



IPL VISUALIZATION ASSIGNMENT

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PROBLEM STATEMENT

The Indian Premier League, or IPL, is a T20 cricket league, which was founded in 2008 and is held every year. You work as a data analyst at **IFP**, a nationally recognised news agency.

The Sports Editor of the agency has approached you to build a Tableau dashboard of IPL statistics over the years since its inception in order to create an infographic for a newsletter that their team is working on.

They will use the visual representations as you have created in Tableau directly for their infographic, and in a few other cases , they will use important statistics after trying out the different filters and customisations that you have provided for interactivity.

Therefore, you are expected to build an interactive dashboard in Tableau for this purpose.





IPL

TEAMS

Analysis categories and sub categories.

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)



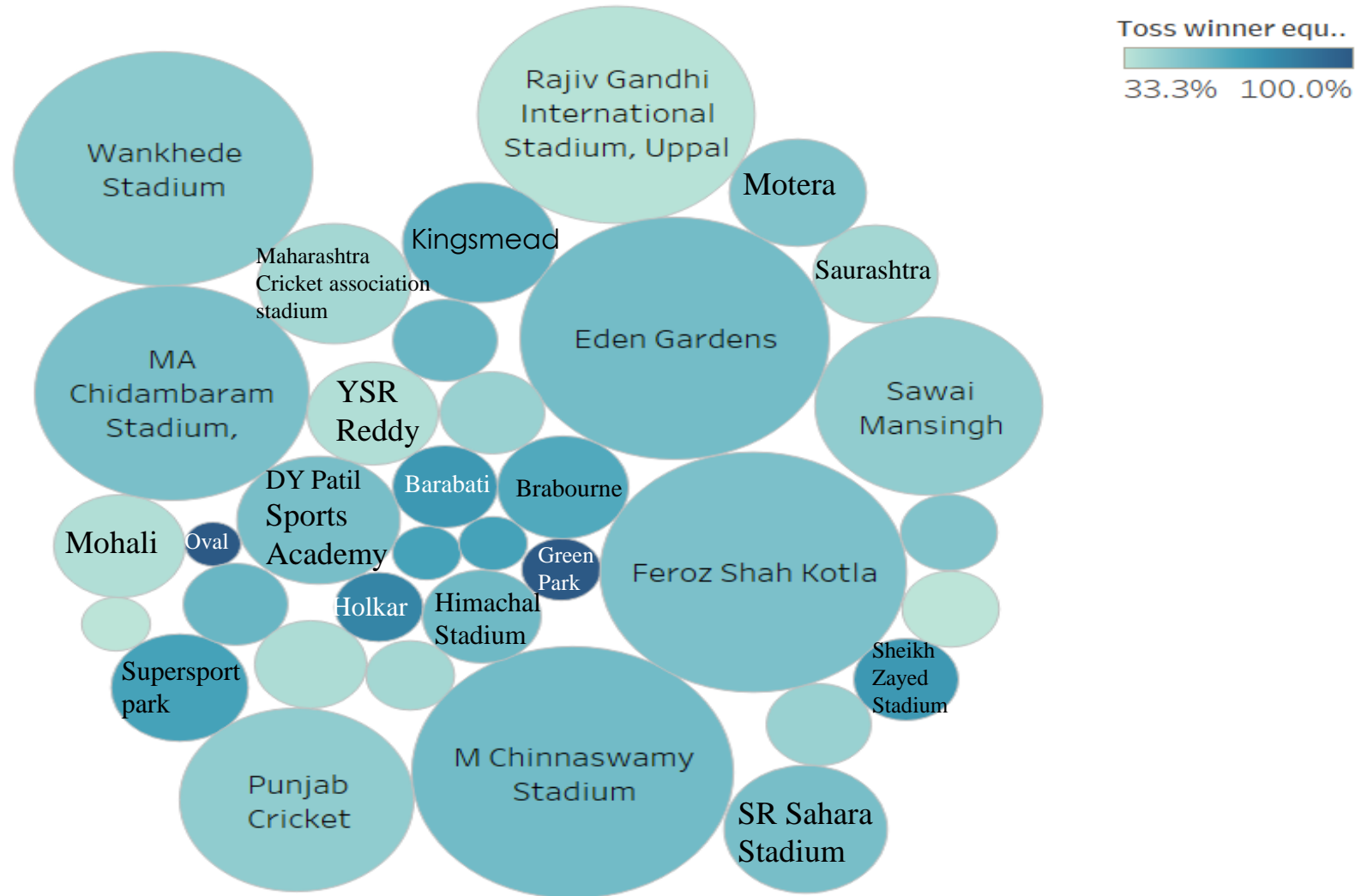


MATCH STATISTICS



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

Toss Outcome vs Match Outcome



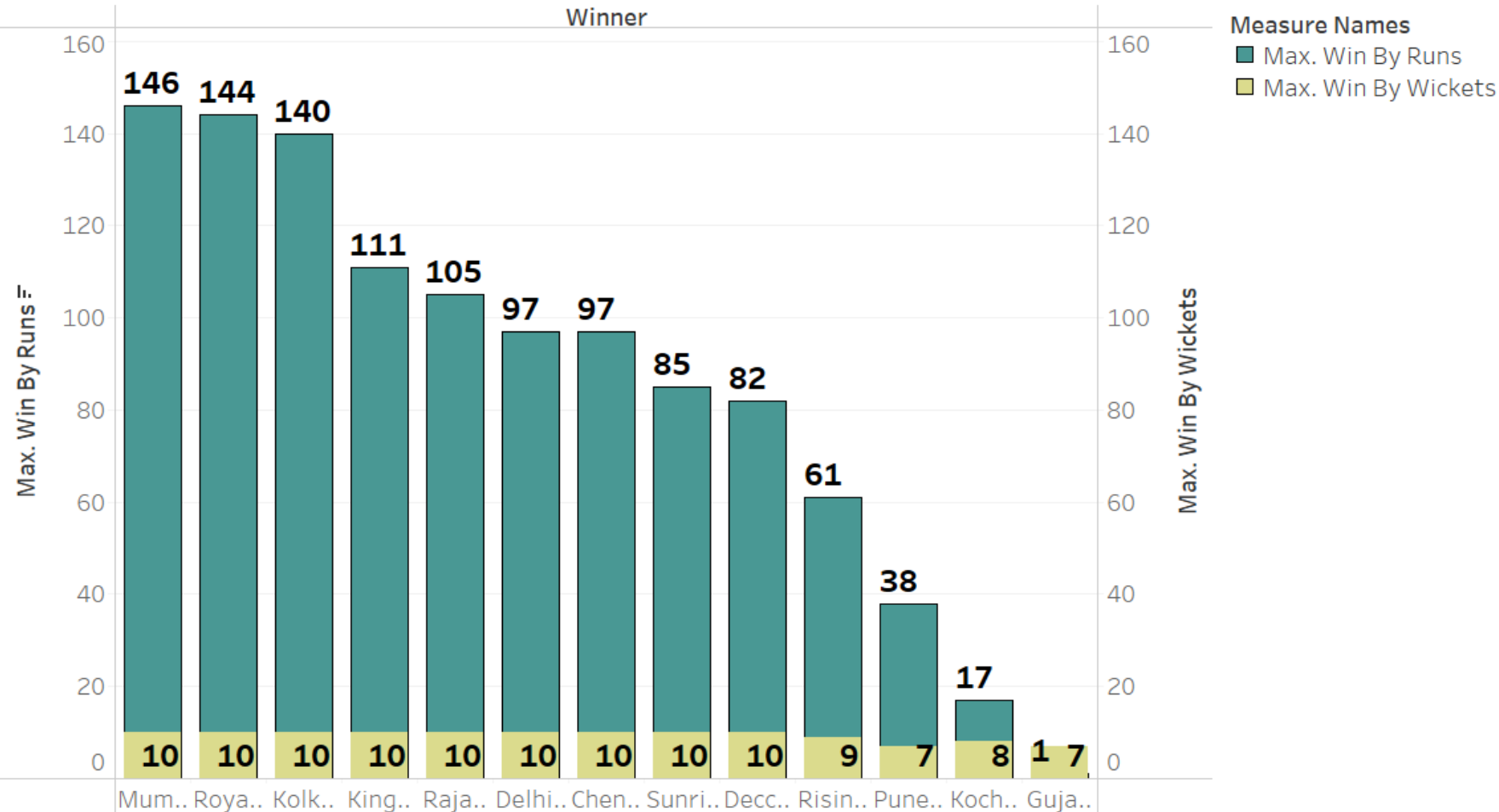
- We can Observe that though oval and Green park stadiums have the highest percentage chance of winning the toss and winning the match at the same time but the number of matches played there are very less.
- Chinnaswamy stadium has hosted the maximum number of matches followed by Eden Garden and Feroz shah kotla with the Toss winner vs match winner percentage of 54.5% , 54.1% and 51.7% respectively.



