IPL ANALYTICAL VISUALIZATION

INTRODUCTION

We will be looking at the statistical analysis and visuals of the Indian Premier League dataset. The dataset contains records from the year 2008 to 2017.

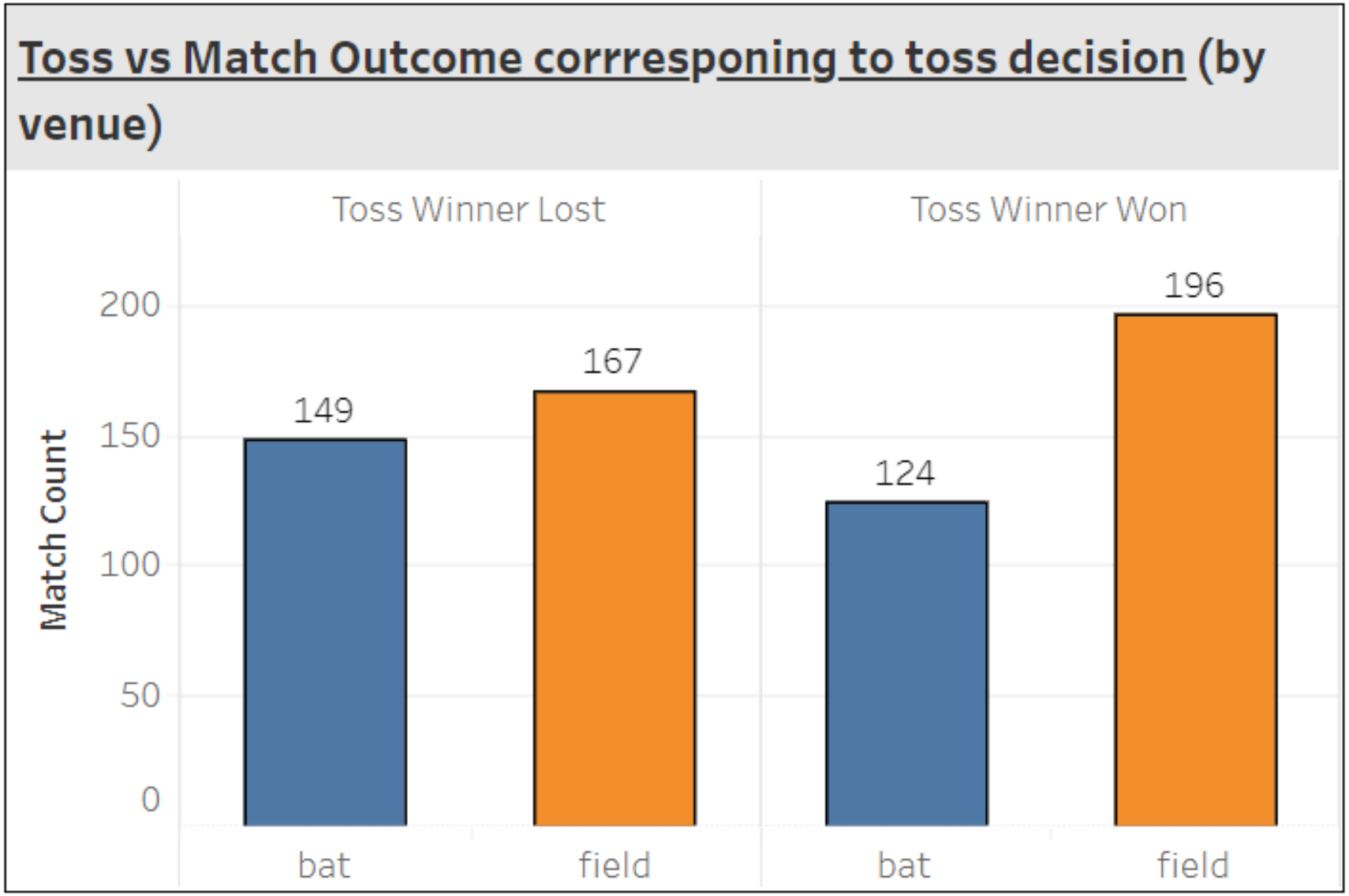
Tableau dashboard contains the following types of visualization:

