



IPL Data Analysis Tableau Project

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Introduction

The Indian Premier League (IPL), a T20 cricket extravaganza, was established in 2008 and has since been an annual spectacle. Featuring a blend of national and international cricket talent, the league showcases eight teams, each representing an Indian city. They engage in a spirited competition through a double round-robin format during the league stages, followed by playoffs. Over time, the IPL has evolved into a global phenomenon, drawing massive viewership and attendance, making it one of the world's most-watched and attended live sporting events.

Problem Statement

- Employed as a data analyst at IPL, a prominent news agency with national recognition. Headquartered in New Delhi, IPL specializes in delivering news reports and content to a wide array of magazines, newspapers, and television broadcasters across the entire country.
- The Sports Editor at our agency has tasked us with a two-fold project: crafting an informative infographic for a newsletter and constructing an interactive Tableau dashboard. To create this dashboard, we must delve into the analysis of IPL data, extracting and presenting vital information in three distinct categories: Match Statistics, Player Statistics, and Team Statistics.

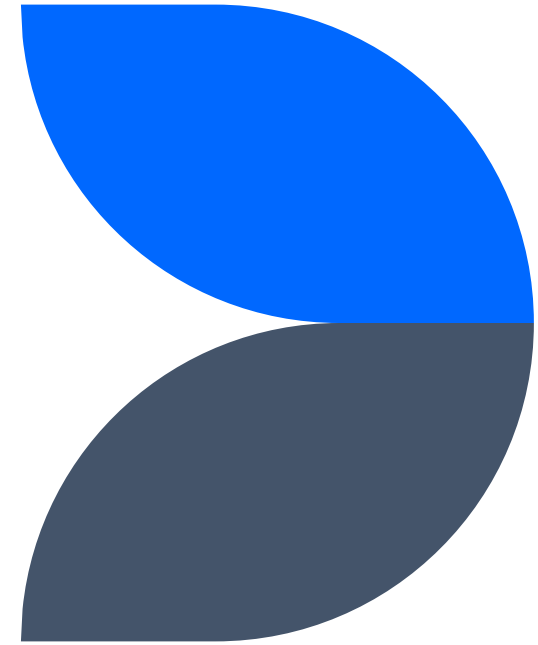
Data Understanding

The dataset encompasses two essential files that furnish comprehensive details regarding IPL matches:

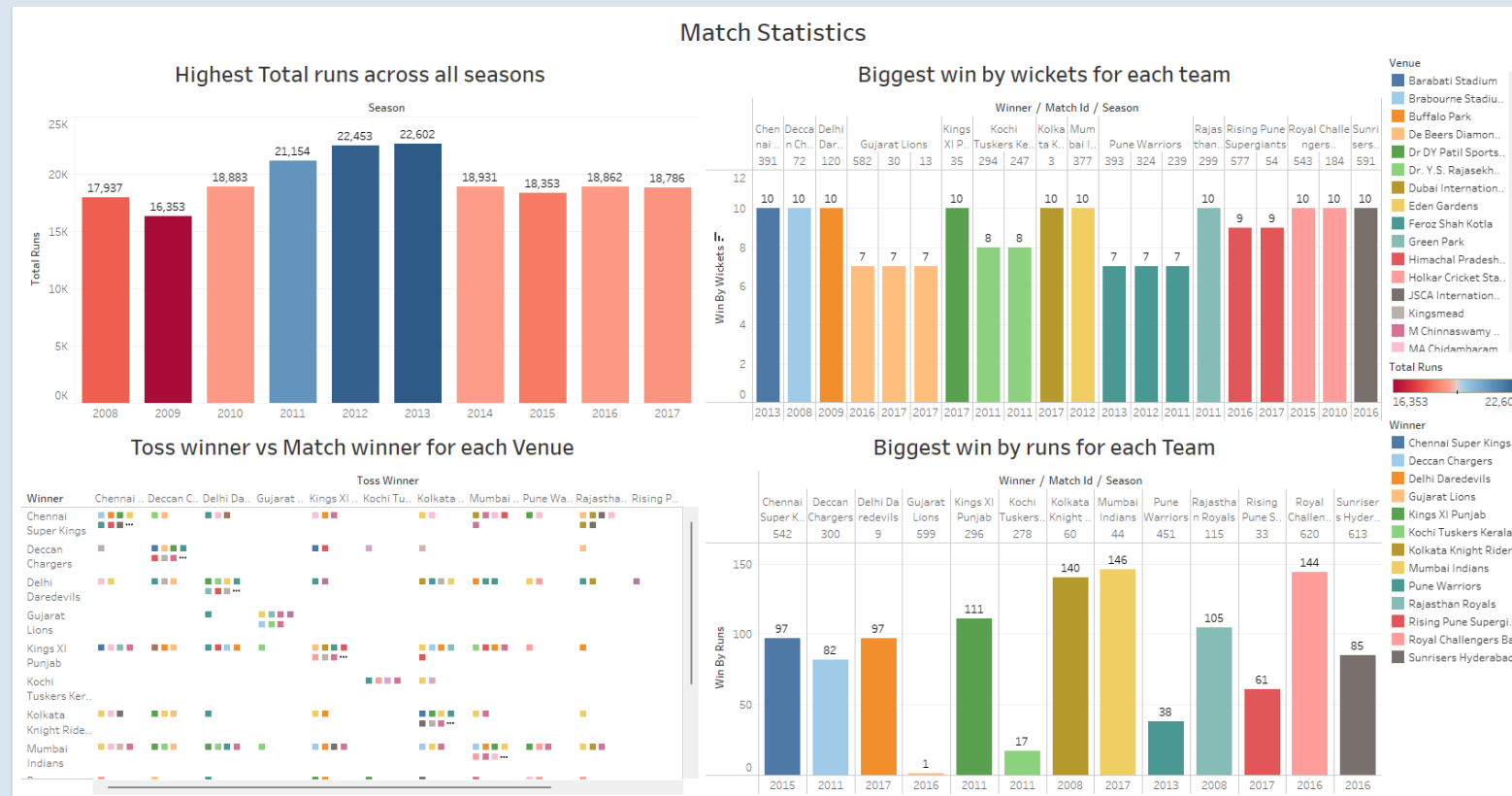
- `matches.csv`: This file contains a wealth of match-level information, encompassing every IPL fixture held from 2008 to 2017.
- `deliveries.csv`: Within this file, you'll find a granular, ball-by-ball breakdown for each match, offering a more in-depth view of the action.