Biggest wins (by runs and by wicket)

Biggest Wins By Runs & Wickets

Winner



- It is very clear and evident from the bar graph that Mumbai Indians is the most dominating team in IPL.
- Mumbai Indians have had the biggest wins by runs as well as wickets followed by Royal challengers Bangalore and Kolkata knight riders.



Highest totals (across all the seasons)

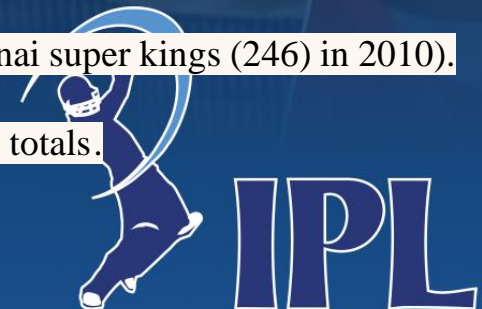
Highest totals(accross all seasons)

Batting Team														Max. Biggest T..	
Season	Chenna..	Deccan..	Delhi D..	Gujara..	Kings X..	Kochi T..	Kolkat..	Mumb..	Pune ..	Rajast..	Rising ..	Royal C..	Sunris..	159	263
2008	240	214	194		221		222	202		217		181			
2009	188	184	189		174		189	187		211		176			
2010	246	190	188		204		200	218		223		204			
2011	205	198	231		232	184	175	182	187	159		205			
2012	222	196	207		194		192	197	192	197		215			
2013	223		179		194		186	209	185	185		263	178		
2014	205		180		231		200	195		201		190	205		
2015	209		190		206		190	209		199		235	201		
2016			192	196	181		189	206			195	248	208		
2017			214	208	230		187	223			187	213	209		

The top 3 highest totals across all seasons were scored by Royal challengers Bangalore (263) in 2013 , (248) in 2016 and by Chennai super kings (246) in 2010).

This shows that Chennai has some really good batsmen who could hit boundaries and maintain the run rate very high to achieve big totals.

Chennai has been scoring over 200 runs consistently in almost every season they played.



