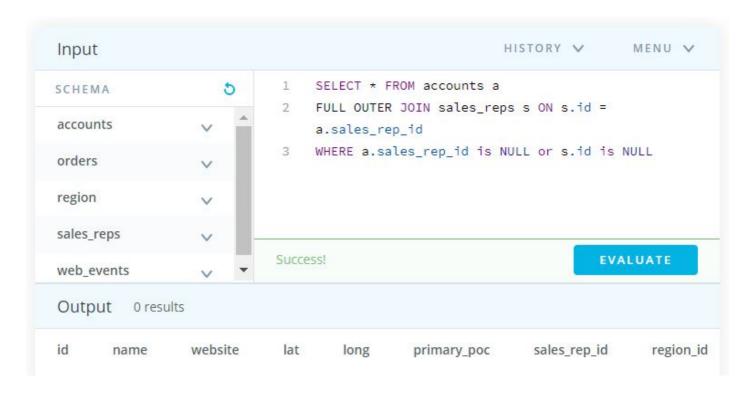
Finding Matched and Unmatched Rows with FULL OUTER JOIN

You're not likely to use FULL JOIN (which can also be written as FULL OUTER JOIN) too often, but the syntax is worth practicing anyway. LEFT JOIN and RIGHT JOIN each return unmatched rows from one of the tables—FULL JOIN returns unmatched rows from both tables. FULL JOIN is commonly used in conjunction with aggregations to understand the amount of overlap between two tables.

Say you're an analyst at Parch & Posey and you want to see:

- each account who has a sales rep and each sales rep that has an account (all of the columns in these returned rows will be full)
- but also each account that does not have a sales rep and each sales rep that does not have an
 account (some of the columns in these returned rows will be empty)

This type of question is rare, but FULL OUTER JOIN is perfect for it. In the following SQL Explorer, write a query with FULL OUTER JOIN to fit the above described Parch & Posey scenario (selecting all of the columns in both of the relevant tables, accounts and sales_reps) then answer the subsequent multiple choice quiz.



Inequality JOINs

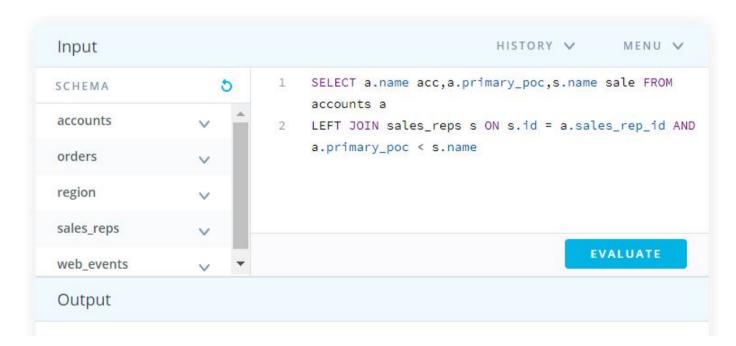
The query in Derek's video was pretty long. Let's now use a shorter query to showcase the power of joining with comparison operators.

Inequality operators (a.k.a. comparison operators) don't only need to be date times or numbers, they also work on strings! You'll see how this works by completing the following quiz, which will also reinforce the concept of joining with comparison operators.

In the following SQL Explorer, write a query that left joins the accounts table and the sales_reps tables on each sale rep's ID number and joins it using the comparison operator on accounts.primary_poc and sales_reps.name, like so:

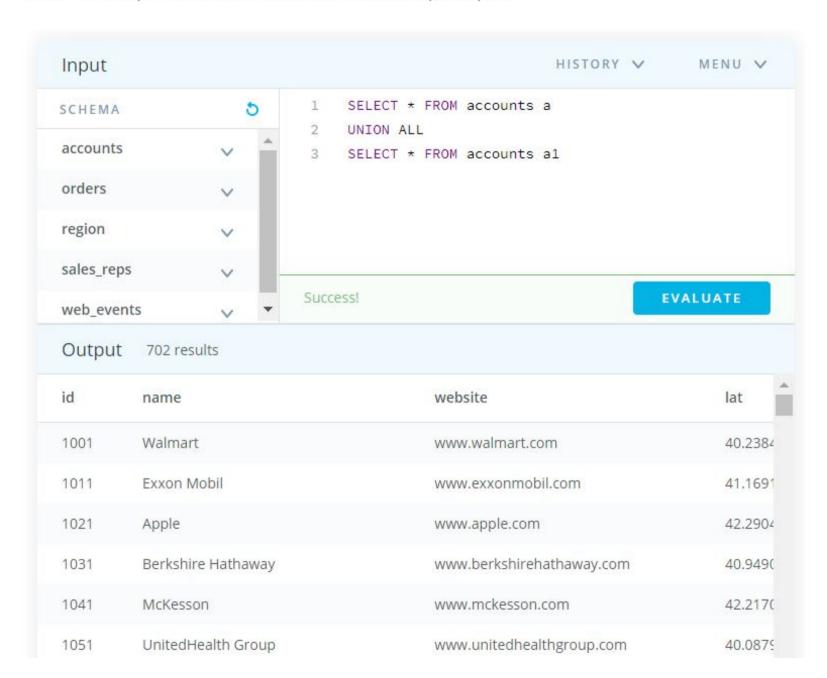
```
accounts.primary_poc < sales_reps.name
```

The query results should be a table with three columns: the account name (e.g. Johnson Controls), the primary contact name (e.g. Cammy Sosnowski), and the sales representative's name (e.g. Samuel Racine). Then answer the subsequent multiple choice question.