Dashboard 1

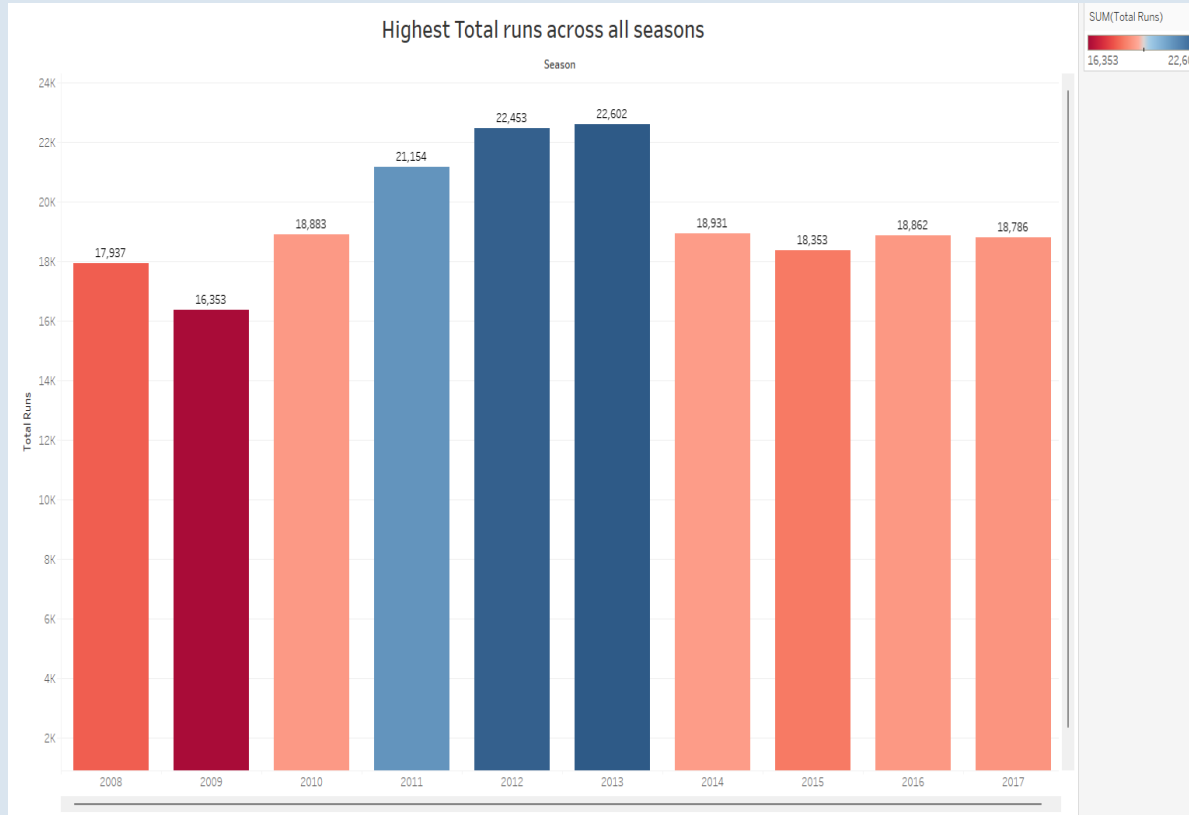
Match Statistics



Dashboard 1: Match Statistics

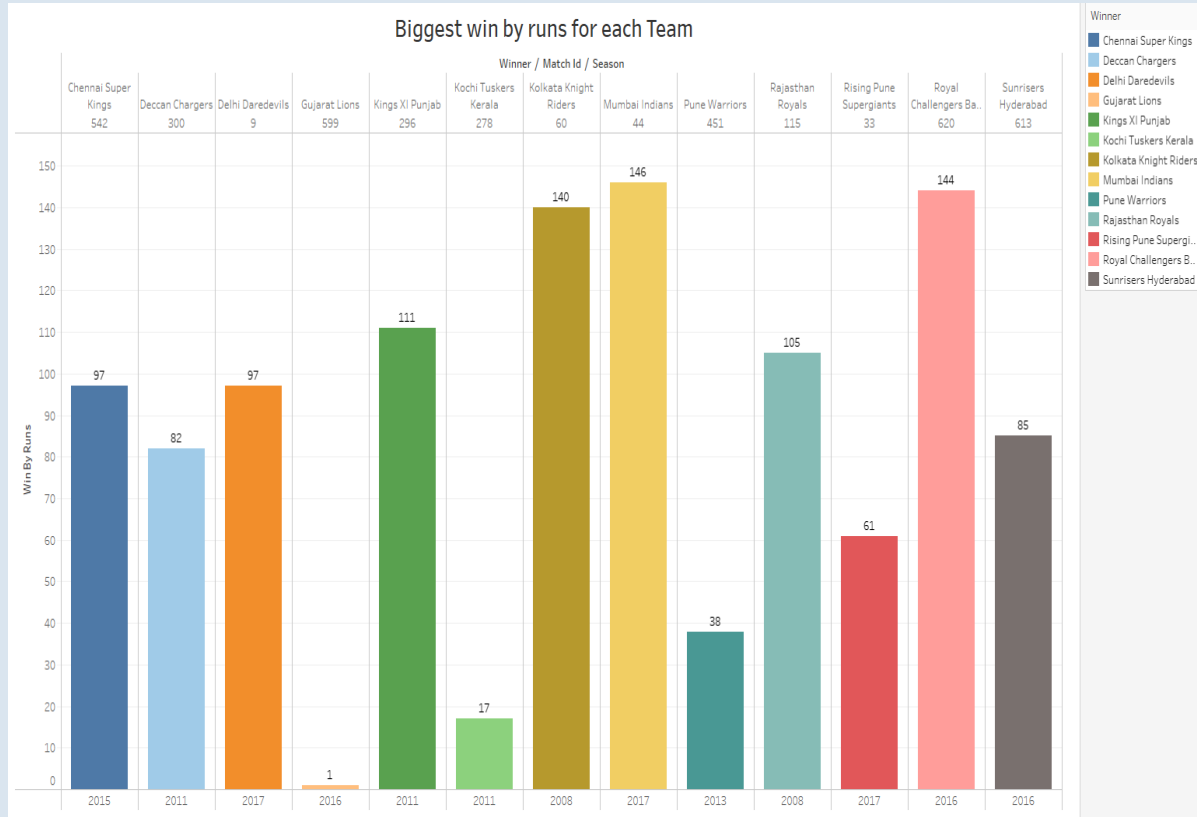


Highest Total runs across All Seasons



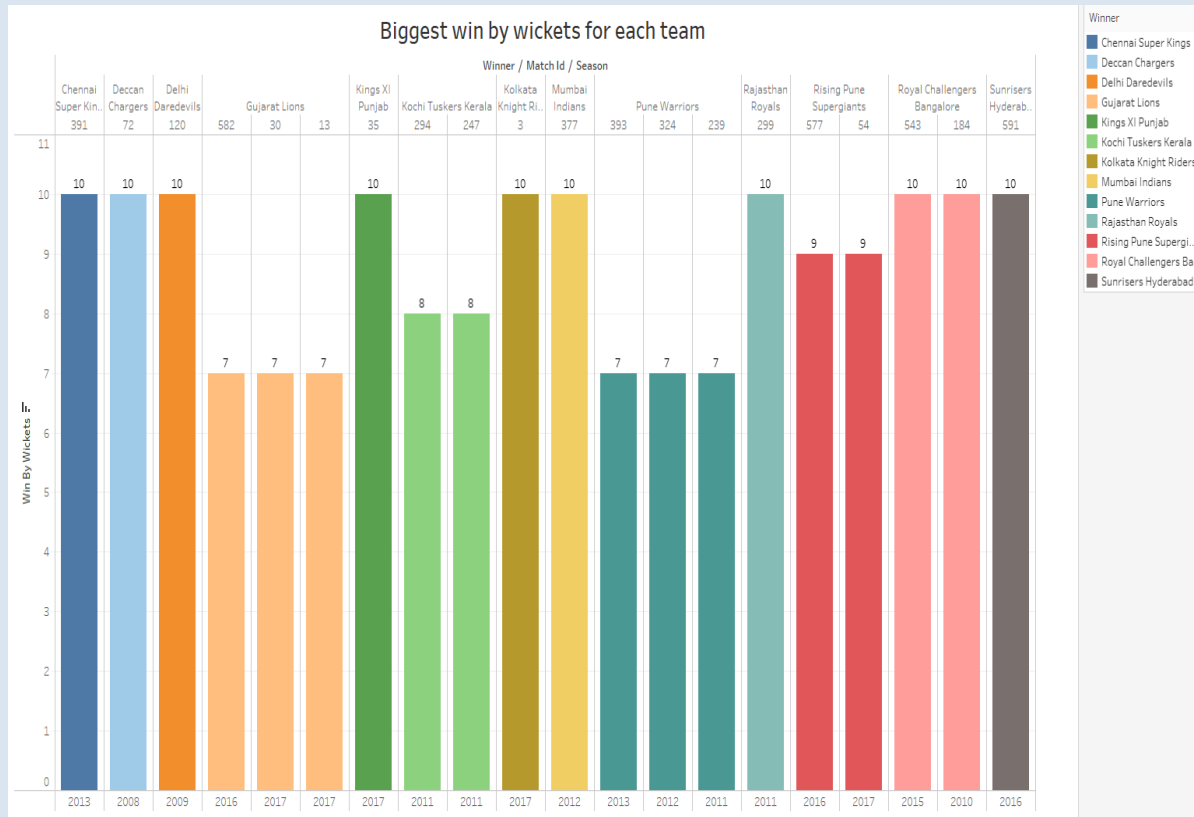
- In 2013, the highest cumulative run total was achieved, reaching an impressive 22,602 runs.
- Conversely, the lowest overall run count was documented in 2009, with a total of just 16,253 runs.