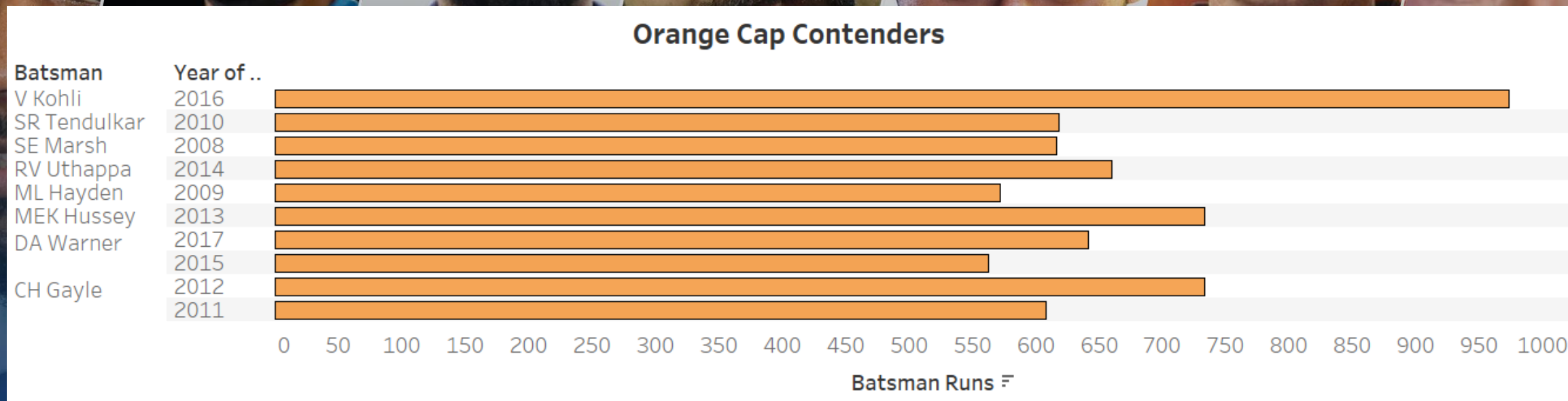


PLAYER STATISTICS



Orange Cap contenders

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

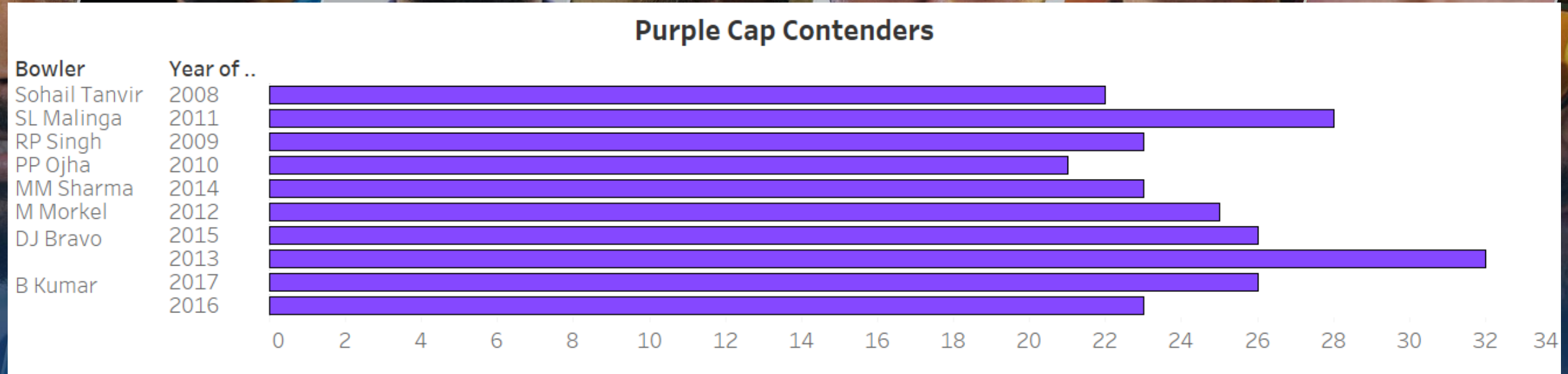


- Chris Gayle and David Warner have both worn the orange cap in two seasons which proves that they are consistent run scorers .
- Virat Kohli has scored the maximum runs (973) in a particular IPL season which remains a record.
- It is evident that Virat Kohli in the year 2016 played an important role in Royal Challengers Bangalore's success to the finals.