1. Match Statistics
    - Toss outcome vs Match outcome (for each Ground/Venue)
    - Biggest wins (by runs and by wicket)
    - Highest totals (across all the seasons)

2. Player Statistics
    - 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 the most number of fours and sixes (per season and overall)

3. Team Statistics
    - Season-wise team performance (wins vs losses)
    - Win %age (home vs away)

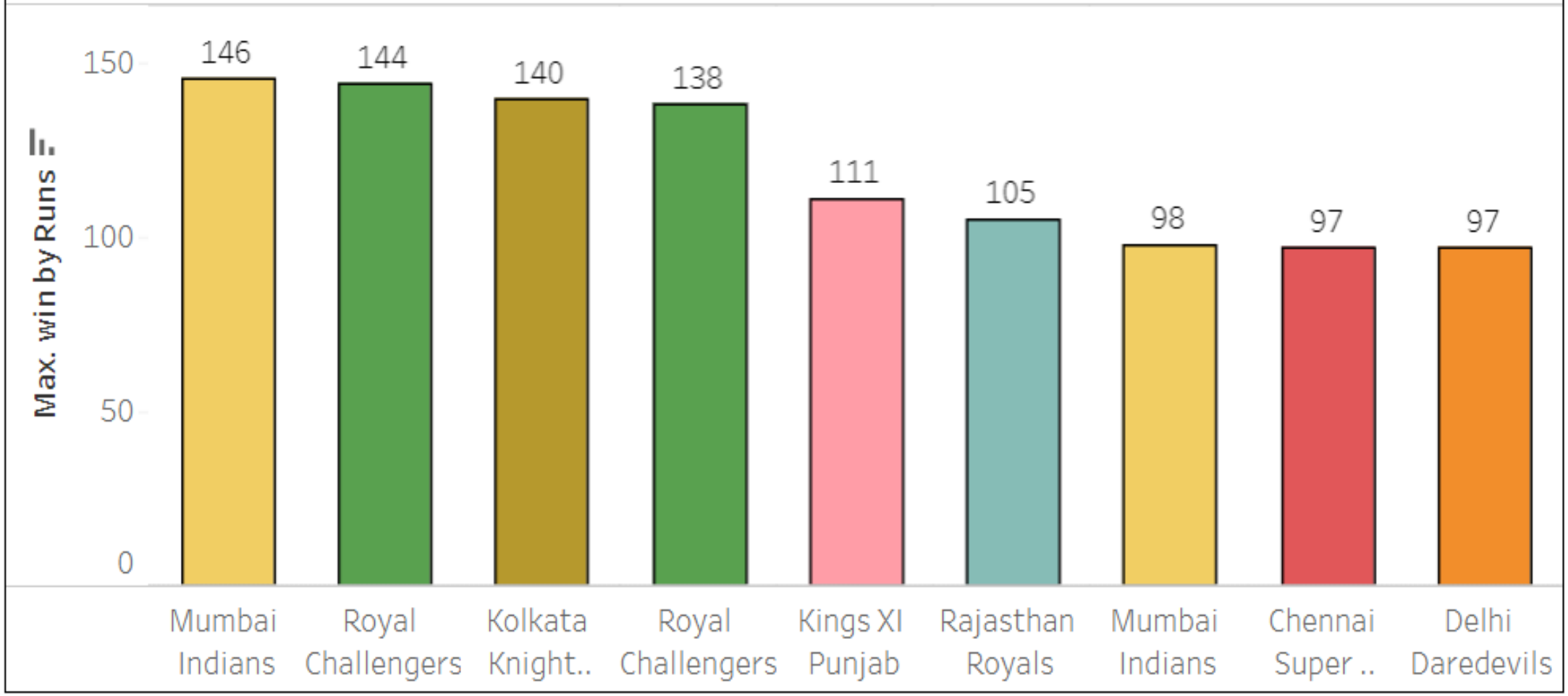
Toss vs Match Outcome corrresponing to toss decision (by venue)