Biggest win by runs for each team



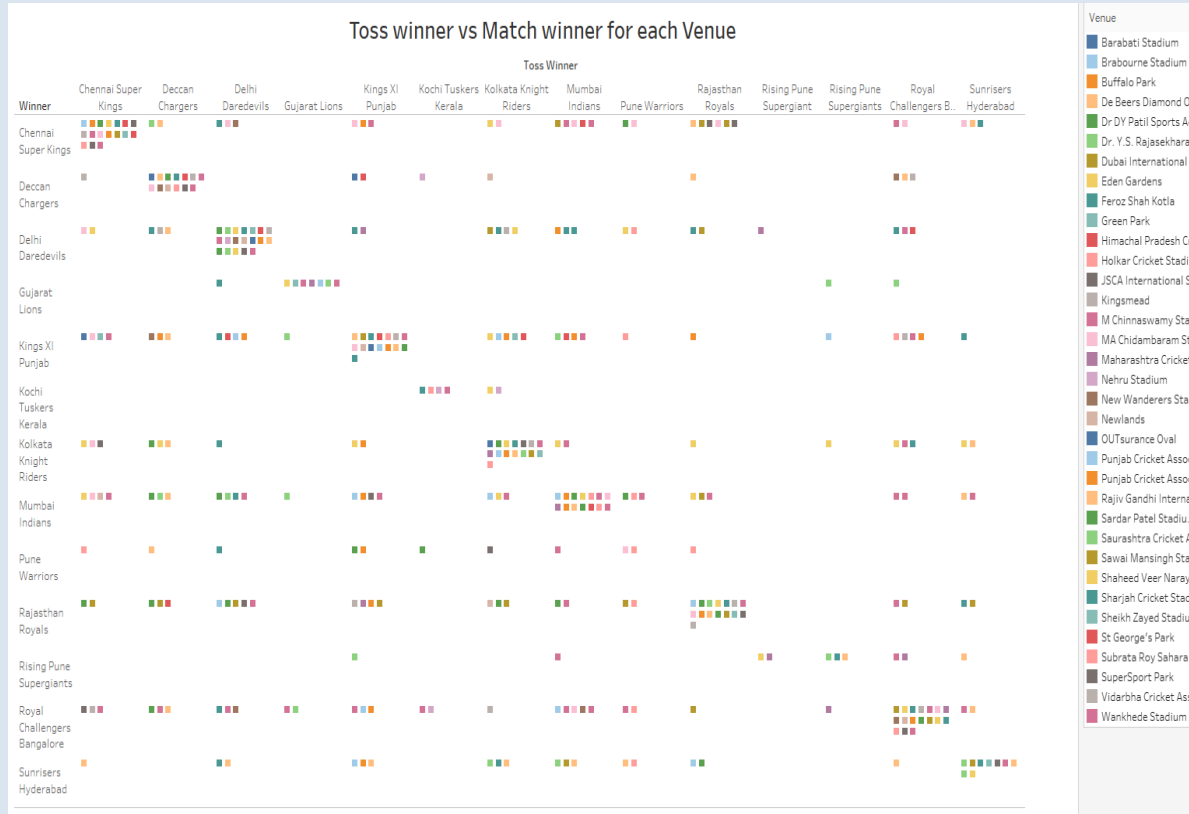
- The most significant victory margin in terms of runs during the 2017 season was clinched by the Mumbai Indians, with a commanding lead of 146 runs.
- Following closely, in the 2016 season, the Royal Challengers Bangalore secured the second-largest win, boasting a substantial 144-run lead.