Purple Cap contenders

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

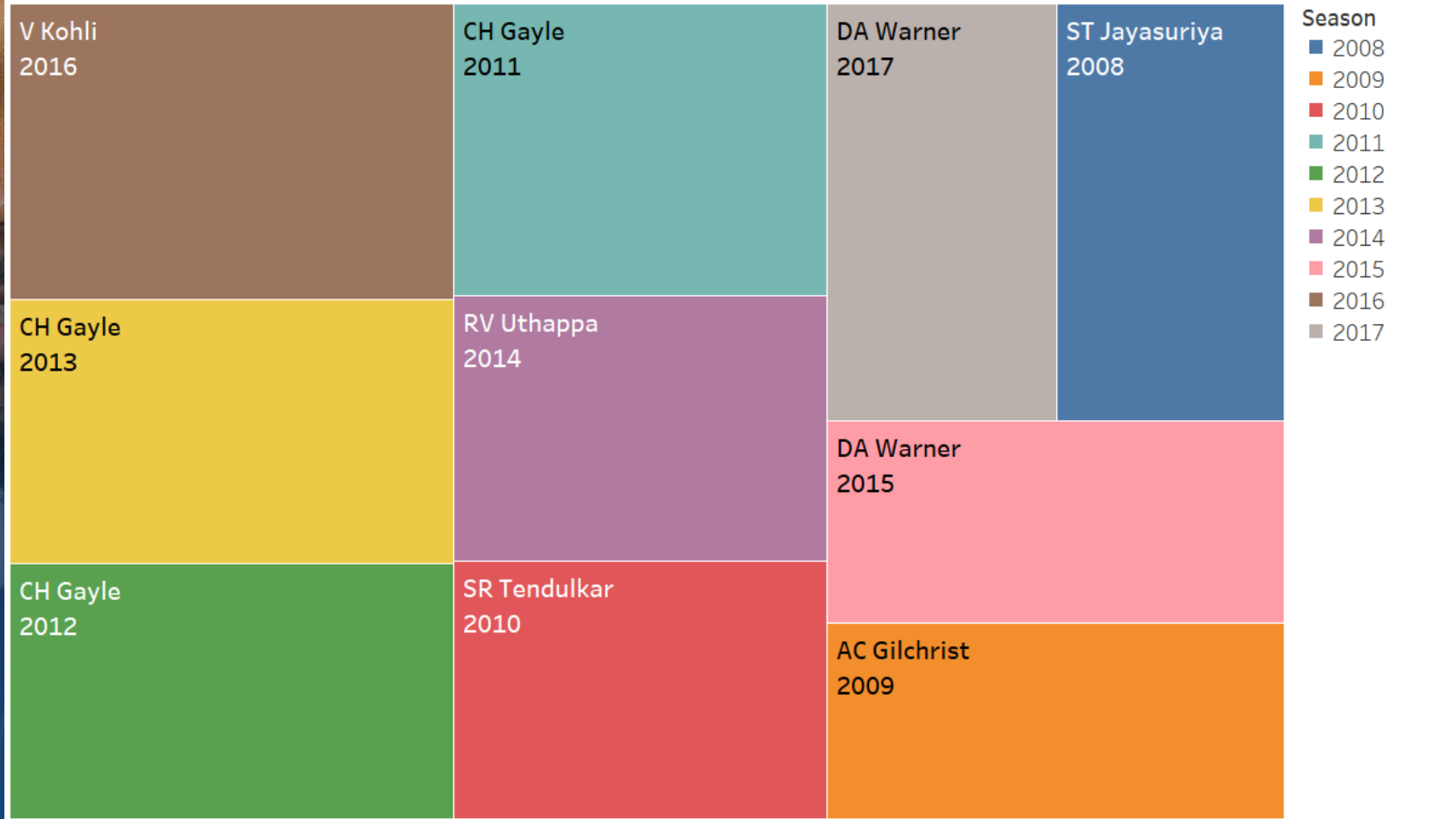


- DJ Bravo and B Kumar have both help the purple cap in two seasons of the IPL .
- DJ Bravo took dismissed 32 different players in the year 2013 of IPL .
- Lasith Malinga has also been one of the most dominant bowlers in the IPL.



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

Most 4's & 6's by batsmen per season



- Virat kohli and Chris Gayle has been the top boundary scorers in various IPL seasons.
- Chris Gayle is clearly the most explosive Batsman in the IPL because he has scored the highest number of fours and sixes in multiple IPL Seasons.
- Chris Gayle has hit 315 boundaries from year 2011 to 2013.
- David Warner in 2017 had hit 89 boundaries and also held the orange cap in that season.



