

IPL VISUALISATION 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. It sees participation from both national and international players, and eight teams representing eight Indian cities compete with each other in a double round-robin format in the league stages, which are followed by playoffs.

You work as a data analyst at IFP, a nationally recognized news agency, which is based out of New Delhi, and provides news reports and feeds to magazines, newspapers and TV broadcasters all over the country.

Data:

matches.csv - It contains match-level information for each and every match held in IPL from 2008 to 2017.

deliveries.csv - It contains ball-by-ball information for each of the matches.

Combining the information in these two data sets, you will be creating an interactive dashboard that highlights some of the important statistics of IPL over the years.

SOLUTION:

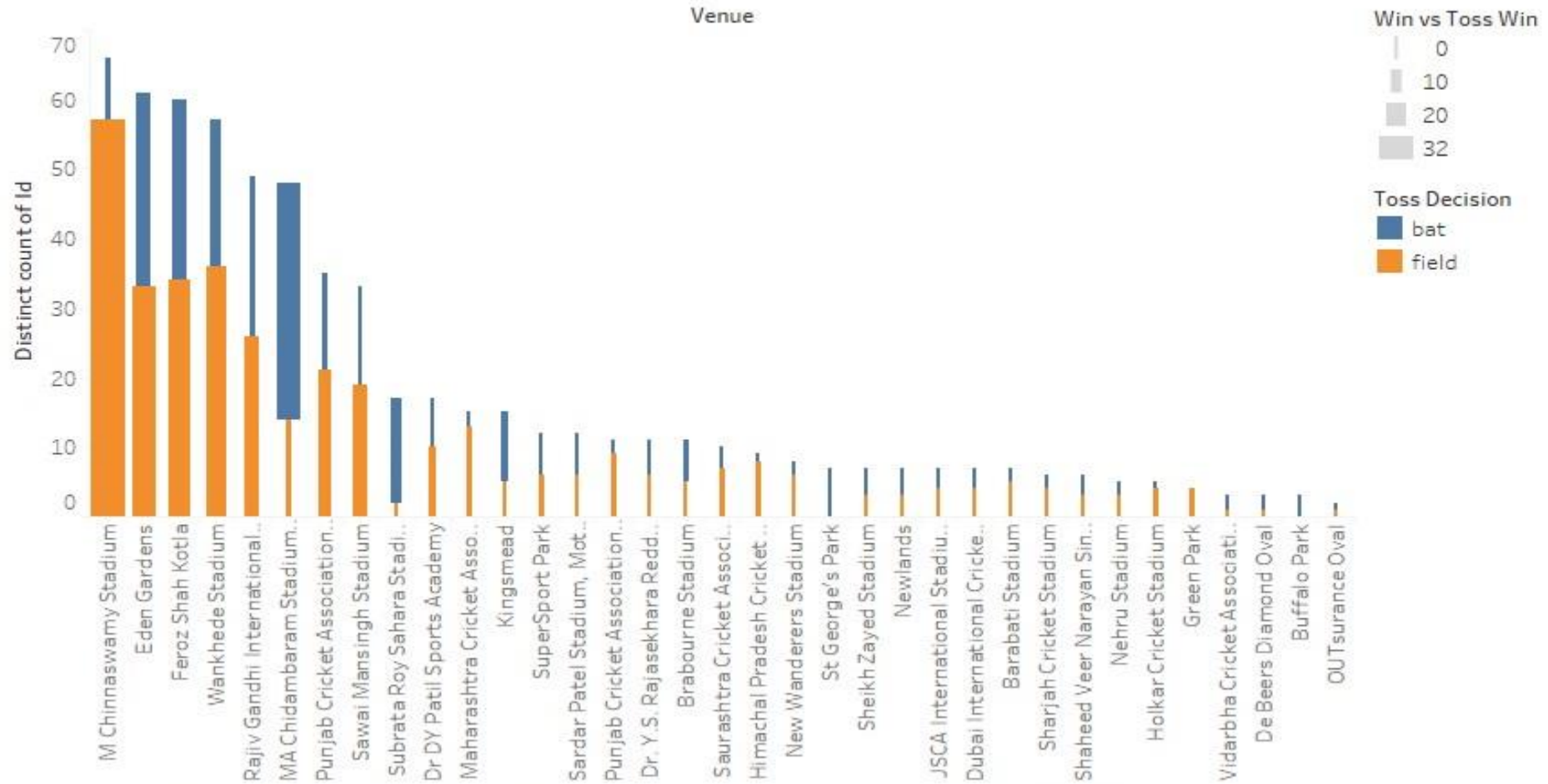
We will create a visualization charts and dashboards in Tableau and a PDF containing the useful insights.

