.021 sec)
```

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

```
+----------+------------+----------+------------+
| Employee | Emp_Salary | Manager  | Mgr_Salary |
+----------+------------+----------+------------+
| Ella     |      97000 | James    |      95000 |
| Scarlett |      77000 | William  |      75000 |
+----------+------------+----------+------------+
2 rows in set (0.001 sec)

MariaDB [employee]>
```