

UPGRAD
IPL VISUALISATION ASSIGNMENT
DS36 BATCH

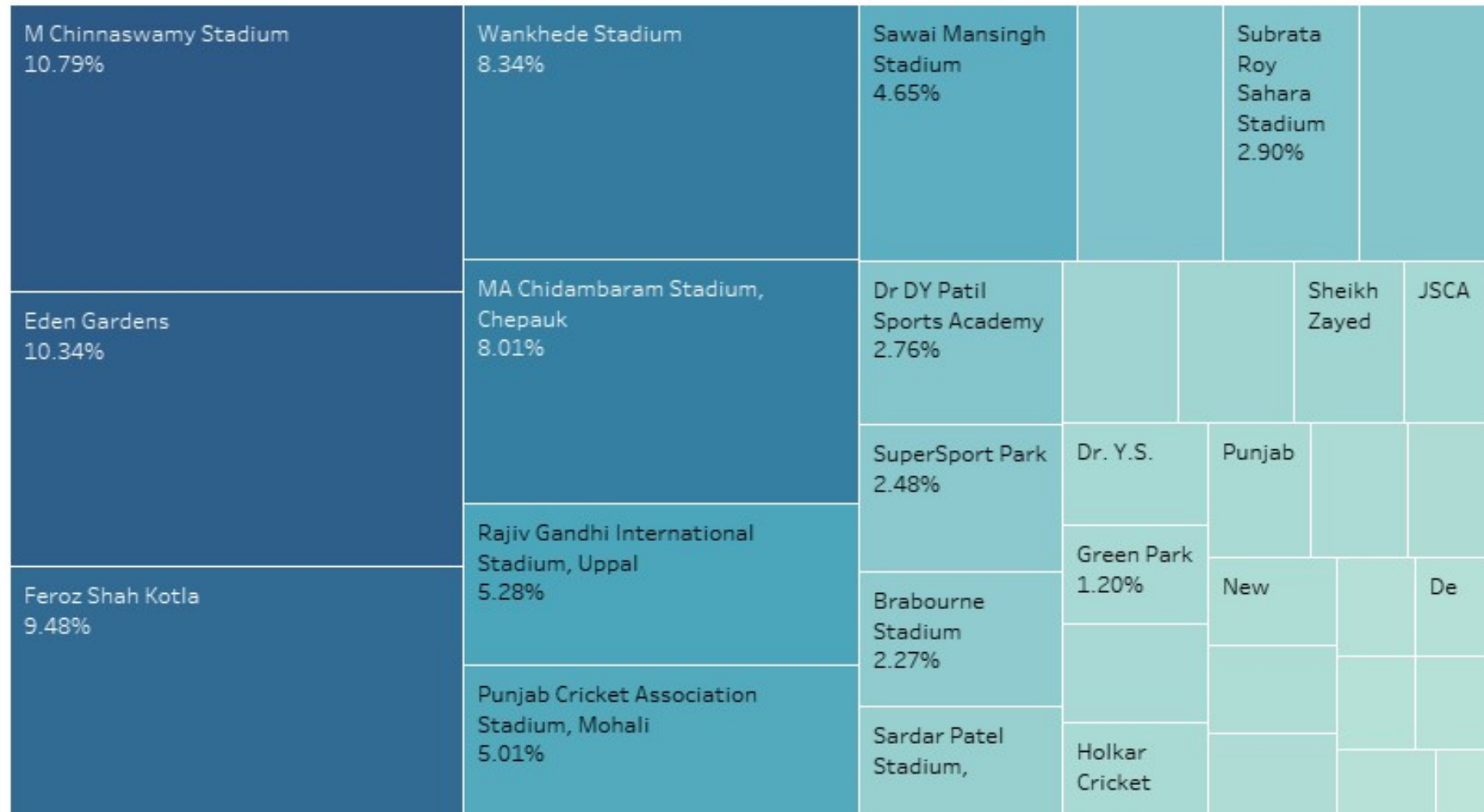
SUBMITTED BY
GURUPRAKASH.K

Toss Outcome vs Match Outcome

- Grouped the Toss Winner, as there are duplicates for the team “Rising Pune Supergiants”.
- Calculated a new field called “Toss Outcome vs Match Outcome”.
- Used the formula:
IF [Toss Winner (group)] = [Winner] THEN 1
ELSE 0 END
- Then plotted the “Toss Outcome vs Match Outcome” with “Venue” using “Treemaps”.

Toss Outcome vs Match Outcome

Win the Toss, Win the Match!!!



From the above tree-map, we can see that M Chinnaswamy Stadium is the venue where Teams winning the toss go on to win the match more frequently.

Biggest Wins by Runs

- Converted “Win by Runs” parameter to dimension.
- Created a “Text Table” based on the filter condition on “Id”.
- Filter Condition – By field: Top 10 “Win by Runs”.
- Sorted the table based on “Win by Runs” in descending order.
- Formatted the Table as required.

Biggest Wins by Runs

Biggest Wins by Runs

| Id | Venue | Team1 | Team2 | Winner | Season | |
|-----|--|-----------------------------|-----------------------------|-----------------------------|--------|-----------------|
| 44 | Feroz Shah Kotla | Mumbai Indians | Delhi Daredevils | Mumbai Indians | 2017 | Won by 146 Runs |
| 620 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Gujarat Lions | Royal Challengers Bangalore | 2016 | Won by 144 Runs |
| 60 | M Chinnaswamy Stadium | Kolkata Knight Riders | Royal Challengers Bangalore | Kolkata Knight Riders | 2008 | Won by 140 Runs |
| 557 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Kings XI Punjab | Royal Challengers Bangalore | 2015 | Won by 138 Runs |
| 411 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Pune Warriors | Royal Challengers Bangalore | 2013 | Won by 130 Runs |
| 296 | Himachal Pradesh Cricket Association Stadium | Kings XI Punjab | Royal Challengers Bangalore | Kings XI Punjab | 2011 | Won by 111 Runs |
| 115 | Wankhede Stadium | Rajasthan Royals | Delhi Daredevils | Rajasthan Royals | 2008 | Won by 105 Runs |
| 183 | Feroz Shah Kotla | Mumbai Indians | Delhi Daredevils | Mumbai Indians | 2010 | Won by 98 Runs |
| 542 | MA Chidambaram Stadium, Chepauk | Chennai Super Kings | Kings XI Punjab | Chennai Super Kings | 2015 | Won by 97 Runs |
| 9 | Maharashtra Cricket Association Stadium | Delhi Daredevils | Rising Pune Supergiants | Delhi Daredevils | 2017 | Won by 97 Runs |