We will focus on:

- Match Statistics
- Player Statistics
- Team Statistics

MATCH STATISTICS

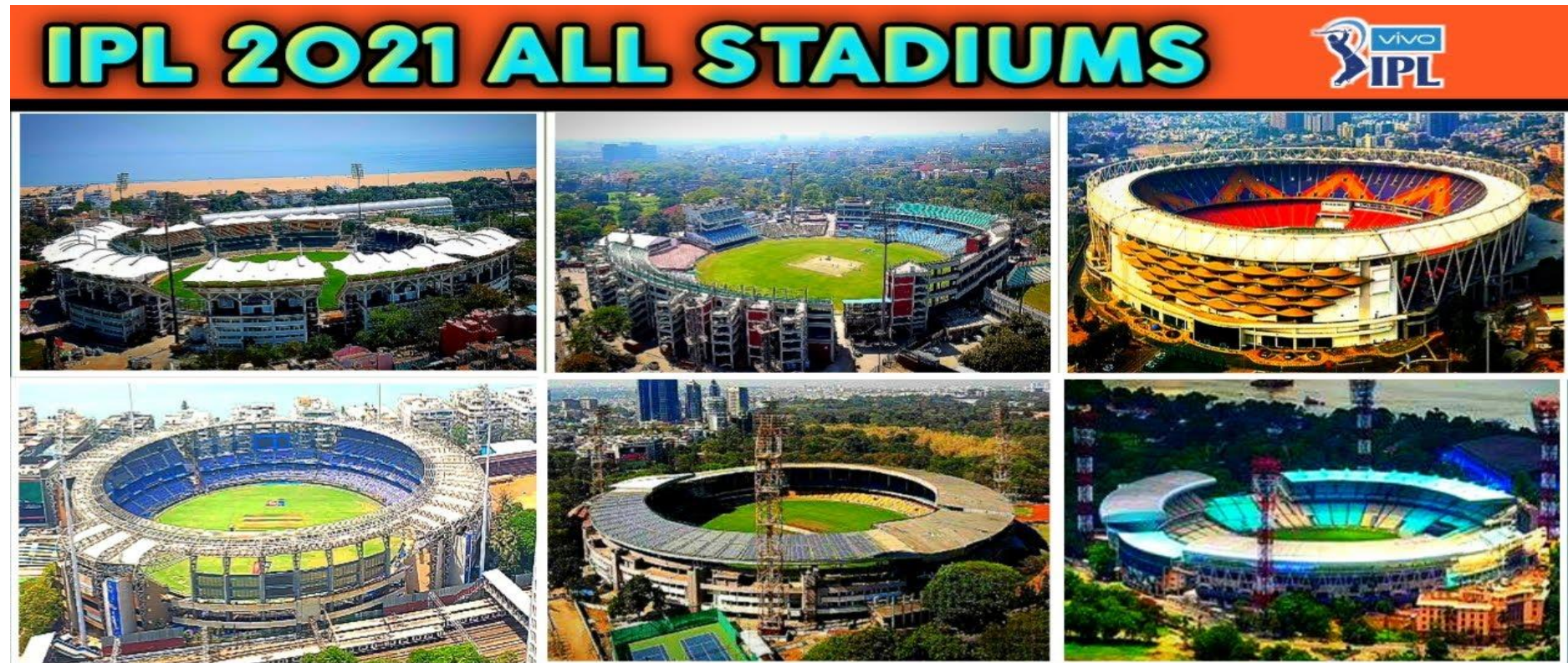
Toss Outcome vs match Outcome



Distinct count of Id for each Venue. Color shows details about Toss Decision. Size shows sum of Win vs Toss Win.

