



European Soccer

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Project Overview



Analyzed data from the **European Soccer Database** using SQL.



Goal: Support a sports channel with data-driven insights for engaging soccer coverage.



Focus: Teams, players, match trends, and performance patterns.



Business Problem

A leading sports channel wants to:

- Improve soccer coverage with deeper analysis.
- Create engaging, fact-based stories for fans.
- Use historical data for smarter predictions and content planning.



Data Source

Dataset: **European Soccer Database (Kaggle)**

Includes:

- Countries
- Leagues
- Teams
- Matches
- Players
- Player and Team Attributes



Data Questions

- How many teams are there in each country?
- How many matches were played in each league?
- Which teams belong to each league?
- Who are the top ten teams by performance over multiple seasons?
- Who are the top ten players in Europe over the period?
- Which season can be considered a "trend season"?
- What are the total home goals scored, grouped by country and team?
- How many goals did each team score, grouped by season?
- How do leagues differ in terms of average goals per match?



Data Questions

- What were the win percentages and aggregated win/loss records, along with goals scored and conceded per team, per season?
- Which teams had the most wins across all seasons and leagues?
- Which team attributes have the biggest impact on total goals scored?
- How did the aggregated goals for the top five scoring teams in Spain's La Liga evolve over time?
- Did a player's BMI influence their performance score (overall rating)?
- Analyzing Real Madrid Results

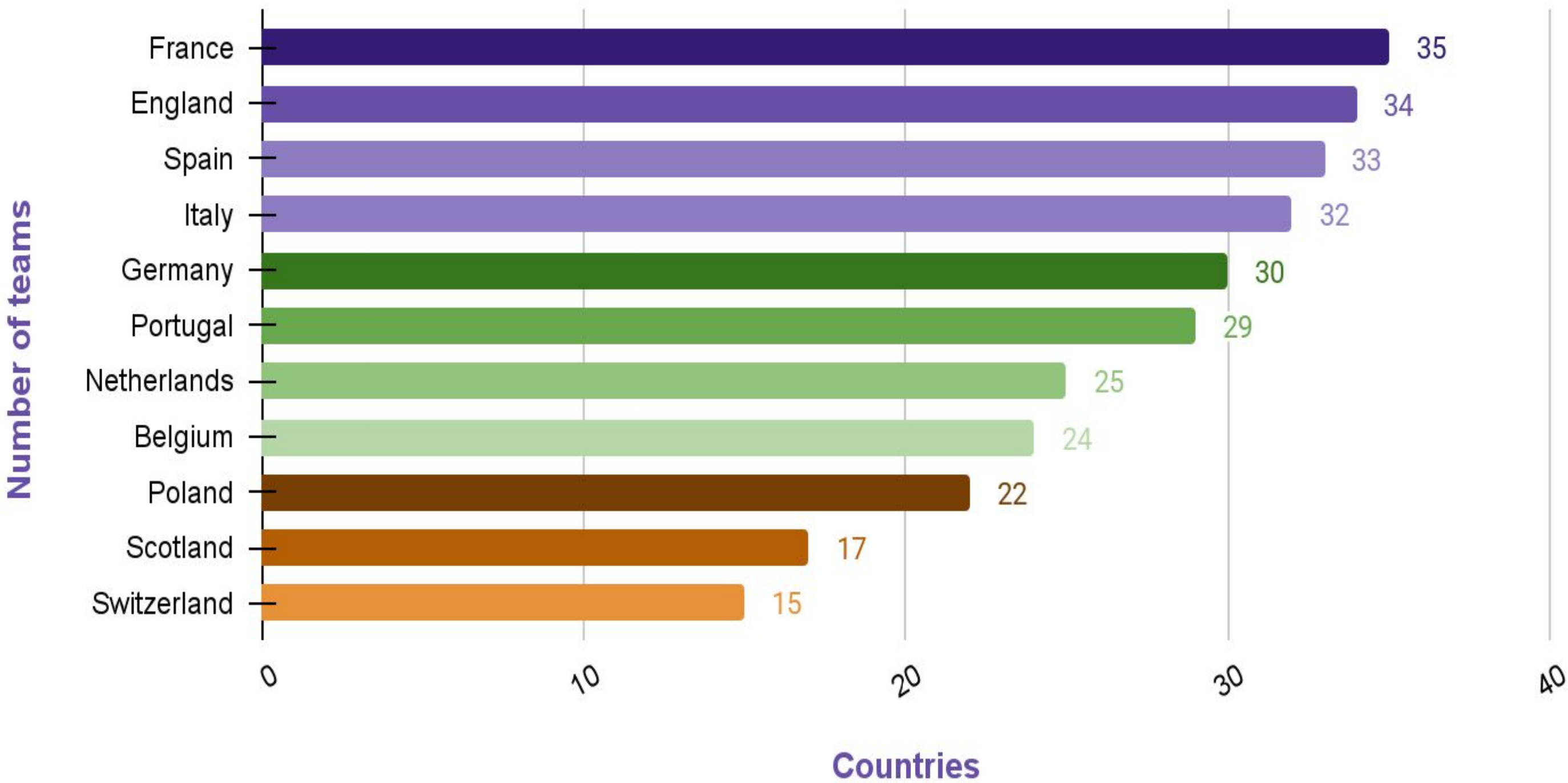


Results

1. League Popularity

The analysis revealed the distribution of teams across different national leagues. Notably, France's Ligue 1 hosts the highest number of teams, followed by England's Premier League.

The number of teams by each country

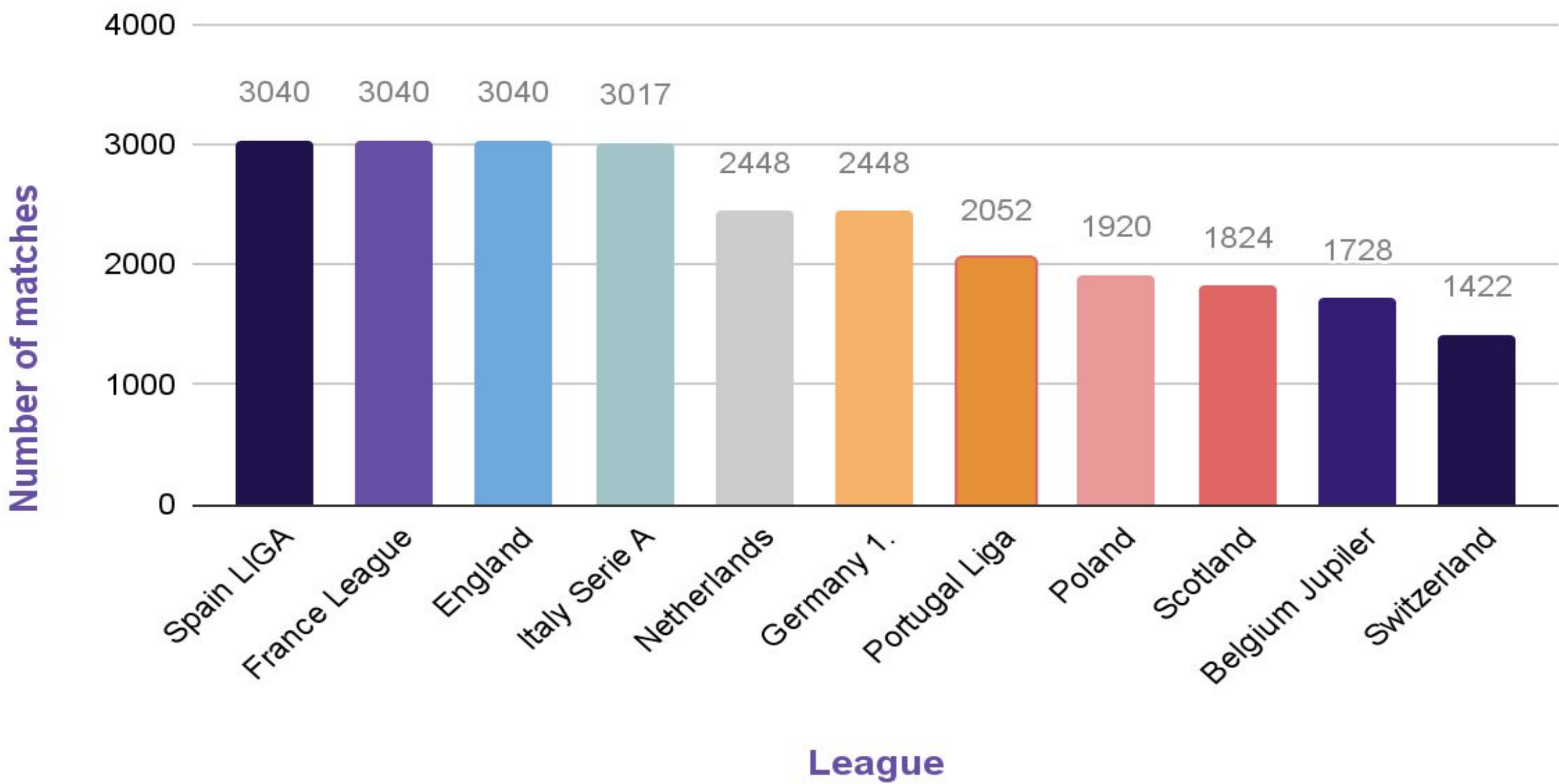


Results

2.League Activity

Leagues with a higher number of matches are typically those with more teams and extended seasons. For example, Spain's La Liga (LIGA BBVA) recorded the highest number of matches.