From the table above, we can see the Top-10 biggest wins in terms of runs

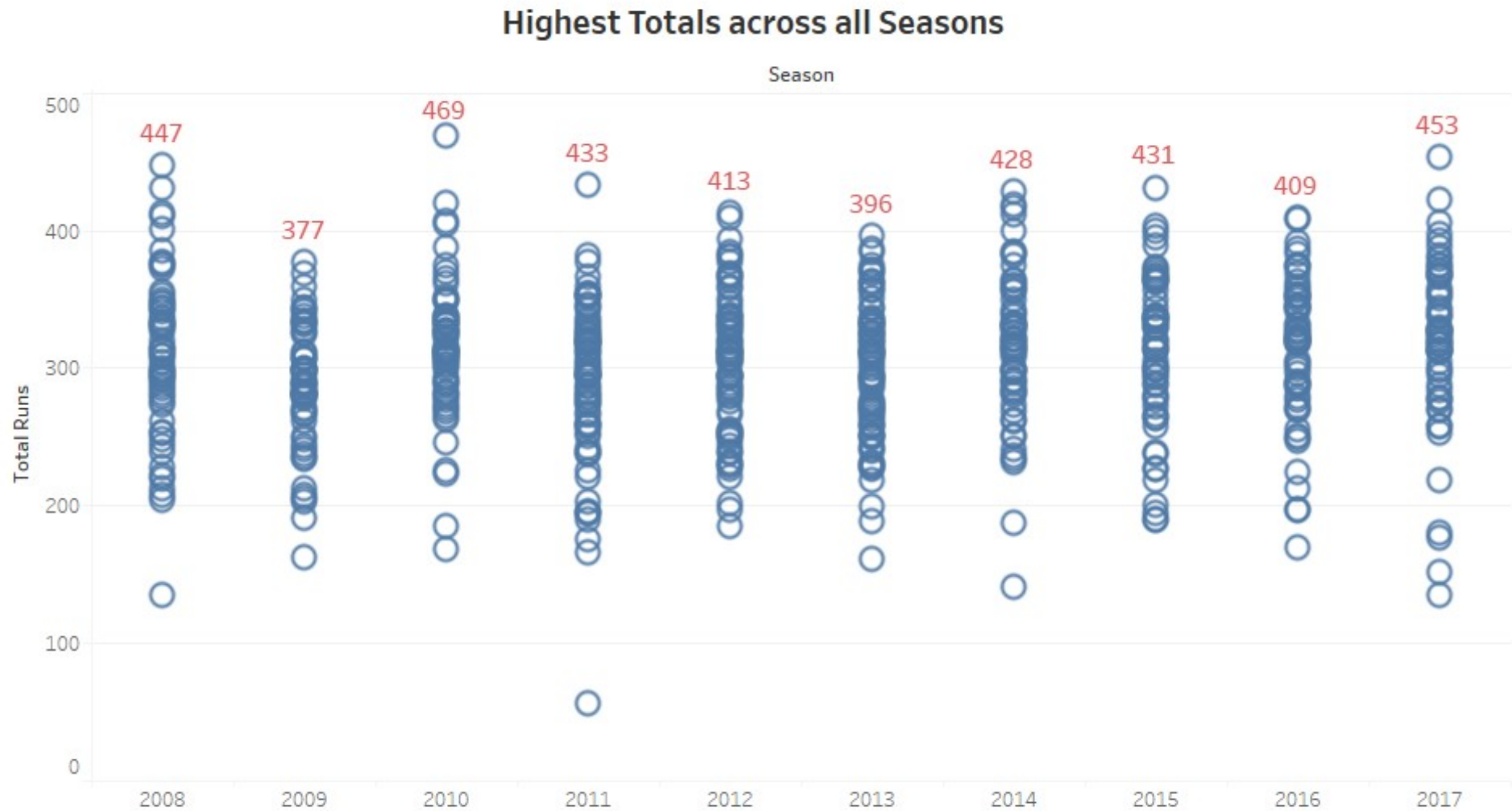
Biggest Wins by Wickets

- Converted “Win by Wickets” parameter to dimension.
- Created a “Text Table” based on the filter condition on “Id”.
- Filter Condition – By field: Top 10 “Win by Wickets” as “Maximum”.
- Sorted the table based on “Win by Wickets” in descending order.
- Formatted the Table as required.

Highest Totals across all the Seasons

- Plotted “Circle views” plot between “Season”, “Total Runs” and “Id”.
- Labeled “Total Runs” in the chart.
- Filtered the “Labels” to only the “Max Values”.
- Formatted the chart as required.

Highest Totals across all the Seasons



From the chart above, we can see the highest totals across all the seasons

Match Statistics - Dashboard

Biggest Wins by Runs

| Id | Venue | Team1 | Team2 | Winner | Season | |
|-----|-----------------------|-----------------------------|-----------------------------|-----------------------------|--------|-----------------|
| 44 | Feroz Shah Kotla | Mumbai Indians | Delhi Daredevils | Mumbai Indians | 2017 | Won by 146 Runs |
| 620 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Gujarat Lions | Royal Challengers Bangalore | 2016 | Won by 144 Runs |
| 60 | M Chinnaswamy Stadium | Kolkata Knight Riders | Royal Challengers Bangalore | Kolkata Knight Riders | 2008 | Won by 140 Runs |
| 557 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Kings XI Punjab | Royal Challengers Bangalore | 2015 | Won by 138 Runs |
| 411 | M Chinnaswamy Stadium | Royal Challengers Bangalore | Pune Warriors | Royal Challengers Bangalore | 2013 | Won by 130 Runs |