INSIGHTS

- So here we have created a chart that shows Toss outcome vs. Match outcome for each venue across all seasons ranging 2008 to 2017. i.e. it shows how many matches were played in a stadium, how many toss winners also won the match based on their fielding or batting decision.
- Here we can see the stadium with most number of matches is M Chinnaswamy Stadium.
- The teams won 32 out of 57 matches played in the stadium when they won the toss and decided to field first and won 4 out of 9 matches played when they won toss and decided to bat.
- Also if you look overall mostly teams have won the toss and the match when they decided to field first rather than batting.



Biggest Win by Runs and Wickets



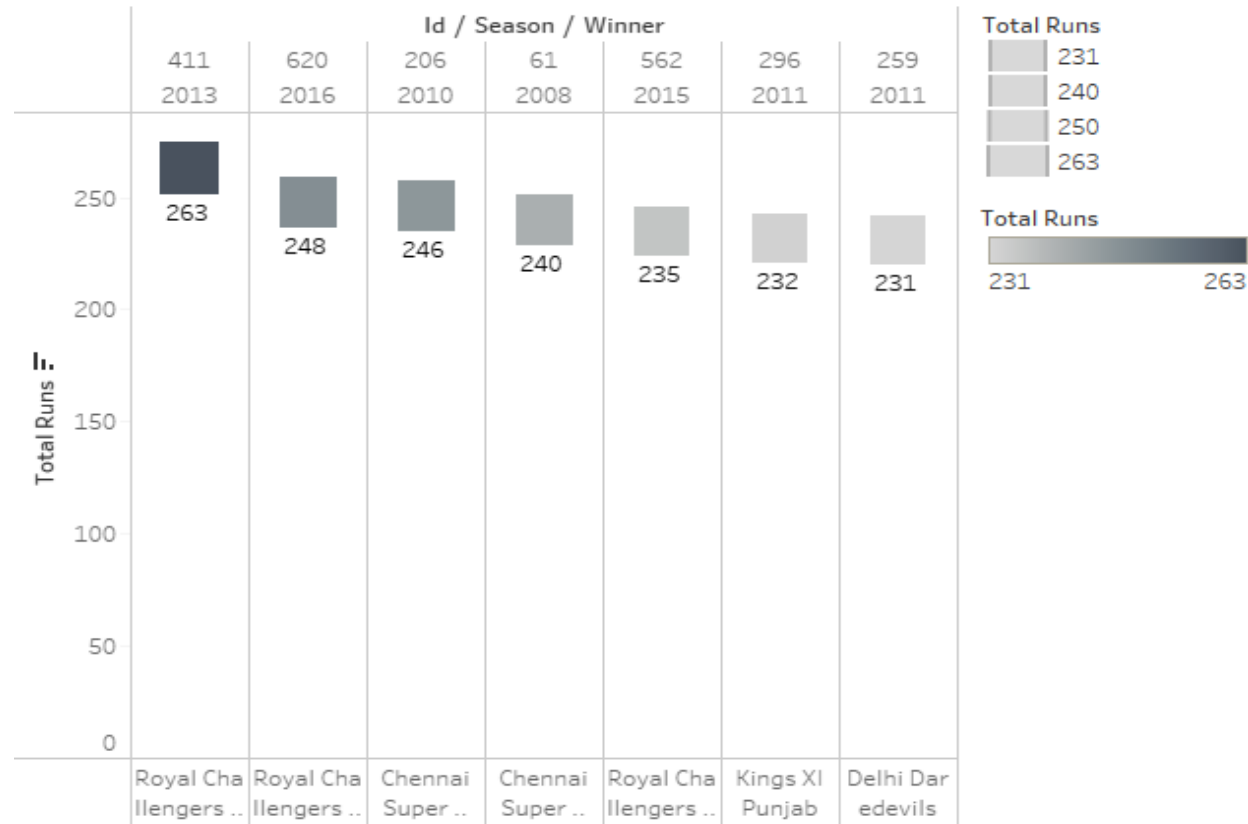
Win By Runs and Win By Wickets for each Winner. Color shows details about Win By Runs and Win By Wickets. The marks are labeled by Win By Runs and Win By Wickets. The view is filtered on Winner, which excludes Null.

INSIGHTS

- This chart shows the wins of the teams of IPL with respect to the number of runs and number of wickets. I.e. the teams who have made most wins with either maximum number of runs or maximum number of wickets across all the season ranging 2008 to 2017.
- So here we can see Mumbai Indians tops the list with victory by maximum runs of 146 and 10 wickets across all the seasons ranging 2008 to 2017.
- We can also major portion of teams have victory by maximum 10 wickets.