Biggest win by wickets for each team



- Apart from RPG, Kochi, Pune, and Gujarat, nearly all teams have secured victories by 10 wickets.
- RCB stands alone as the only team to have achieved victory by a 10-wicket margin on two separate occasions.

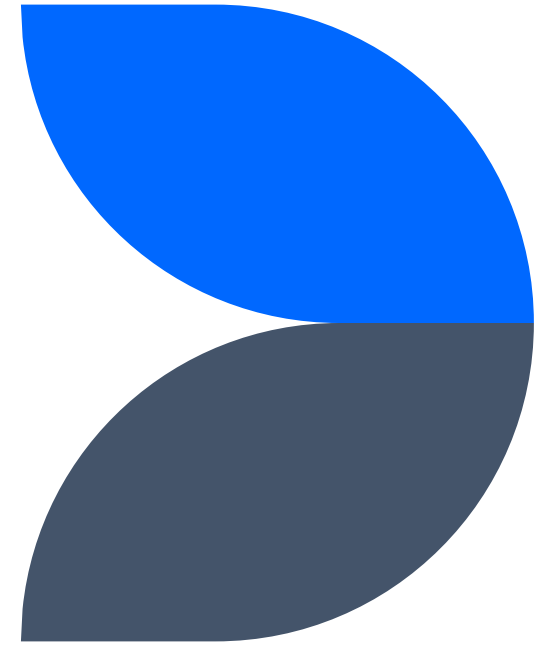
Toss vs Match winner for each Venue



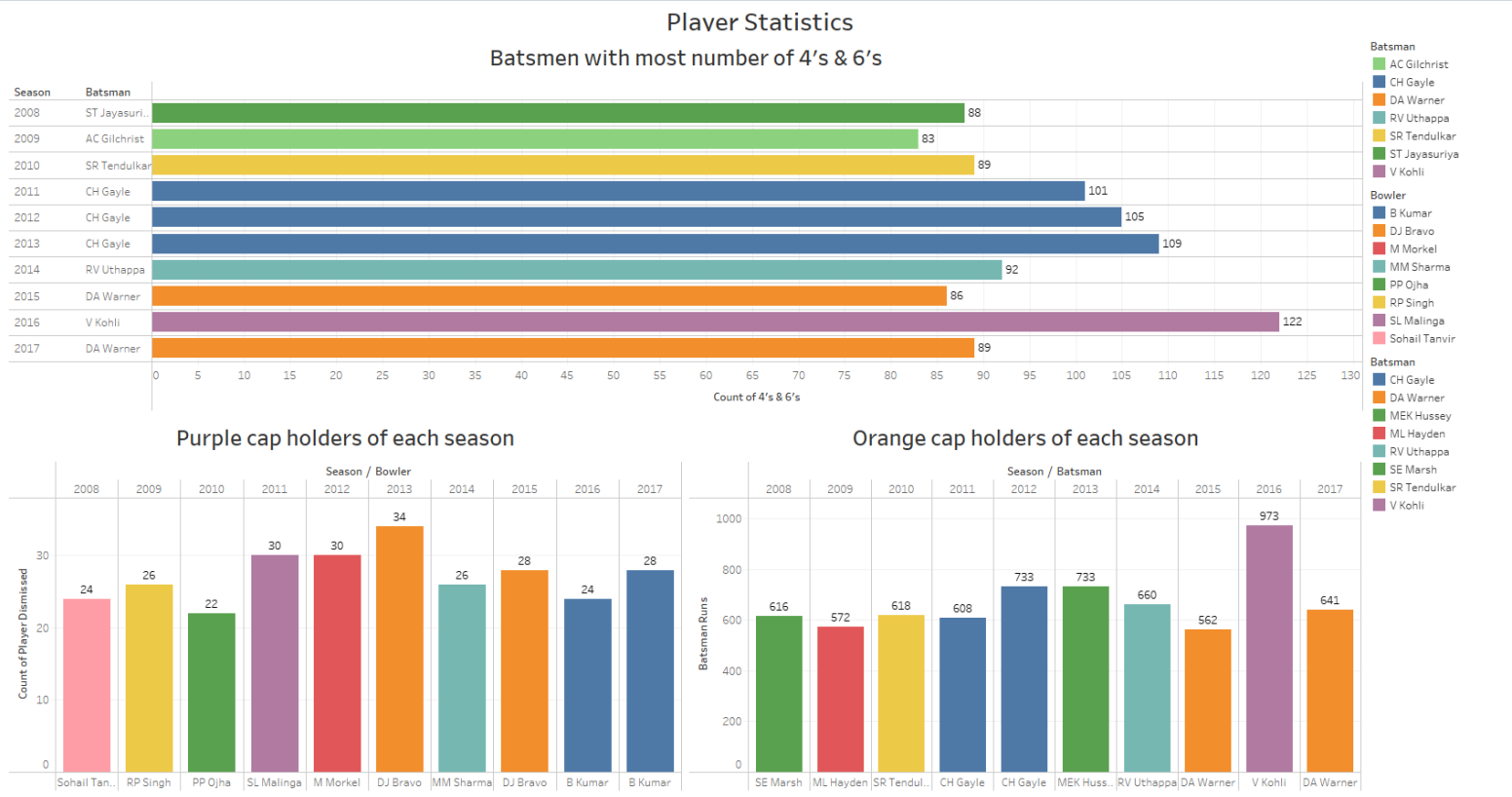
- It's noticeable that the toss winner often turns out to be the match winner as well, occurring most frequently.
- Delhi Daredevils holds the record for being the team with the most instances of winning the toss and the match at various venues.