The number of matches played by league

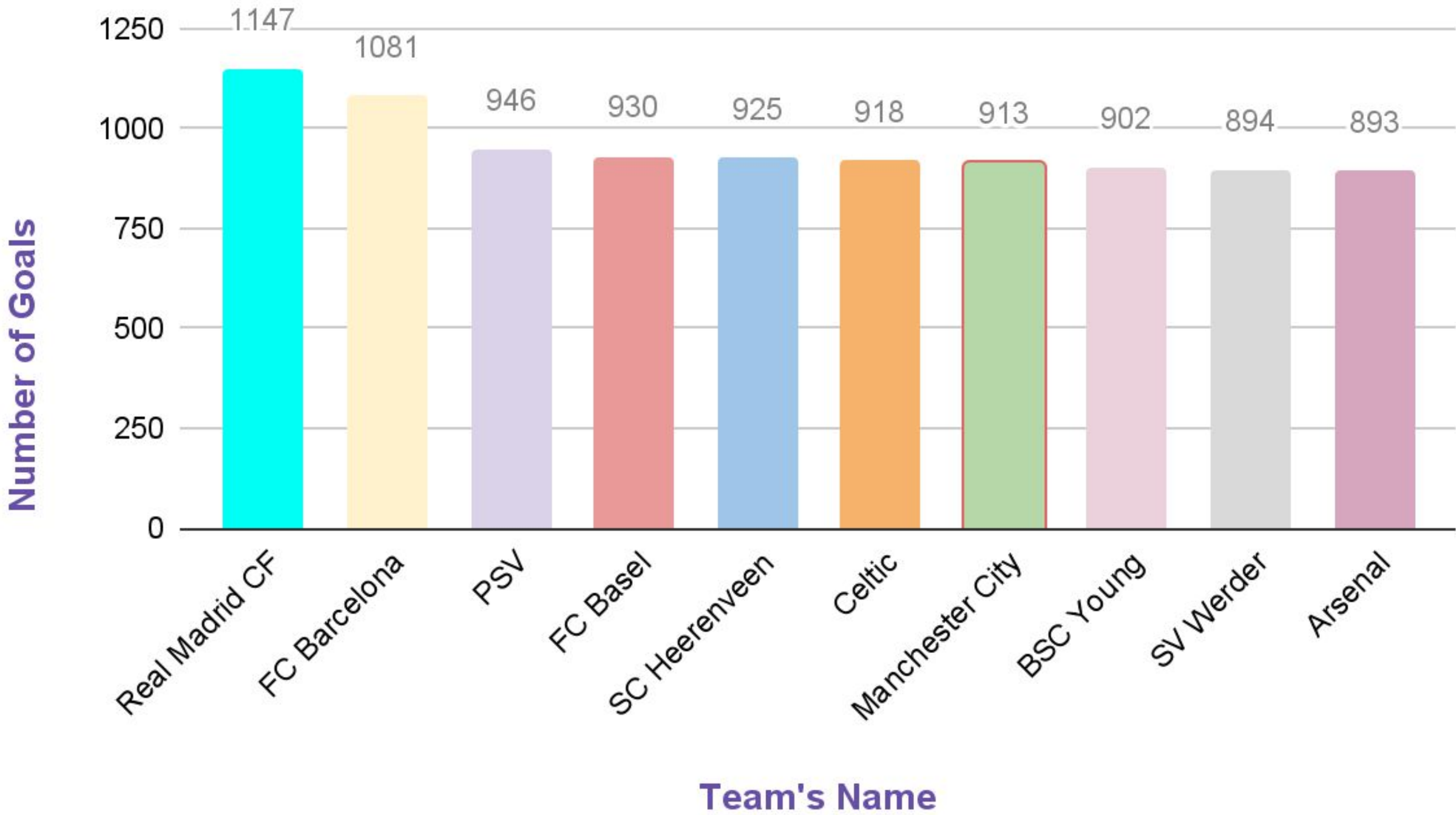


Results

3.Top Ten Teams by Performance Over Seasons

Teams such as Real Madrid, Barcelona, and Bayern Munich consistently ranked among the top across multiple seasons, both in total points and win percentage.

Top ten teams by performance over seasons

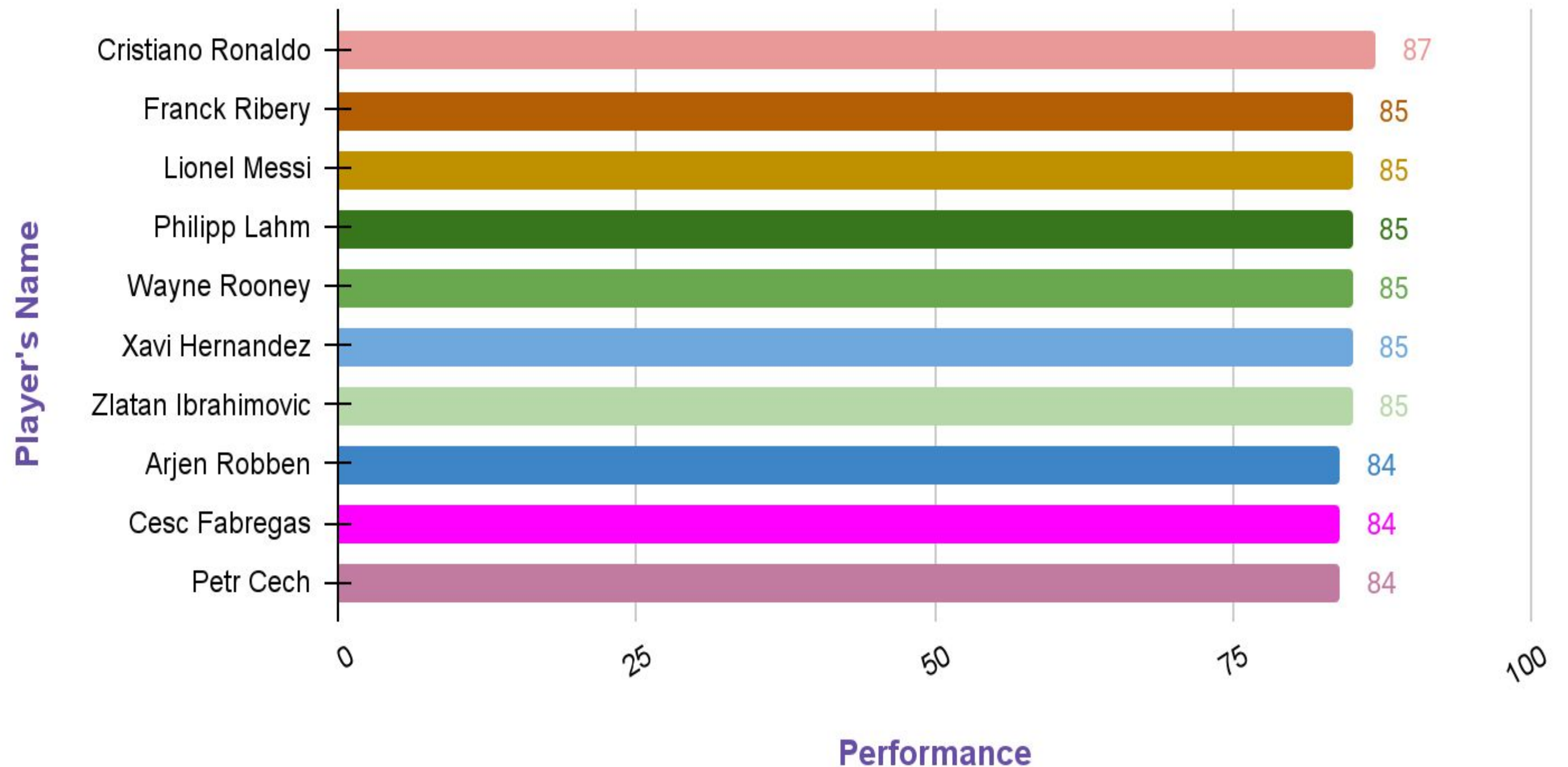


Results

4.Top 10 Players in Europe Over the Period

The top-performing players included Cristiano Ronaldo, Franck Ribéry, Lionel Messi, Philipp Lahm, Wayne Rooney, Xavi Hernández, Zlatan Ibrahimović, Arjen Robben, Cesc Fàbregas, and Petr Čech.

Top 10 players in Europe from 2008 to 2016

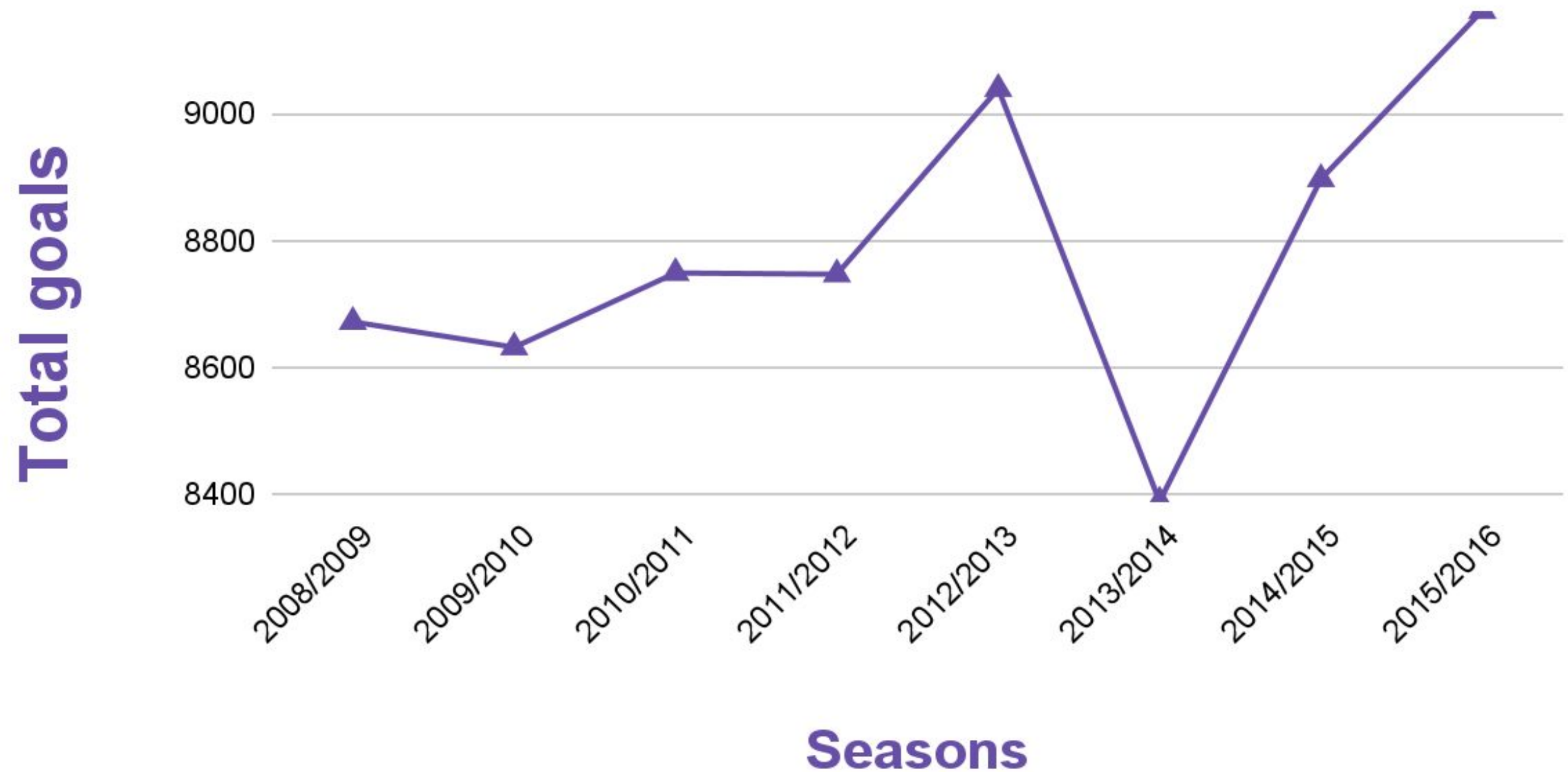


Results

5.Trend Season Identification

The 2015–2016 season stood out as the trend-setting period due to a notable surge in goals scored, reaching a total of 9,162 goals.