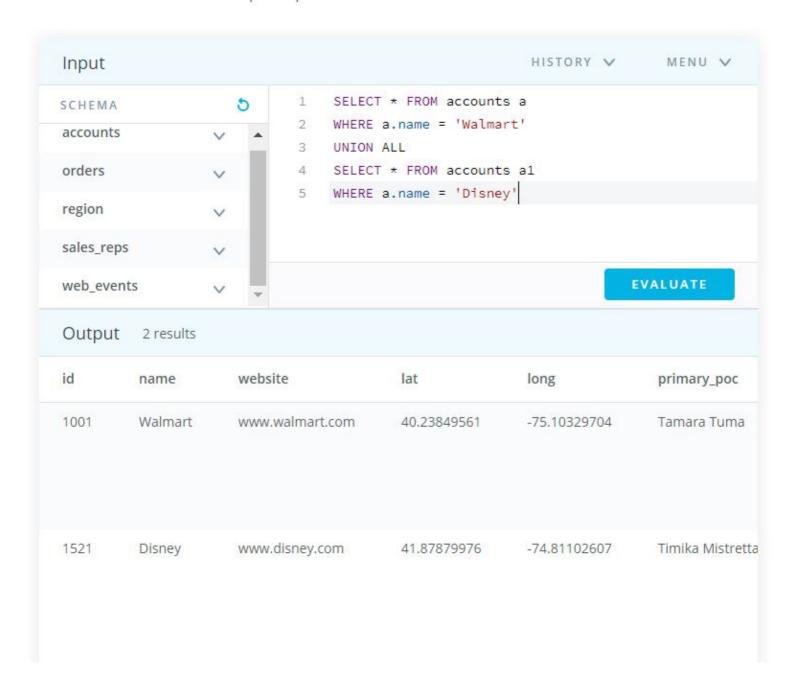
Appending Data via UNION

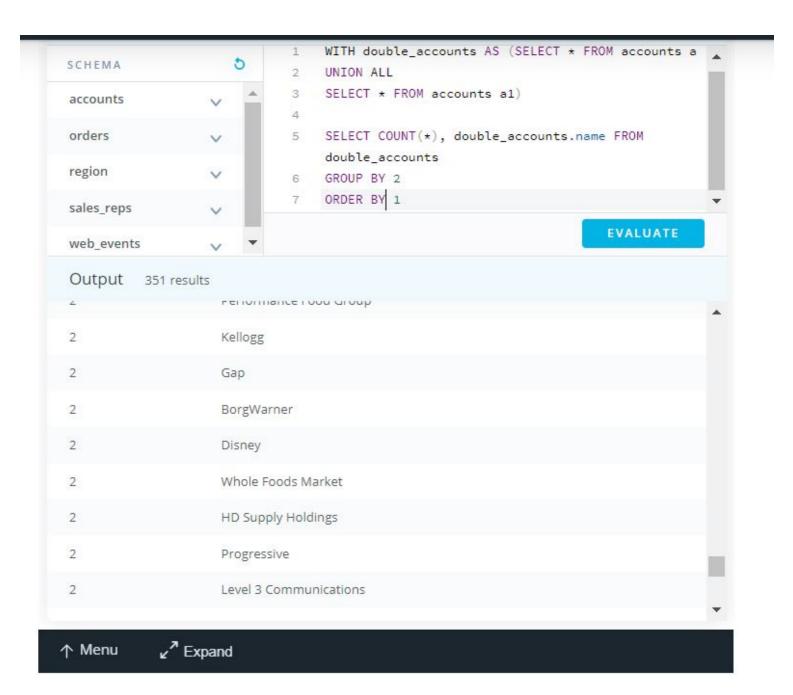
Write a query that uses UNION ALL on two instances (and selecting all columns) of the accounts table. Then inspect the results and answer the subsequent quiz.



Pretreating Tables before doing a UNION

Add a WHERE clause to each of the tables that you unioned in the query above, filtering the first table where name equals Walmart and filtering the second table where name equals Disney. Inspect the results then answer the subsequent quiz.





Performing Operations on a Combined Dataset

Perform the union in your first query (under the **Appending Data via UNION** header) in a common table expression and name it double_accounts. Then do a COUNT the number of times a name appears in the double_accounts table. If you do this correctly, your query results should have a count of 2 for each name.