Batsmen who have hit the most number of fours and sixes(Overall)

Most 4's &6's overall

SK Raina Boundaries count 576	V Kohli Boundaries count 544	RV Uthappa Boundaries count 502	S Dhawan Boundaries Count 472
CH Gayle Boundaries count 563	G Gambhir Boundaries count 542	AB de Villiers Boundaries count 445	
DA Warner Boundaries count 561	RG Sharma Boundaries count 527	V Sehwag Boundaries count 440	

Boundaries
440 576

- Suresh Raina has hit the maximum number of boundaries all together in all IPL seasons Followed by Chris Gayle , David warner and Virat kohli.
- Gautam Gambhir , Rohot sharma and Robin uthappa are other notable mentions Who have hit more than 500 boundaries



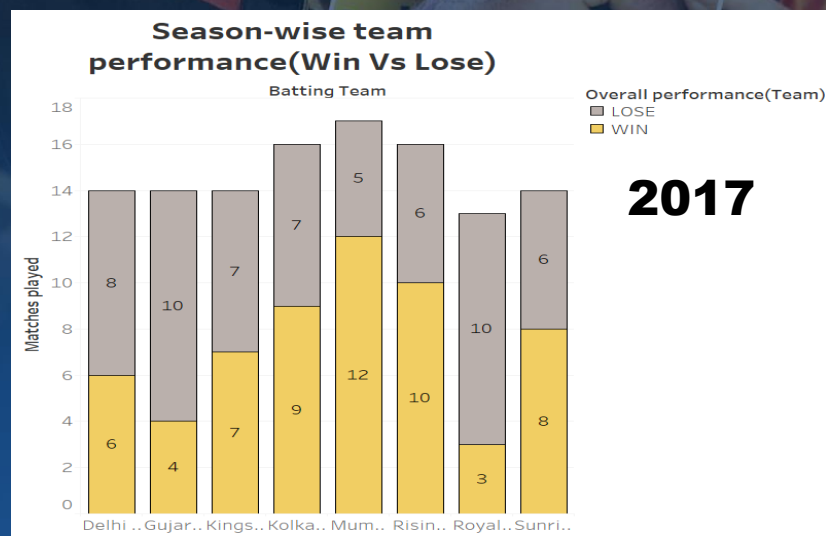
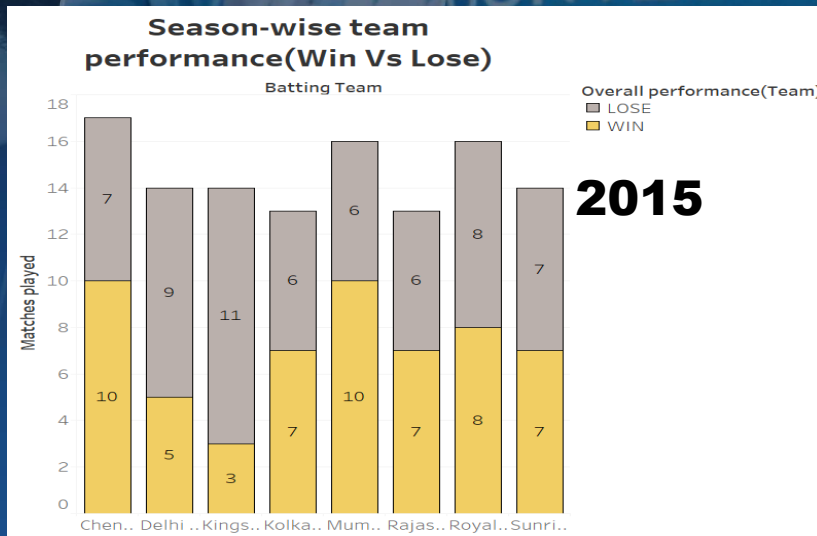
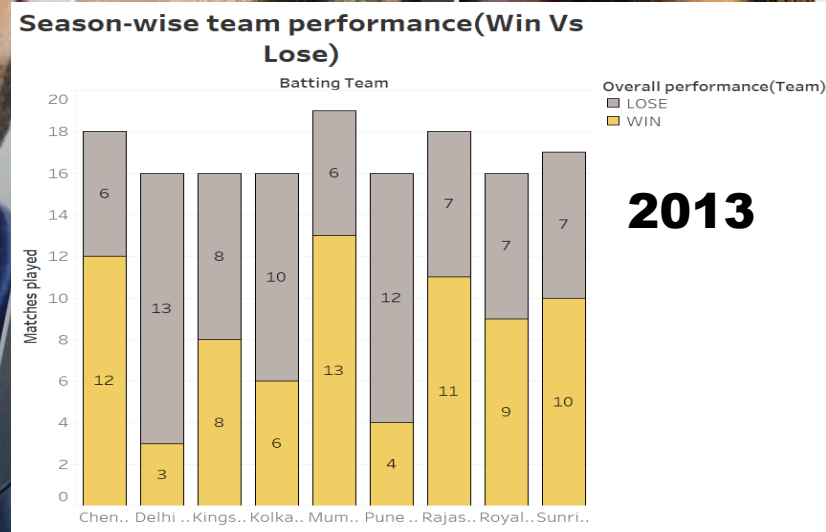
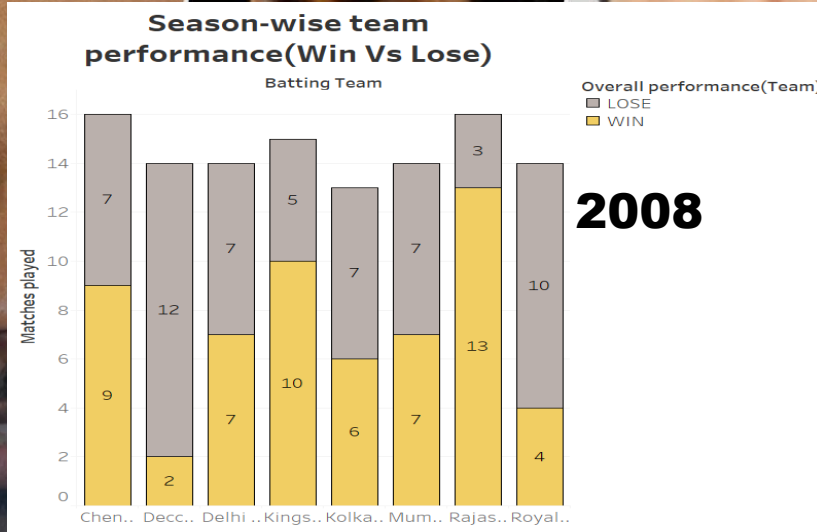


