# Slide to the Left: Running Total and Average of Home Goals

## Question

Using sliding window functions, calculate the running total and running average of home goals scored by FC Utrecht (hometeam\_id = 9908) during the 2011/2012 season. Order the calculations by match date.

## Corrected Solution

SELECT  
 date,  
 home\_goal,  
 away\_goal,  
 -- Create a running total of home goals  
 SUM(home\_goal) OVER(  
 ORDER BY date ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW  
 ) AS running\_total,  
 -- Create a running average of home goals  
 AVG(home\_goal) OVER(  
 ORDER BY date ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW  
 ) AS running\_avg  
FROM match  
WHERE hometeam\_id = 9908  
 AND season = '2011/2012';

## Explanation

This query calculates the running total and average of home goals scored by FC Utrecht during the 2011/2012 season. The sliding window functions (`SUM` and `AVG`) compute cumulative values ordered by the match date. The `ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW` clause ensures each calculation includes all rows from the start up to the current row. Filtering with `hometeam\_id = 9908` and `season = '2011/2012'` narrows the dataset to relevant matches, eliminating the need for a `PARTITION BY` clause.