The trend season

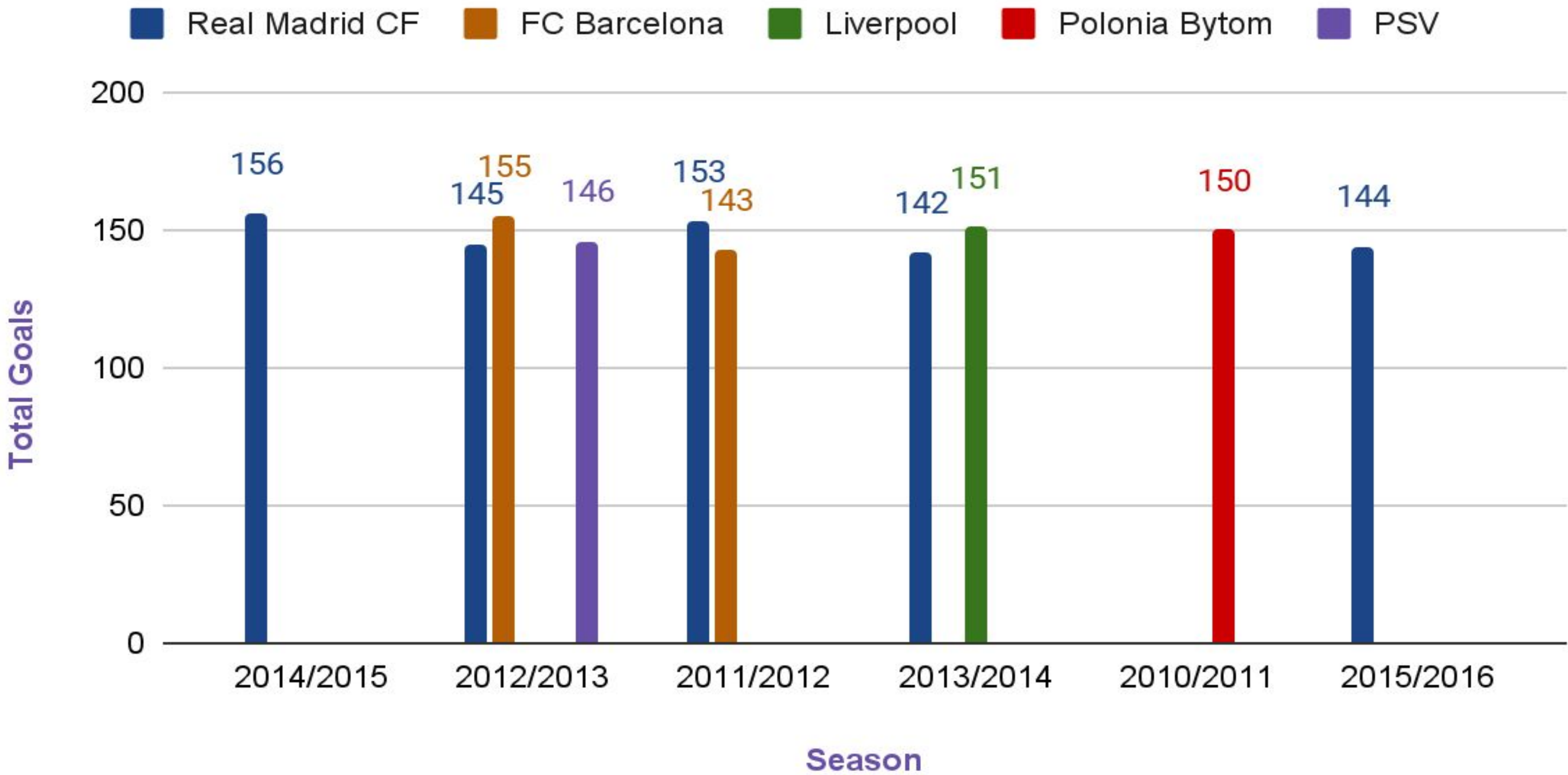


Results

6.Goals Scored by Each Team Grouped by Season

Real Madrid CF achieved the highest number of home goals during the 2015–2016 season.

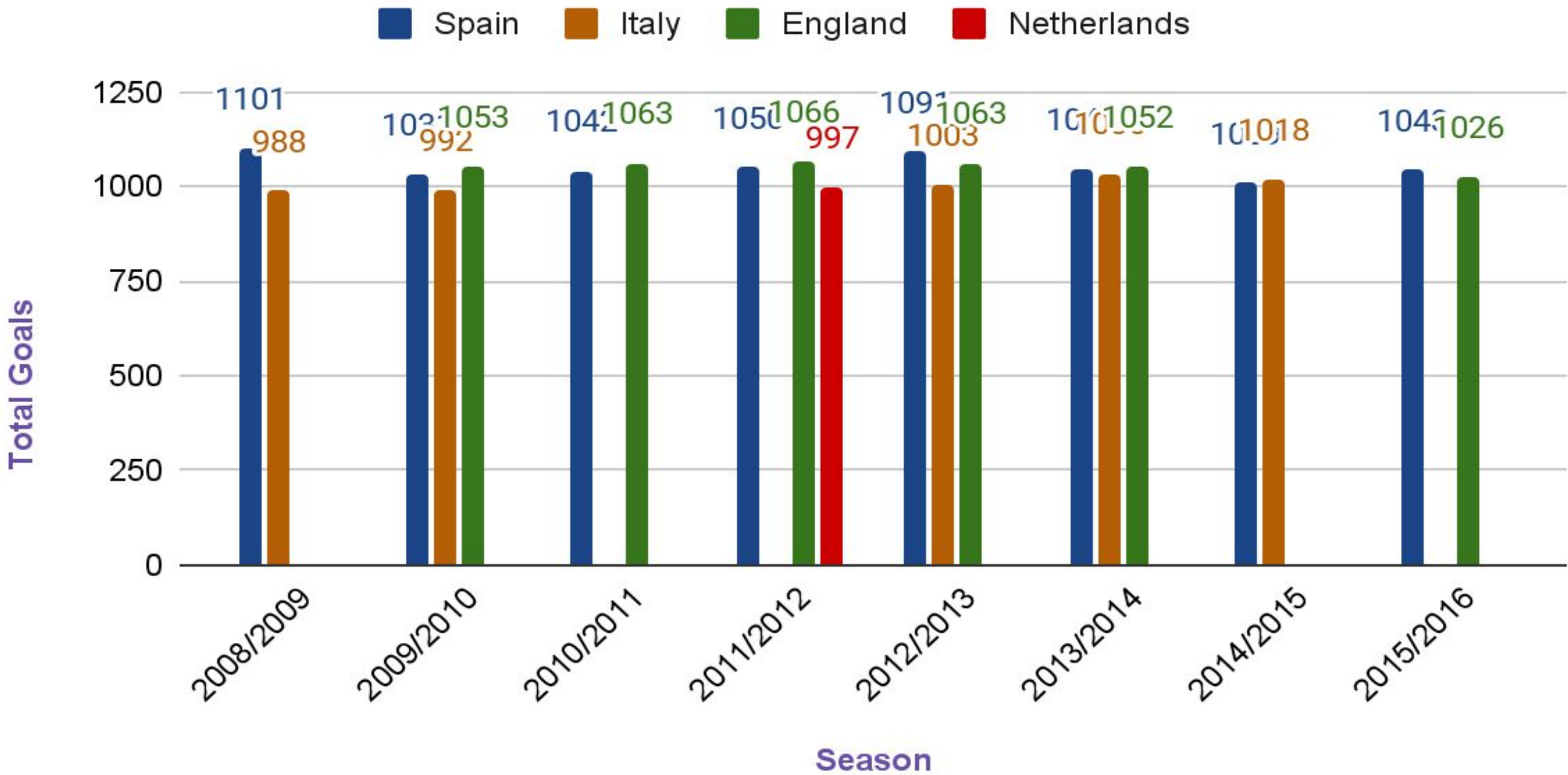
Total Goals by Teams per Season



Results

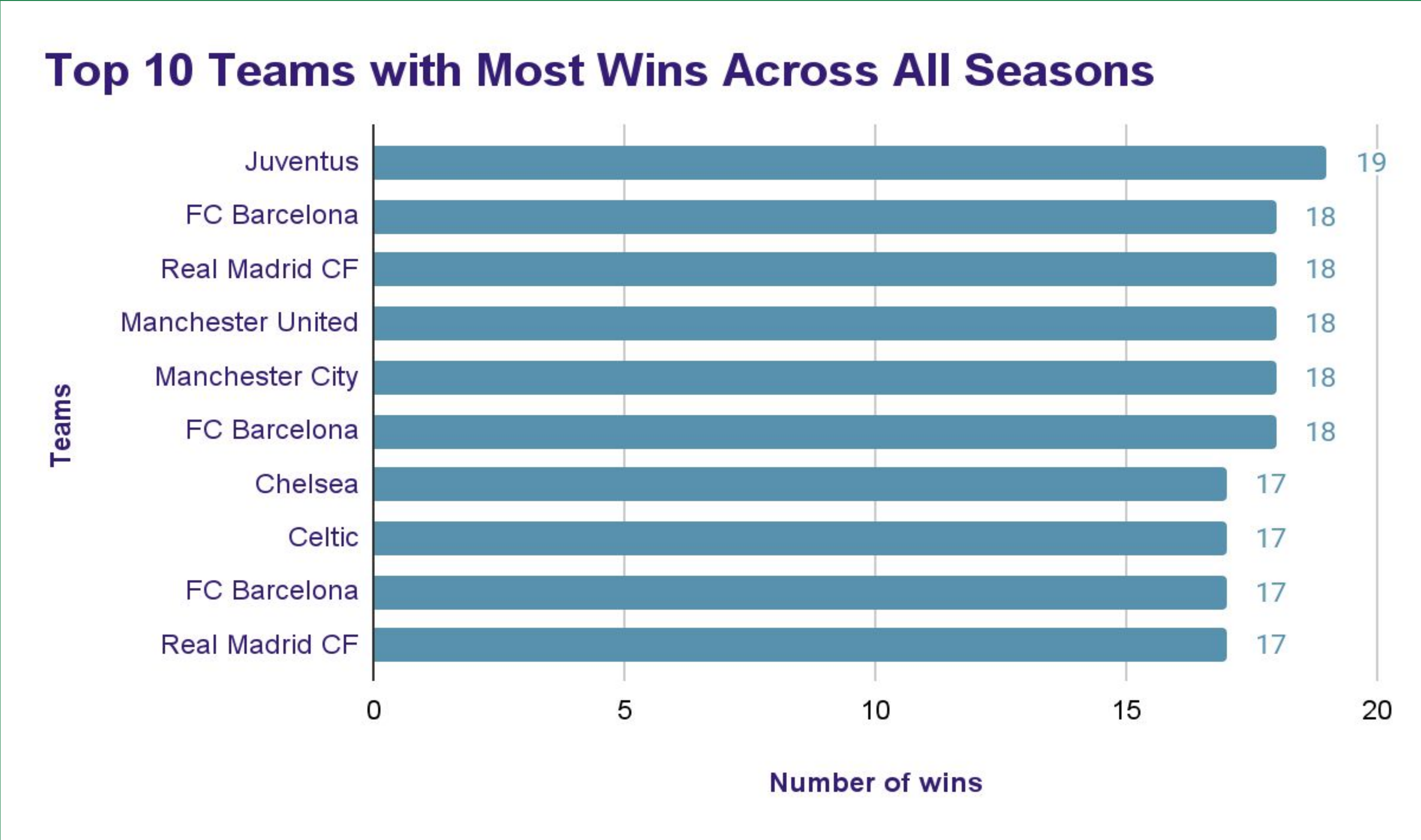
7.Goals Scored by Each Team Grouped by Season

