



IPL Data Analysis

Problem Statement

Build an interactive dashboard in Tableau with visual representations of the statistics after trying out the different filters and customizations on IPL Data.

For this we have 2 different datasets of IPL, provide by news agency, which is based out of New Delhi.

After Combining the information in these two data sets create an interactive dashboard that highlights some of the important statistics of IPL over the years.

Flow of the Analysis

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)

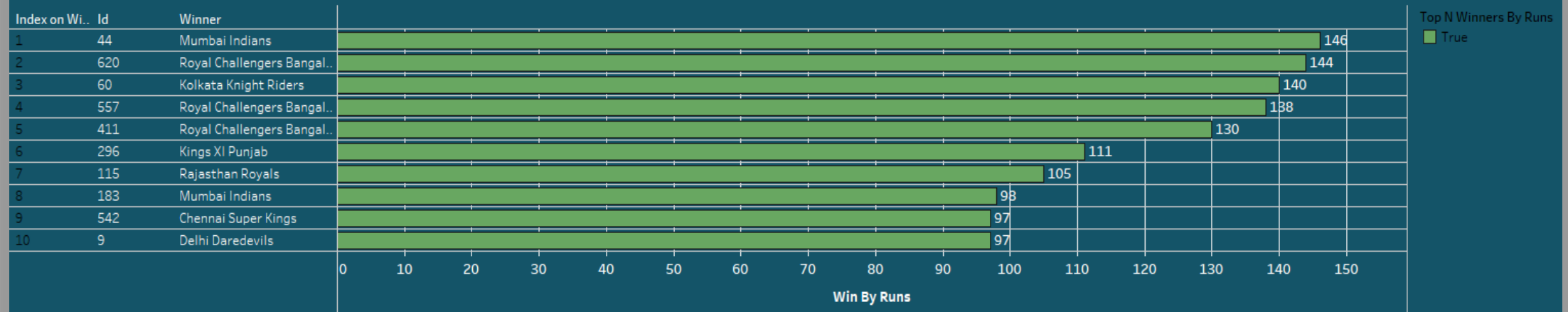
the image shows 196 matches were won by the team who chose to field first after winning the toss. And After losing the toss, 167 times matches were won. In both the cases (Winning and losing), team who chose to bat first, have less number of wining count.



Biggest wins (by runs and by wicket)

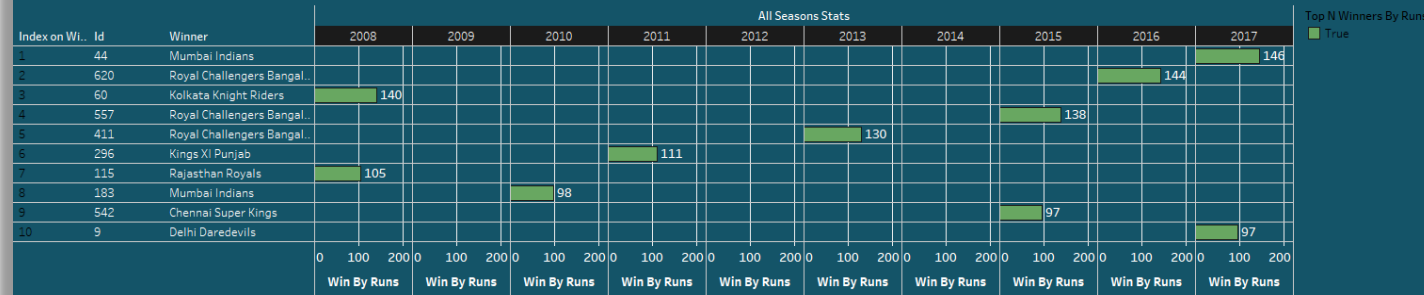
In all the Seasons, after doing analysis, it has been found that Mumbai Indians had their biggest win in 2017.

Win By Runs- Used Indexing with True and False for Top 10 Highest Winners by Runs



Sum of Win By Runs for each Index on Winners by Runs broken down by Id and Winner. Color shows details about Top N Winners By Runs. The marks are labeled by sum of Win By Runs. The view is filtered on Winner and Top N Winners By Runs. The Winner filter has multiple members selected. The Top N Winners By Runs filter keeps True.

Win By Runs- Used Indexing with True and False for Top 10 Highest Winners by Runs



Sum of Win By Runs for each Index on Winners by Runs broken down by All Seasons Stats vs. Id and Winner. Color shows details about Top N Winners By Runs. The marks are labeled by sum of Win By Runs. The view is filtered on Winner and Top N Winners By Runs. The Winner filter has multiple members selected. The Top N Winners By Runs filter keeps True.

This chart shows when those biggest win matches were played

Win By Wickets

If we see the table and graph, we can observe the total number of biggest wins by Wicket.

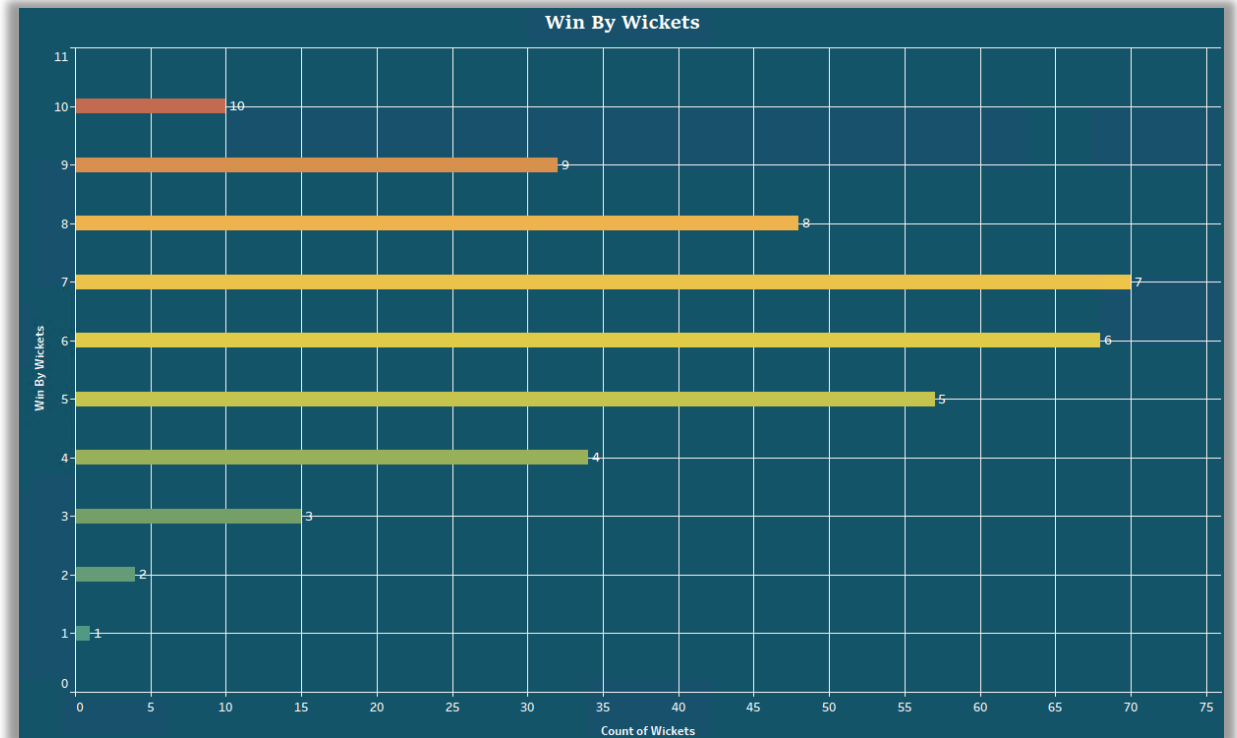
10 Times, Teams have won the matches with 10 wickets in hand.

