

SQL Exercise: Diagnosing Problems Using Anti Join - Part 1

Learn / Courses / Joining Data In SQL

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Daily XP 1665

Exercise

Diagnosing problems using anti join

Nice work on semi joins! The anti join is a related and powerful joining tool. It can be particularly useful for identifying whether an incorrect number of records appears in a join.

Say you are interested in identifying currencies of Oceanian countries. You have written the following `INNER JOIN`, which returns 15 records. Now, you want to ensure that all Oceanian countries from the `countries` table are included in this result. You'll do this in the first step.

```
SELECT c1.code, name, basic_unit AS currency
FROM countries AS c1
INNER JOIN currencies AS c2
ON c1.code = c2.code
WHERE c1.continent = 'Oceania';
```

If there are any Oceanian countries excluded in this `INNER JOIN`, you want to return the names of these countries. You'll write an anti join to this in the second step!

Instructions 1/2 50 XP 1 2

- Begin by writing a query to return the `code` and `name` (in order, not aliased) for all countries in the `continent` of `Oceania` from the `countries` table.
- Observe the number of records returned and compare this with the provided `INNER JOIN`, which returns 15 records.

Take Hint (-15 XP)

query.sql

Light Mode

```
1 -- Select code and name of countries from Oceania
```

Run Code Submit Answer

query result

countries currencies

No query executed yet...

Showing 0 out of 0 rows

Question: Begin by writing a query to return the code and name (in order, not aliased) of all countries in the 'continent' of Oceania from the 'countries' table. Observe the number of records returned and compare this with the provided INNER JOIN result, which returns 15 records.

Correct Answer:

SQL Query:

```
SELECT code, name
FROM countries
```

```
WHERE continent = 'Oceania'  
ORDER BY name;
```

Explanation:

- The query retrieves the 'code' and 'name' columns from the 'countries' table for countries in the 'Oceania' continent.
- The 'WHERE continent = "Oceania"' clause filters the rows to only include countries from Oceania.
- The 'ORDER BY name' clause sorts the results by the country name in ascending order for better readability.