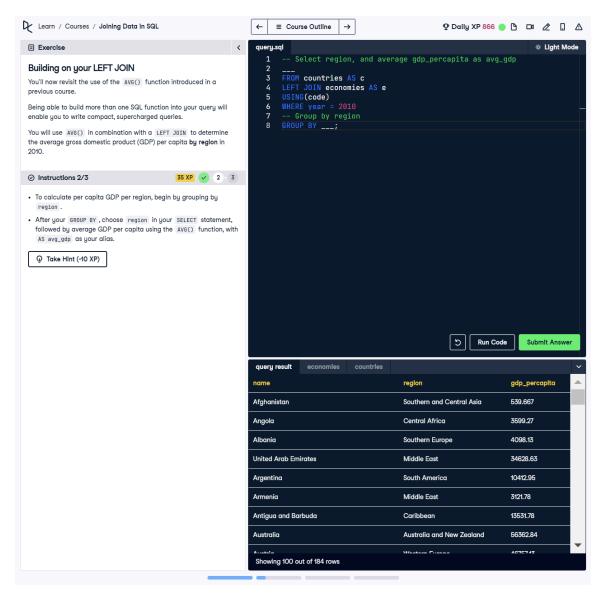# LEFT JOIN with AVG Function by Region

This exercise uses a LEFT JOIN to determine the average GDP per capita by region for the year 2010. The AVG function is used in combination with GROUP BY to calculate the average GDP for each region.

Below is the instruction and query setup:

-- SQL Query Using LEFT JOIN, AVG, and GROUP BY

SELECT region, AVG(gdp_percapita) AS avg_gdp
FROM countries AS c
LEFT JOIN economies AS e

```
USING(code)
WHERE year = 2010
-- Group by region
GROUP BY region;
```

Explanation: This query uses a LEFT JOIN to combine data from 'countries' and 'economies'. The USING clause simplifies the join condition by matching the 'code' column. The WHERE clause filters the data for the year 2010. The AVG function calculates the average GDP per capita for each region, and the GROUP BY clause ensures that the averages are grouped by region. The SELECT statement retrieves:
1. 'region': The region of the country.
2. 'AVG(gdp_percapita)': The average GDP per capita for each region, aliased as 'avg_gdp'.