And 70 times, Teams have won the matches with 7 wickets in hands.

Crosstab of the Graph:

Win By Wickets

| | |
|----|----|
| 1 | 1 |
| 2 | 4 |
| 3 | 15 |
| 4 | 34 |
| 5 | 57 |
| 6 | 68 |
| 7 | 70 |
| 8 | 48 |
| 9 | 32 |
| 10 | 10 |

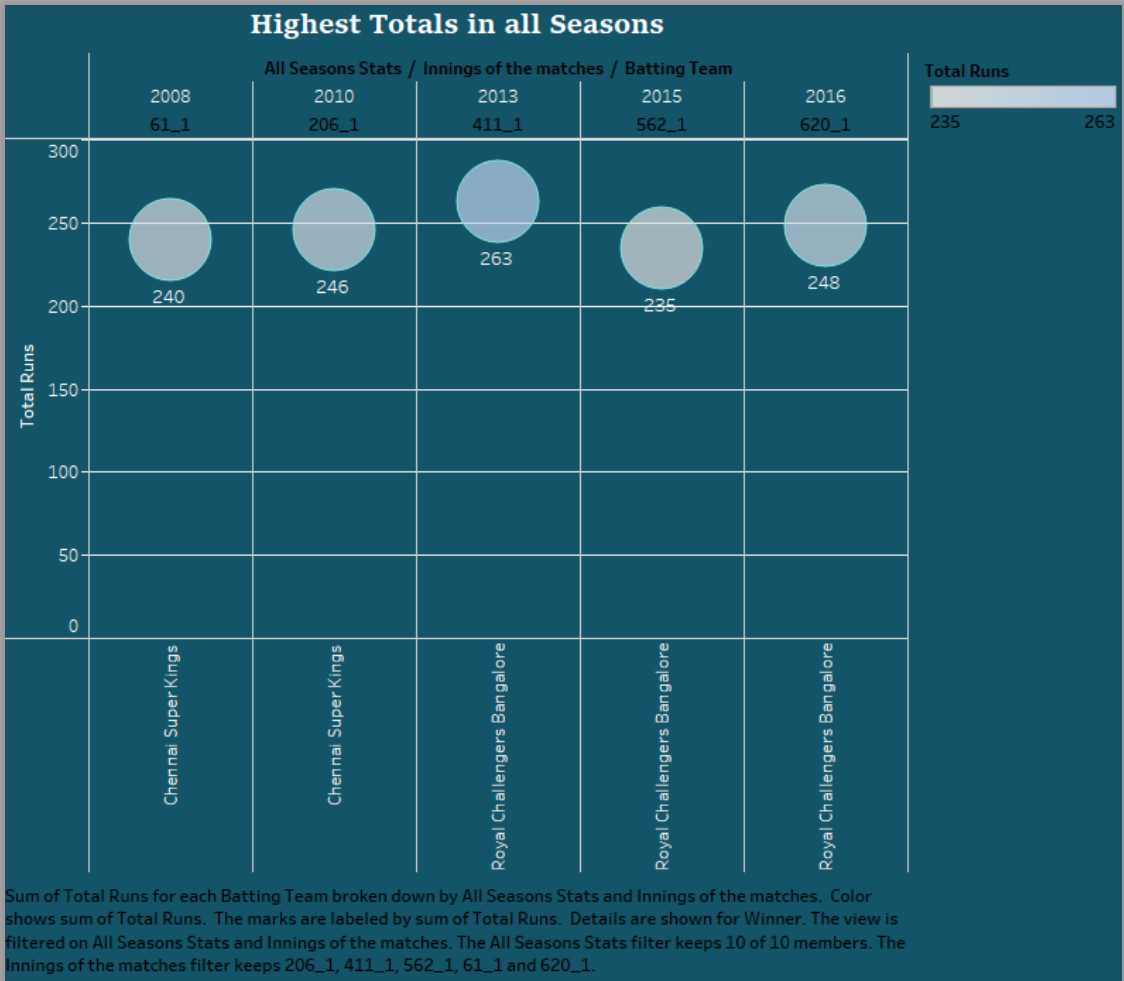


Highest totals (across all the seasons)

After filtering Top 5, highest totals, we can see the top 5 Teams who has done highest total in their respective innings.

Below Tree Map Shows the Name of the Team,

| | | | |
|--|--|--|--|
| Name of the Team: Royal Challengers Bangalore Year: 2013 Total Runs: 263 | Name of the Team: Royal Challengers Bangalore Year: 2015 Total Runs: 235 | Name of the Team: Chennai Super Kings Year: 2010 Total Runs: 246 | Name of the Team: Chennai Super Kings Year: 2008 Total Runs: 240 |
| Name of the Team: Royal Challengers Bangalore Year: 2016 Total Runs: 248 | | | |