Biggest Wins by Wickets

| Id | Venue | Team1 | Team2 | Season | |
|-----|---|------------------|-----------------------------|--------|-------------------|
| 591 | Saurashtra Cricket Association Stadium | Gujarat Lions | Sunrisers Hyderabad | 2016 | Won by 10 wickets |
| 543 | Feroz Shah Kotla | Delhi Daredevils | Royal Challengers Bangalore | 2015 | Won by 10 wickets |
| 391 | Punjab Cricket Association Stadium, Mohali | Kings XI Punjab | Chennai Super Kings | 2013 | Won by 10 wickets |
| 377 | Sawai Mansingh Stadium | Rajasthan Royals | Mumbai Indians | 2012 | Won by 10 wickets |
| 299 | Wankhede Stadium | Mumbai Indians | Rajasthan Royals | 2011 | Won by 10 wickets |
| 184 | M Chinnaswamy Stadium | Rajasthan Royals | Royal Challengers Bangalore | 2010 | Won by 10 wickets |
| 120 | Newlands | Kings XI Punjab | Delhi Daredevils | 2009 | Won by 10 wickets |
| 72 | Dr DY Patil Sports Academy | Mumbai Indians | Deccan Chargers | 2008 | Won by 10 wickets |
| 35 | Punjab Cricket Association IS Bindra Stadium, ... | Delhi Daredevils | Kings XI Punjab | 2017 | Won by 10 wickets |
| 3 | Saurashtra Cricket Association Stadium | Gujarat Lions | Kolkata Knight Riders | 2017 | Won by 10 wickets |

Win the Toss, Win the Match!!!

| | | | | | | |
|---------------------------------|--|--------------------|--|--|--|--|
| M Chinnaswamy Stadium 10.79% | Wankhede Stadium 8.34% | Sawai | | | | |
| Eden Gardens 10.34% | MA Chidambaram Stadium, Chepauk 8.01% | Dr DY Patil Sports | | | | |
| Feroz Shah Kotla 9.48% | Rajiv Gandhi International | | | | | |
| | Punjab Cricket Association | | | | | |

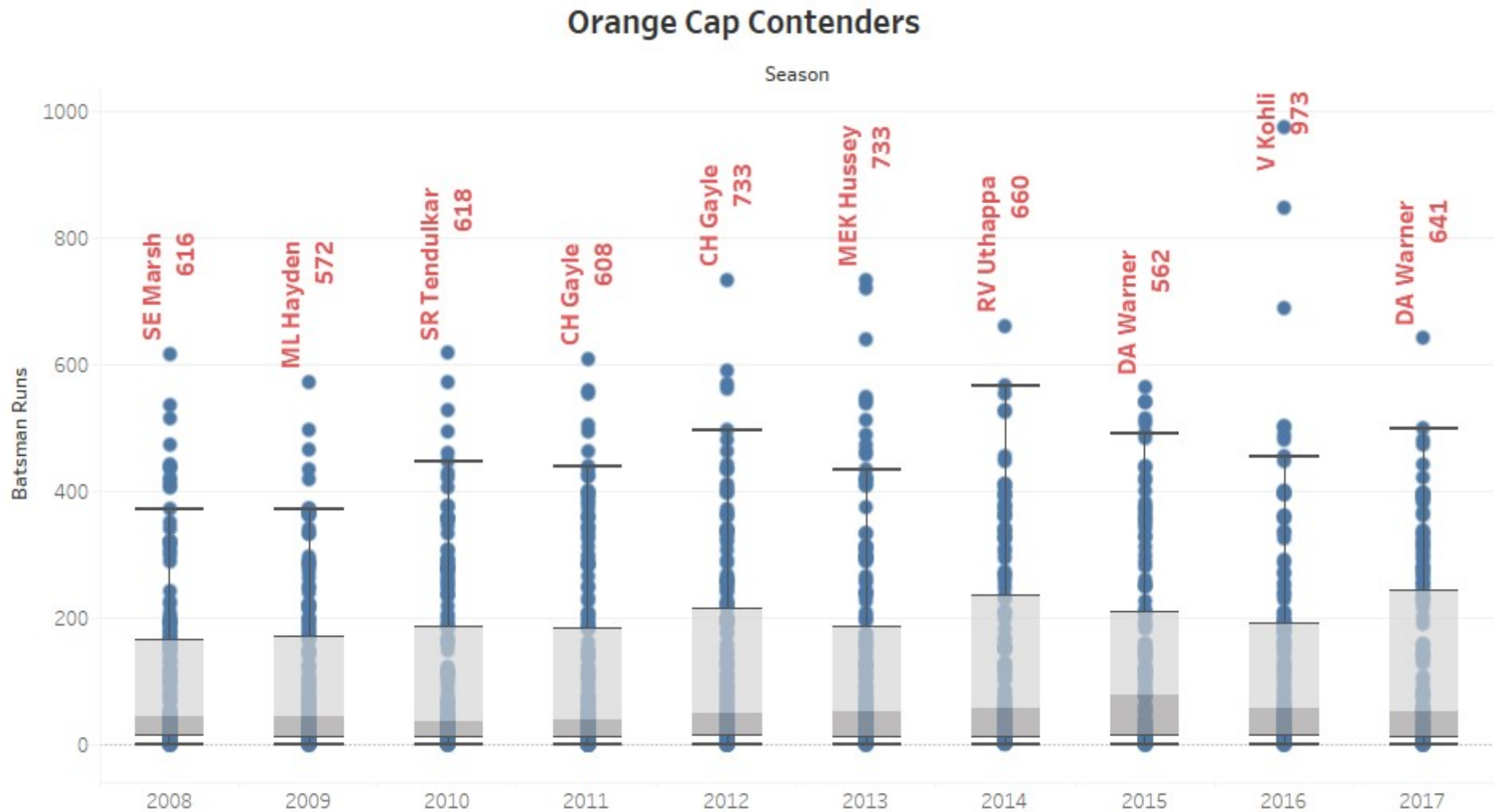
Highest Totals across all Seasons



Orange Cap Contenders

- Plotted “Box and Whisker” plot between “Season”, “Batsman Runs” and “Batsman”.
- Labeled “Batsman” and “Batsman Runs” in the chart.
- Filtered the “Labels” to only the “Max Values” of “Batsman Runs”.
- Formatted the chart as required.

