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IPL Decade Dynamic Dashboard Analysis

Tableau Project

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Introduction

The Indian Premier League (IPL) is a Twenty20 cricket league that was founded in 2008 and is held annually. The league features participation from national and international players, with eight teams representing eight Indian cities that compete in a double round-robin format during the league stages, followed by playoffs. Over the years, the IPL has emerged as one of the most-watched and most-attended live sporting events globally.

Business Objective

As a data analyst at IPL, a nationally recognized news agency based in New Delhi, my job involves providing news reports and feeds to magazines, newspapers, and TV broadcasters across the country. Recently, the Sports Editor of the agency has approached me to create a Tableau dashboard of IPL (Indian Premier League) statistics since its inception. The dashboard will be used to create an infographic for their upcoming newsletter. The visual representations created in Tableau will be used directly in some cases while in others, important statistics will be used after trying different filters and customizations provided for interactivity. Therefore, my task is to build an interactive dashboard in Tableau for this purpose.

Data Overview

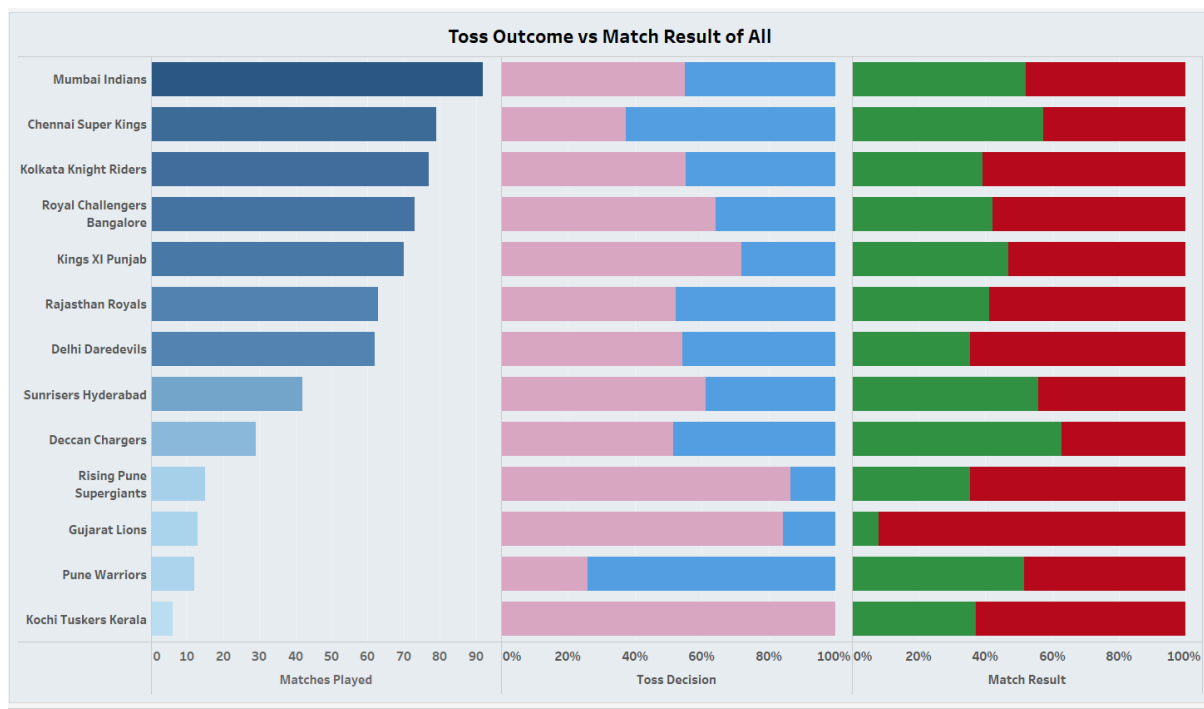
In order to complete this assignment, I need to use two data set files: matches.csv and deliveries.csv. The former contains match-level information for every match held in IPL from 2008 to 2017, while the latter contains ball-by-ball information for each match. By combining the information in these two data sets, I will create an interactive dashboard that highlights some of the important statistics of IPL over the years.

