

Self Joins

A self join lets you join a table with itself, and typically involves two steps

1. Combine a table with itself based on matching column
2. Filter on the resulting rows based on some criteria

Example 1: Identifying

SELECT * FROM employees;

employee.id	name	salary
1	Ave	85000
2	Bob	72000
3	Cat	69000
4	Don	85000

matching rows within a table
-- Employees with the same salary
SELECT e1.name, e1.salary
e2.name, e2.salary

FROM employees e1



INNER JOIN employees e2
WHERE e1.name < e2.name
ORDER BY e1.name;

name	salary	name	salary
Ave	85000	Don	85000
Don	85000	Ave	85000

Example 2: Comparing values within rows in a table

-- Employees that have a greater salary
SELECT e1.name, e1.salary
e2.name, e2.salary

FROM employees e1
INNER JOIN employees e2
ON e1.salary > e2.salary
ORDER BY e1.name;

name	salary	name	salary
Ave	85000	Bob	72000
Ave	85000	Cat	69000
Bob	72000	Cat	69000
Don	85000	Bob	72000
Don	85000	Cat	69000