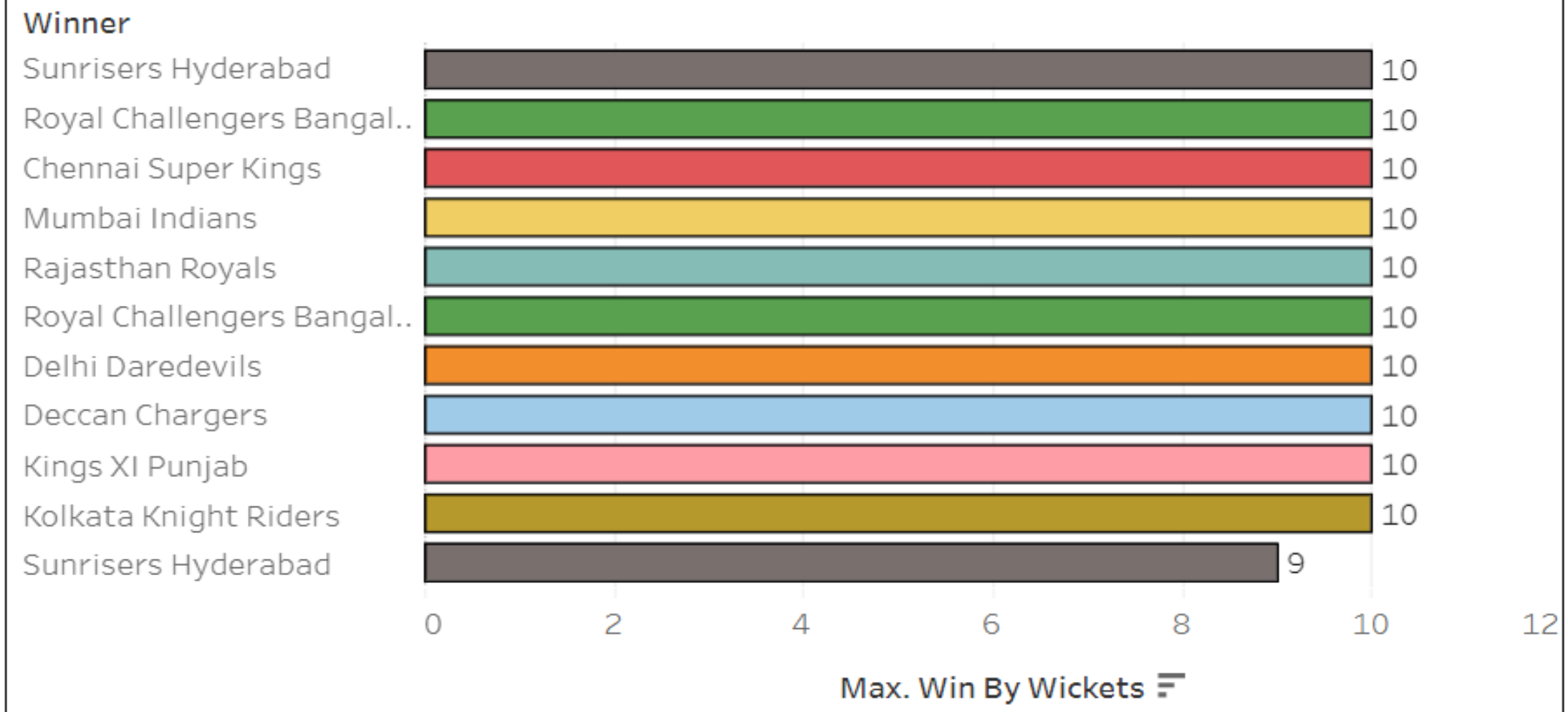
Venue

- [x] (All)
- [x] Barabati S...
- [x] Brabourne...
- [x] Buffalo Park
- [x] De Beers ...
- [x] Dr DY Patil...
- [x] Dr. Y.S. Raj...
- [x] Dubai Inte...
- [x] Eden Gard...
- [x] Feroz Sha...
- [x] Green Park
- [x] Himachal ...
- [x] Holkar Cri...
- [x] JSCA Inter...