Orange Cap Contenders

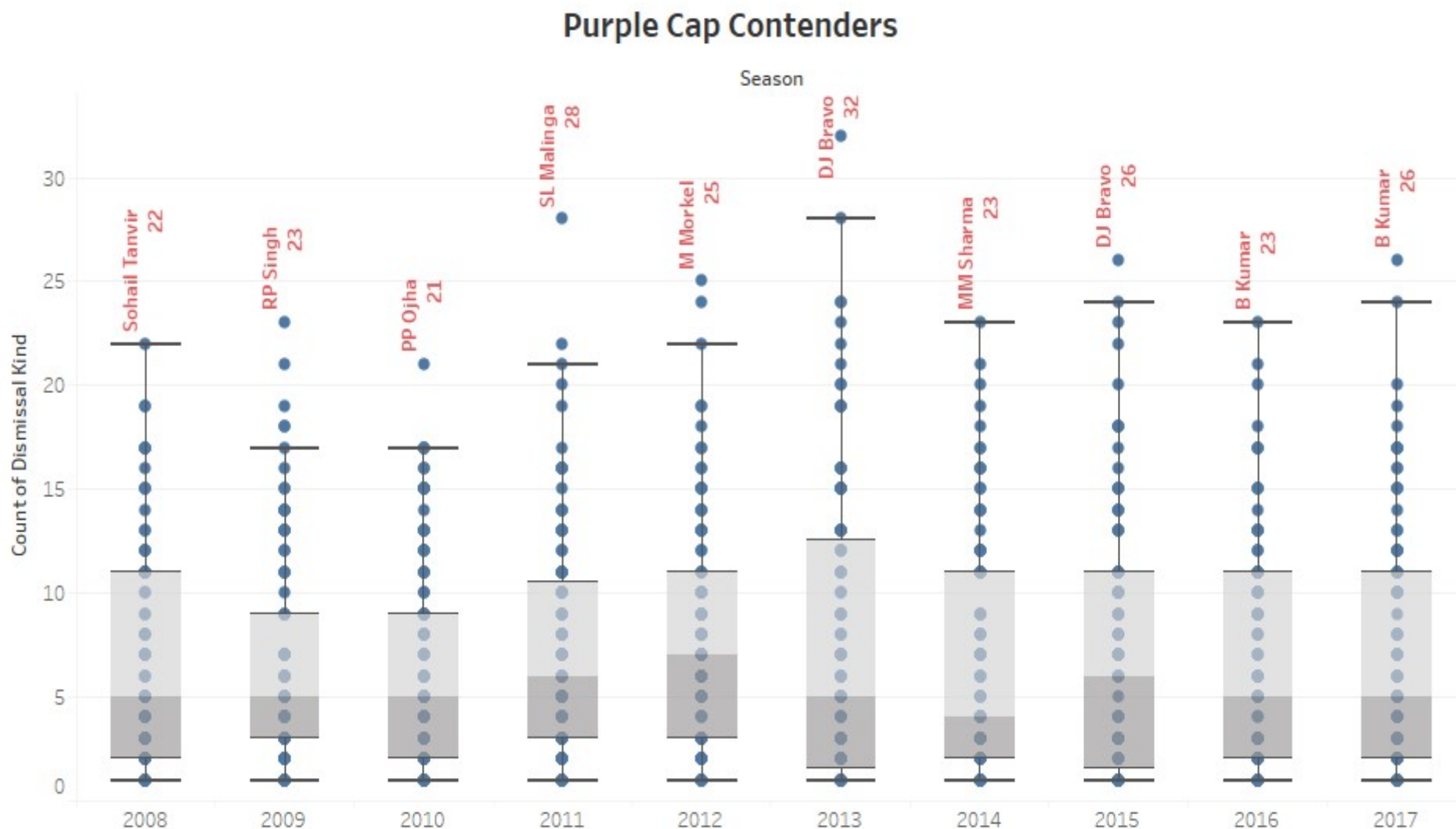


From the above chart, we can see the Orange Cap Contenders (Highest Run Scorers) across all the seasons.

Purple Cap Contenders

- Plotted “Box and Whisker” plot between “Season”, “Count (Dismissal Kind)” and “Bowler”.
- Filtered the “Dismissal Kind” and removed “Null”, “obstructing the field”, “retired hurt” and “run-out”, as these method of dismissals don’t credit to the bowlers.
- Labeled “Bowler” and “Count (Dismissal Kind)” in the chart.
- Filtered the “Labels” to only the “Max Values” of “Count (Dismissal Kind)”.
- Formatted the chart as required.