Dashboard 2

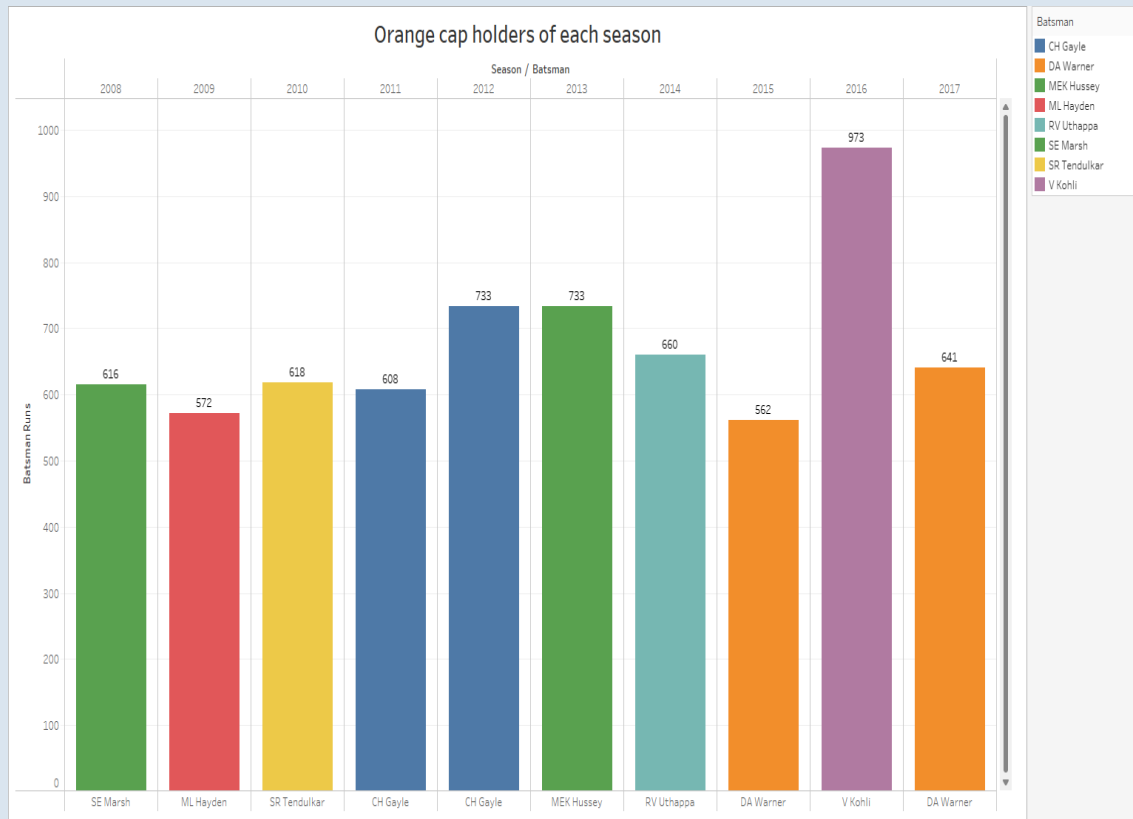
Player Statistics



Dashboard 2: Player Statistics

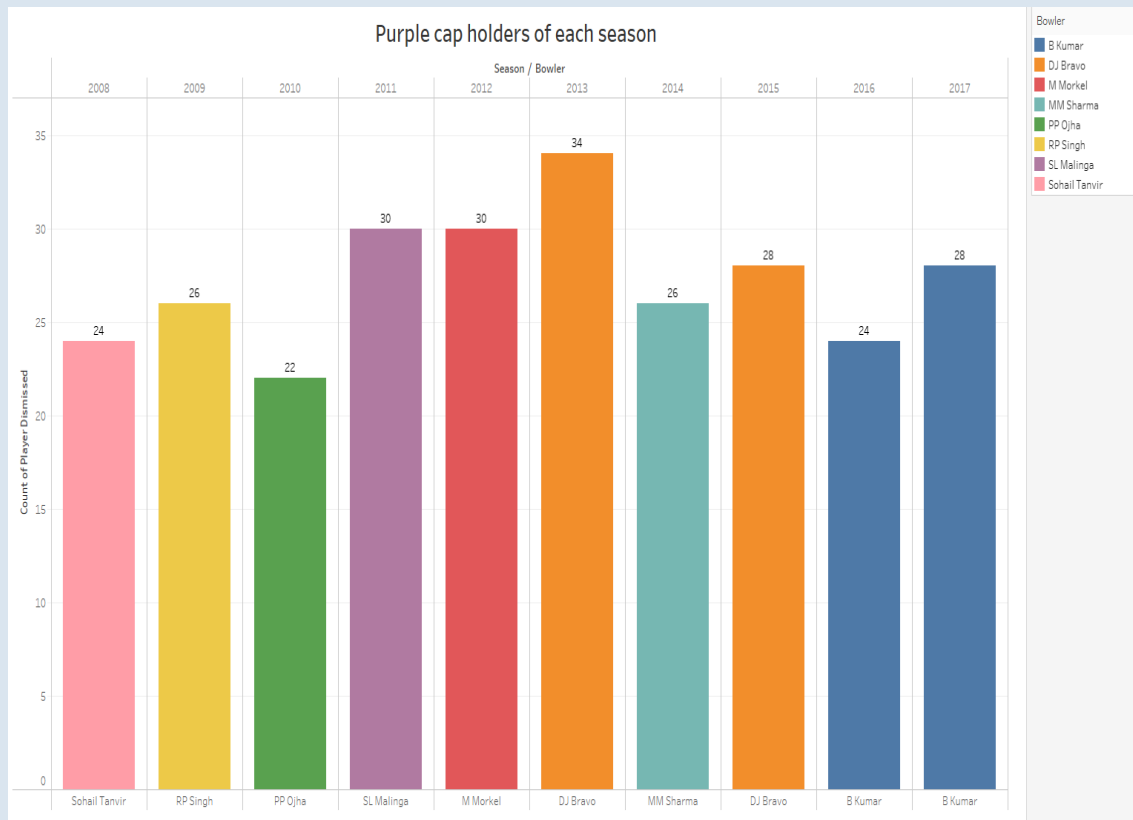


Orange cap holders of each Season



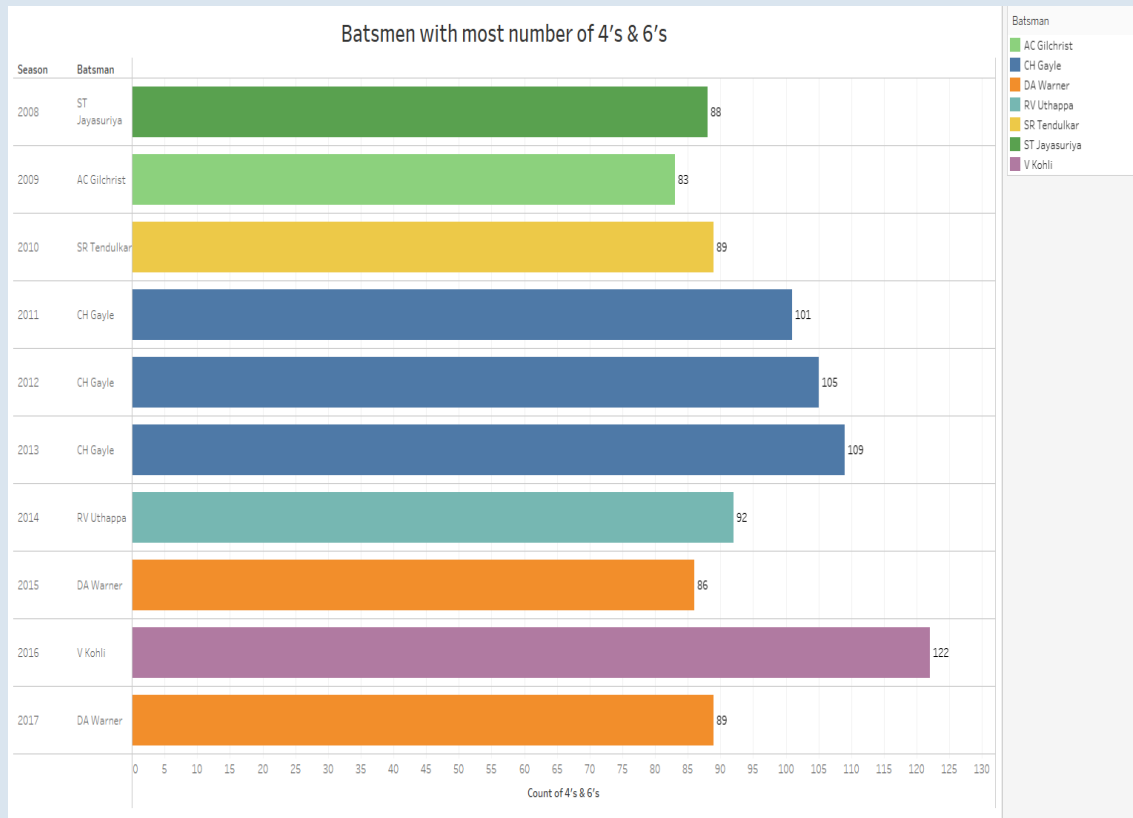
- Among all the Orange Cap holders, Virat Kohli holds the record for the highest runs in a single season, achieving a remarkable 973 runs in 2016.
- Notably, in the years 2012 and 2013, both Chris Gayle and Michael Hussey achieved the same impressive feat, accumulating a total of 733 runs each, marking an intriguing coincidence.
- In the realm of Orange Cap accolades, Chris Gayle and David Warner stand out as the only two players who have clinched the title twice, showcasing their consistent prowess.

Purple cap holders of each Season



- Among all the Purple Cap holders, Dwayne Bravo reigns supreme with the highest wicket tally in a single season, an impressive 34 wickets.