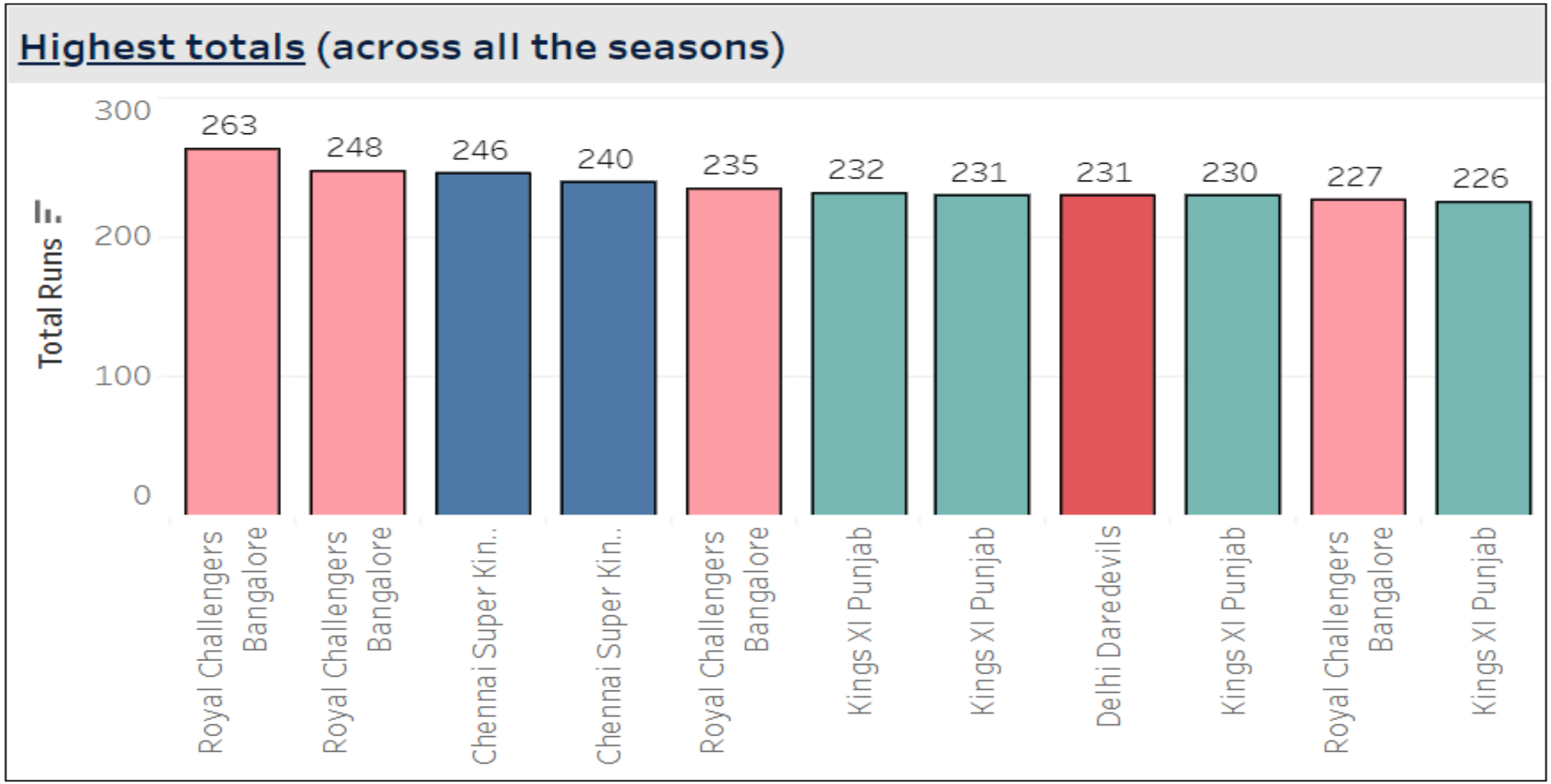
Biggest wins by runs



Biggest wins by wickets