Purple Cap Contenders

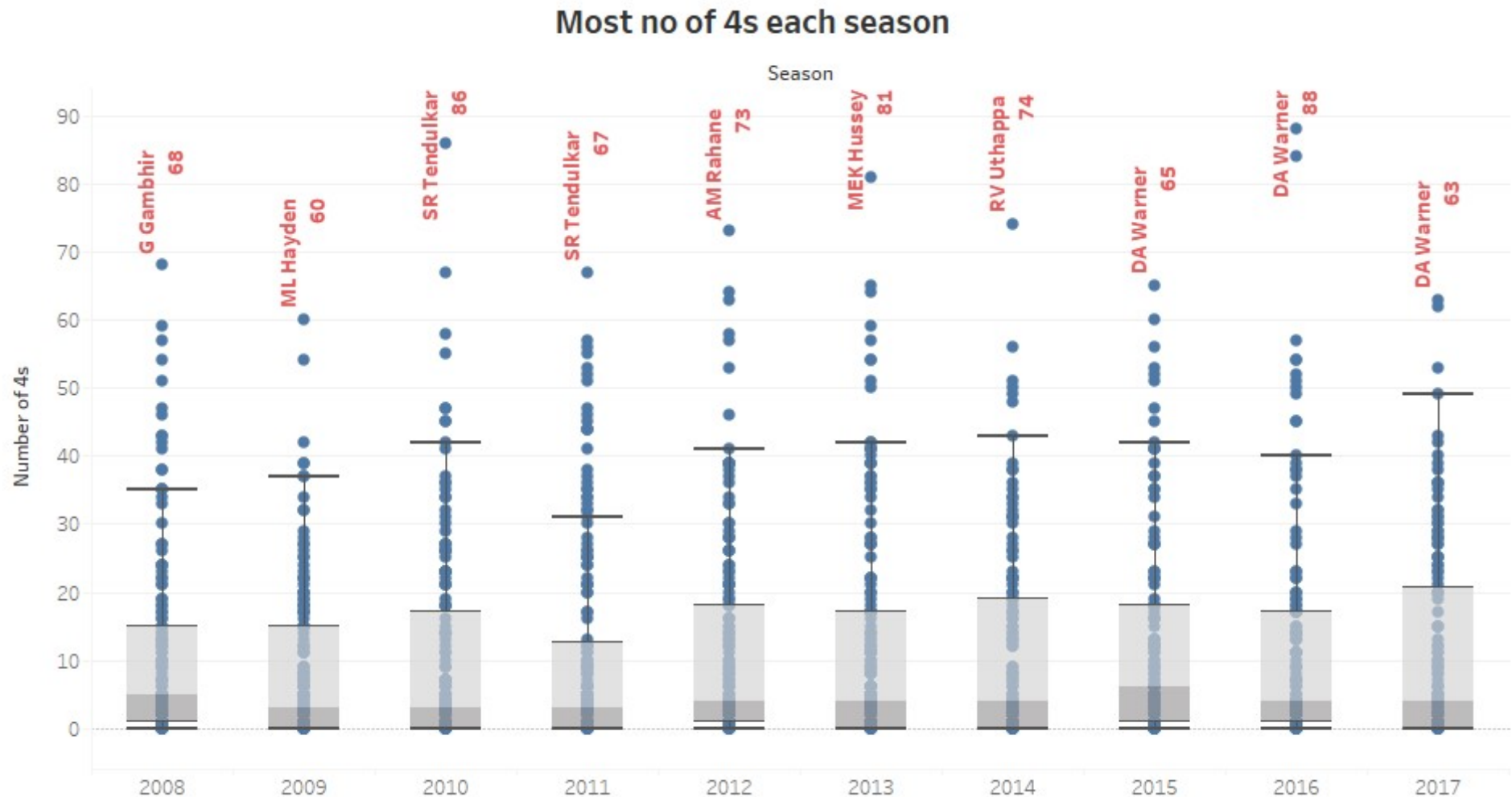


From the above chart, we can see the Purple Cap Contenders (Highest Wicket takers) across the seasons.

Batsman who have hit most number of 4s each season

- Created a calculated field “Number of 4s” with formula, if batsman runs = 4 then 1 else 0 end.
- Plotted “Box and Whisker” plot between “Season”, “Batsman” and “Sum (Number of 4s)”.
- Labeled “Batsman” and “Sum (Number of 4s)” in the chart.
- Filtered the “Labels” to only the “Max Values” of “Sum (Number of 4s)”.
- Formatted the chart as required.