Players Statistics

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

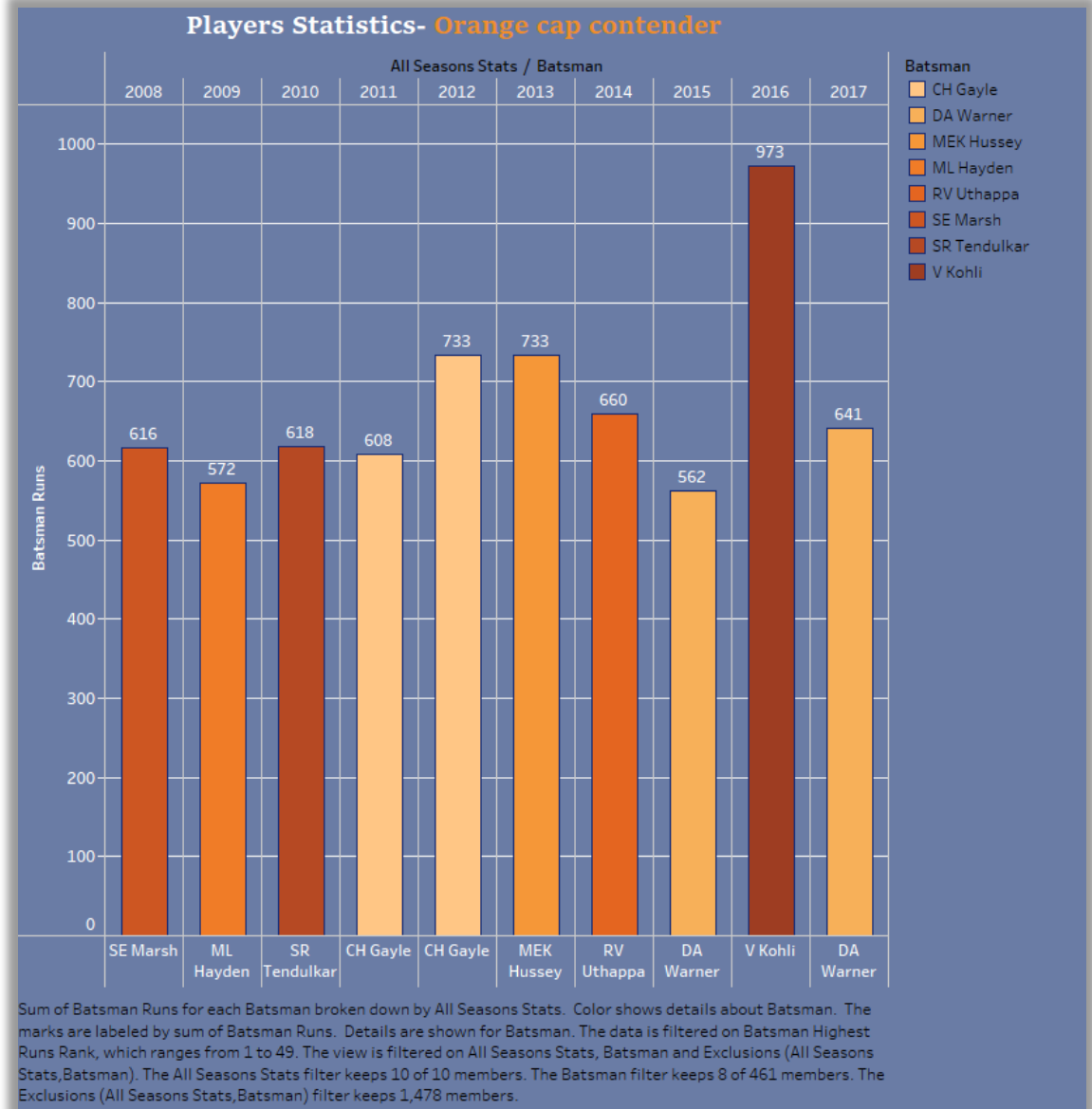
The Orange Cap is presented to the leading run scorer in the Indian Premier League

This chart shows all top batsmen who have maximum number of records in their names.

If we observe, CH Gayle and DA Warner are the batsmen who have won the orange cap 2 Times i.e. in Year 2011,2012 and in 2015 and 641 respectively.

Kohli has done the highest run in any particular season i.e 973 Runs in 2016.

Similarly other batsmen who won this title are: Marsh, Hayden, Tendulkar, Hussey, Uthappa, Warner



Purple Cap contenders (The bowlers who have taken the maximum number of wickets in a particular season) The Purple Cap is presented to the leading wicket-taker in the IPL

this chart shows the maximum number of wickets takers and has won the title.

only B Kumar and DJ Bravo have won the Purple Cap twice

| Bowler | All Seasons .. | Wickets |
|---------------|----------------|---------|
| B Kumar | 2016 | 24 |
| | 2017 | 28 |
| DJ Bravo | 2013 | 34 |
| | 2015 | 28 |
| M Morkel | 2012 | 30 |
| MM Sharma | 2014 | 26 |
| PP Ojha | 2010 | 22 |
| RP Singh | 2009 | 26 |
| SL Malinga | 2011 | 30 |
| Sohail Tanvir | 2008 | 24 |