Highest Totals



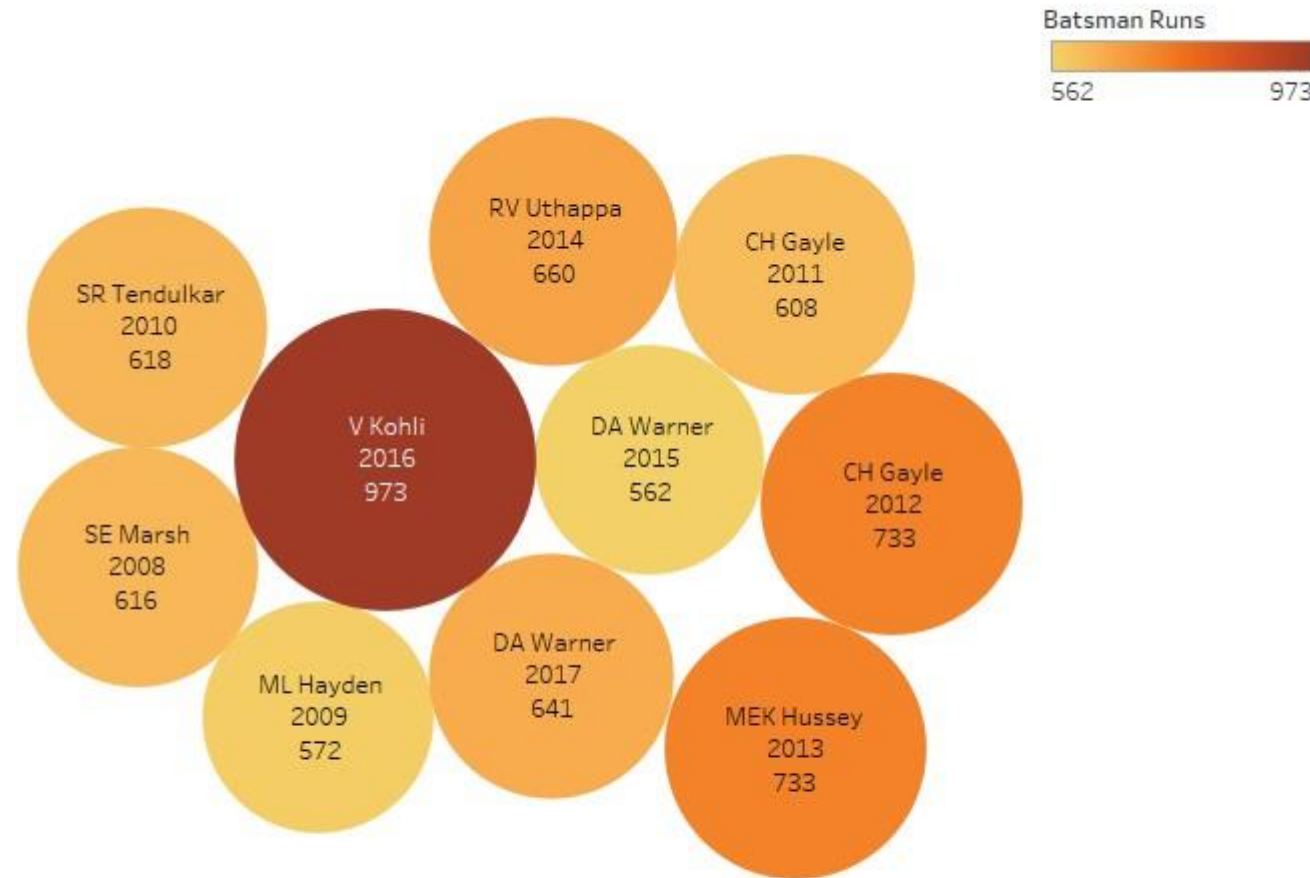
Sum of Total Runs for each Winner broken down by Id and Season. Color shows sum of Total Runs. Size shows sum of Total Runs. The marks are labeled by sum of Total Runs. The data is filtered on Id_inning, which keeps 7 of 1,284 members. The view is filtered on Season, which keeps 10 of 10 members.