Batsman who have hit most number of 4s each season

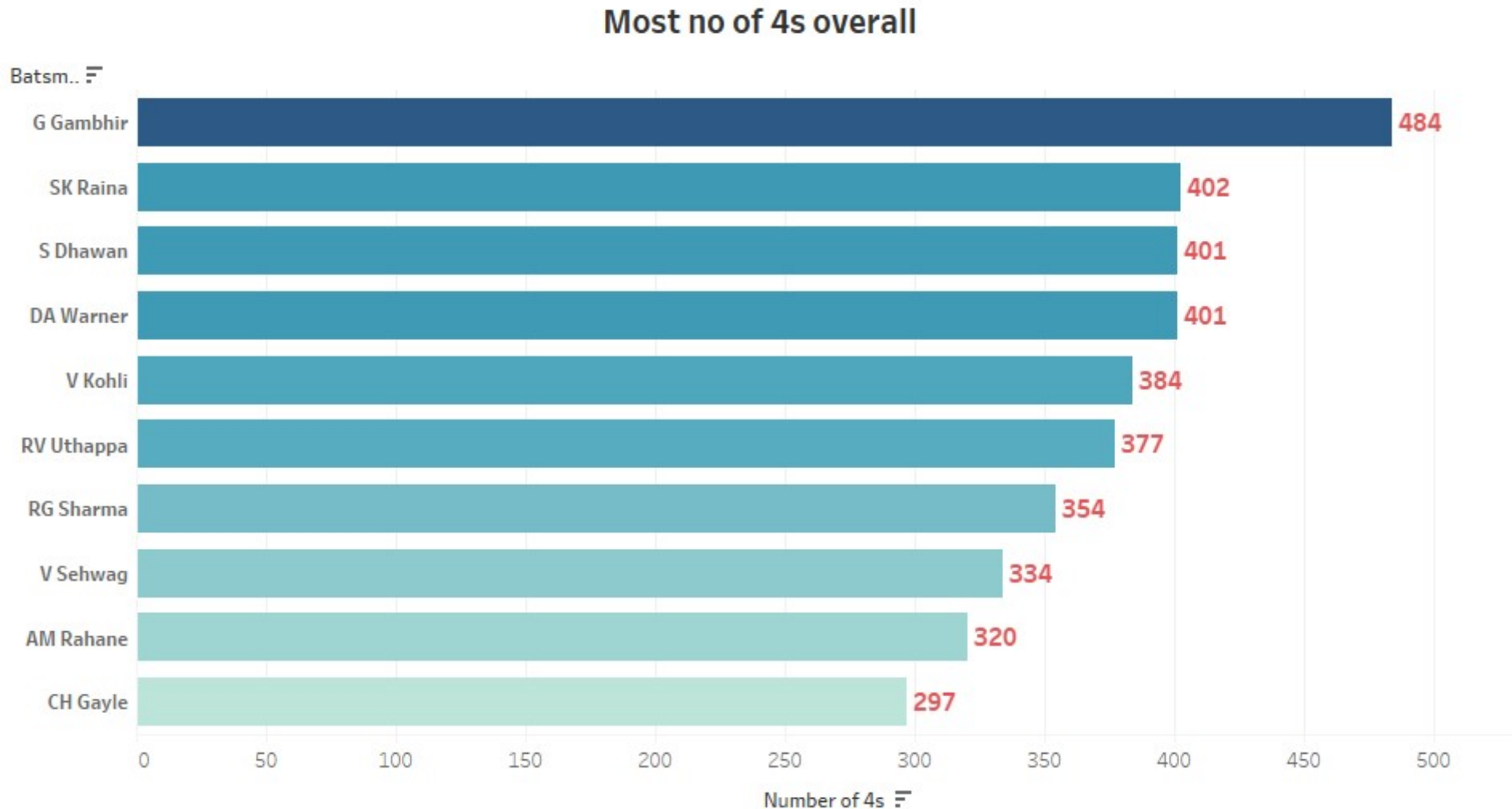


From the above chart, we can see the batsmen who hit the most number of 4s each season

Batsman who have hit most number of 4s overall

- Created a calculated field “Number of 4s” with formula, if batsman runs = 4 then 1 else 0 end.
- Plotted “horizontal bar charts” between “Batsman” and “Sum (Number of 4s)”.
- Filtered the “Batsman” dimension by Top-10 “Sum (Number of 4s)” field sorted in descending order.
- Labeled “Sum (Number of 4s)” in the chart.
- Colored the horizontal bars in the chart based on the “Sum (Number of 4s)”.

Batsman who have hit most number of 4s overall

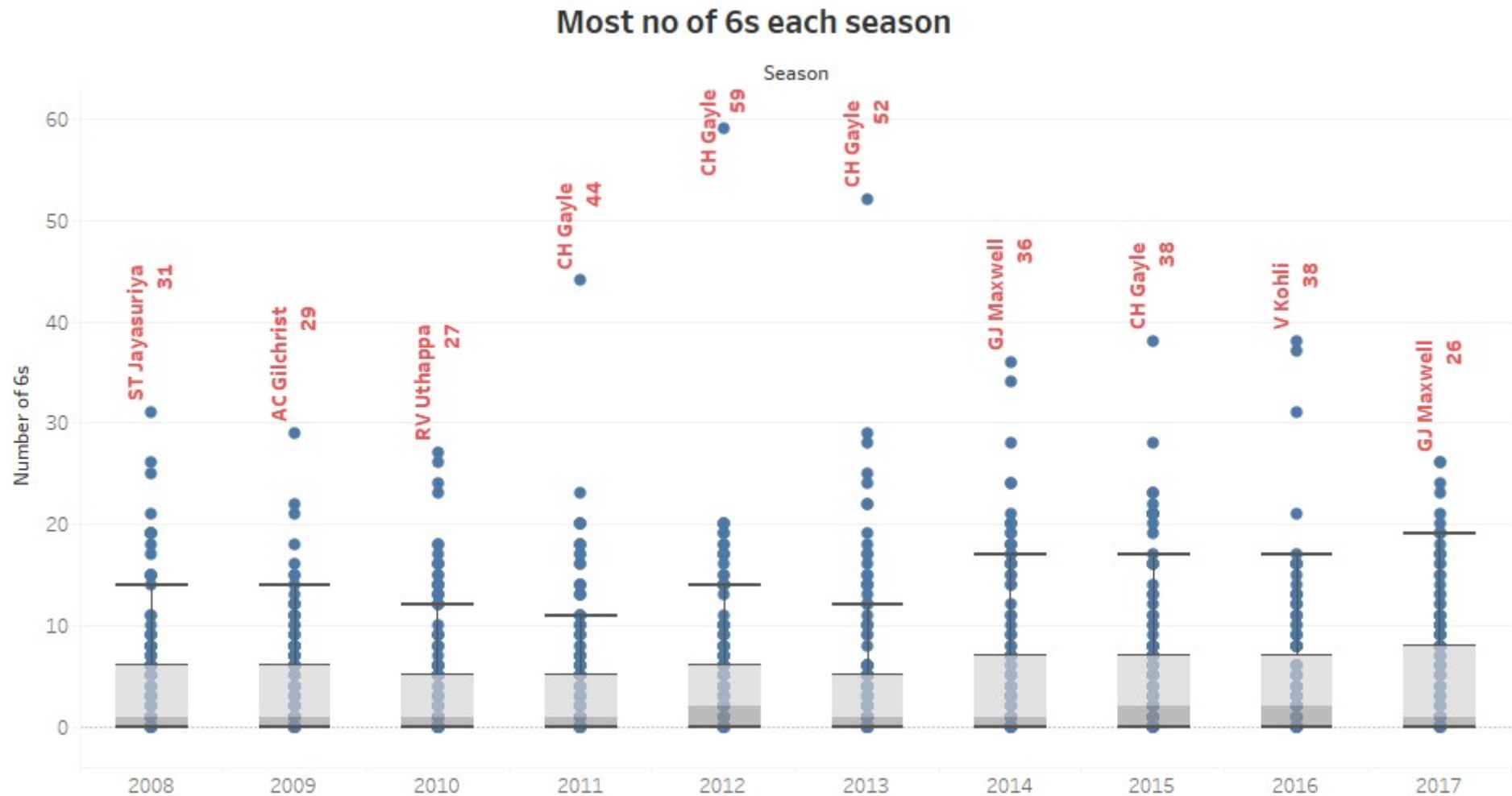


From the above chart, we can see the Top-10 batsmen who hit the most number of 4s overall.

Batsman who have hit most number of 6s each season

- Created a calculated field “Number of 6s” with formula, if batsman runs = 6 then 1 else 0 end.
- Plotted “Box and Whisker” plot between “Season”, “Batsman” and “Sum (Number of 6s)”.
- Labeled “Batsman” and “Sum (Number of 6s)” in the chart.
- Filtered the “Labels” to only the “Max Values” of “Sum (Number of 6s)”.
- Now, since in the year 2017, both GJ Maxwell and DA Warner have hit same number of sixes (i.e., 26), the next criteria used to filter out is the number of innings played. Hence, GJ Maxwell have hit the most number of 6s with less innings played.
- Formatted the chart as required.