Total Goals by Teams per Season



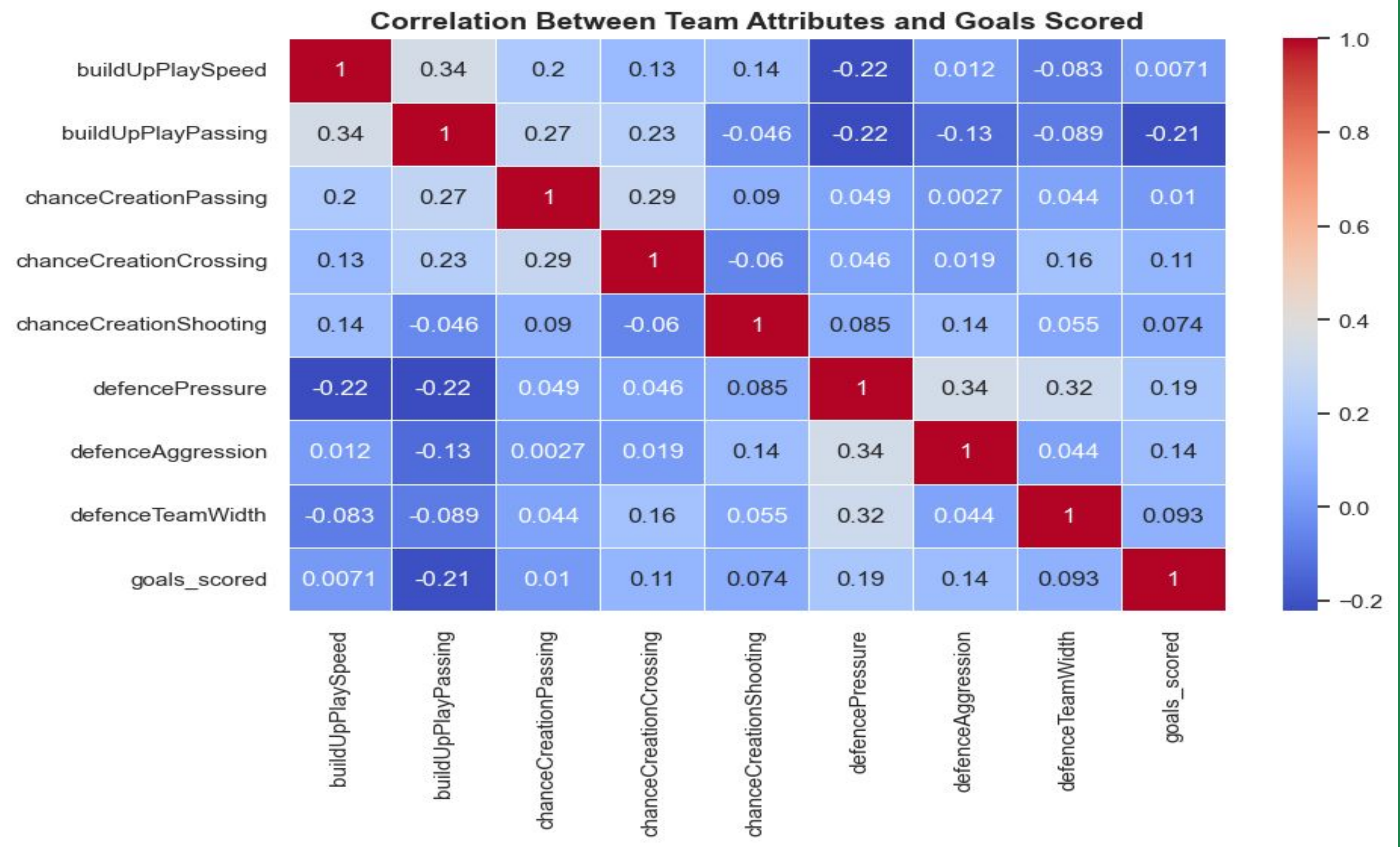
Results

8. Top Ten Teams with the Most Wins Across All Seasons and Leagues



Results

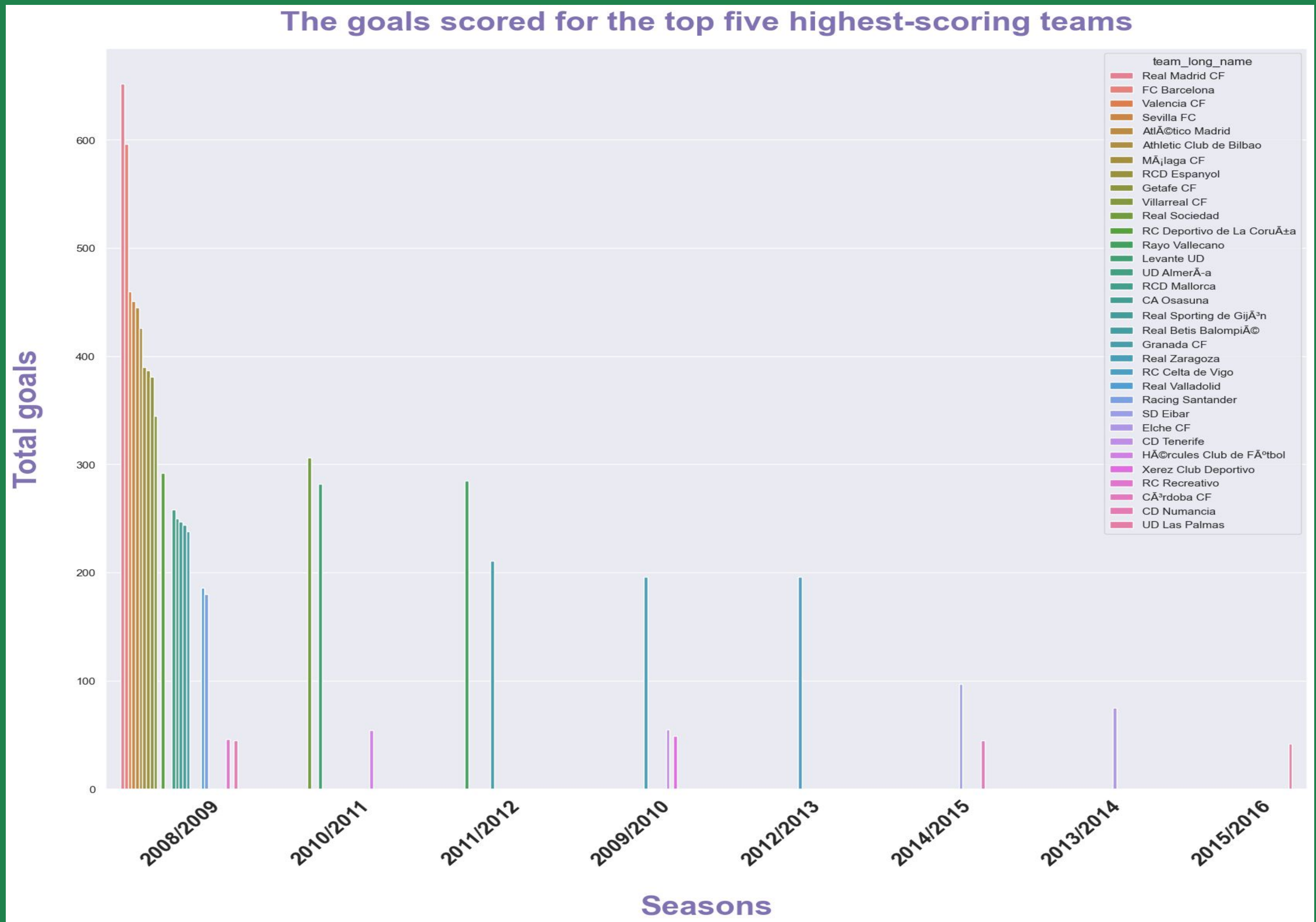
9.Team Attributes Impacting Performance (Goals Scored)



Results

10. Aggregated Goals for the Top Five Highest-Scoring Teams in Spain (La Liga)

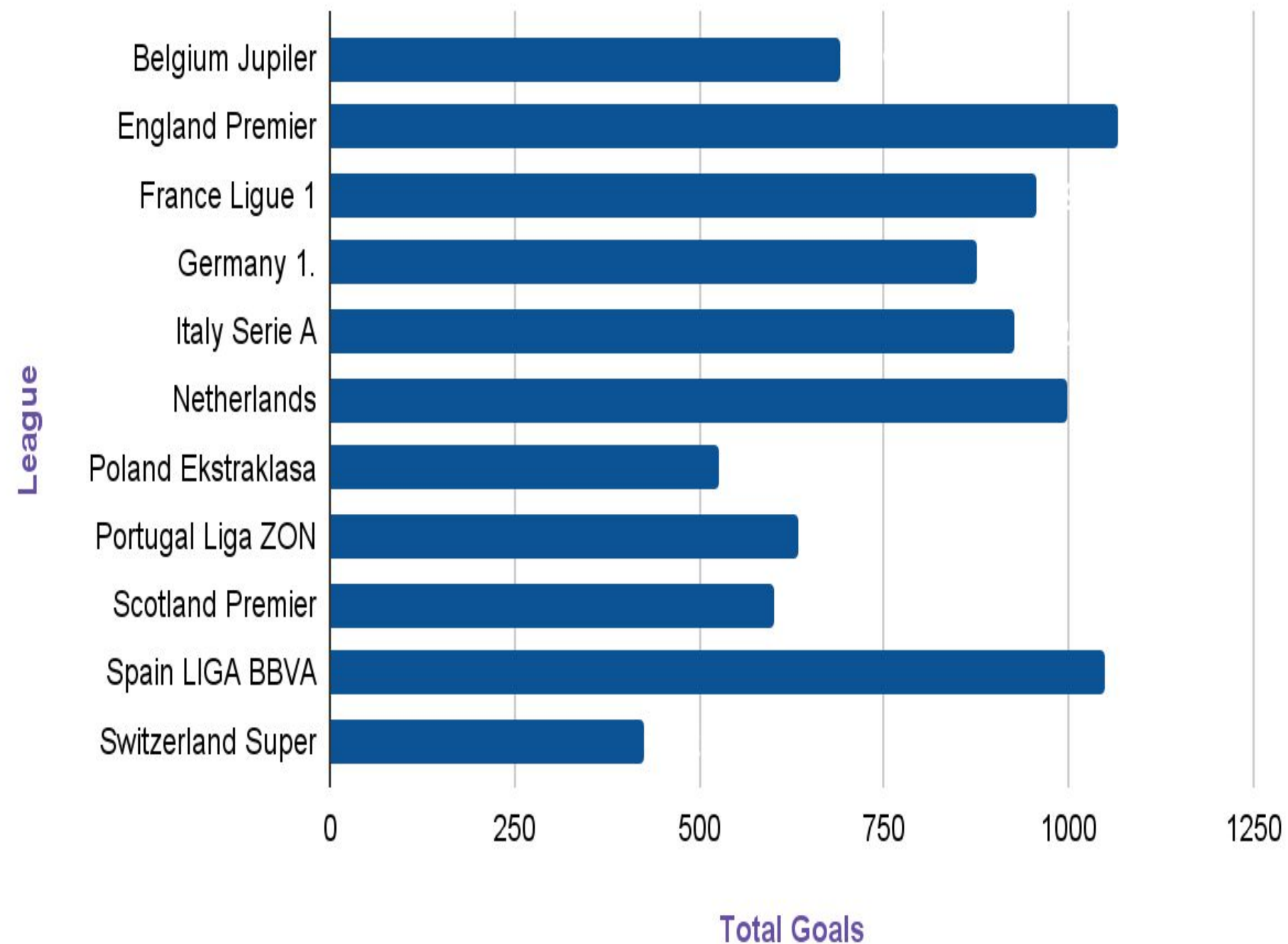
The top five teams, including Real Madrid and Barcelona, demonstrated consistent goal-scoring performance with only minor seasonal variations.



