# Slide to the Right: 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 (awayteam\_id = 9908) during the 2011/2012 season. Order the calculations by match date in reverse (descending) order.

## Corrected Solution

SELECT  
 date,  
 home\_goal,  
 away\_goal,  
 -- Create a running total of home goals from the current row to the end  
 SUM(home\_goal) OVER(  
 ORDER BY date DESC ROWS BETWEEN CURRENT ROW AND UNBOUNDED FOLLOWING  
 ) AS running\_total,  
 -- Create a running average of home goals from the current row to the end  
 AVG(home\_goal) OVER(  
 ORDER BY date DESC ROWS BETWEEN CURRENT ROW AND UNBOUNDED FOLLOWING  
 ) AS running\_avg  
FROM match  
WHERE awayteam\_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, when they were the away team. The use of `ROWS BETWEEN CURRENT ROW AND UNBOUNDED FOLLOWING` ensures that the calculations include the current row and all rows that follow in reverse order. The `ORDER BY date DESC` clause processes rows from the latest to the earliest match date. Filtering with `awayteam\_id = 9908` and `season = '2011/2012'` ensures the calculations are specific to relevant matches.