Batsman who have hit most number of 6s each season

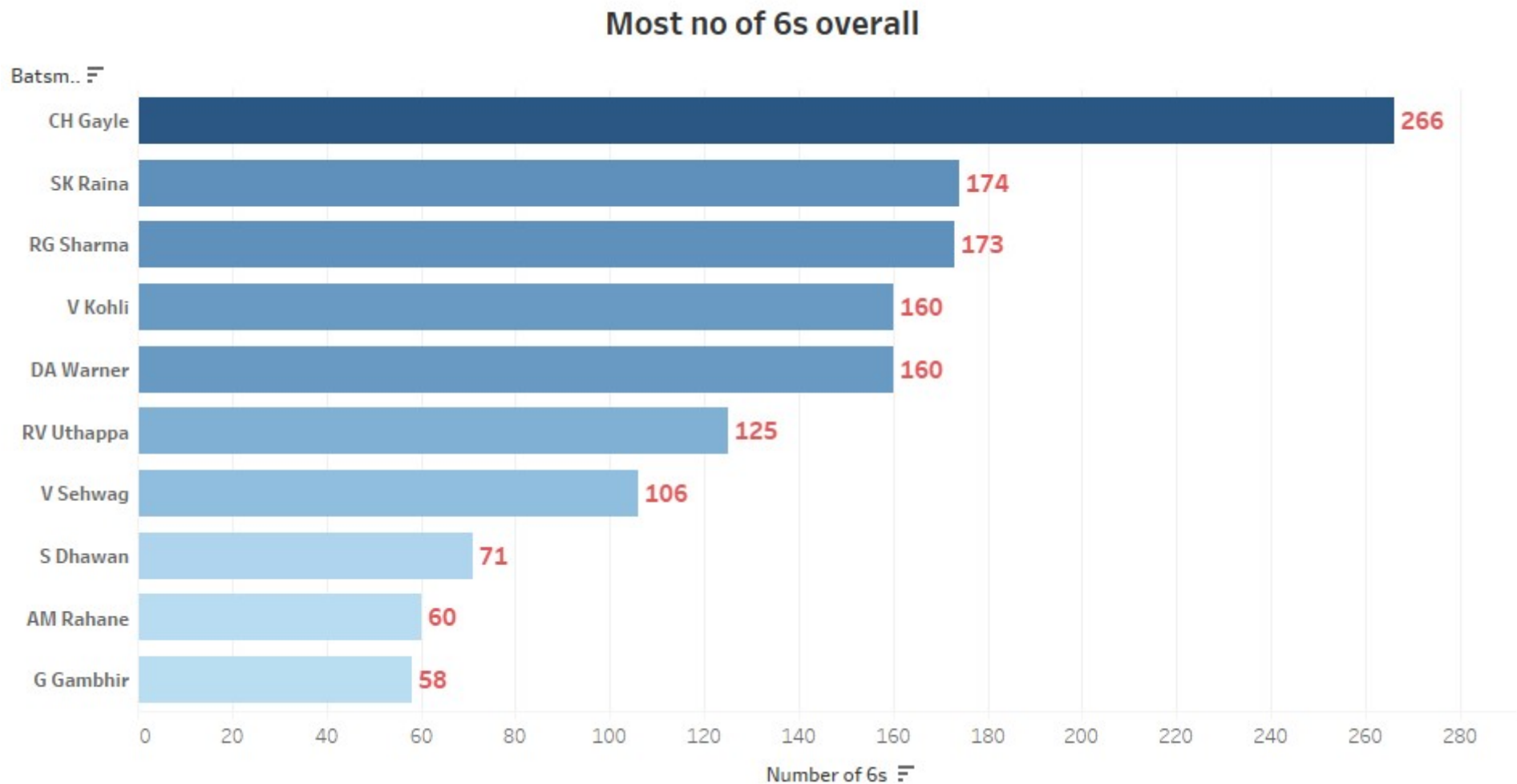


From the above chart, we can see the batsmen who hit the most number of 6s each season