Match Insights

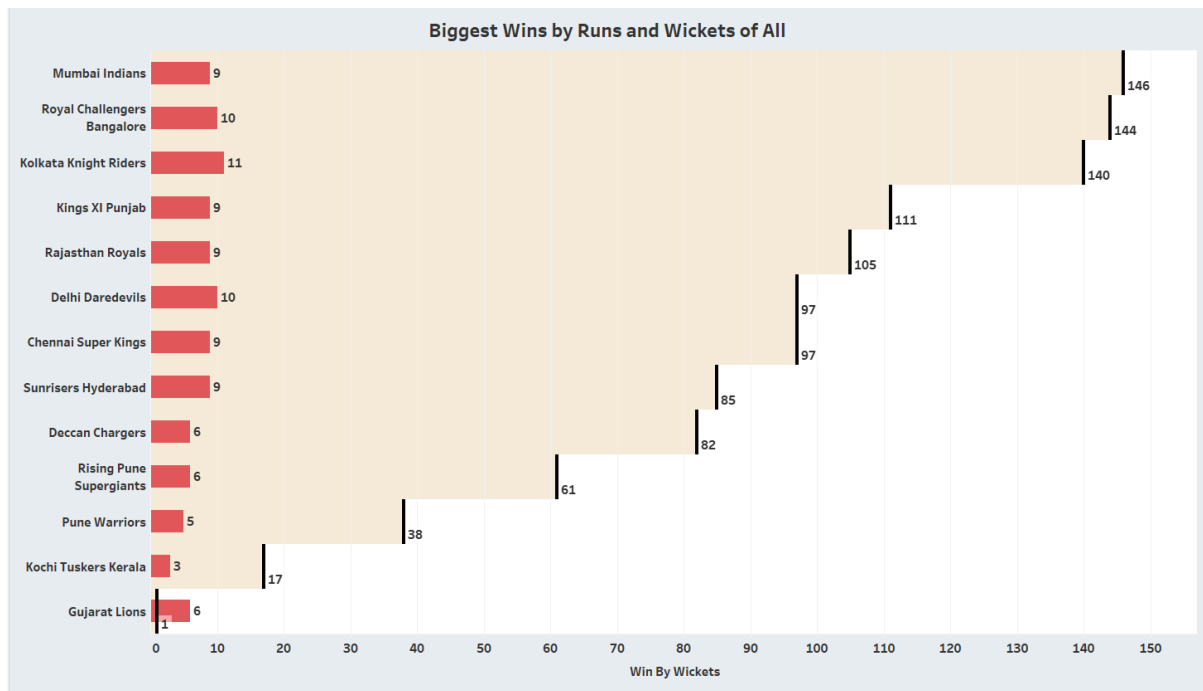


Figure 1 Overview of the Dashboard of Match Statistics

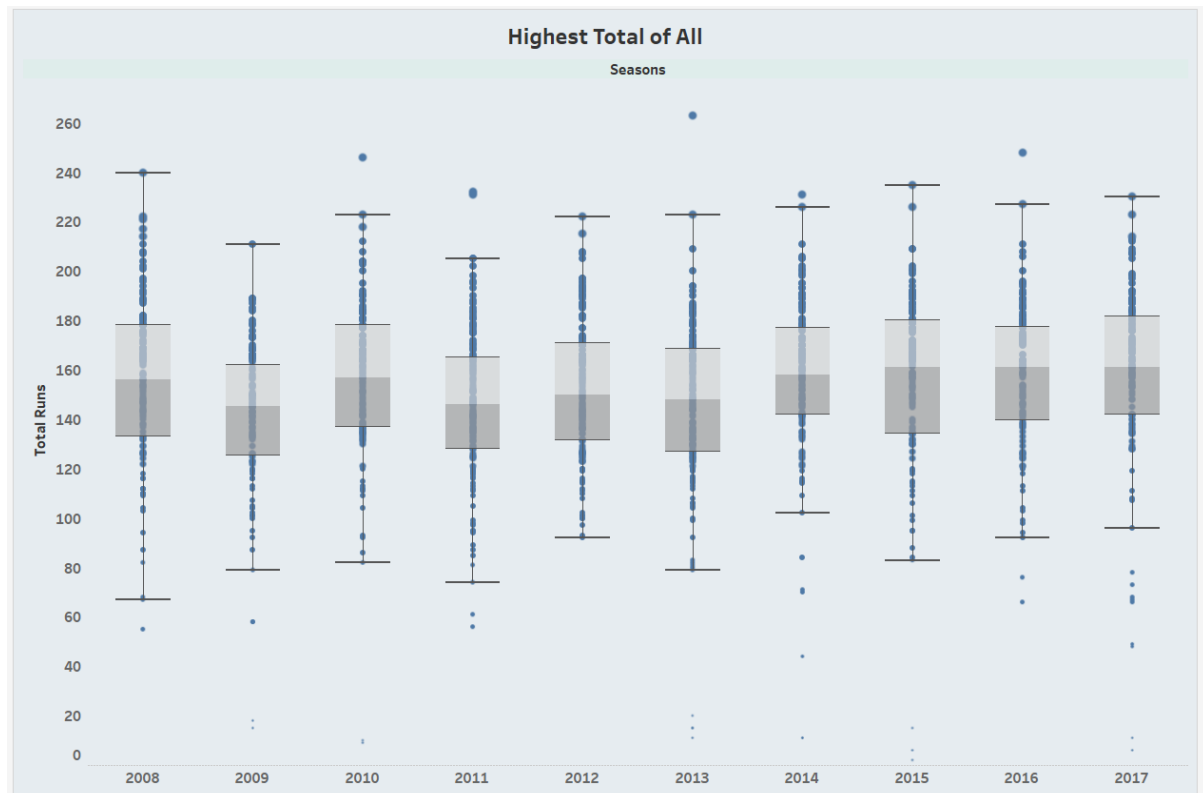
1. Toss outcome vs Match outcome (for each Ground/Venue)