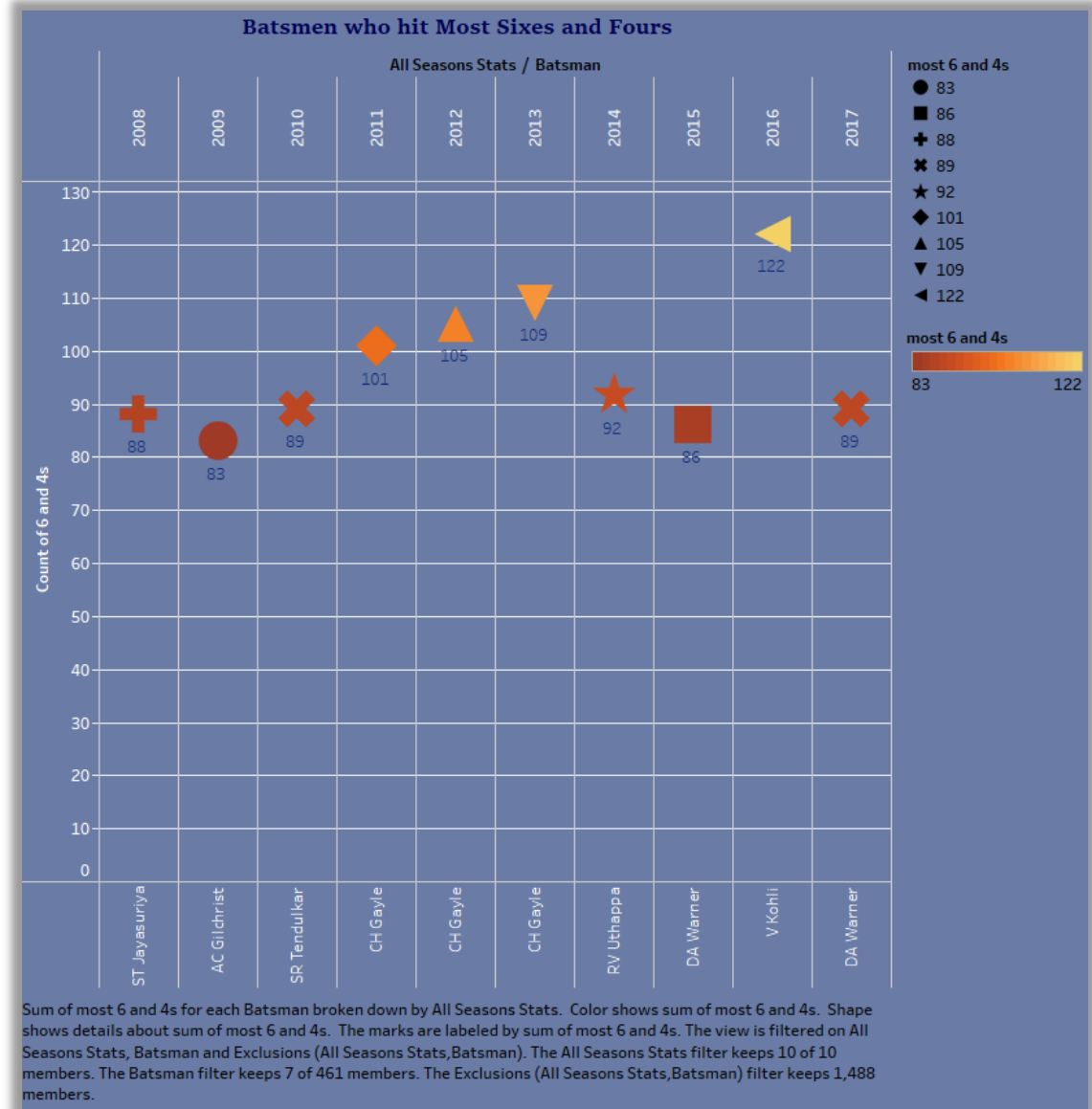


Batsmen who have hit the most number of fours and sixes Overall

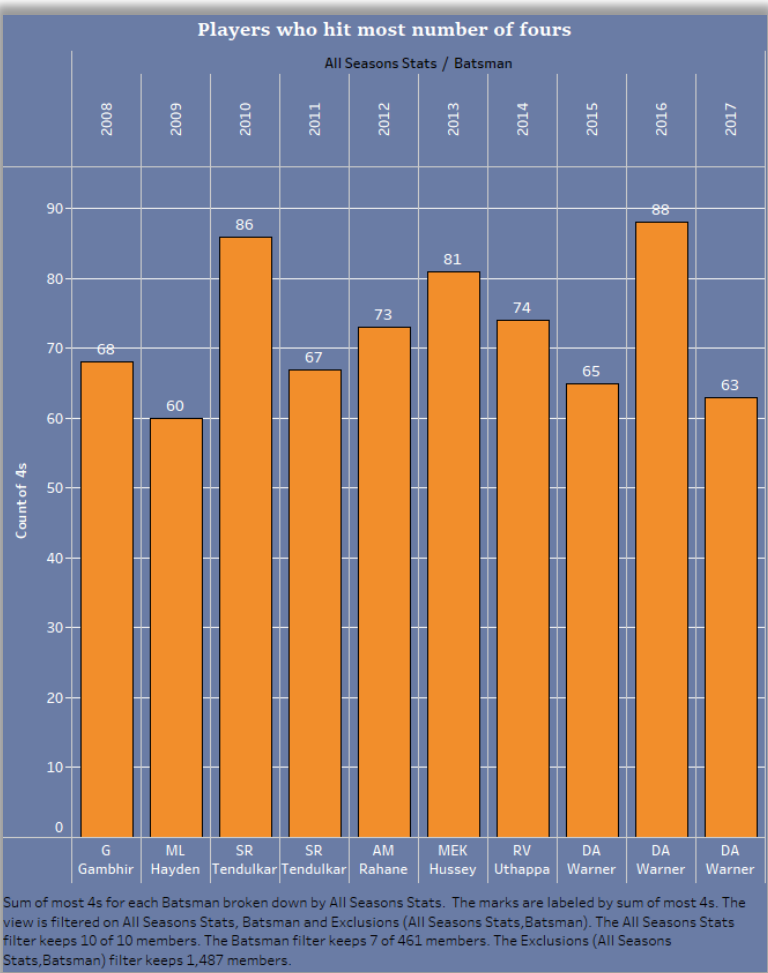
This graph tells us who has hit the overall maximum sixes and Fours in all seasons together.
In 2016, Kohli has hit the maximum number of sixes with the count 122

But if we observe below table, we can see CH Gayle has max number of 4s and 6s in his Name

| Batsman | All Seasons .. | |
|---------------|----------------|-----|
| AC Gilchrist | 2009 | 83 |
| CH Gayle | 2011 | 101 |
| | 2012 | 105 |
| | 2013 | 109 |
| DA Warner | 2015 | 86 |
| | 2017 | 89 |
| RV Uthappa | 2014 | 92 |
| SR Tendulkar | 2010 | 89 |
| ST Jayasuriya | 2008 | 88 |
| V Kohli | 2016 | 122 |

