

RIGHT JOIN Query Example

This exercise involves modifying a query to use a RIGHT JOIN instead of a LEFT JOIN, while producing the same results. RIGHT JOIN retrieves all rows from the right table and matching rows from the left table.

Below is the instruction and query setup:

The screenshot shows a web-based SQL learning environment. The top navigation bar includes 'Learn / Courses / Joining Data In SQL', a 'Course Outline' menu, and a 'Daily XP 931' indicator. The main content area is divided into two panels. The left panel, titled 'Exercise', contains the question 'Is this RIGHT?' and explains that right joins are less common than left joins. It provides instructions to write a new query using RIGHT JOIN that produces the same result as the provided LEFT JOIN query. A 'Take Hint (-30 XP)' button is also present. The right panel, titled 'query.sql', shows the original SQL query:

```
1 -- Modify this query to use RIGHT JOIN instead of LEFT JOIN
2 SELECT countries.name AS country, languages.name AS language,
3    percent
4 FROM countries
5 LEFT JOIN languages
6    USING(code)
7 ORDER BY language;
```

 Below the code editor are buttons for 'Run Code' and 'Submit Answer'. At the bottom, the 'query result' panel shows tabs for 'countries' and 'languages', with a message 'No query executed yet...' and 'Showing 0 out of 0 rows'.

Learn / Courses / Joining Data In SQL

Course Outline

Daily XP 931

Exercise

Is this RIGHT?

You learned that right joins are not used as commonly as left joins. A key reason for this is that right joins can always be re-written as left joins, and because joins are typically typed from left to right, joining from the left feels more intuitive when constructing queries.

It can be tricky to wrap one's head around when left and right joins return equivalent results. You'll explore this in this exercise!

Instructions 100 XP

- Write a new query using `RIGHT JOIN` that produces an identical result to the `LEFT JOIN` provided.

Take Hint (-30 XP)

query.sql

```
1 -- Modify this query to use RIGHT JOIN instead of LEFT JOIN
2 SELECT countries.name AS country, languages.name AS language,
3    percent
4 FROM countries
5 LEFT JOIN languages
6    USING(code)
7 ORDER BY language;
```

Run Code Submit Answer

query result countries languages

No query executed yet...

Showing 0 out of 0 rows

-- SQL Query Using RIGHT JOIN

```
SELECT countries.name AS country, languages.name AS language, percent
FROM languages
RIGHT JOIN countries
```

USING(code)
ORDER BY language;

Explanation: This query uses a RIGHT JOIN to include all rows from the 'countries' table and matching rows from the 'languages' table. Steps in the query:

1. RIGHT JOIN: Combines rows from 'languages' and 'countries', ensuring all rows from 'countries' are included.
2. USING(code): Specifies the join condition using the common 'code' column.
3. SELECT: Retrieves the country name, language name, and the percentage of language speakers.
4. ORDER BY language: Sorts the results by language name.