

SQL Exercise: Subquery Inside FROM - Step 2

Learn / Courses / Joining Data in SQL

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Daily XP 2215

Exercise

Subquery inside FROM

Subqueries inside `FROM` can help select columns from multiple tables in a single query.

Say you are interested in determining the number of languages spoken for each country. You want to present this information alongside each country's `local_name`, which is a field only present in the `countries` table and not in the `languages` table. You'll use a subquery inside `FROM` to bring information from these two tables together!

Instructions 2/2 50 XP ✓ 2

- Select `local_name` from `countries`, with the aliased `lang_num` from your subquery (which has been nested and aliased for you as `sub`).
- Use `WHERE` to match the `code` field from `countries` and `sub`.

Take Hint (-15 XP)

query.sql

```
1 -- Select local_name and lang_num from appropriate tables
2
3 --
4 (SELECT code, COUNT(*) AS lang_num
5  FROM languages
6  GROUP BY code) AS sub
7 -- Where codes match
8 ORDER BY lang_num DESC;
```

Run Code Submit Answer

query result

code	lang_num
PRY	2
NRU	3
MDG	3
ASM	5
TZA	4
PLW	6
NLD	1
VEN	2

Showing 100 out of 212 rows

Question: Select 'local_name' from 'countries', with the aliased 'lang_num' from your subquery (which has been nested and aliased for you as 'sub'). Use WHERE to match the 'code' field from 'countries' and 'sub'.

Correct Answer:

SQL Query:

SELECT countries.local_name, sub.lang_num

FROM countries

JOIN (

SELECT code, COUNT(*) AS lang_num

```
FROM languages
GROUP BY code
) AS sub
ON countries.code = sub.code
ORDER BY sub.lang_num DESC;
```

Explanation:

- The query uses a subquery inside the FROM clause to count the number of languages spoken in each country, aliased as 'lang_num'.
- The subquery is joined with the 'countries' table using the JOIN clause, matching 'code' from both tables.
- The SELECT statement retrieves the 'local_name' from the 'countries' table and 'lang_num' from the subquery.
- The ORDER BY clause sorts the results by 'lang_num' in descending order to display countries with the highest number of languages first.