- In another striking coincidence, in both 2011 and 2012, Lasith Malinga and Morne Morkel managed to secure the exact same number of wickets, each claiming 30 wickets.
- In the illustrious history of Purple Cap honors, Dwayne Bravo and Bhuvneshwar Kumar stand out as the only two players to have earned the Purple Cap on two separate occasions, underscoring their exceptional bowling prowess.

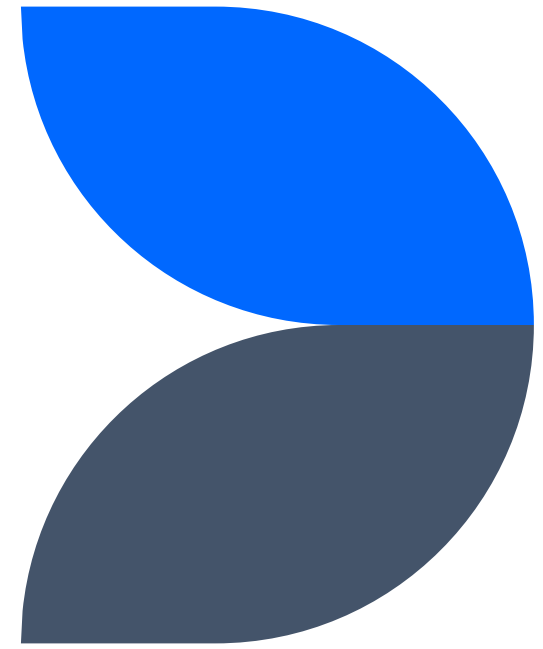
Batsmen with most number of 4's & 6's



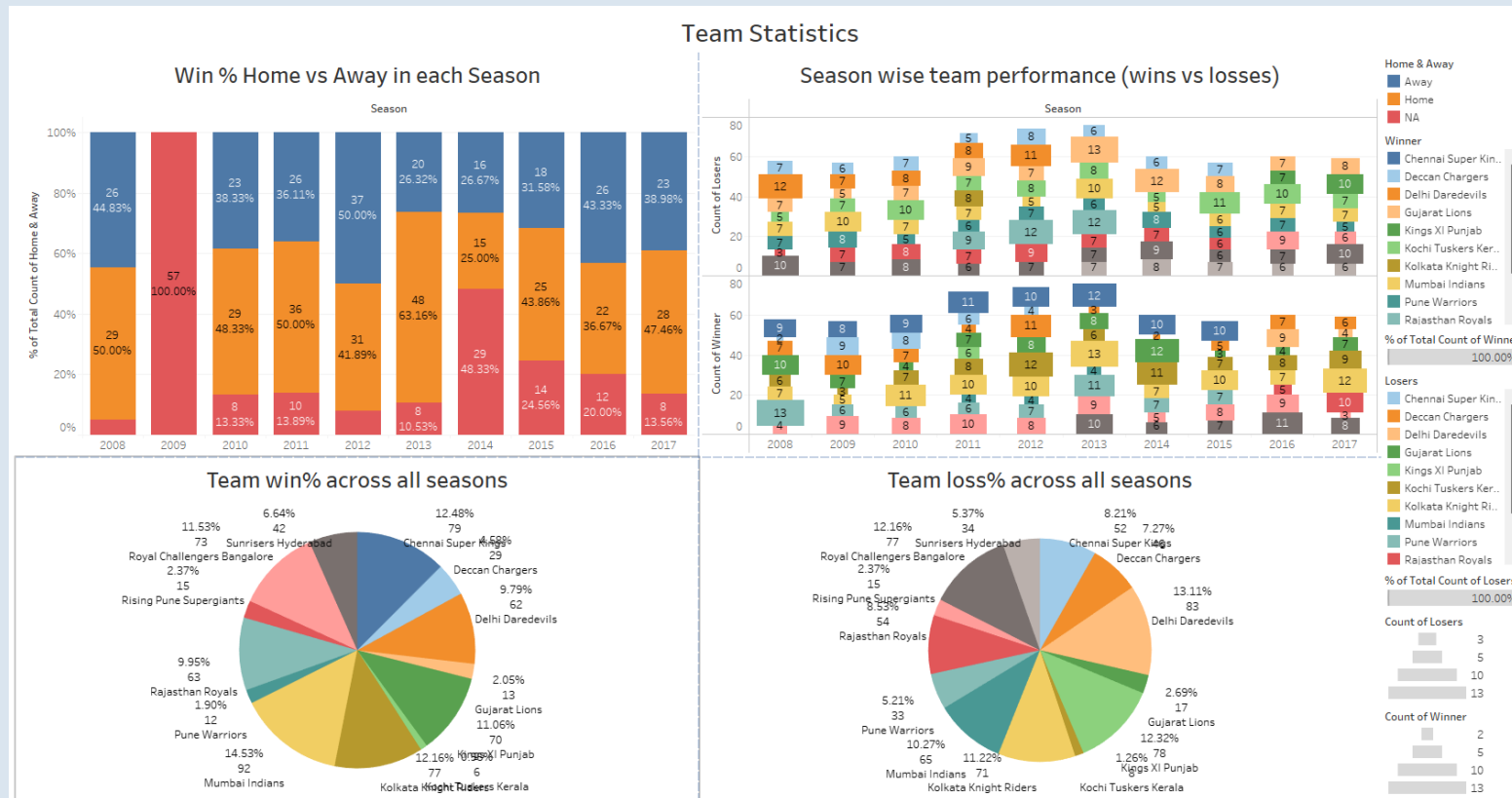
- In 2016, Virat Kohli proved to be the most prolific scorer, amassing a remarkable 122 combined scores of 4s and 6s.
- In 2010, Sachin Tendulkar showcased his prowess by accumulating 89 such scores, while in 2017, David Warner achieved the same impressive count.
- Contrastingly, in 2009, the lowest score for combined 4s and 6s was recorded by Adam Gilchrist, with a total of just 83.