2. Biggest wins (by runs and by wicket)



3. Highest totals (across all the seasons)



4. Player Statistics

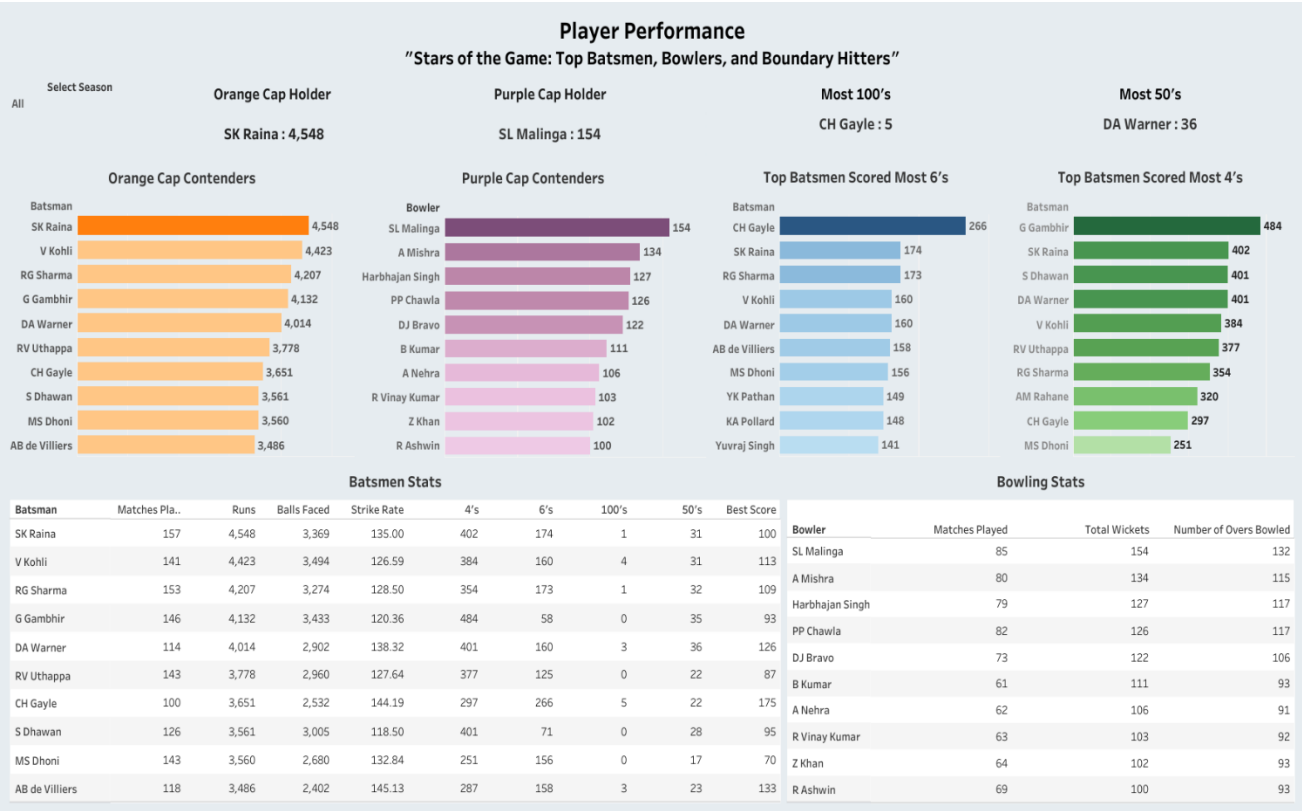
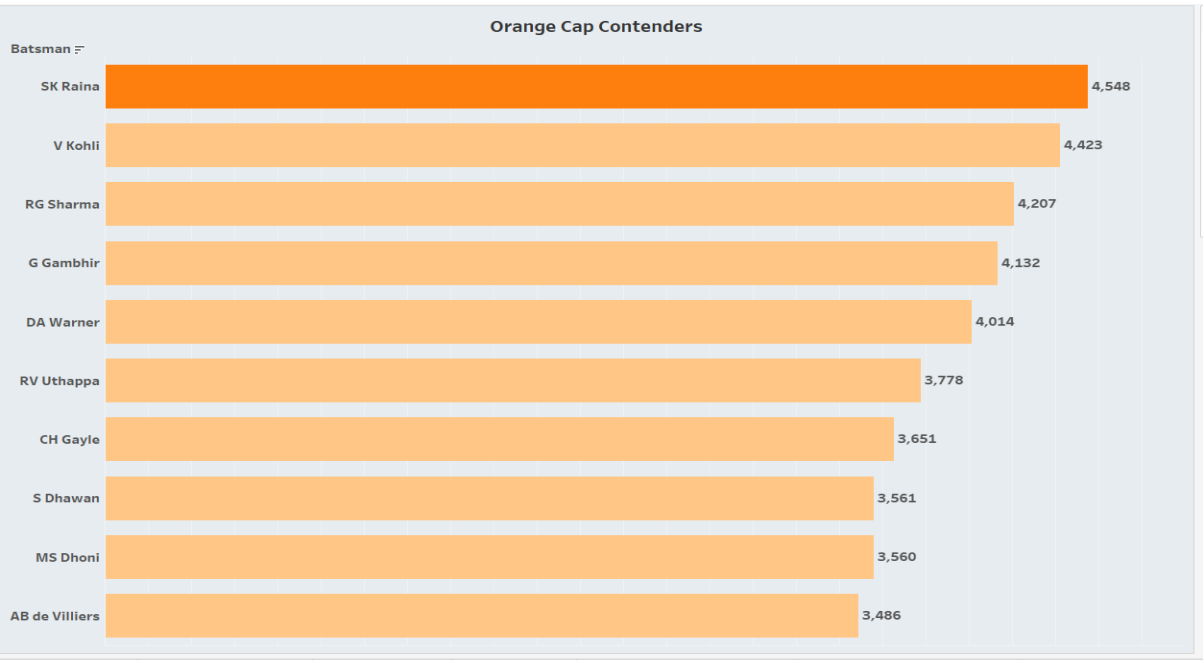
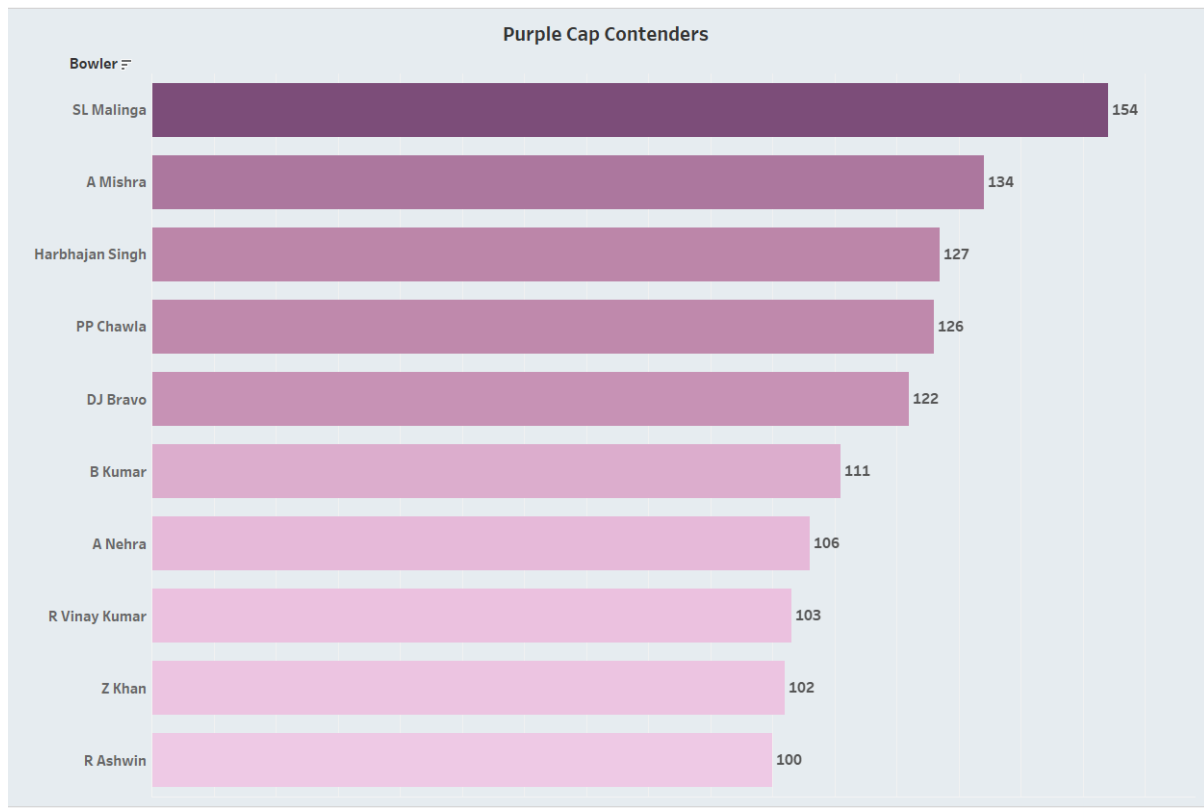