INSIGHTS

- This chart shows the highest totals across all the season ranging 2008 to 2017. I.e. which team of the IPL has scored highest number of total runs across all the seasons.
- We can see Royal challenger tops the list with 263 runs in the year 2013 and year 2016 with 248 runs.
- Followed by chennai superkings with total runs of 246 in the year 2010.
- In this chart we have showed the top 7.

PLAYER STATISTICS

Orange Cap Winners



Batsman, Season and sum of Batsman Runs. Color shows sum of Batsman Runs. Size shows sum of Batsman Runs. The marks are labeled by Batsman, Season and sum of Batsman Runs. The view is filtered on Inclusions (Batsman,Season), which keeps 10 members.

INSIGHTS

- This chart shows the Orange Cap winners.i.e. the batsman who have scored the maximum number of runs in a particular season ranging from 2008 to 2017.
- We can see in the first season i.e. 2008, SE Marsh won the Orange Cap with 616 runs.
- In the season 2017 DA Warner won the Orange Cap.
- Also if you look overall then Virat kholi tops the list of winners with 973 runs. He won the Orange cap in 2016.
- They are followed by CH Gayle and DA Warner with 733 runs each.
- Also CH Gayle and DA Warner have won the Orange Cap twice.



ORANGE CAP WINNERS IPL 2008 - 2017



2008	2009	2010	2011	2012
2013	2014	2015	2016	2017

Purple Cap Winners

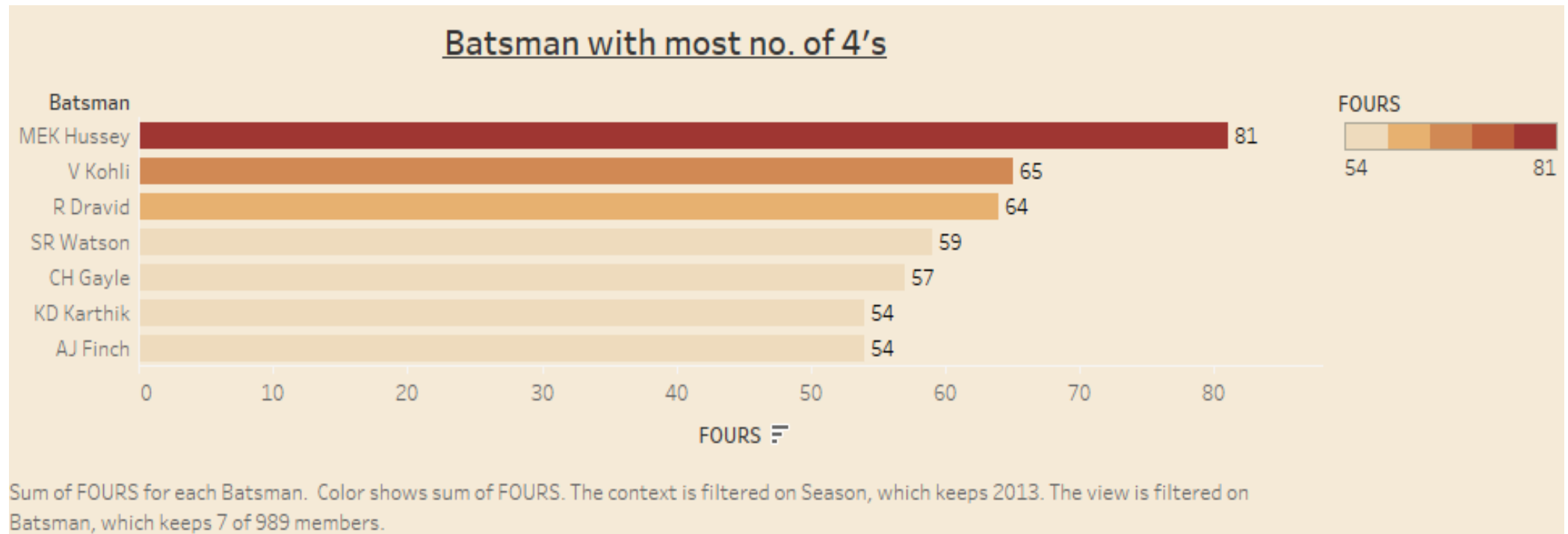


Bowler, Season and sum of Wicket Taken. Color shows sum of Wicket Taken. Size shows sum of Wicket Taken. The marks are labeled by Bowler, Season and sum of Wicket Taken. The view is filtered on Inclusions (Bowler,Season), which keeps 10 members.