Dashboard 3

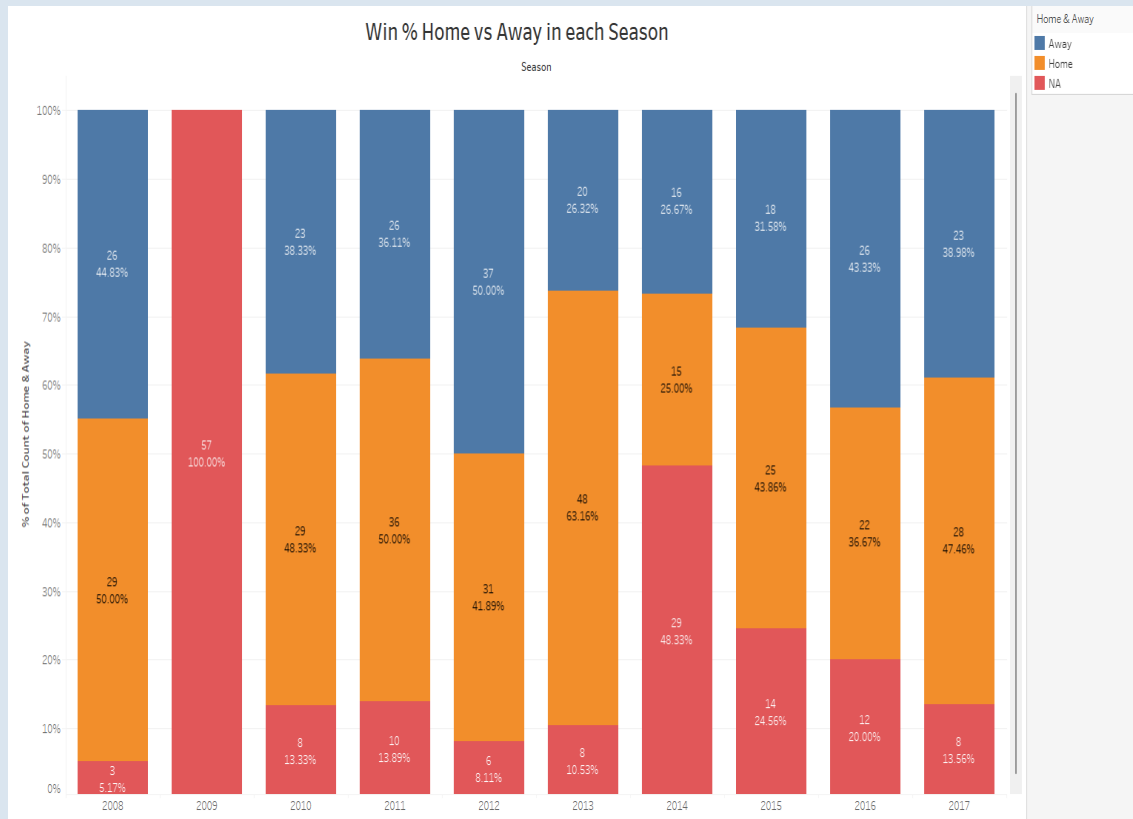
Team Statistics



Dashboard 3: Team Statistics

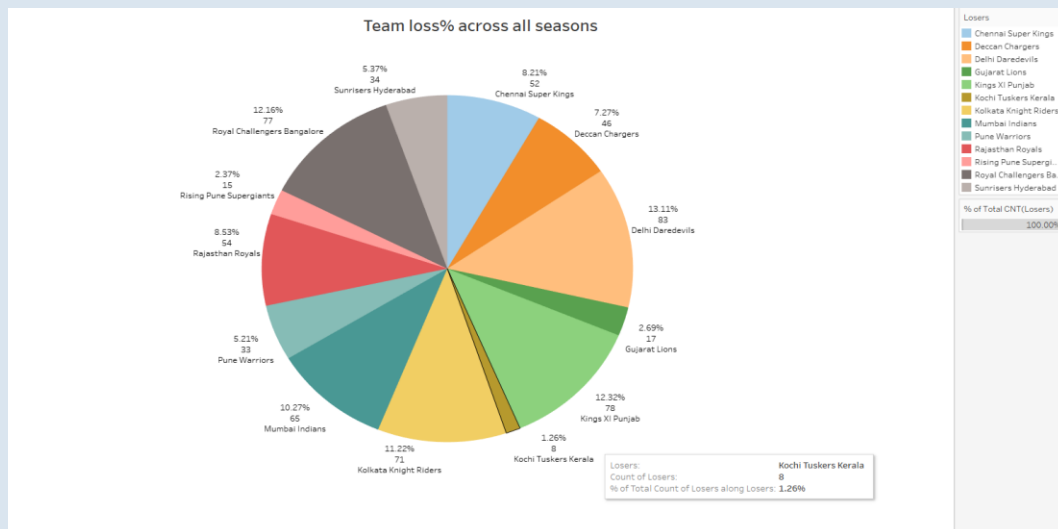
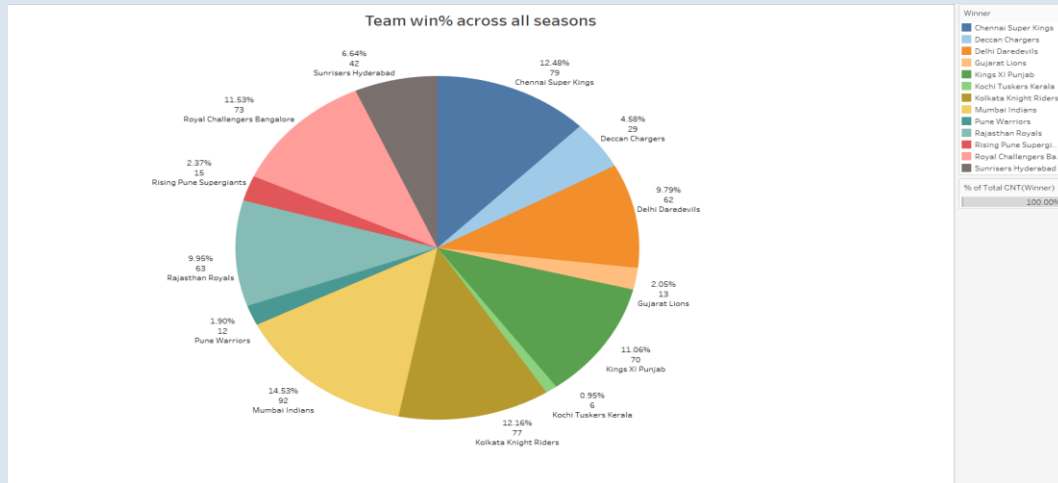


Win % Home vs Away in each season



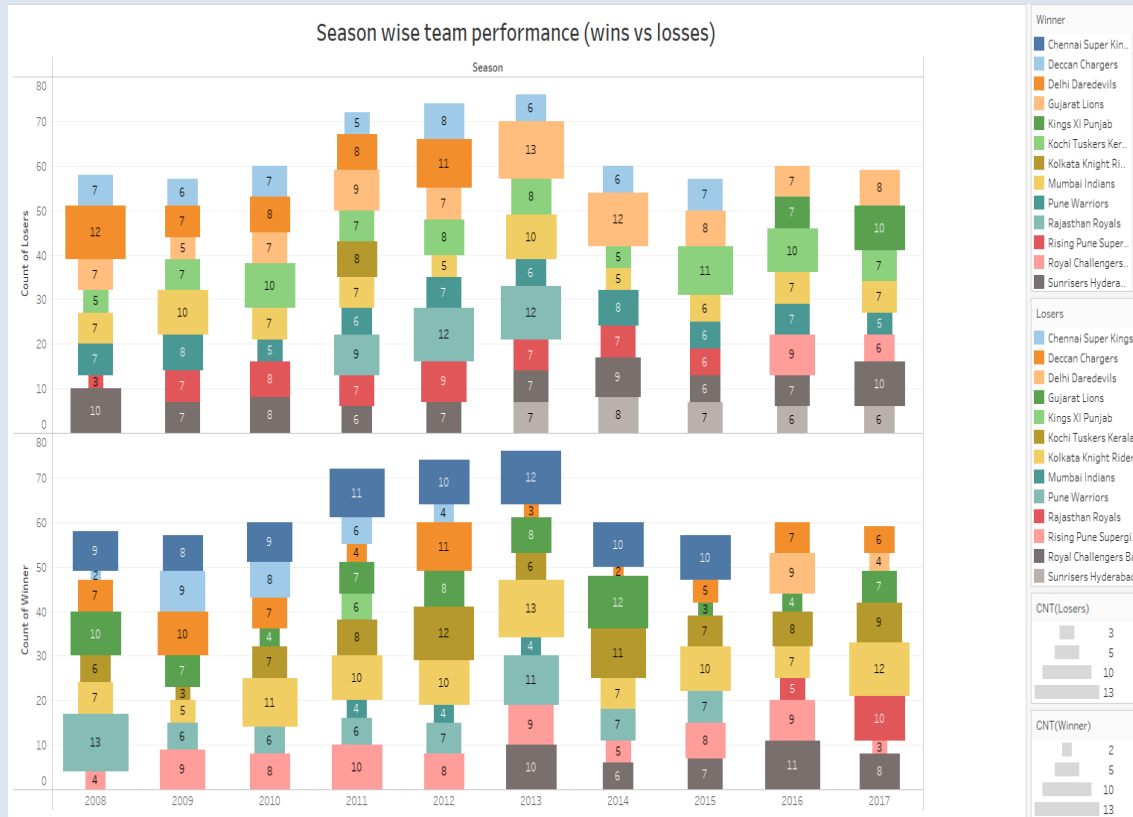
- The highest number of home games won was achieved in 2013, totaling 48 victories, constituting an impressive 63.16%-win rate.
- Conversely, 2012 saw the highest number of away games won, with a total of 37 victories, accounting for 50% of the matches played.
- In 2009, a unique circumstance unfolded as 100% of the games were neither categorized as home nor away matches. This deviation was due to the IPL being held in South Africa, owing to India's general elections.

Team win % & loss % across all seasons



- The team with the highest overall win percentage is the Mumbai Indians, boasting an impressive 14.53%-win rate, securing a total of 92 victories.
- On the other hand, the Delhi Daredevils claim the highest loss percentage, standing at 13.11%, having lost a total of 83 matches.

Season wise team performance(wins vs losses)



- Rajasthan Royals and Mumbai Indians stand out as the sole teams to have clinched 13 victories in a single season.
- In contrast, Delhi Daredevils holds the unique distinction of being the only team to have suffered 13 losses in a single season.

Conclusion

The Tableau analysis of the IPL spanning from 2008 to 2017 has yielded a wealth of insights into match, player, and team performances. This analysis not only revealed which teams achieved victories by considering both wickets and runs as crucial parameters but also identified the players with the most 4s and 6s, showcasing the highest scorers. Ultimately, the Tableau analysis has provided valuable and actionable insights that can be effectively incorporated into our newsletter.



Thank you

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