Figure 2 Dashboard Overview of Player Performance

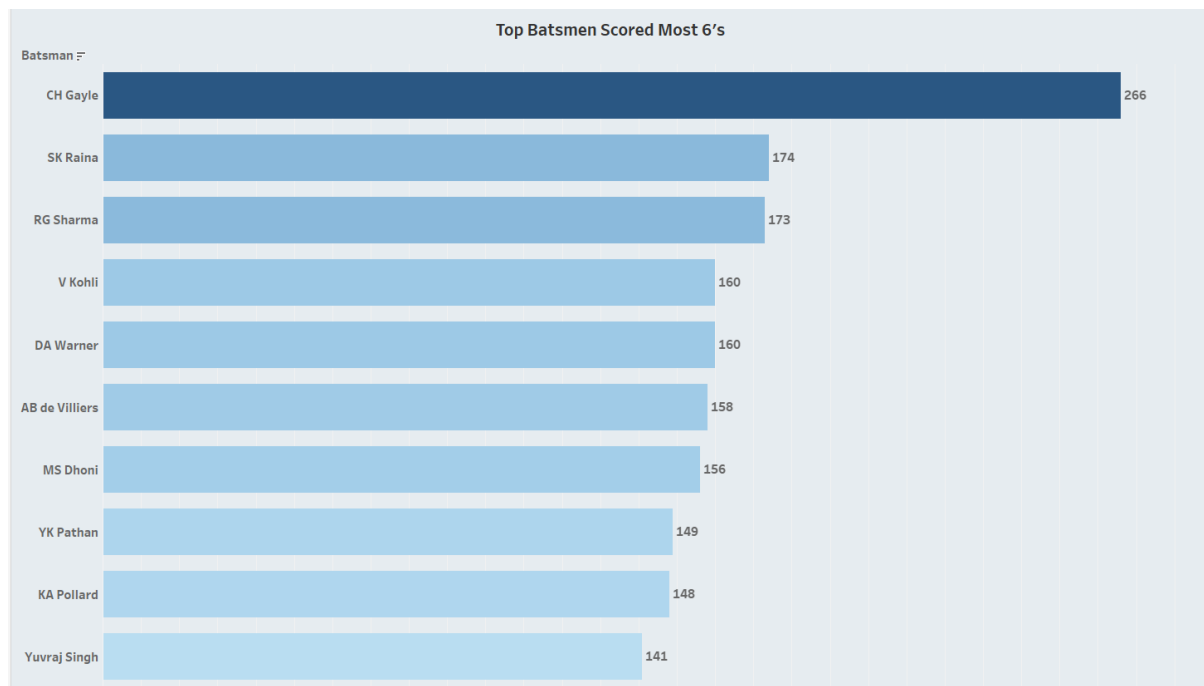
Orange Cap contenders (The batsmen who have scored the maximum number of runs in a particular season)