INSIGHTS

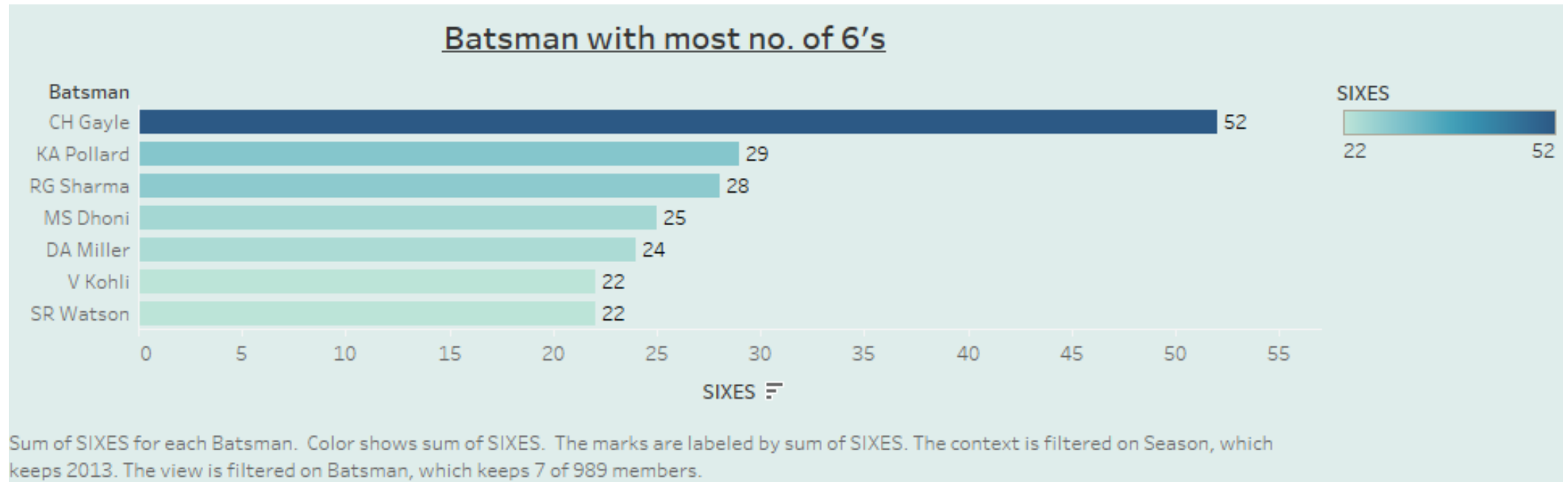
- This chart shows the Purple Cap Winners. I.e. The bowlers who have taken the maximum number of wickets.
- Here we can see the first season Purple Cap winner is Sohail Tanvir with 22 wickets.
- The season 2017 winner is B Kumar with 26 wickets.
- Overall if you see DJ Bravo tops the list with 32 wickets, he won in 2013.
- Also if notice DJ Bravo and B Kumar have won the Purple Cap twice.