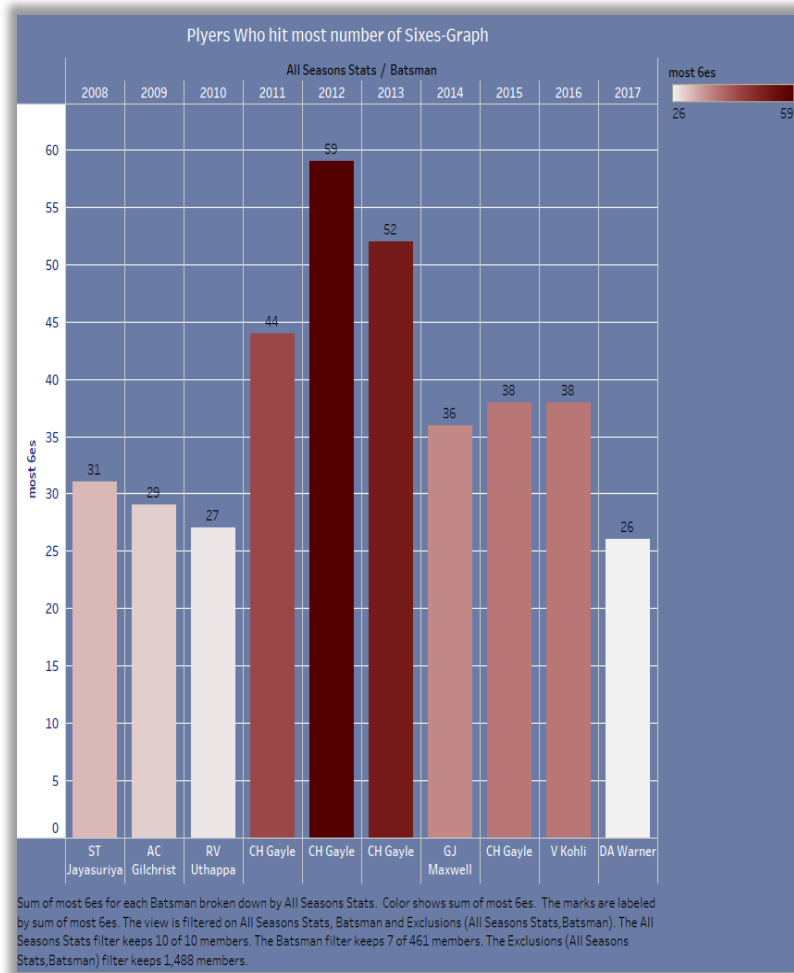


Batsmen who have hit the most number of fours and sixes per season



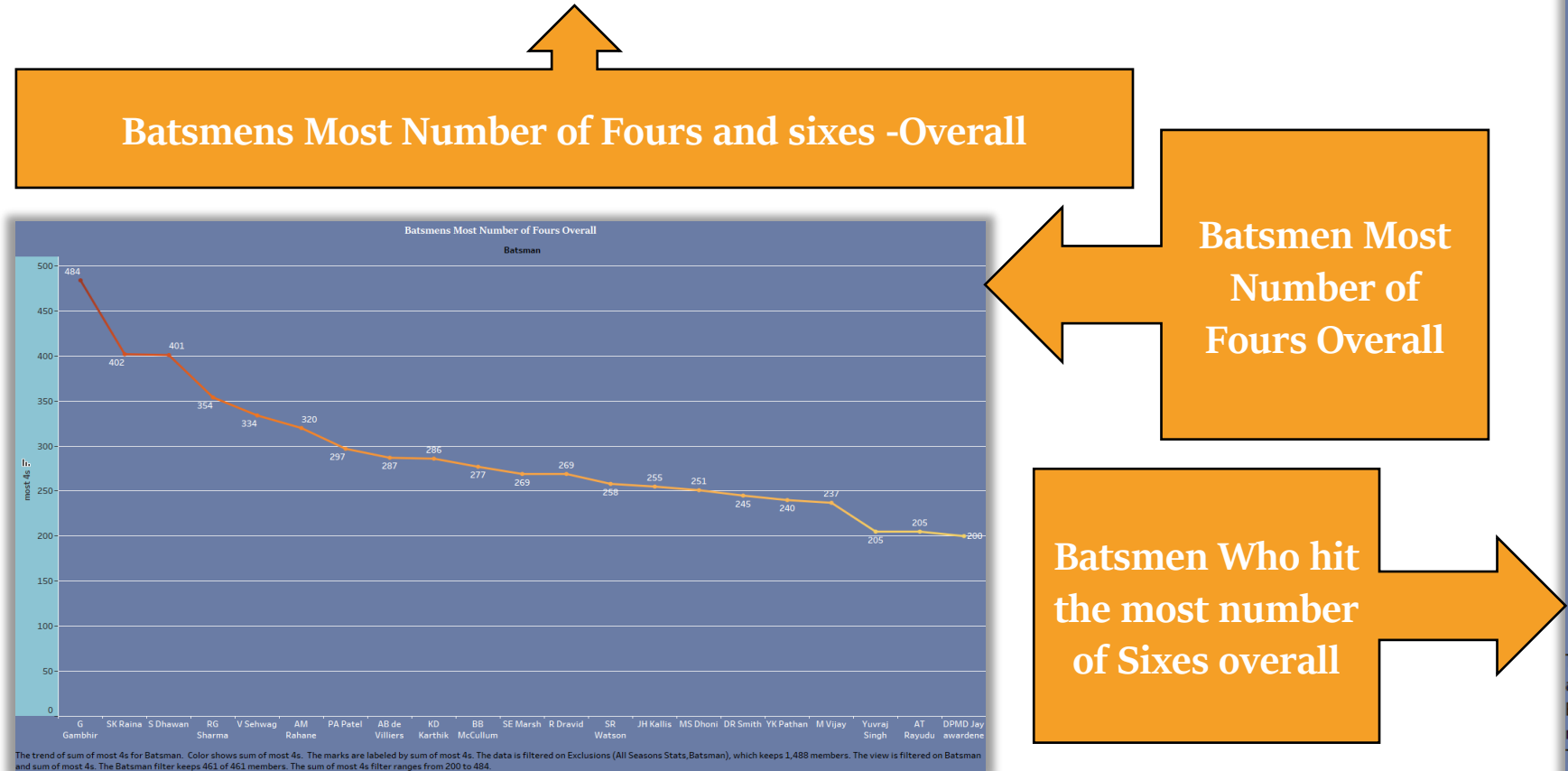
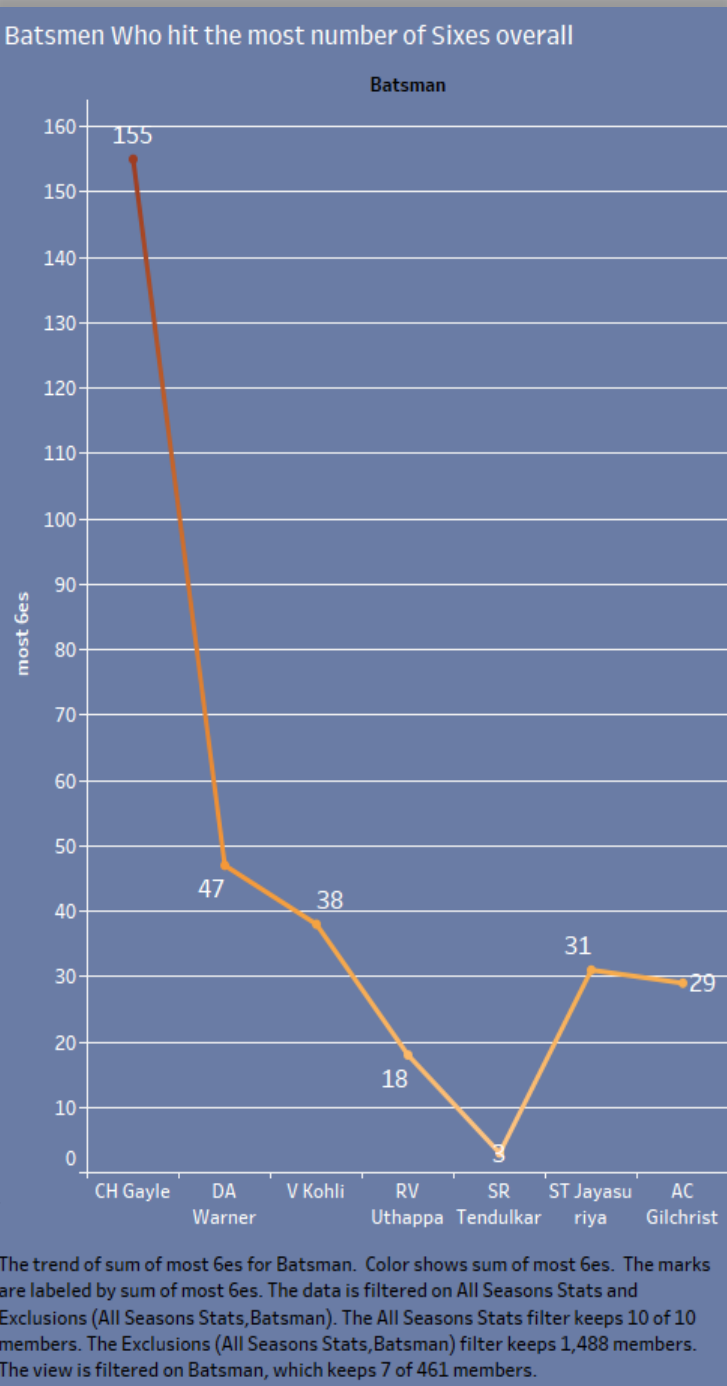
| Batsman | All Seasons .. | |
|--------------|----------------|----|
| AM Rahane | 2012 | 73 |
| DA Warner | 2015 | 65 |
| | 2016 | 88 |
| | 2017 | 63 |
| G Gambhir | 2008 | 68 |
| MEK Hussey | 2013 | 81 |
| ML Hayden | 2009 | 60 |
| RV Uthappa | 2014 | 74 |
| SR Tendulkar | 2010 | 86 |
| | 2011 | 67 |

While Considering max number of sixes, w can say that Warner has been the star of all season. He has hit the most number of sixes in three different seasons.



| Batsman | All Seasons .. | |
|---------------|----------------|----|
| AC Gilchrist | 2009 | 29 |
| CH Gayle | 2011 | 44 |
| | 2012 | 59 |
| | 2013 | 52 |
| | 2015 | 38 |
| DA Warner | 2017 | 26 |
| GJ Maxwell | 2014 | 36 |
| RV Uthappa | 2010 | 27 |
| ST Jayasuriya | 2008 | 31 |
| V Kohli | 2016 | 38 |