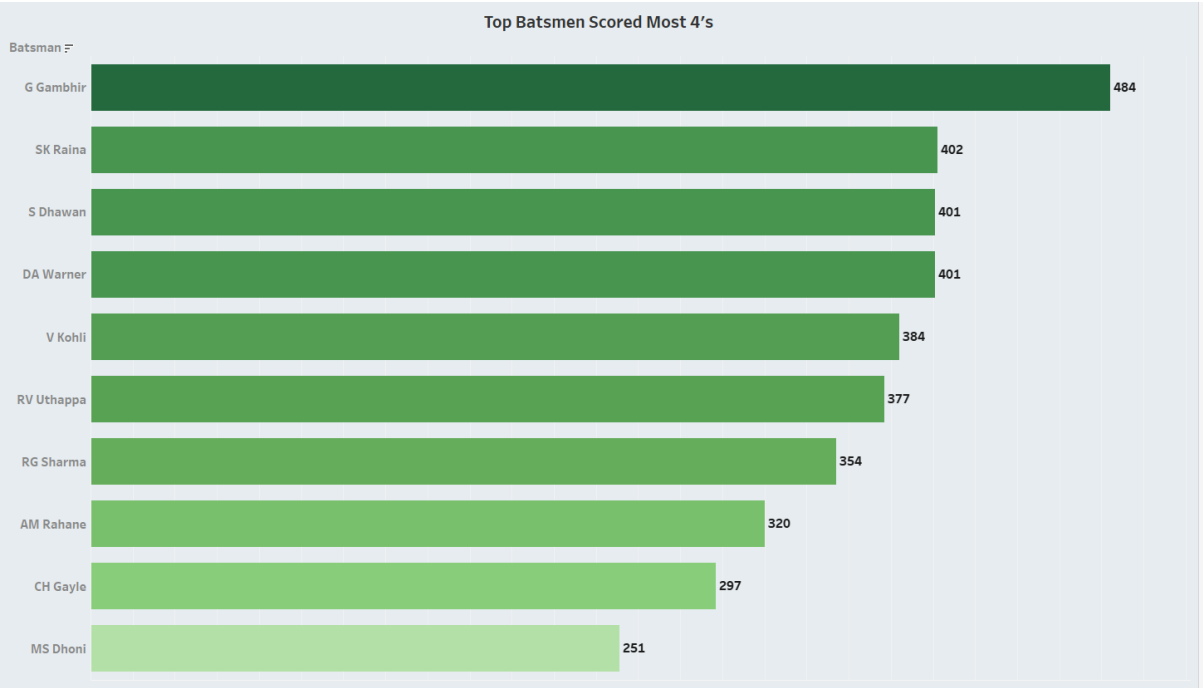


Purple Cap contenders (The bowlers who have taken the maximum number of wickets in a particular season)



Batsmen who have hit most number of fours and sixes (per season and overall)