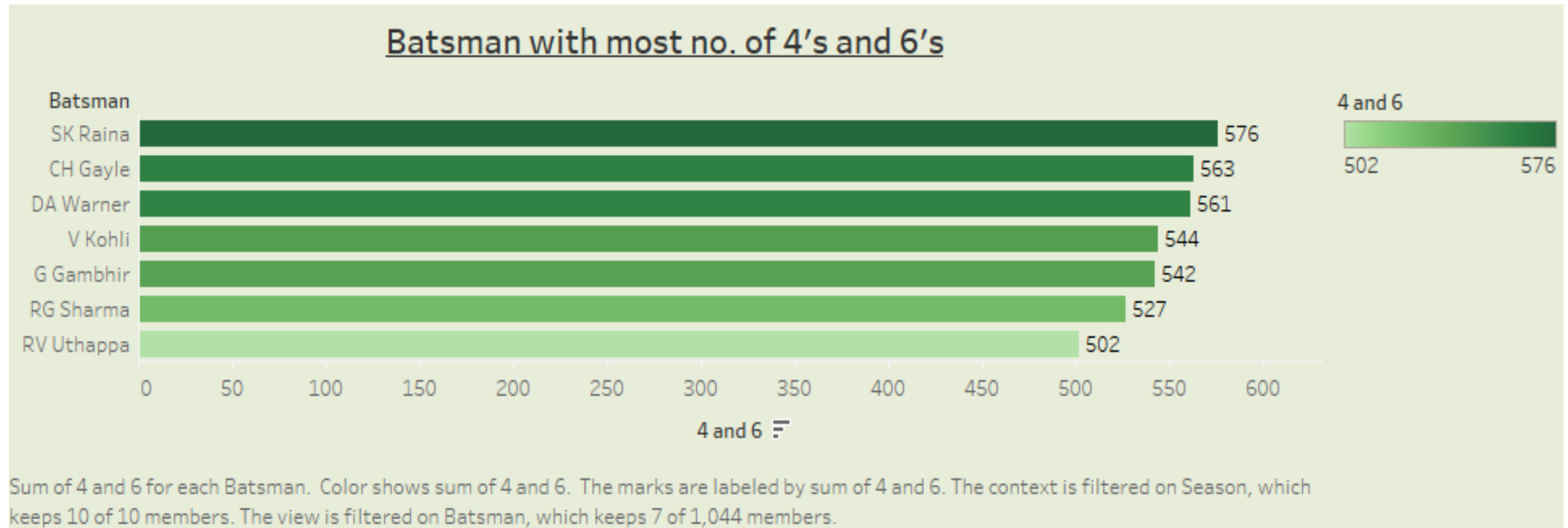
INSIGHTS

- This chart shows the batsman with most number of 4's across each season.
- Here we have selected the season 2013, the batsman with most number of 4's is MEK Hussey with 81 4's.
- Followed by Virat Kohli with 65 4's.
- Also here we have selected the top 7 batsman ranking based on their total number of 4's across each seasons.
- Similarly you can check for different season or even across all the seasons from the tableau Notebook.



INSIGHTS

- This chart shows the batsman with most number of 6's across each season.
- Here we have selected the season 2013, the batsman with most number of 6's is CH Gayle with 52 6's.
- Followed by KA Pollard with 29 6's.
- Also here we have selected the top 7 batsman ranking based on their total number of 6's across each seasons.
- Similarly you can check for different season or even across all the seasons from the tableau Notebook.



INSIGHTS

- This chart shows the batsman with most number of 4's and 6's combined across all the seasons. Ranging 2008 to 2017.
- We can see across all the season SK Raina has scored the most number of 4's and 6's with total combined of 576 4's and 6's.
- Also here we have selected the top 7 batsman ranking based on their total number of combined 4's and 6's across all the seasons.
- Likewise you can check for each season as well from the Tableau Notebook.