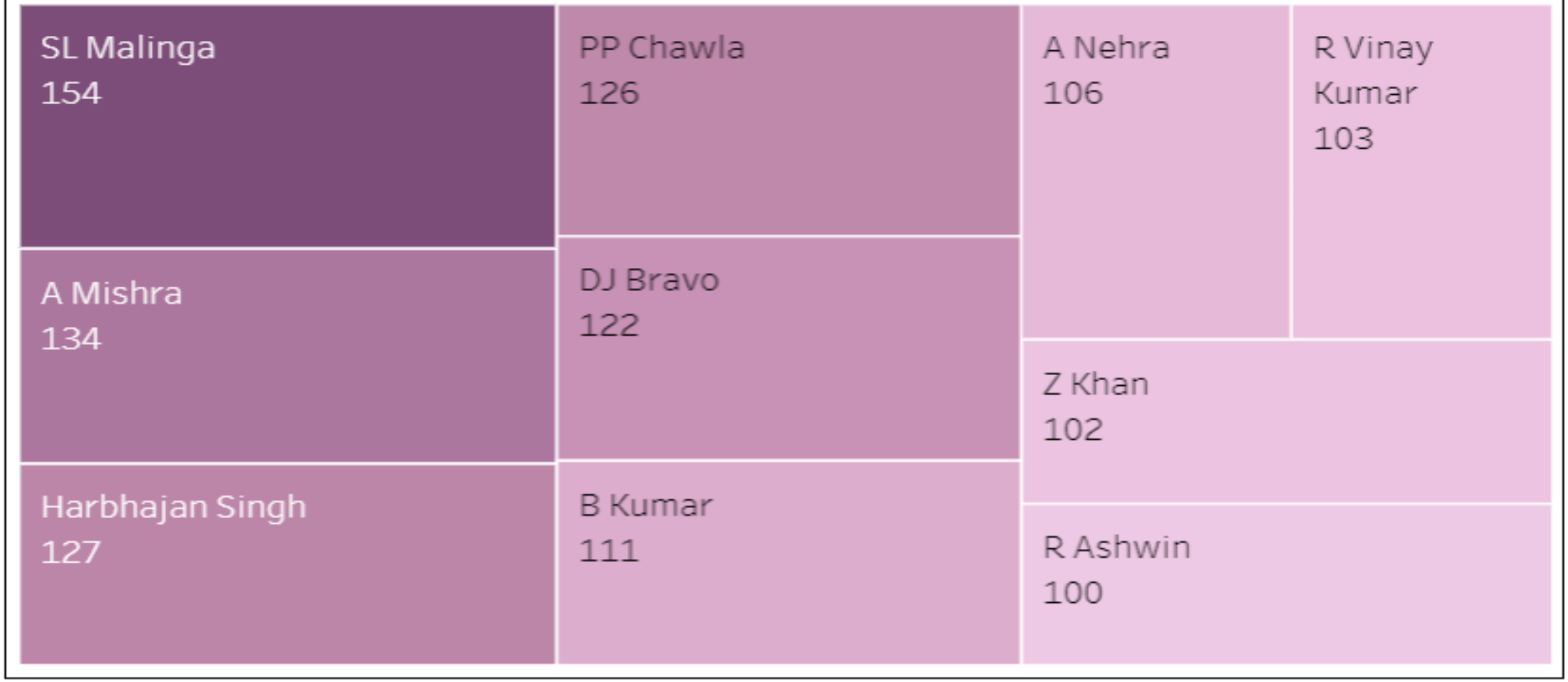
Highest totals (across all the seasons)