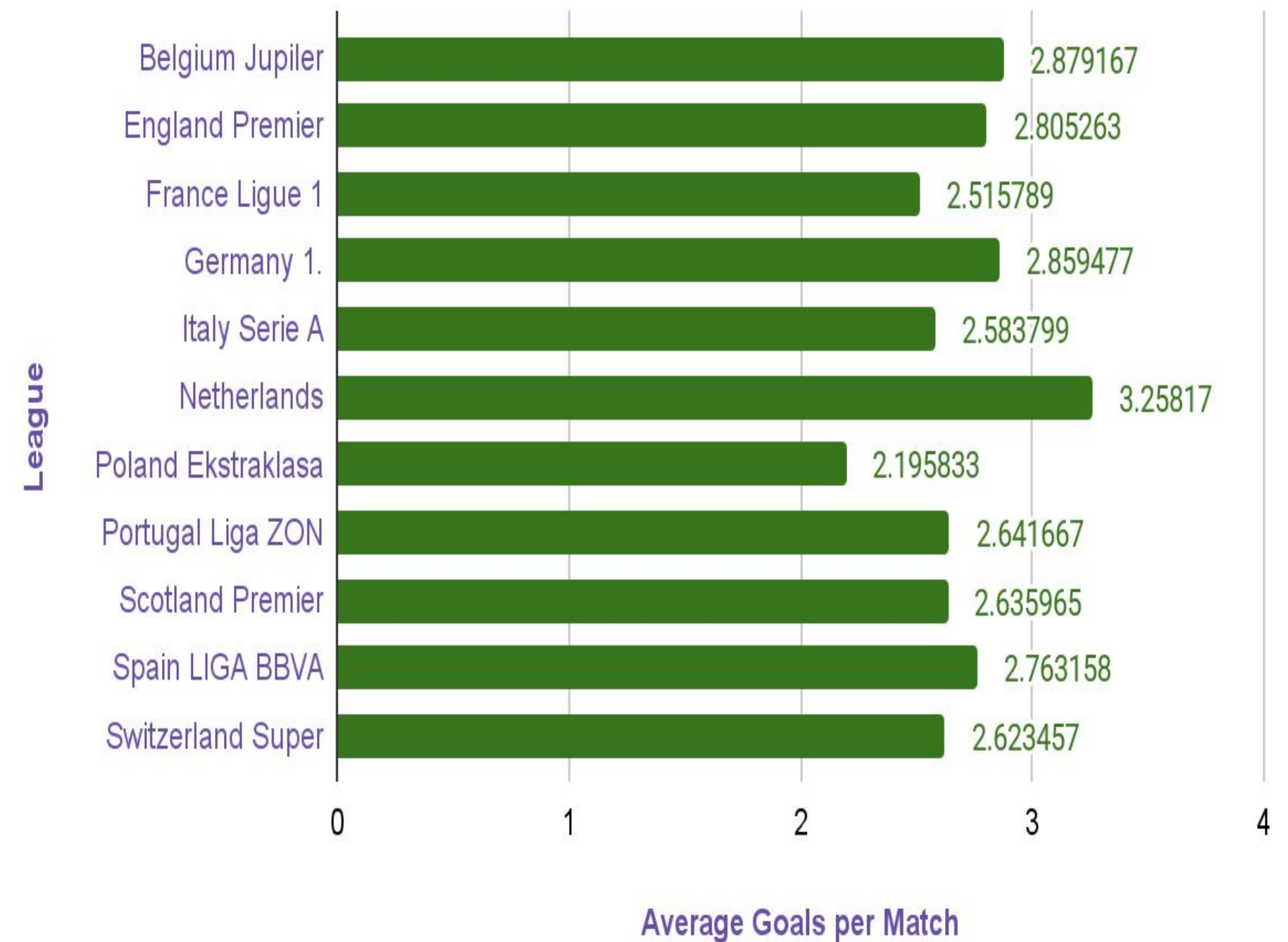
Results

11.Total and Average Number of Goals per League — 2011/2012 Season

Total Goals per League (2011/2012)



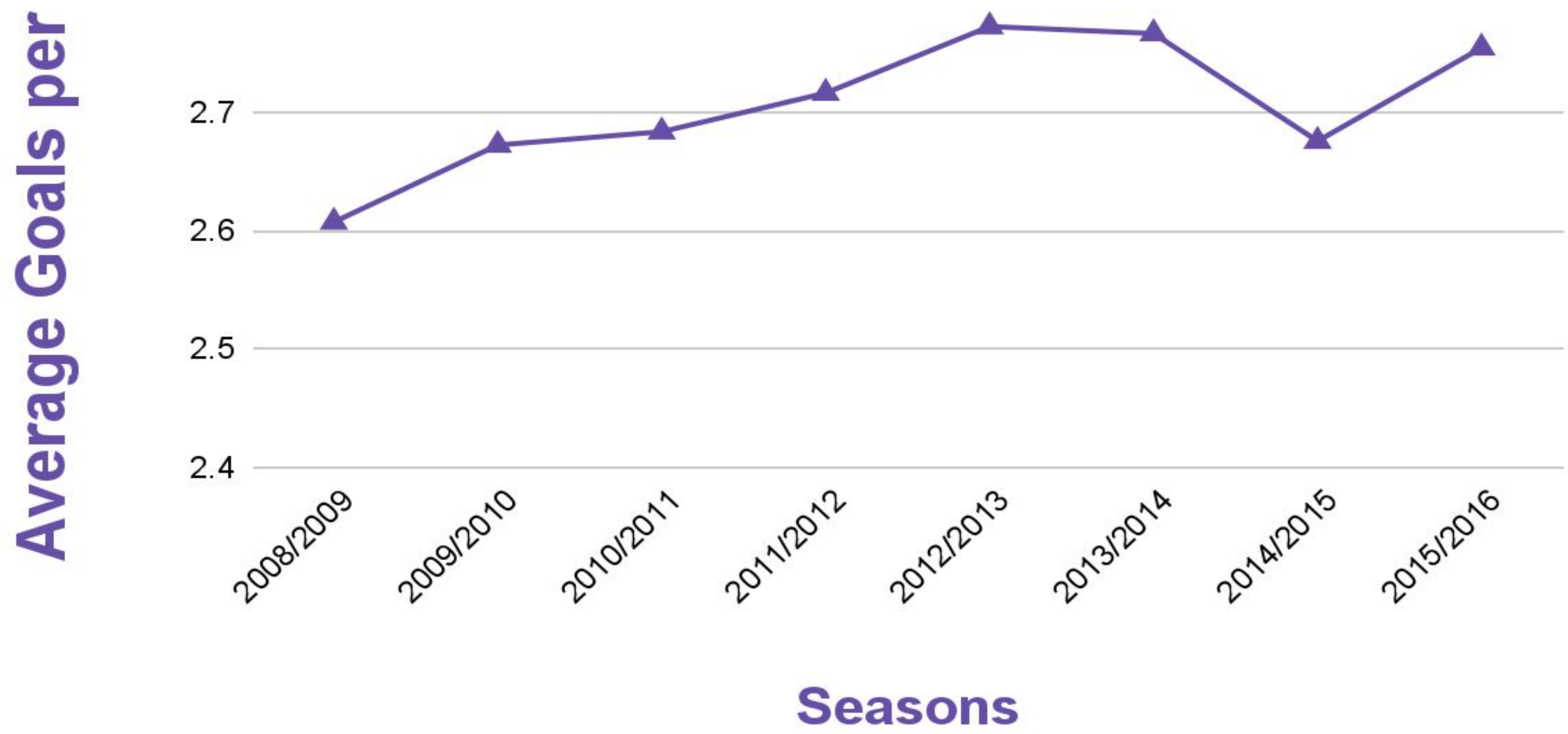
Average Goals per Match per League (2011/2012)