3. Team Statistics

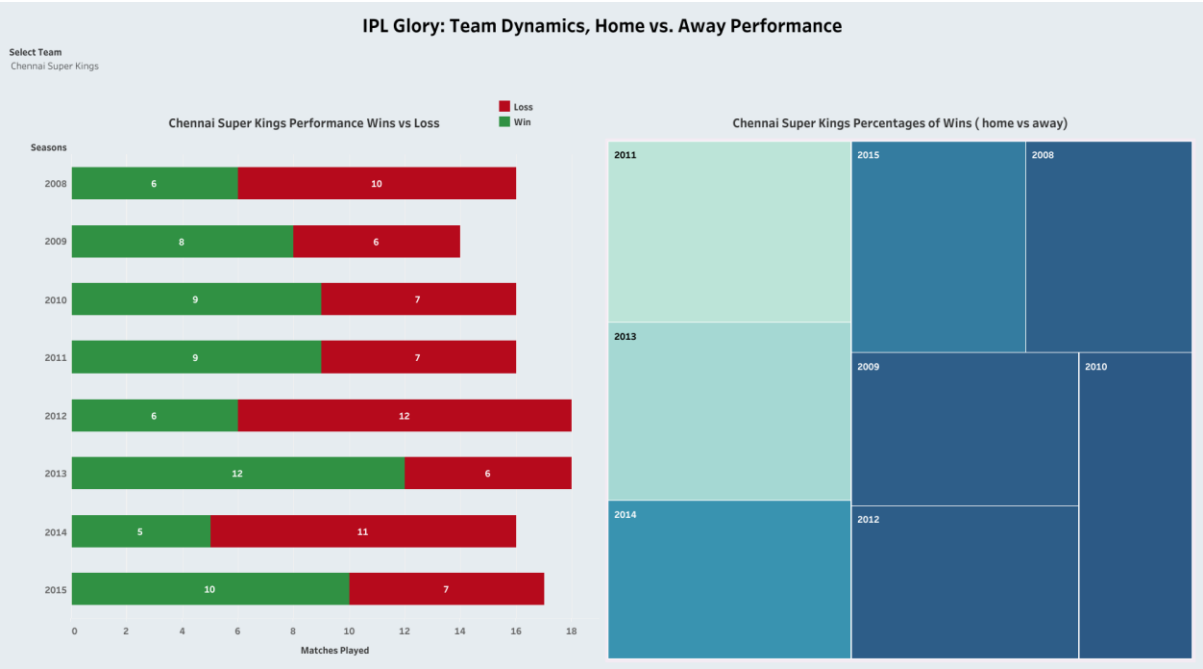
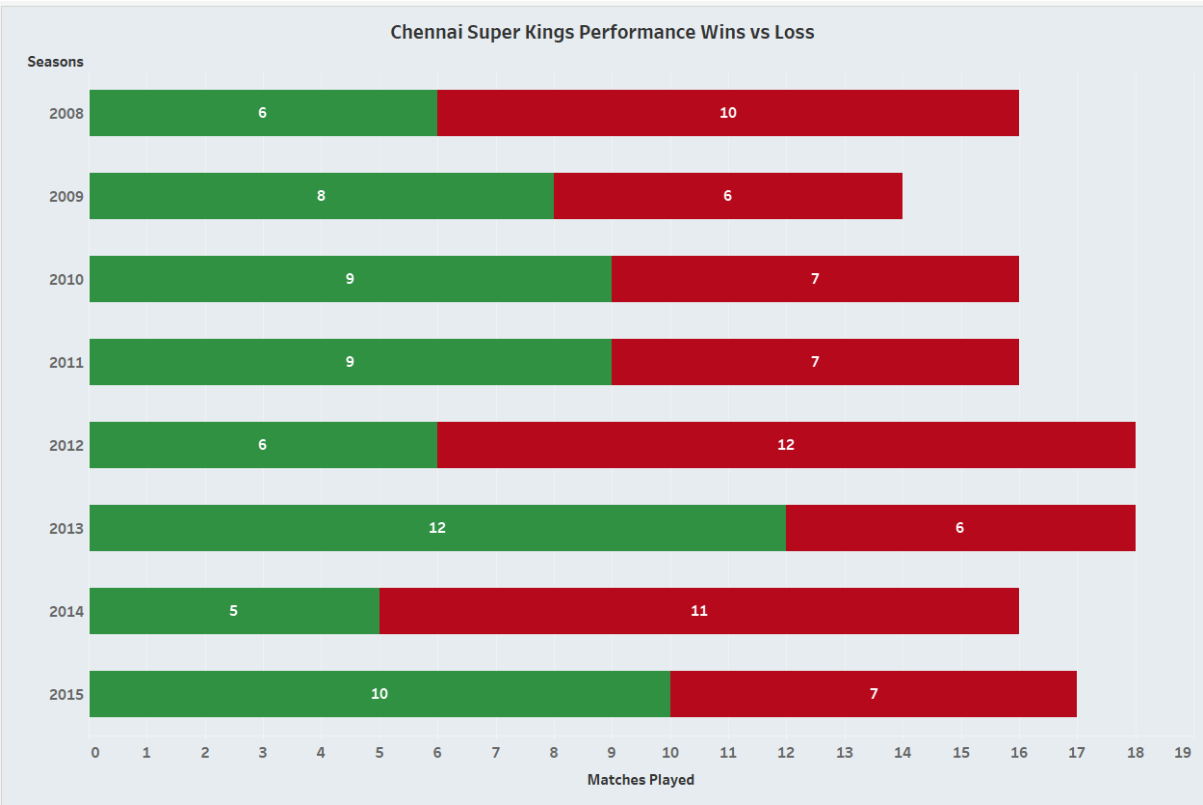
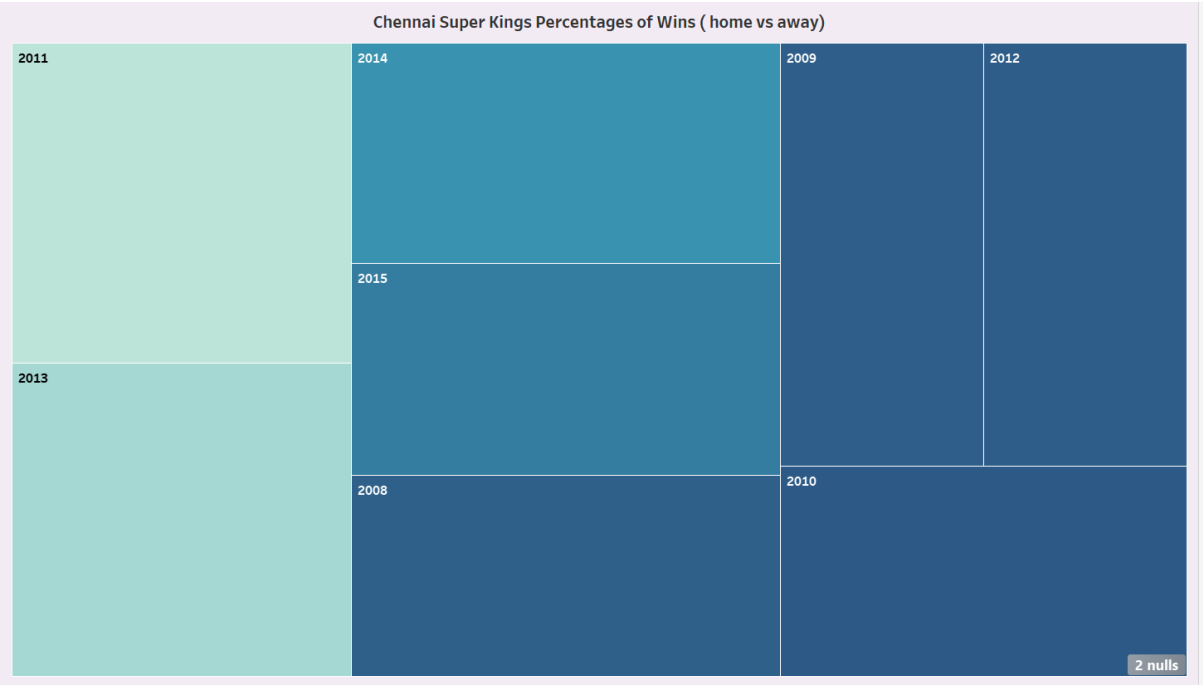