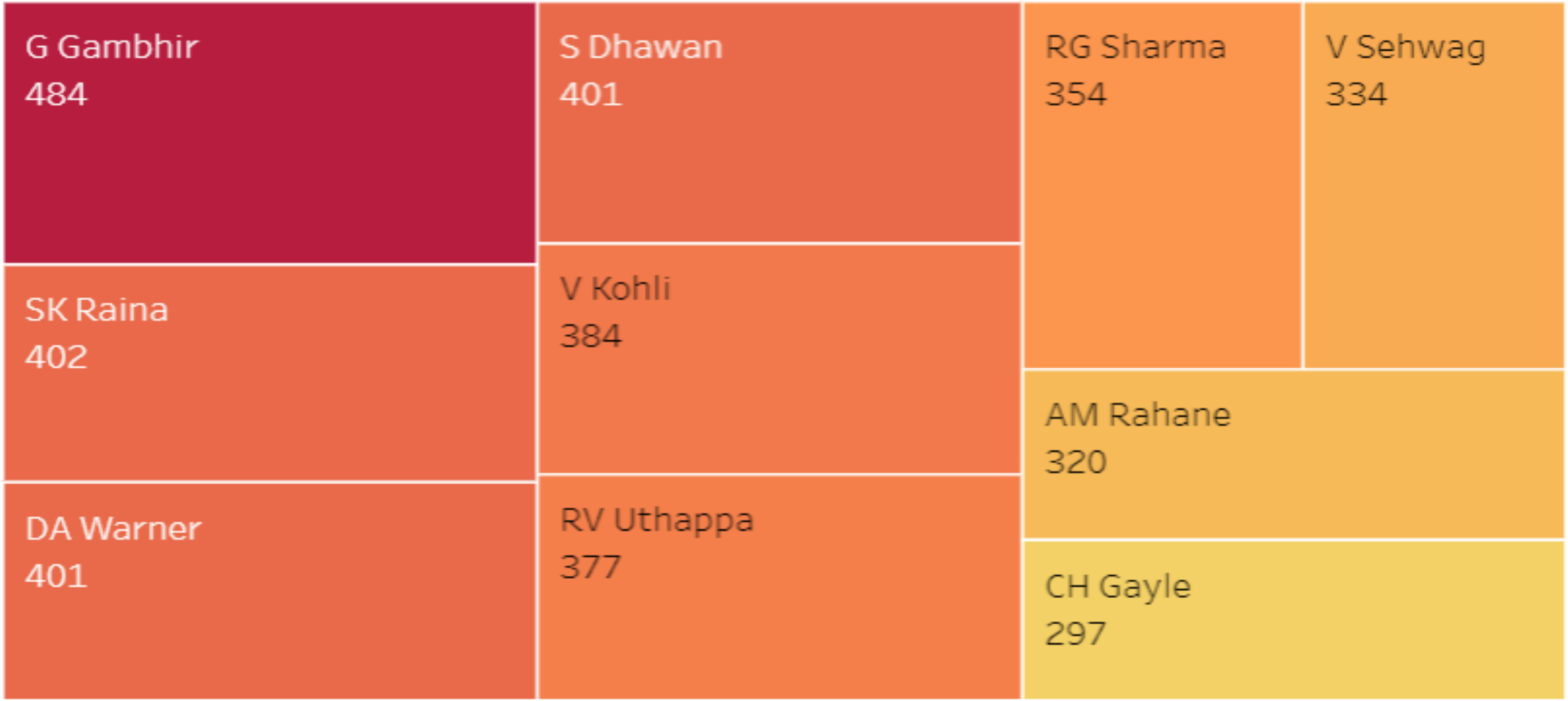
Orange Cap contenders (Batsmen who have scored the maximum no. of runs in a particular season)

SK Raina 4,548	G Gambhir 4,132	CH Gayle 3,651	S Dhawan 3,561
V Kohli 4,423	DA Warner 4,014	MS Dhoni 3,560	
RG Sharma 4,207	RV Uthappa 3,778	AB de Villiers 3,486	