Results

12.Average number of goals scored in match across all seasons

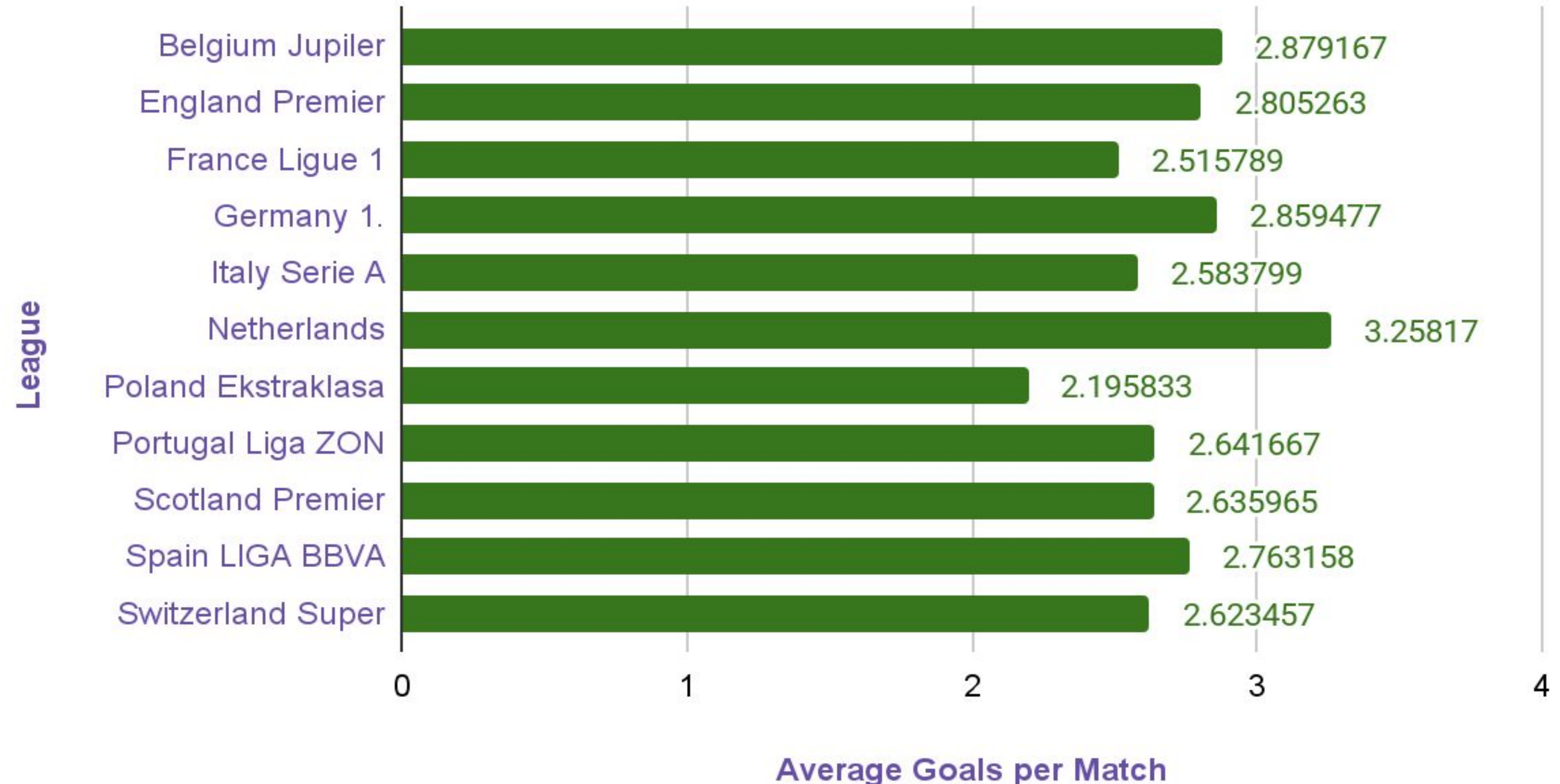
Overall Average Goals per Match Across



Results

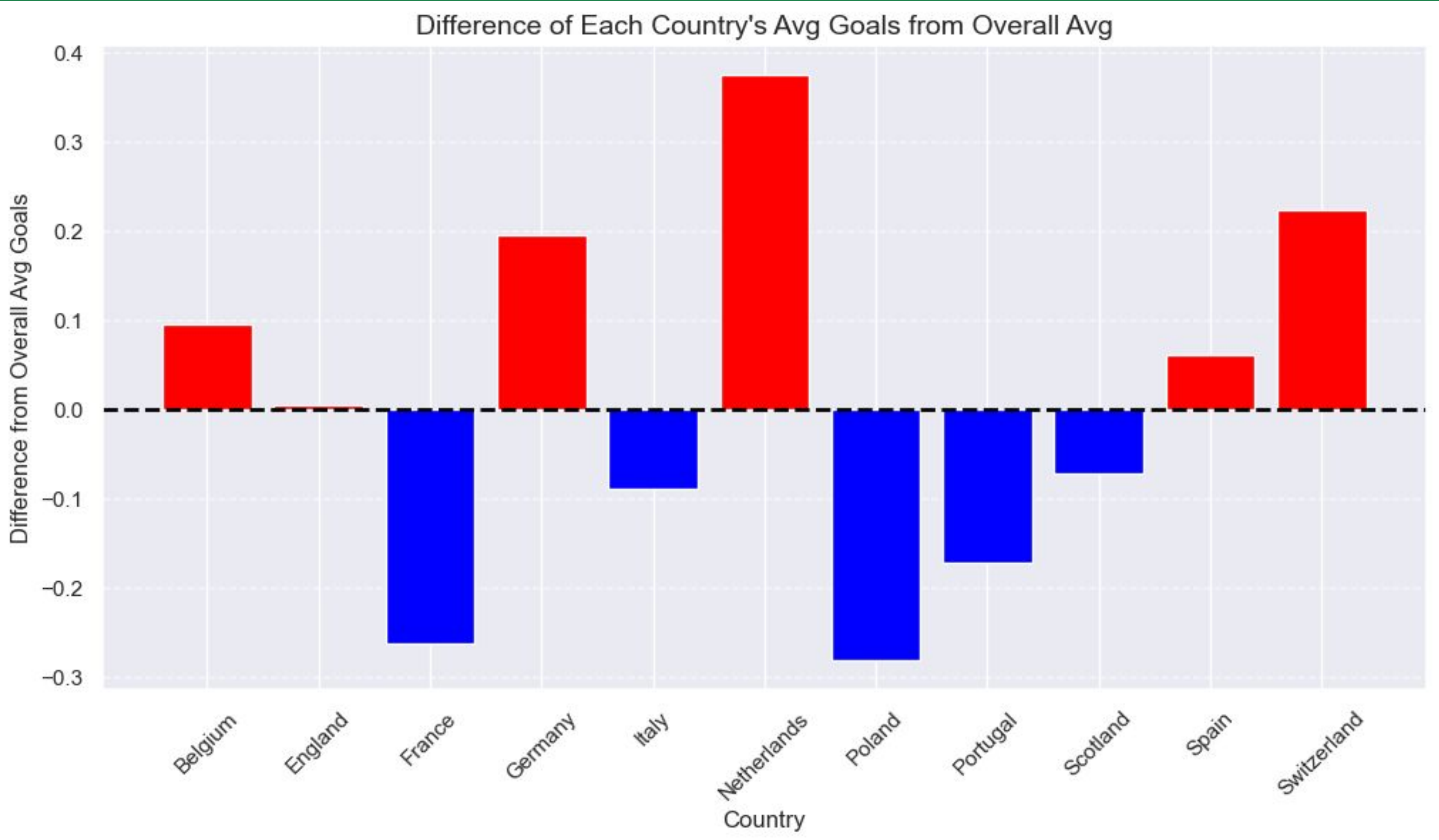
13. Top ten teams with the most wins across all seasons and leagues during the entire duration?

Average Goals per Match per League (2011/2012)