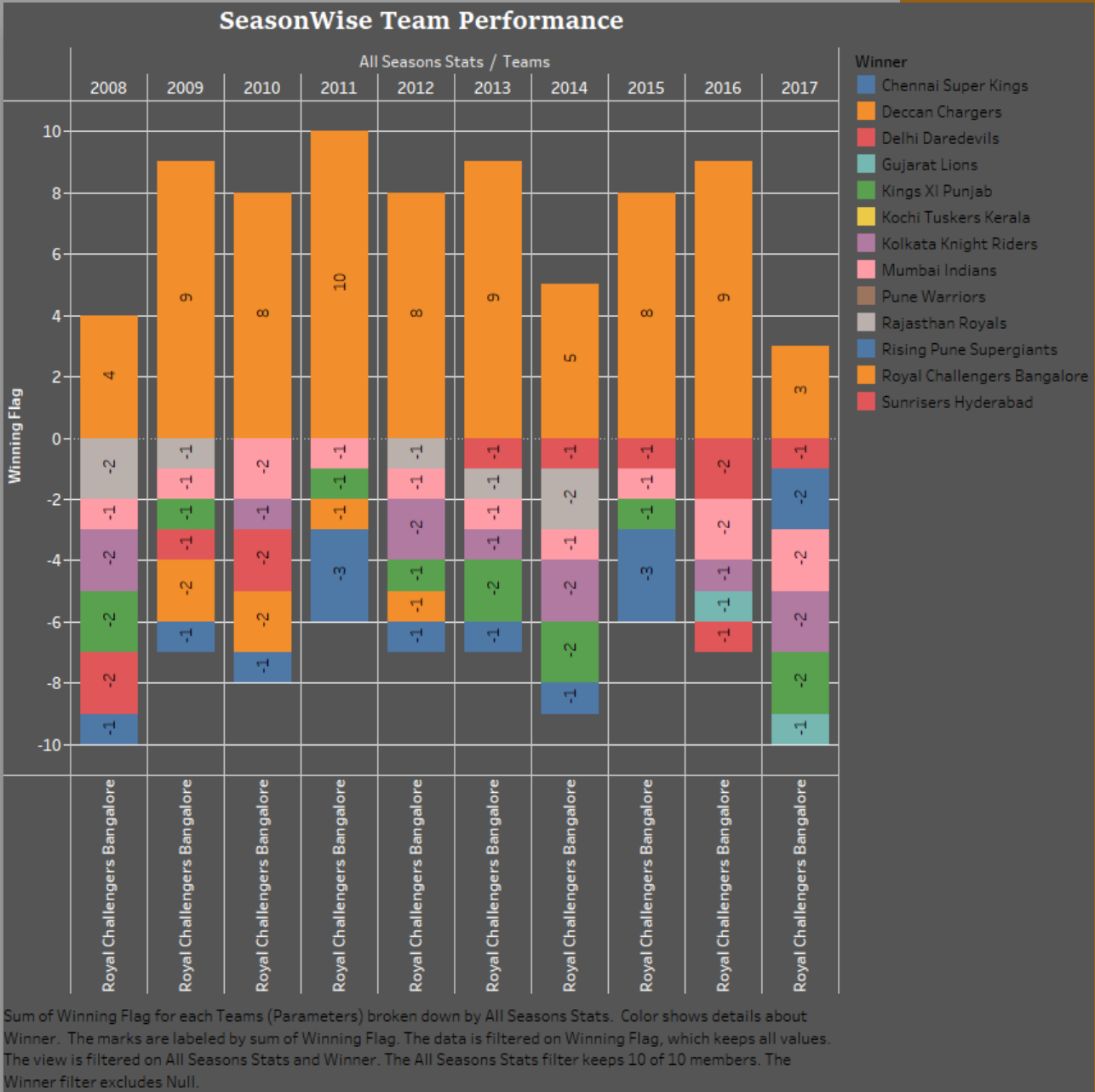
This graph and below chart shows Ch Gayle is the boss of sixes. In Years 2011,12,13,15, he has hit most number of sixes.



Team Statistics

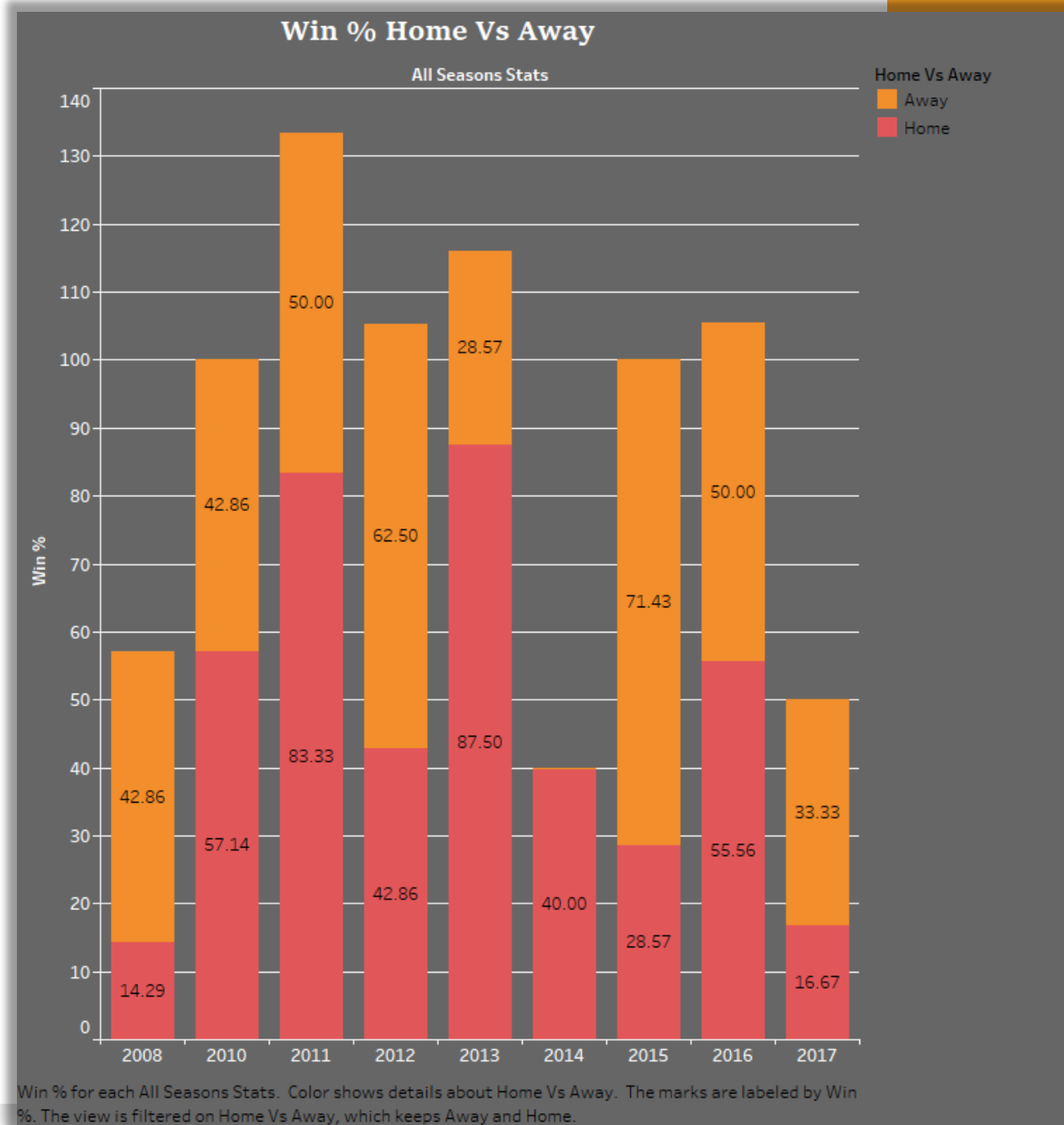
Season-wise team performance (wins vs losses)