TEAM STATISTICS

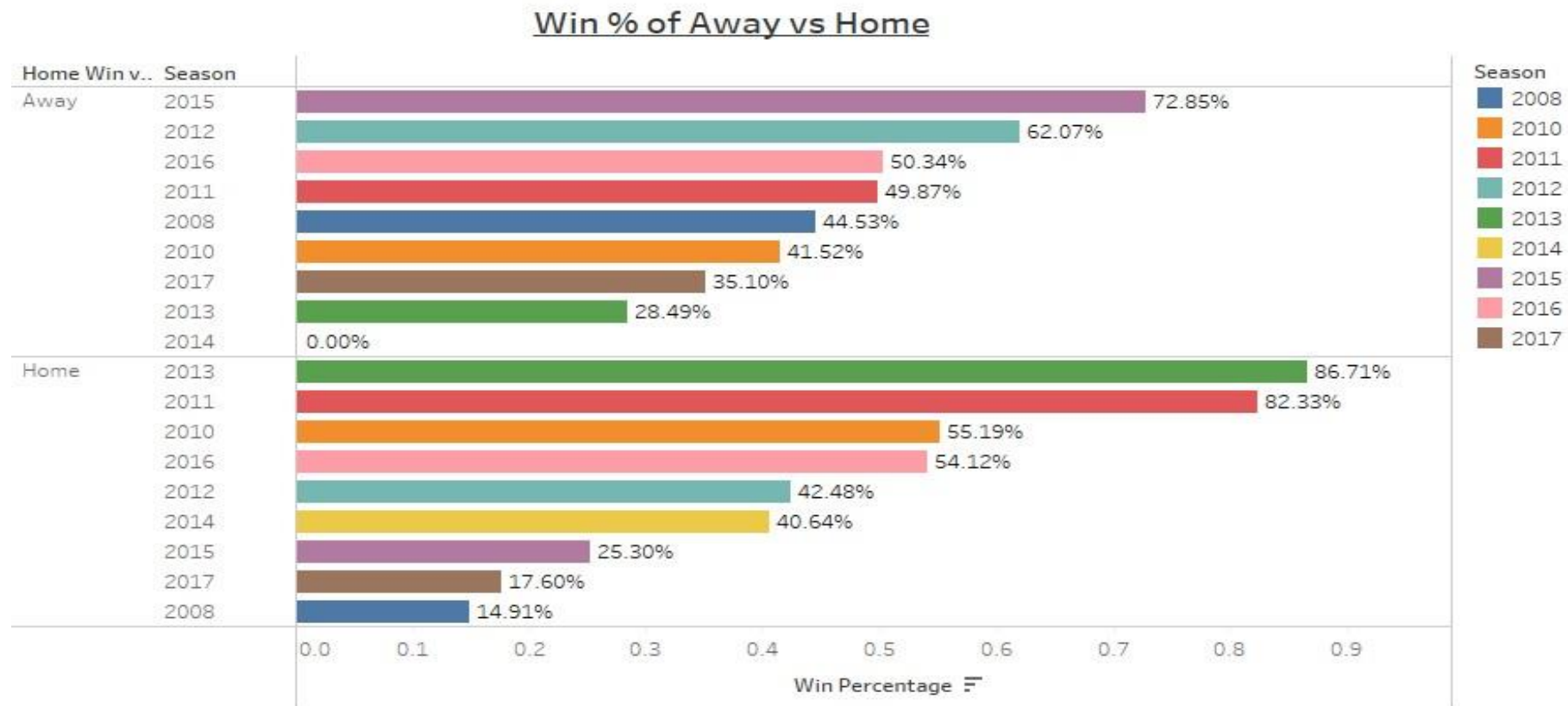
Season wise Wins vs Losses

Batting Team	Matches Played	Wins	Losses	Win %
Mumbai Indians	157.0	92.0	65.0	58.6
Chennai Super Kings	131.0	79.0	52.0	60.3
Kolkata Knight Riders	148.0	77.0	71.0	52.0
Royal Challengers Bangalore	152.0	73.0	77.0	48.0
Kings XI Punjab	148.0	70.0	78.0	47.3
Rajasthan Royals	117.0	63.0	54.0	53.8
Delhi Daredevils	147.0	62.0	83.0	42.2
Sunrisers Hyderabad	76.0	42.0	34.0	55.3
Deccan Chargers	75.0	29.0	46.0	38.7
Rising Pune Supergiants	30.0	15.0	15.0	50.0
Gujarat Lions	30.0	13.0	17.0	43.3
Pune Warriors	45.0	12.0	33.0	26.7
Kochi Tuskers Kerala	14.0	6.0	8.0	42.9

Matches Played, Wins, Losses and Win % broken down by Batting Team. The data is filtered on Season, which keeps 10 of 10 members.

INSIGHTS

- This table shows Season wise team performance across all the season ranging 2008 to 2017. I.e. How many matches were played in total, how many were won and how many were lost by each team across all the seasons.
- So, here we can see the most number of matches were played by Mumbai Indians. i.e. a total of 157 matches played across all seasons.
- Also we can see Mumbai Indians has won 93 matches and lost 66



Win Percentage for each Season broken down by Home Win vs Away Win. Color shows details about Season. The marks are labeled by Win Percentage. The data is filtered on Season (matches+), which keeps 10 of 10 members. The view is filtered on Home Win vs Away Win, which keeps Away and Home.

INSIGHTS

- This chart shows the win% of a particular Team when it played on its home ground vs the away ground across all the seasons ranging from 2008 to 2017.
- So, here we have selected the Team Royal Challengers Bangalore.
- As we can see the Teams win% for each season depending on away ground and home ground.
- We can notice the team has a higher winning percentage in the Home ground.
- Similarly we can check for other teams aswell going to the Tableau Notebook and selecting the team of our choice.



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THE END