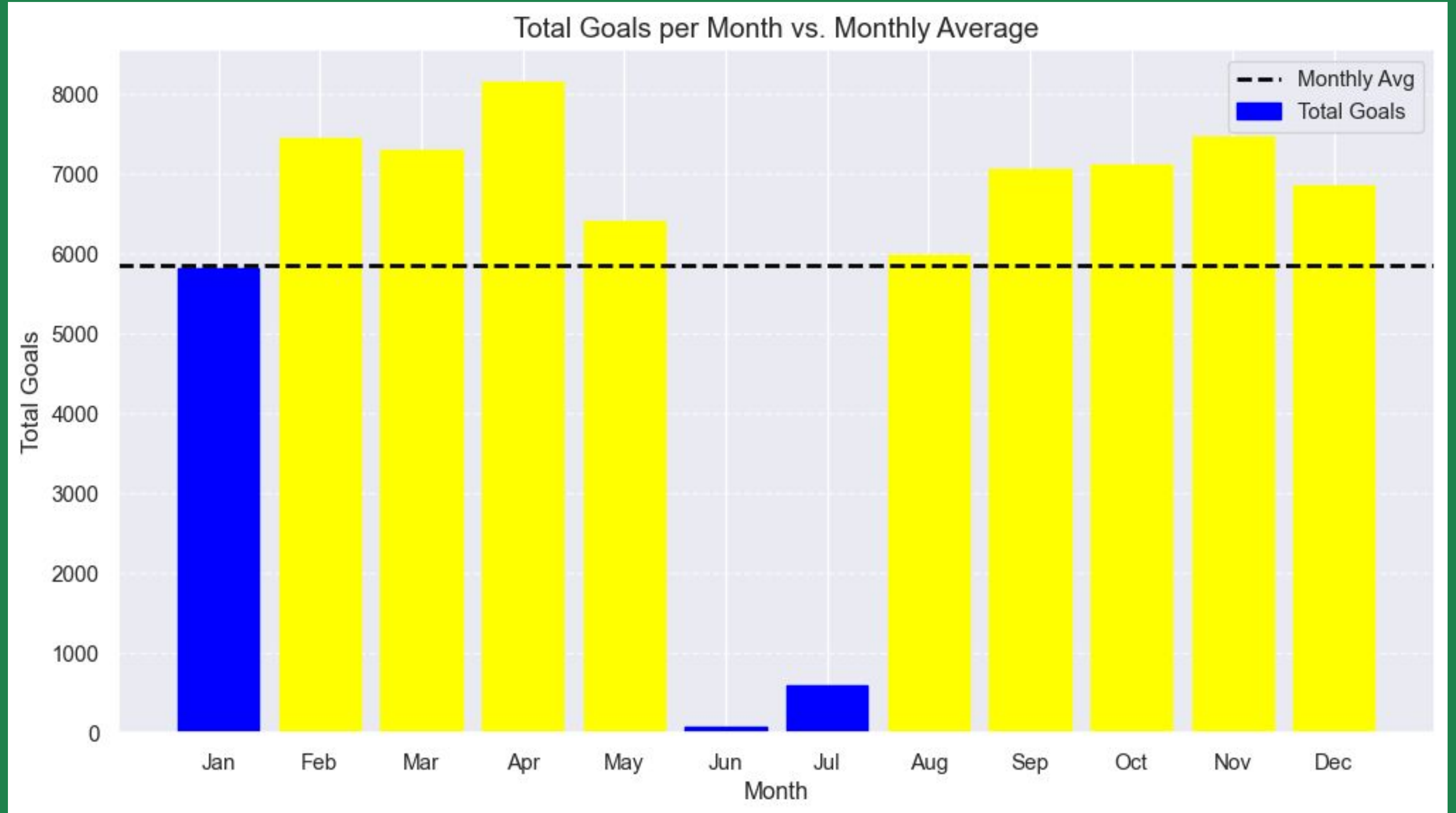
Results

13 . Country's
avarage goals
differ from the
overall
average



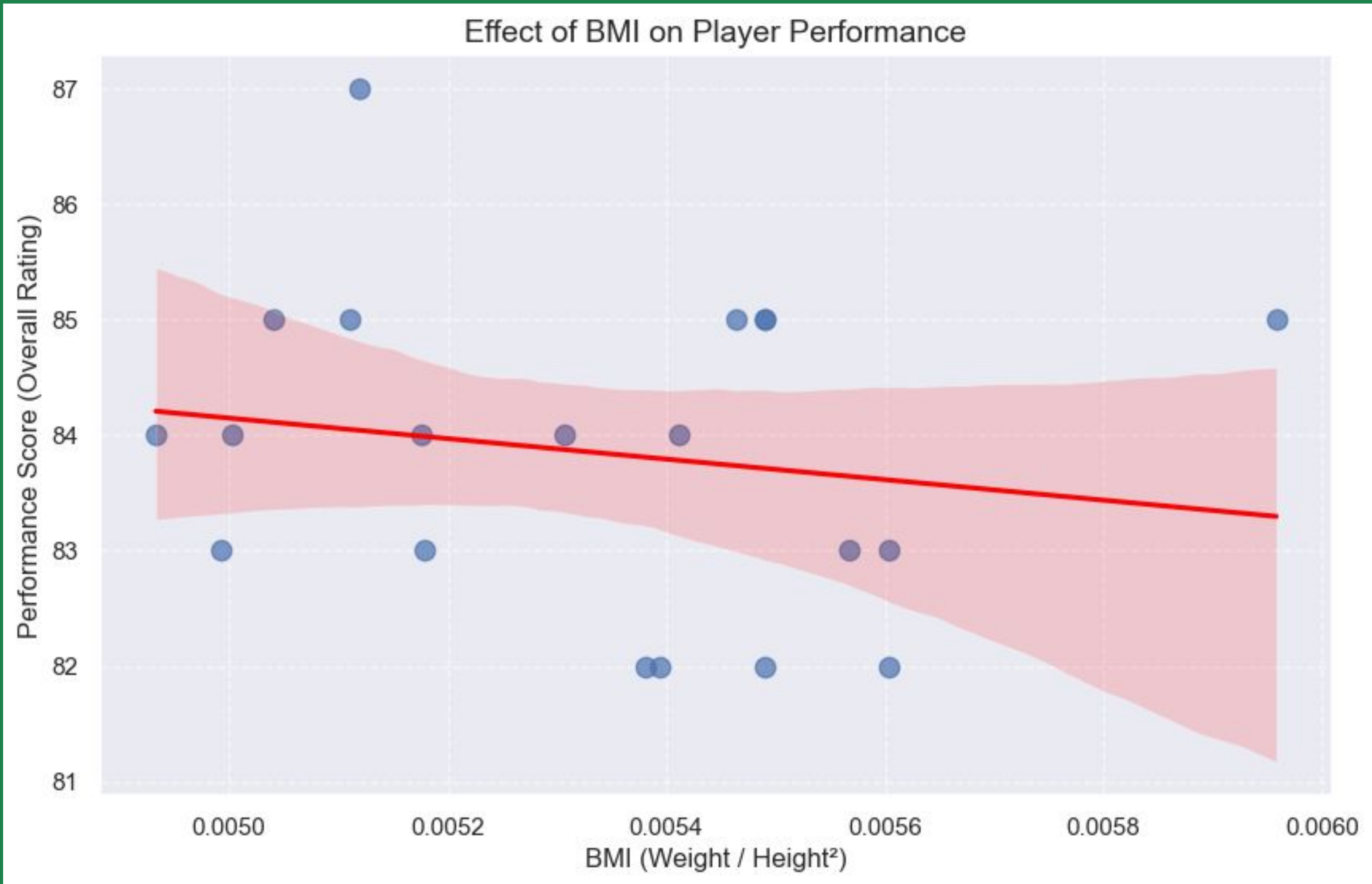
Results

15. Country total goals differ from the monthly average of goals scored



Results

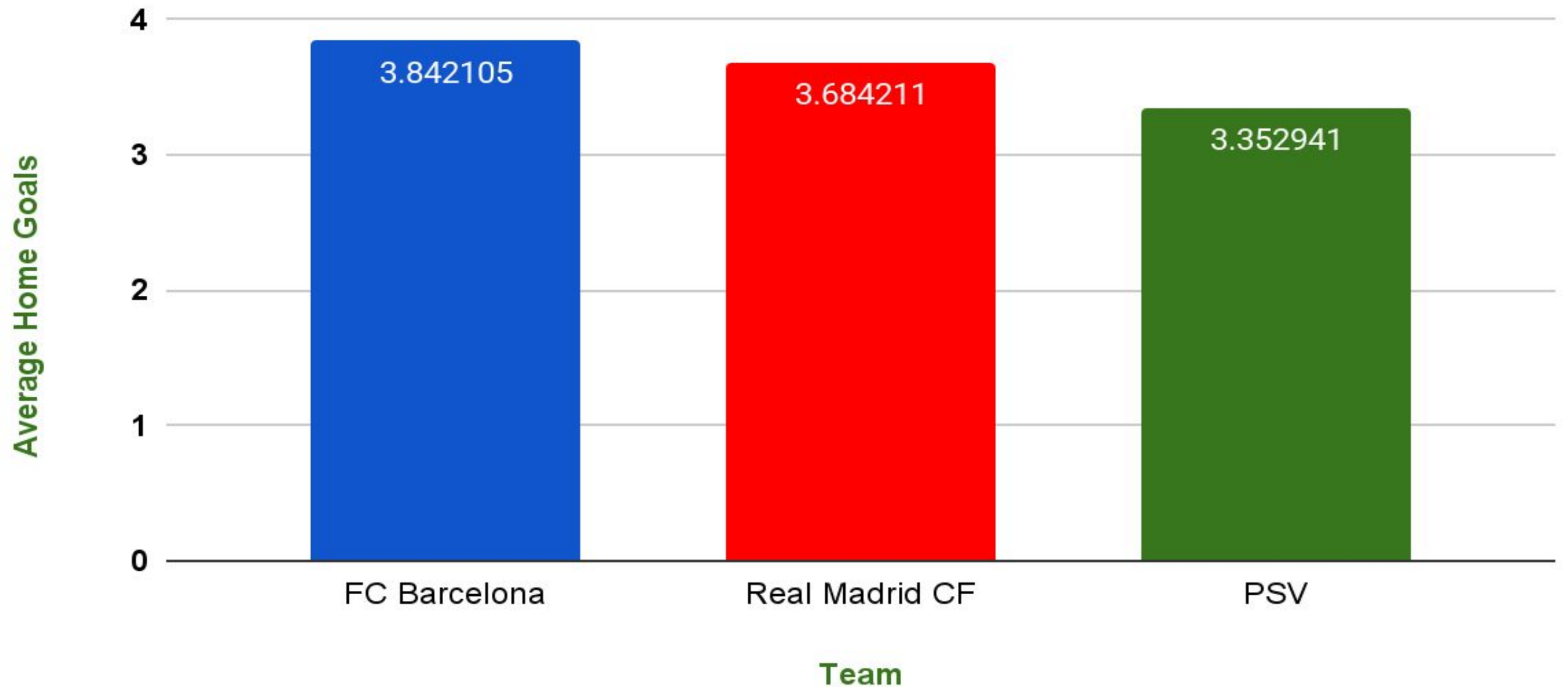
16. Body Mass Index (BMI) of the players affect their performance



Results

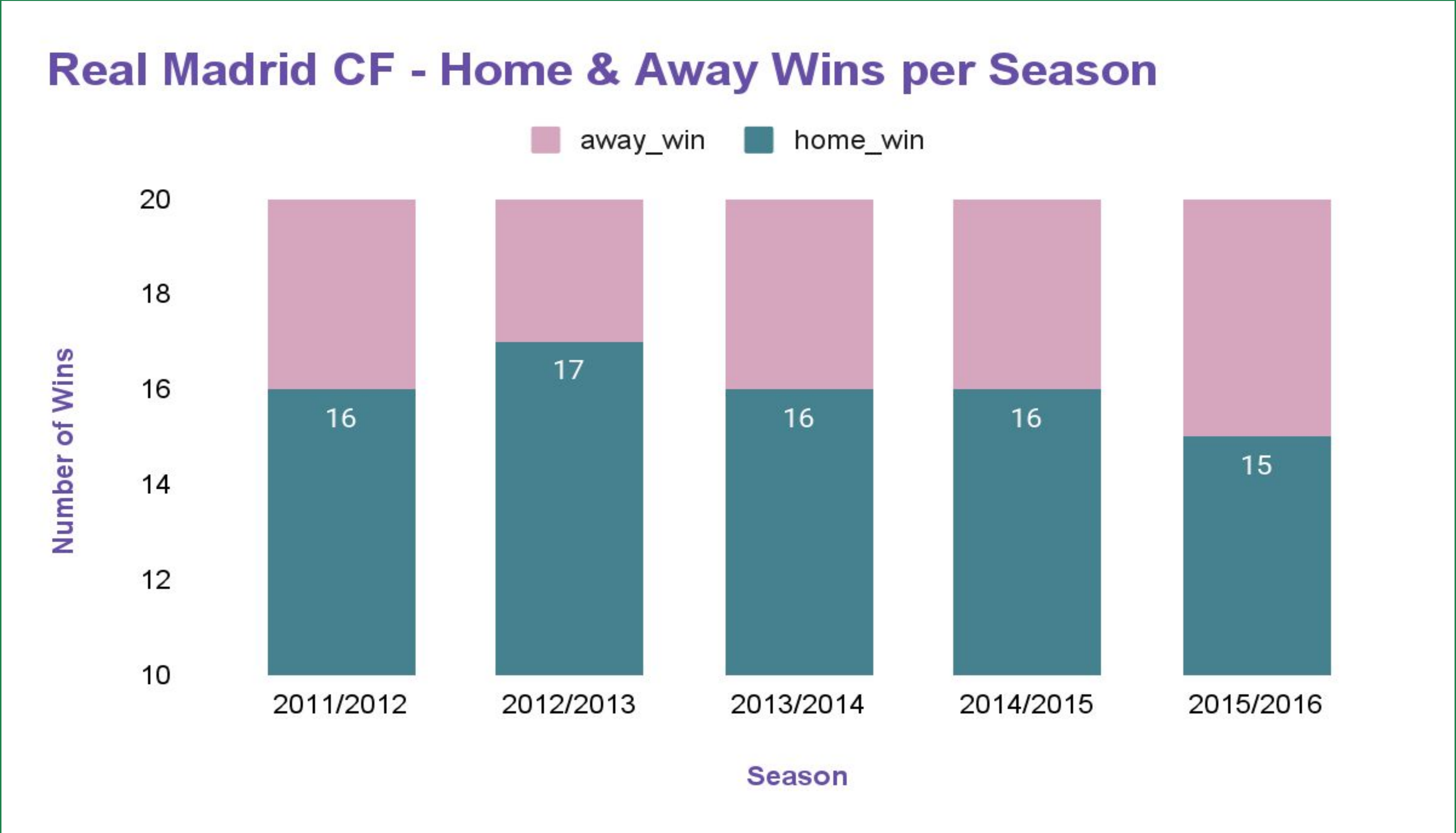
17. Top 3 Teams with Highest Average Home Goals (Spain 2011/2012)

Top 3 Teams with Highest Average Home Goals (2011/2012 Season)