The Chart shows all team performances of each season



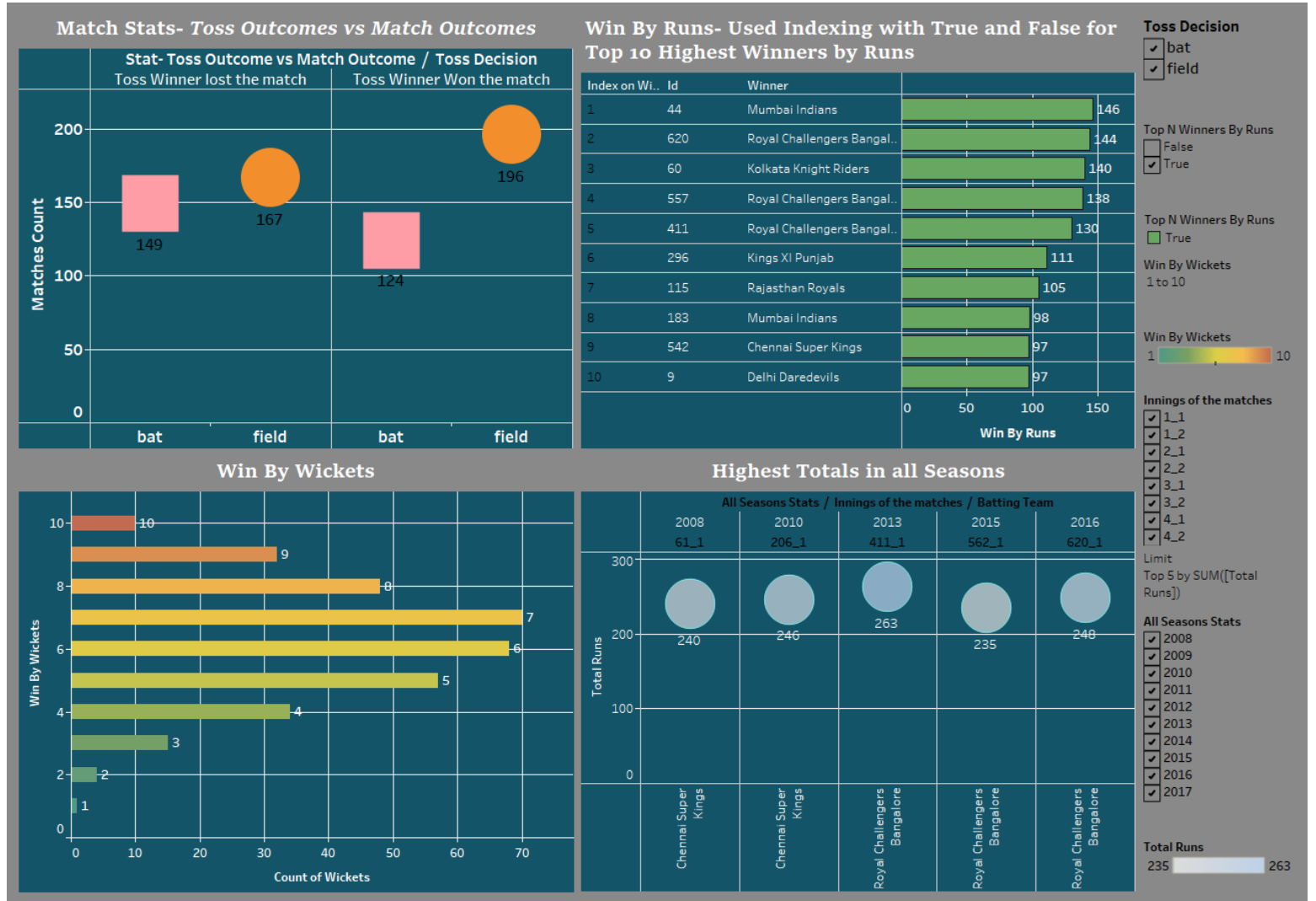


Win %age (home vs away)



