

LEFT JOIN Query Example with Explanation

This query demonstrates the use of a LEFT JOIN to examine the relationship between 'countries' and 'currencies'. The results are filtered to include only rows where the region is 'North America' or the country name is NULL, allowing a comparison with FULL JOIN results.

-- SQL Query Using LEFT JOIN

```
SELECT name AS country, code, region, basic_unit
FROM countries
-- Join to currencies
LEFT JOIN currencies
USING (code)
WHERE region = 'North America'
      OR name IS NULL
ORDER BY region;
```

Explanation: This query uses a LEFT JOIN to retrieve all rows from the 'countries' table, even if there is no match in the 'currencies' table. The USING clause specifies the common column for the join ('code'), while the WHERE clause filters the results to include only rows where:

1. The region is 'North America', or
 2. The country name is NULL (indicating unmatched rows from 'currencies').
- Finally, the ORDER BY clause sorts the results alphabetically by region.