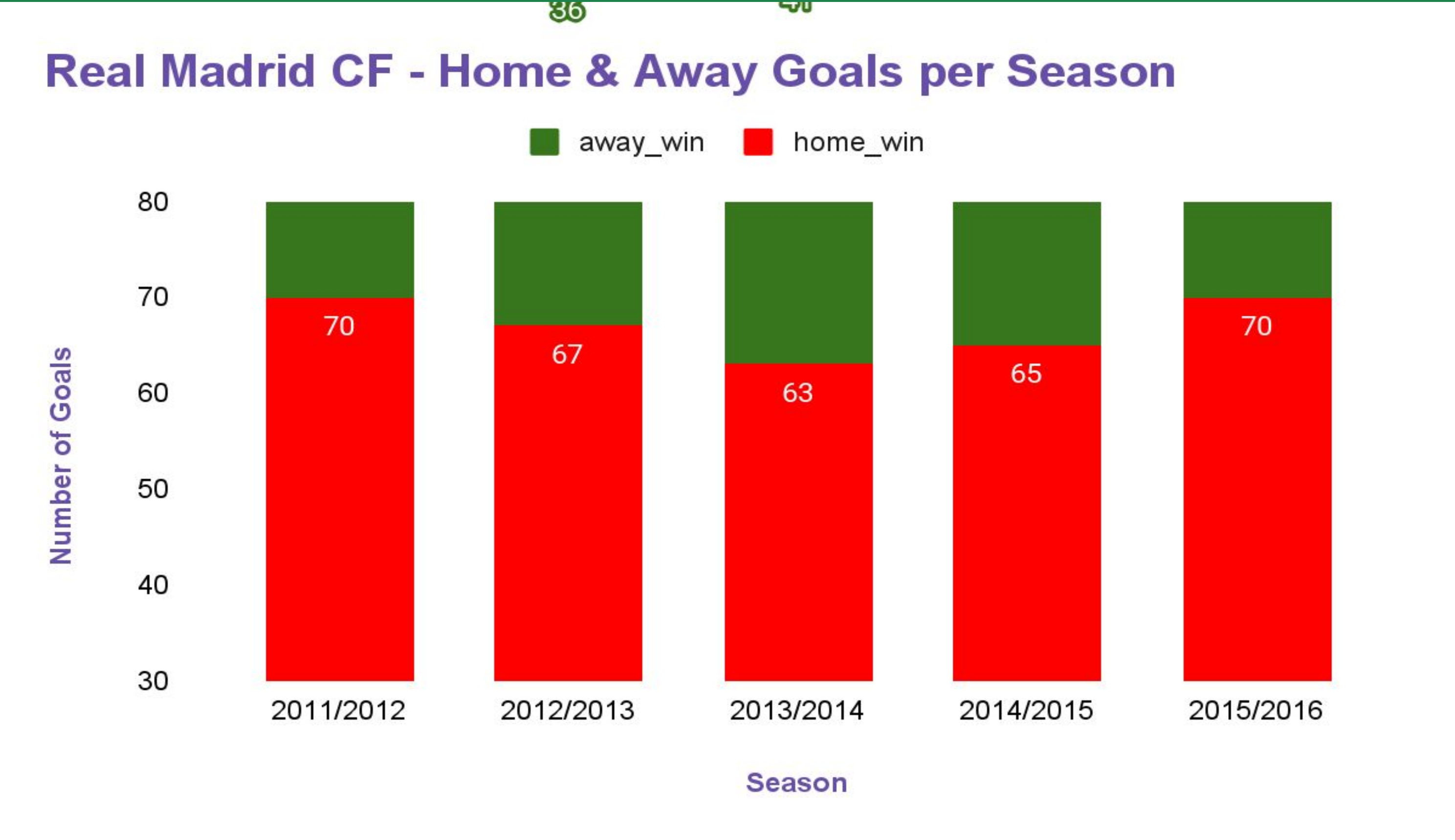
Results

18.Real Madrid's
Home vs. Away
Wins



Results

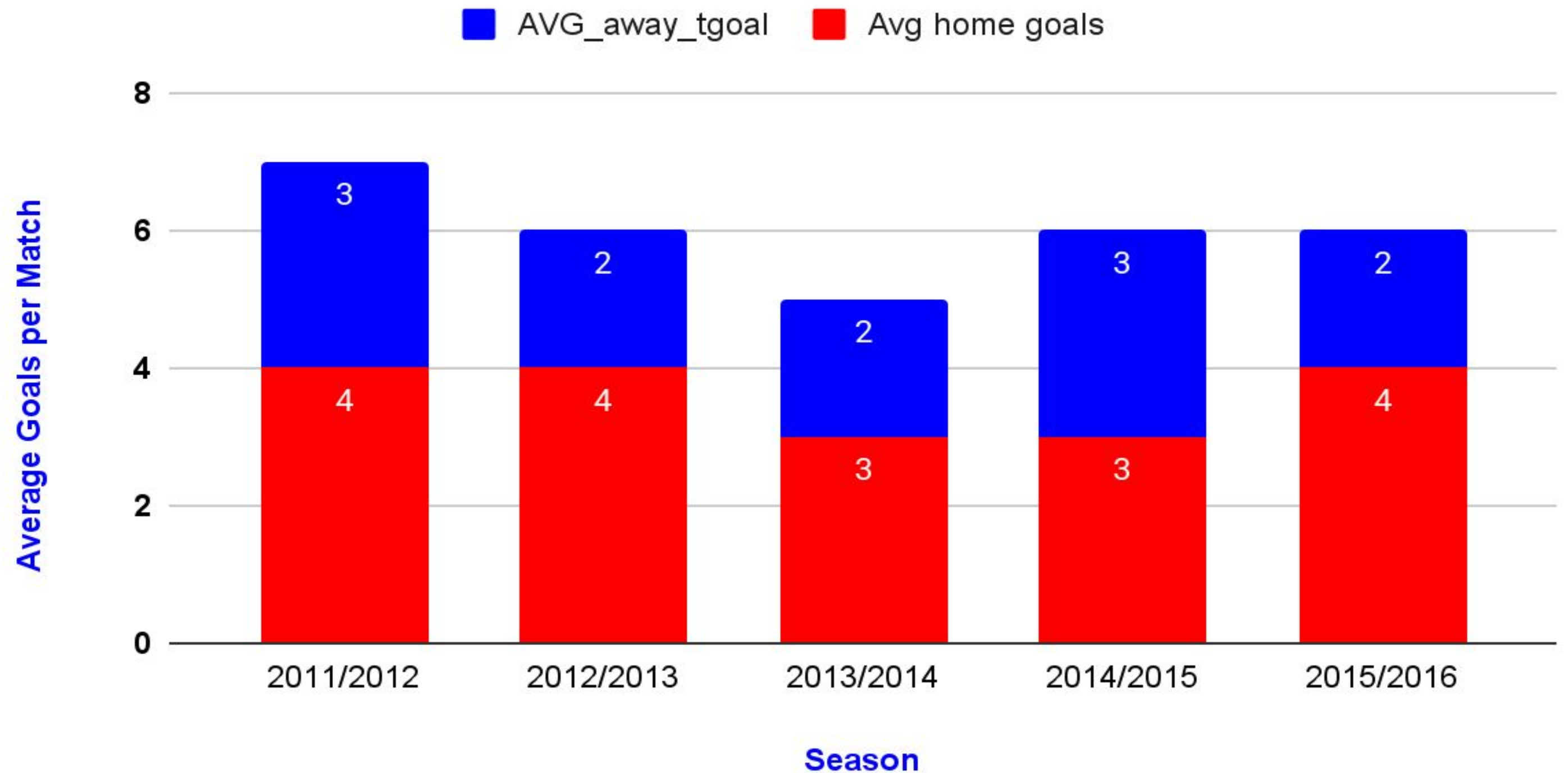
Real Madrid's
Home vs. Away
Goals per Season



Results

AVG goals Real
Madrid CF scored
in each season

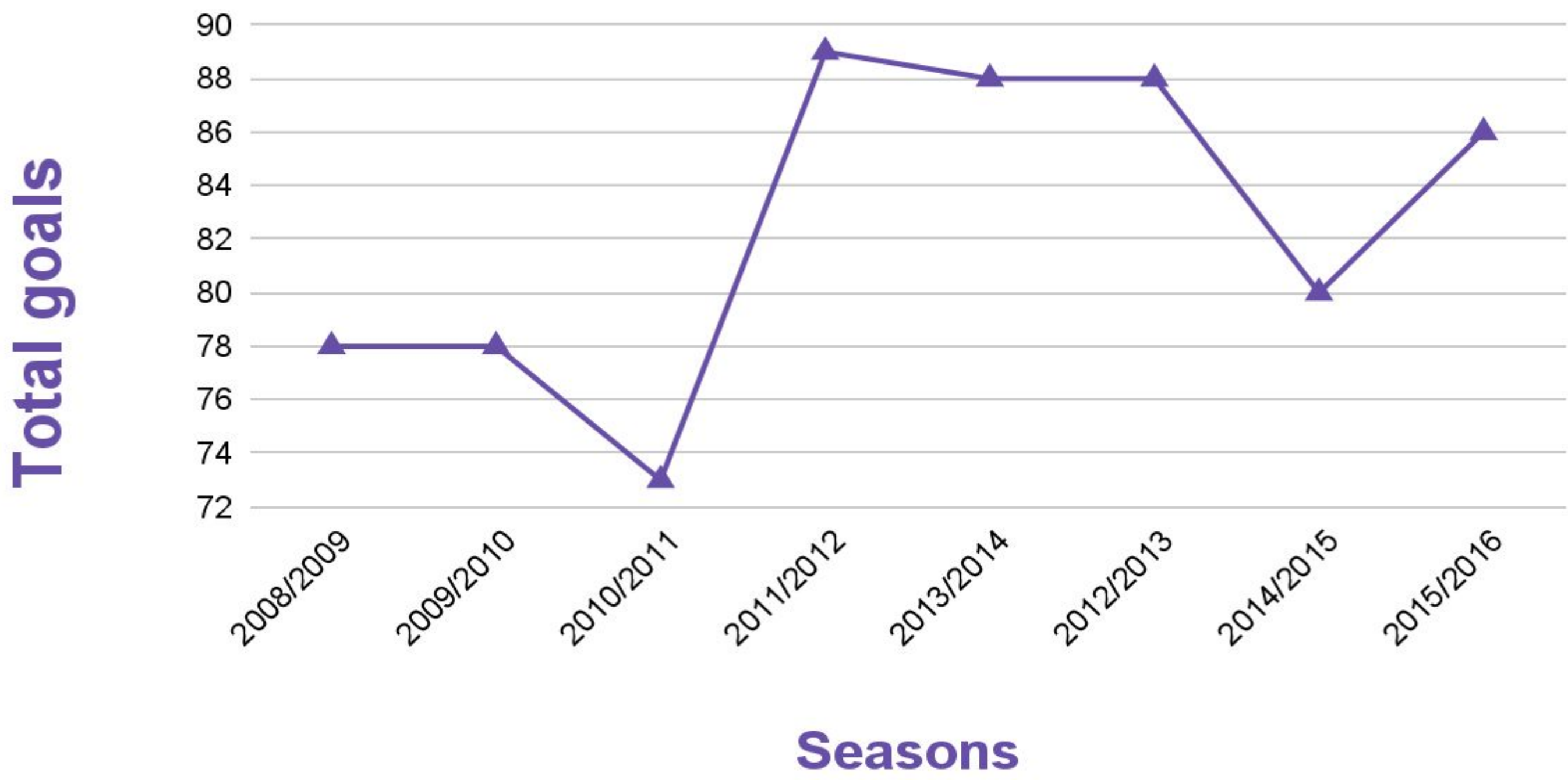
Avg home goals and AVG_away_tgoal



Results

Real Madrid CF
Performance Over
Seasons

Real Madrid CF - Goals per Season



Recommendations



Data-Driven Stories: Use player stats & team trends for match previews.



Predictive Content: Forecast future match outcomes for fans.



Fan Engagement: Create polls, quizzes, and infographics.



Fitness Features: Link player fitness to performance for deeper insights.



Analyst Support: Supply commentators with visual data for expert analysis.

Conclusion



This analysis reveals deep insights into soccer trends, team success, and player performance.



Findings empower the sports channel to create smarter, more engaging content — driving both **audience interest** and **editorial quality**.

Recommendations



Season Highlights

Make special episodes to review standout seasons like 2015–2016, focusing on goal records and team achievements.



Support for Analysts and Commentators

Give data and visuals to presenters and analysts to help them share deeper insights during matches.



Tactical Breakdowns Use the analysis on team tactics and goal patterns to create simple videos or articles that explain how teams win matches.



THANK YOU!

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