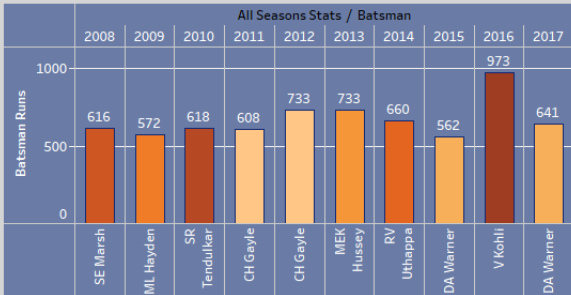
Dashboards

Match Stats Dashboards

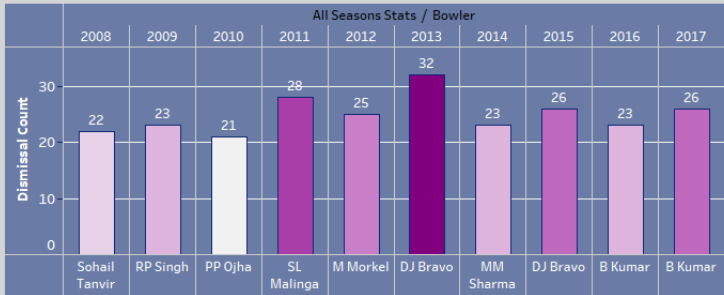


Player Statistics Dashboard

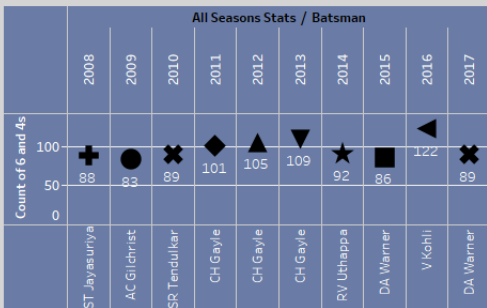
Orange cap contender

All Seasons Stats
All

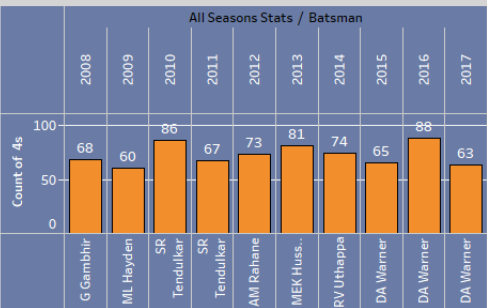
purple Cap Contender



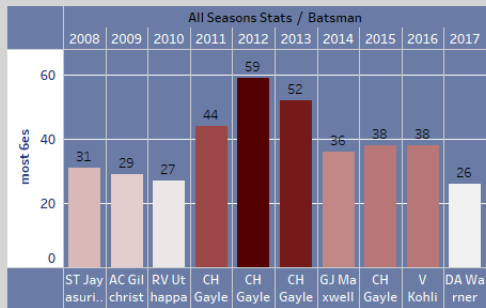
Batsmen who hit Most Sixes and Fours



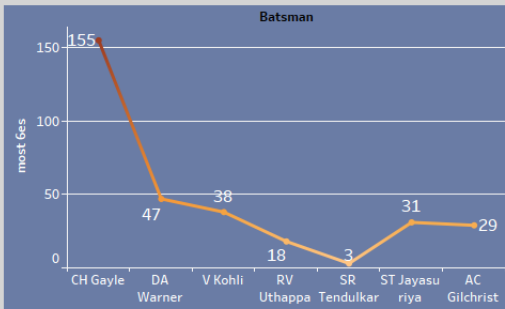
Players who hit most number of four:



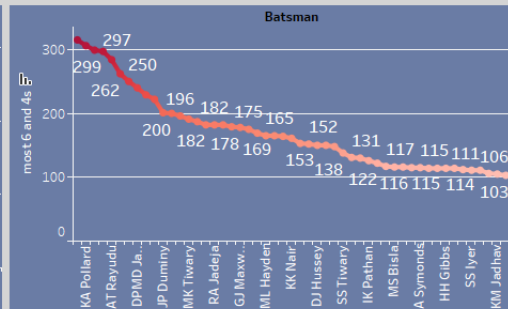
Plyers Who hit most number of Sixes-Graph



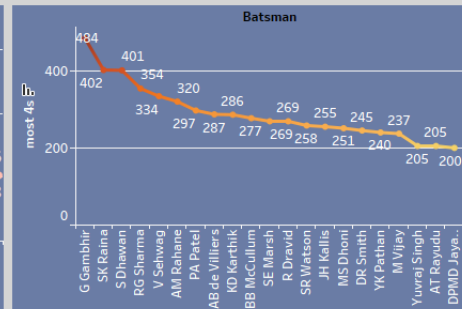
Batsmen Who hit the most number of Sixes over a



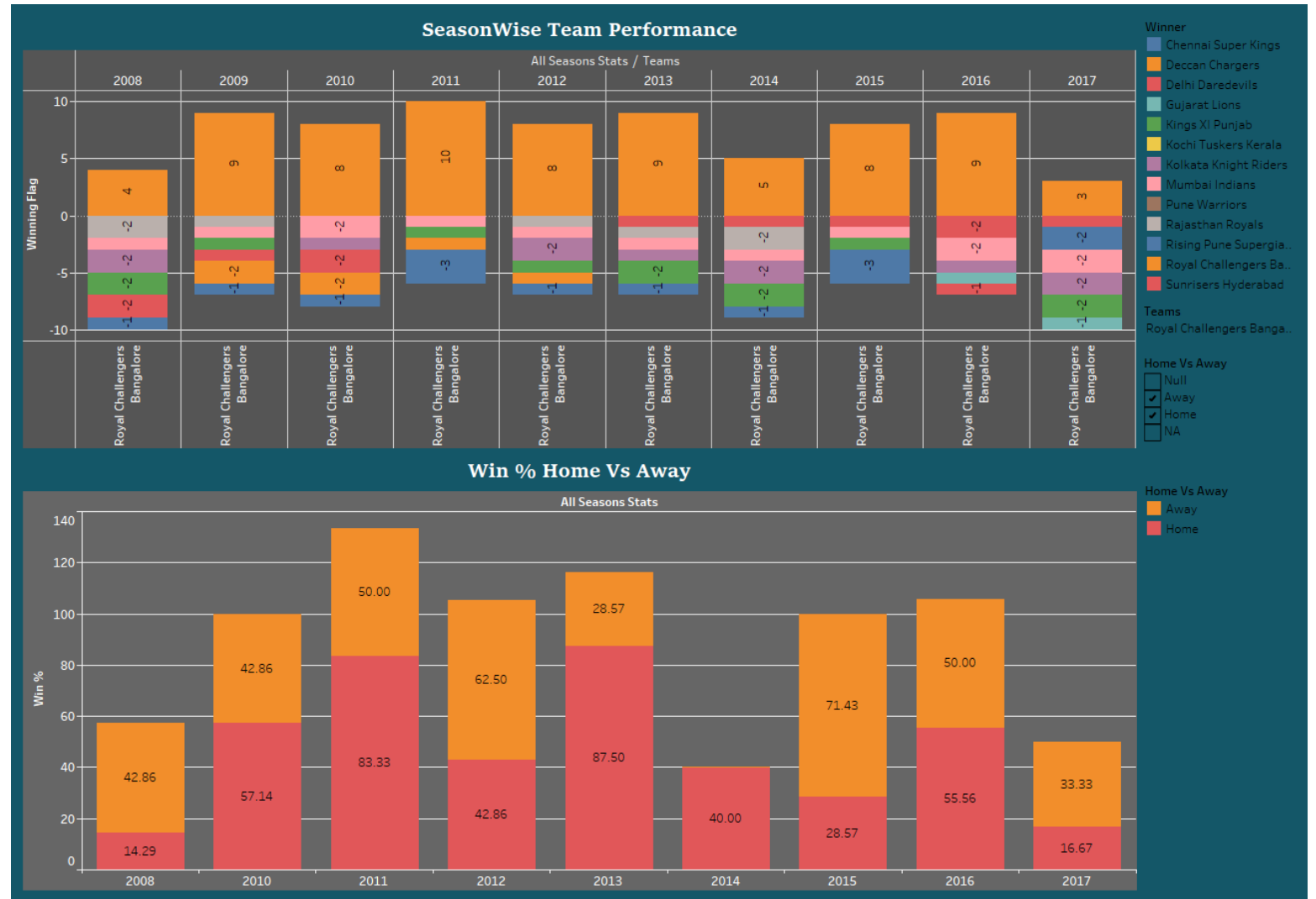
Batsmens Most Number of Fours and sixes -Overall



Batsmens Most Number of Fours Overa



Team Statistics Dashboard



Summary

- One can clearly underrated , 196 matches were won by the team who chose to field first after wining the toss.
And After losing the toss, 167 times matches were won. In both the cases (Winning and losing), team who chose to bat first, have a smaller number of wining count.
- In all the Seasons, after doing analysis, it has been found that Mumbai Indians had their biggest win in 2017.
- we can observe the total number of biggest wins by Wicket.
10 Times, Teams have won the matches with 10 wickets in hand.
And 70 times, Teams have won the matches with 7 wickets in hands.
- After filtering Top 5, highest totals, we can see the Royal Challengers Bangalore , Chennai Super Kings are most successful in this manner.
- The above Analysis shows who has earned the Orange Cap, Purple Cap in each season well as who was/is a boss of sixes and fours.
- Team Stats shows the Season wise performances on Wining Vs Loosing and Winnning percentage of each team on Home Ground vs other grounds



Thank You