TEAM STATISTICS

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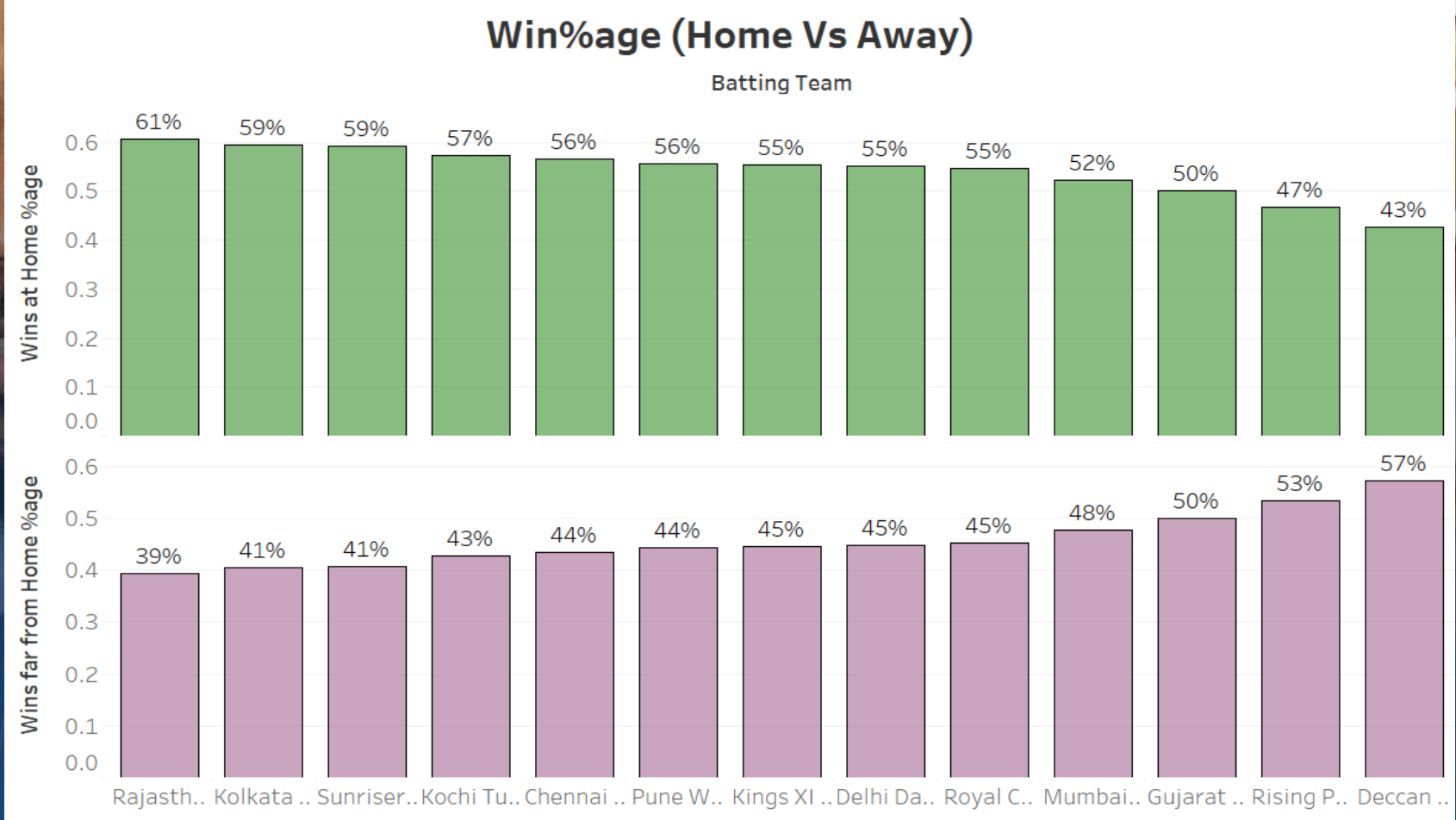
Season-wise team performance (wins vs losses)



- In 2008, Rajasthan royals won 13 out of the 16 Matches they played.
- In 2013, Mumbai Indians won 13 out of the 19 Matches they played.
- In 2015, Chennai super kings won 10 out of 17 Matches they played whereas Mumbai Indians won 10 out of 16 matches .
- In 2017, Mumbai Indians was the most successful team where they won 12 out of 17 Matches.
- Mumbai Indians has been the most successful team in terms of winning matches .



Win %age (home vs away)



• Rajasthan royals has been the most successful team at home ground followed by Kolkata Knight riders and Sunrisers Hyderabad.

• Deccan Chargers, Rising pune supergiants and Gujrat lions are most successful when playing away From home.



Summary

- Mumbai Indians has been the most successful team in IPL so far followed by Royal Challengers Bangalore and Chennai Super kings.
- Big hitters like Chris Gayle and David Warner are always good assets for their team.
- The Combination of Virat Kohli and Chris Gayle over the years in Royal Challengers Bangalore has been crucial for their success.
- Suresh Raina has been a consistent boundary scorer across all seasons of the IPL.
- The Most successful bowlers in IPL have been B Kumar and DJ Bravo.
- Royal Challengers Bangalore has had some of the biggest total runs across all seasons.
- Chennai Super Kings have been consistently scoring above 200 runs in almost every season.
- Toss winning and winning of match as no direct relationship with the stadium venue but some teams such as Rajasthan Royals, KKR and Hyderabad play good at home.