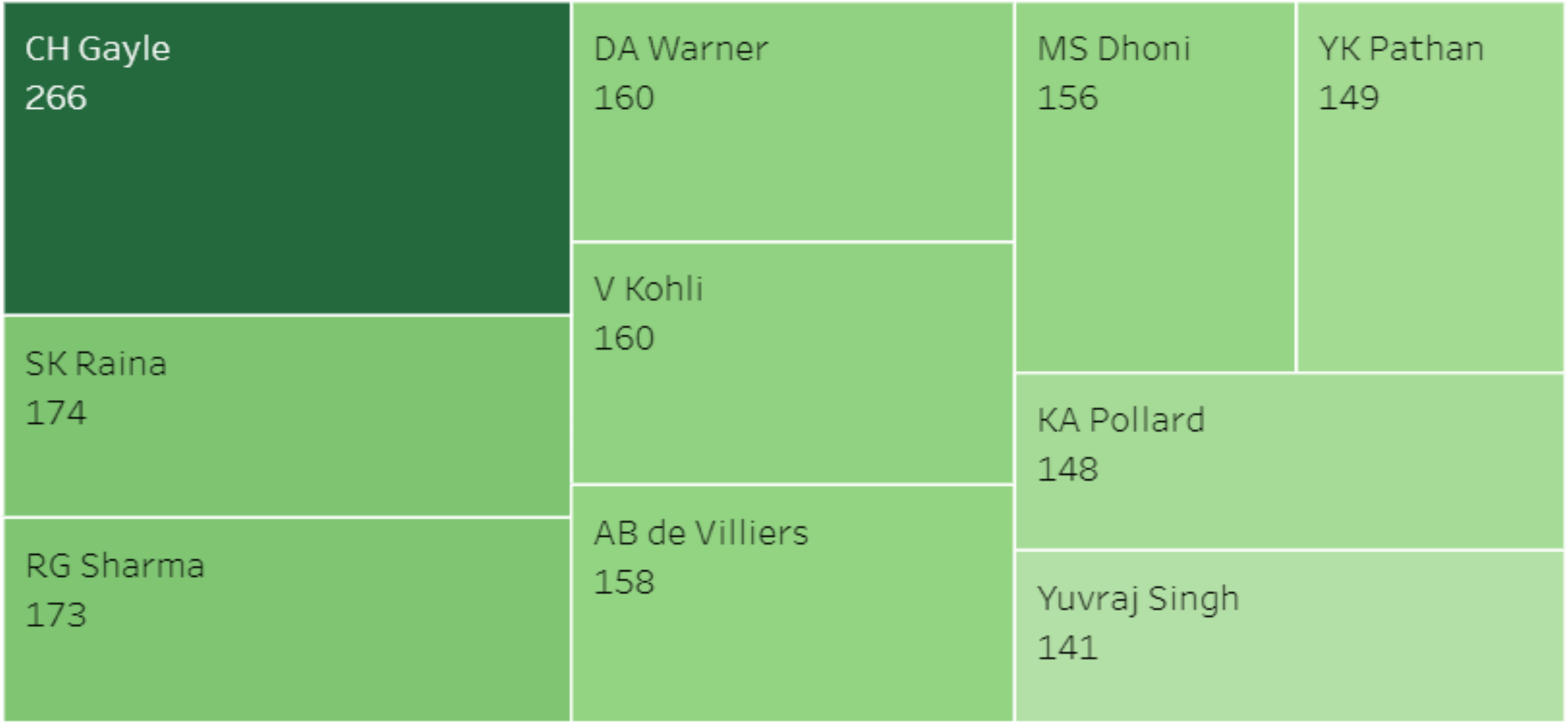
Purple Cap contenders (Bowlers who have taken the maximum no. of wickets in a particular season)



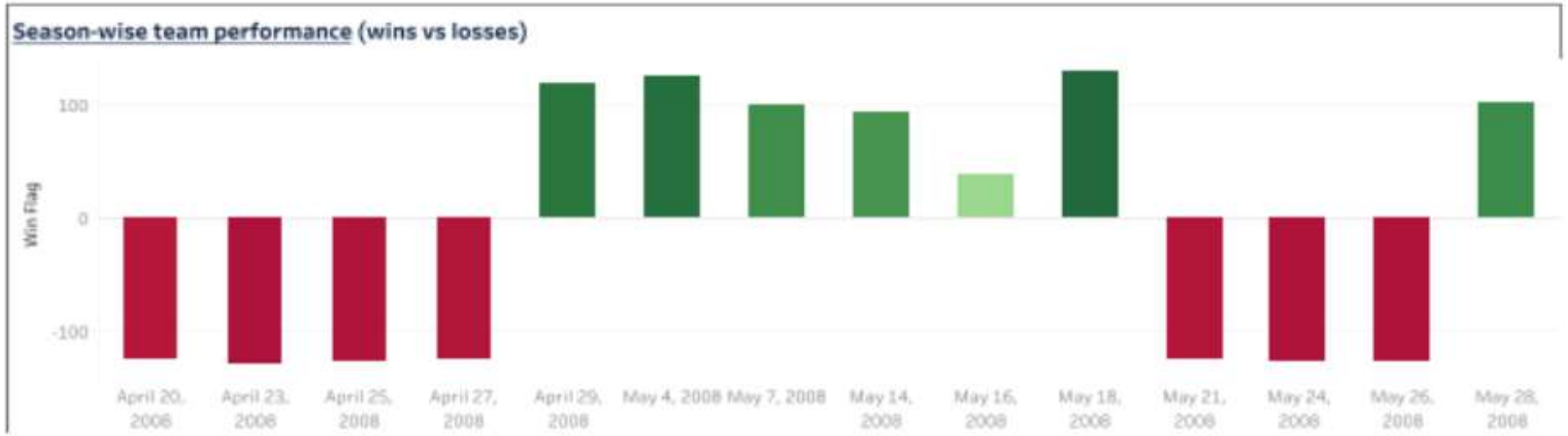
Batsmen who have hit the most no. of 4's (per season & overall)