Figure 3 Dashboard Overview of Team Statistics

Season-wise team performance (wins vs losses)



Win %age (home vs away)



Conclusion:

Some interesting facts about the Indian Premier League (IPL) from 2008 to 2017:

1. Inaugural Champions: The Rajasthan Royals, led by Shane Warne, won the first-ever IPL in 2008, surprising many with their underdog victory.
2. Adam Gilchrist's Fastest Century: In 2009, Adam Gilchrist scored the fastest century in IPL history, taking just 42 balls to reach the milestone while playing for the Deccan Chargers.
3. Hat-Trick Heroes: Yuvraj Singh became the first player to take a hat-trick in IPL history during the 2009 season while playing for Kings XI Punjab.
4. Chennai Super Kings Dominance: CSK, led by MS Dhoni, reached the playoffs in every season from 2008 to 2019, showcasing their consistent performance.
5. Chris Gayle's Six-Fest: In 2013, Chris Gayle set a record for the most sixes in an innings, smashing 17 sixes while playing for Royal Challengers Bangalore against Pune Warriors India.
6. Rajasthan Royals' Fairytale Comeback: After a two-year suspension, Rajasthan Royals made a comeback in 2018. They finished fourth in the league, proving that they still had the ability to compete.
7. Mumbai Indians' Title Hat-Trick: MI achieved a remarkable feat by winning the IPL in 2019, making it their fourth title and a hat-trick of victories (2017, 2019, and 2020).
8. Chris Gayle's Fastest Century: Gayle once again made headlines in 2013 by scoring the fastest century in IPL history, reaching the milestone in just 30 balls.
9. Sunrisers Hyderabad's Debut Triumph: Sunrisers Hyderabad, who replaced the Deccan Chargers in 2013, won the IPL in their debut season, with a solid team effort.
10. Virat Kohli's Record-Breaking Season: In 2016, Virat Kohli had a phenomenal season, scoring a record 973 runs in a single edition of the IPL, including four centuries.
11. Ben Stokes' Expensive Buy: In 2017, Ben Stokes became the most expensive overseas player in IPL history, with the Rising Pune Supergiant purchasing him for a whopping 14.5 crores.
12. Gujarat Lions and Rising Pune Supergiant's Short Stint: Gujarat Lions and Rising Pune Supergiant were introduced as temporary franchises in 2016 and 2017. They played for two seasons each as replacements for Chennai Super Kings and Rajasthan Royals, who were suspended.

These facts capture some of the memorable moments, records, and team performances during the IPL from 2008 to 2017.