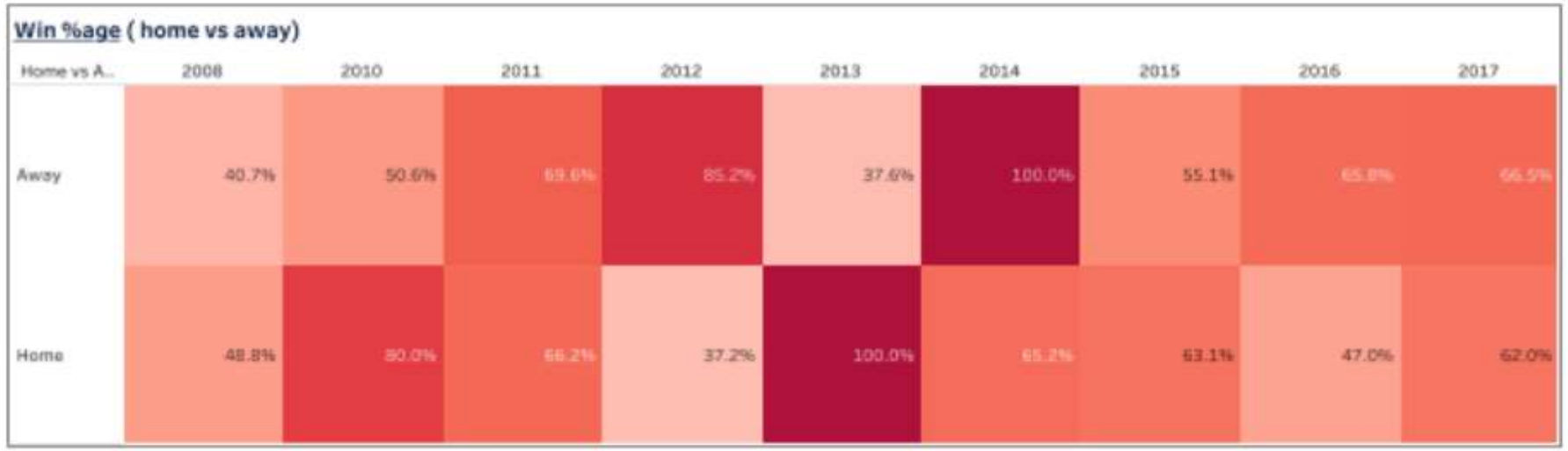


Batsmen who have hit the most no. of 6's (per season & overall)



Team Statistics





	season	winner
0	2008	Rajasthan Royals
1	2009	Deccan Chargers
2	2010	Chennai Super Kings
3	2011	Chennai Super Kings
4	2012	Kolkata Knight Riders
5	2013	Mumbai Indians
6	2014	Kolkata Knight Riders
7	2015	Mumbai Indians
8	2016	Sunrisers Hyderabad
9	2017	Mumbai Indians

CONCLUSIONS

- It is not true that toss winners win the match. Upon analysis we see its even considering all seasons, but the winner of toss gets an advantage over their opponent in the last 3 years.
- In this task we find that CSK had a high chance of winning a game if they batted first after winning the toss, and KKR were dominating games if they bowled first aftter winning the toss.
- There is a high chance that the team scoring 200+ wins the match.
- Gayle has most number of 6s. Gambhir has most number of 4s.
- Suresh Raina has scored the most runs in IPL followed by Virat Kohli and Rohit Sharma. Raina has consistently scored 300+ runs in every season.
- RCB has scored most number of sixes and MI have scored most number of 4s.
- Average runs scored per match by RCB was highest in 2016. RCB has highest team total 263 runs.
- The IPL most wicket taken bowler is Mallinga
- In the initial seasons of IPL, there is no much difference in number of times toss winners chose to bat and field. In seasons 2009, 2010, 2013 batting first was the preferred choice. Whereas in the last few seasons it is clearly seen that the trend is to bowl first.
- Mumbai Indians have won the match most number of times. It has biggest win by run. But CSK dominated the win rate.
- We can see by the visualisation, there is only slight advantage to the team playing in front of their home crowd and the match can go either way.