Batsman who have hit most number of 6s overall

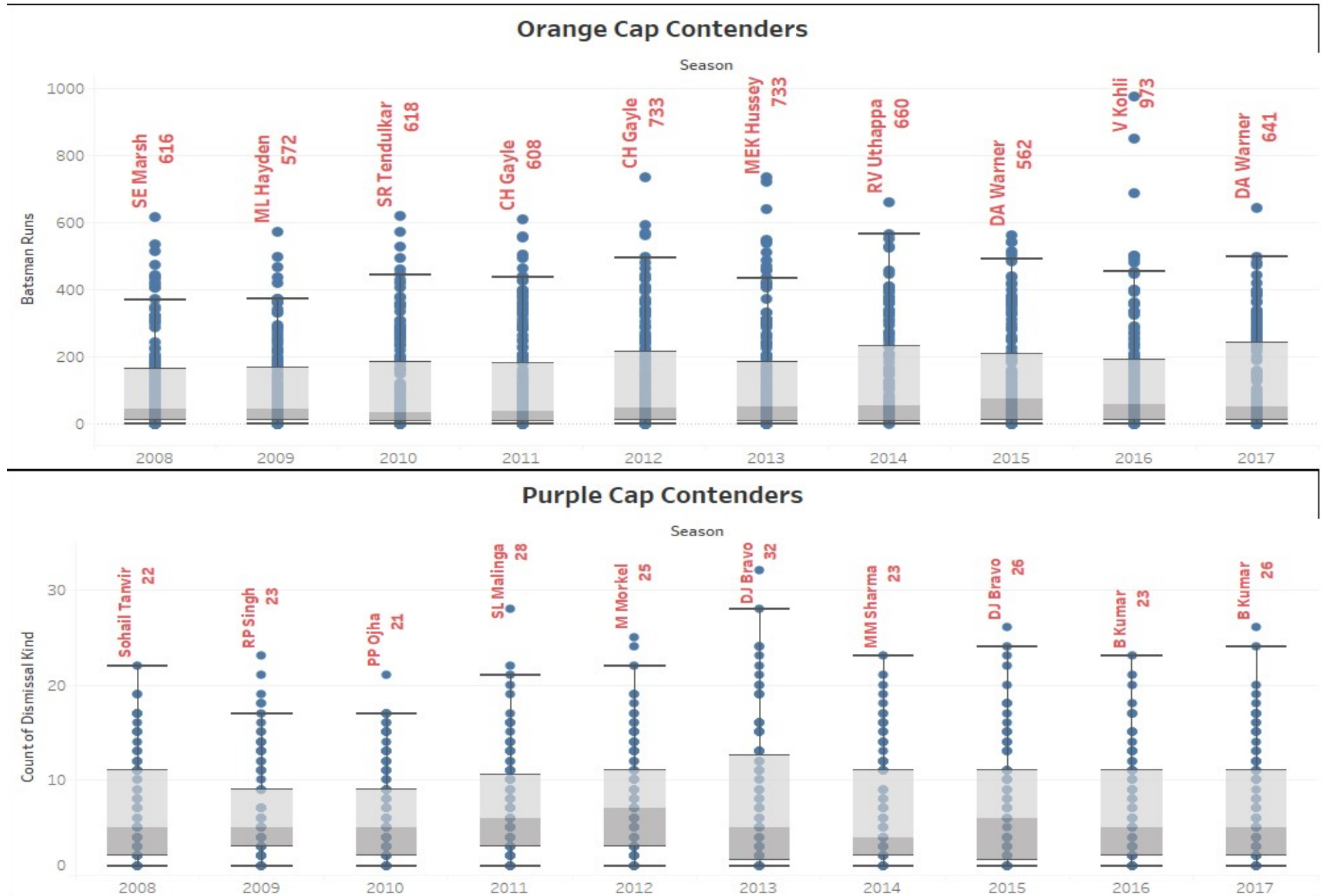
- Created a calculated field “Number of 6s” with formula, if batsman runs = 6 then 1 else 0 end.
- Plotted “horizontal bar charts” between “Batsman” and “Sum (Number of 6s)”.
- Filtered the “Batsman” dimension by Top-10 “Sum (Number of 6s)” field sorted in descending order.
- Labeled “Sum (Number of 6s)” in the chart.
- Colored the horizontal bars in the chart based on the “Sum (Number of 6s)”.

Batsman who have hit most number of 6s overall



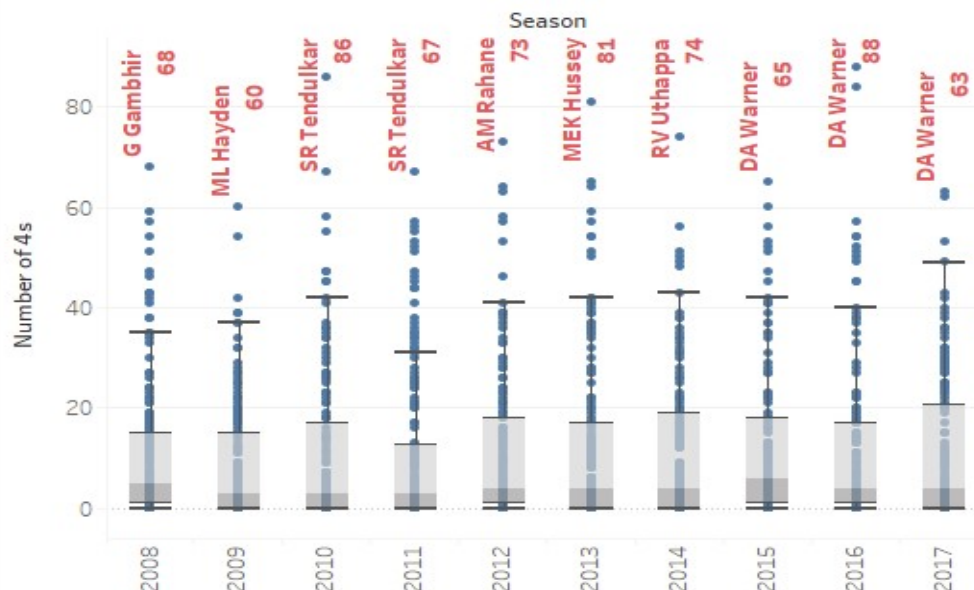
From the above chart, we can see the Top-10 batsmen who hit the most number of 6s overall.

Player Statistics – Dashboard 1

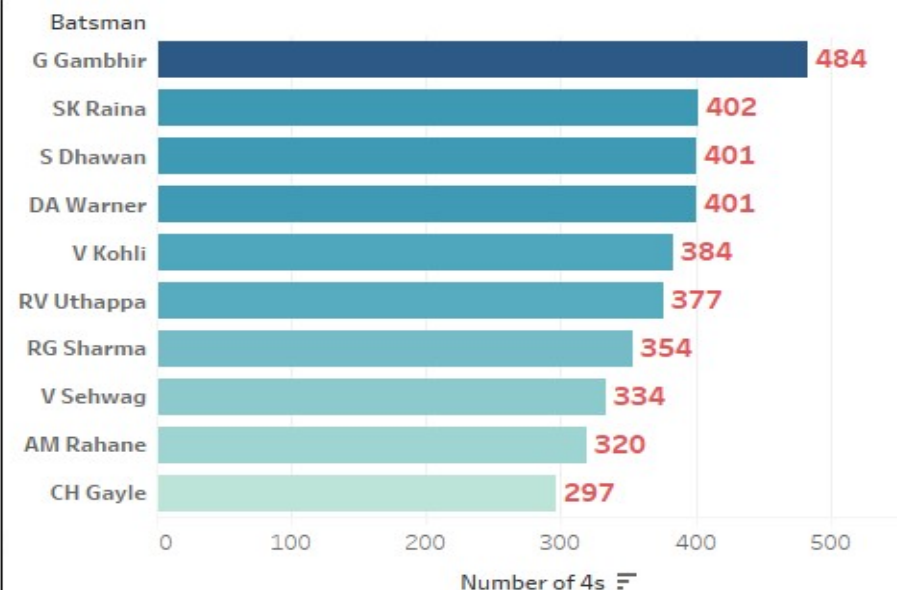


Player Statistics – Dashboard 2

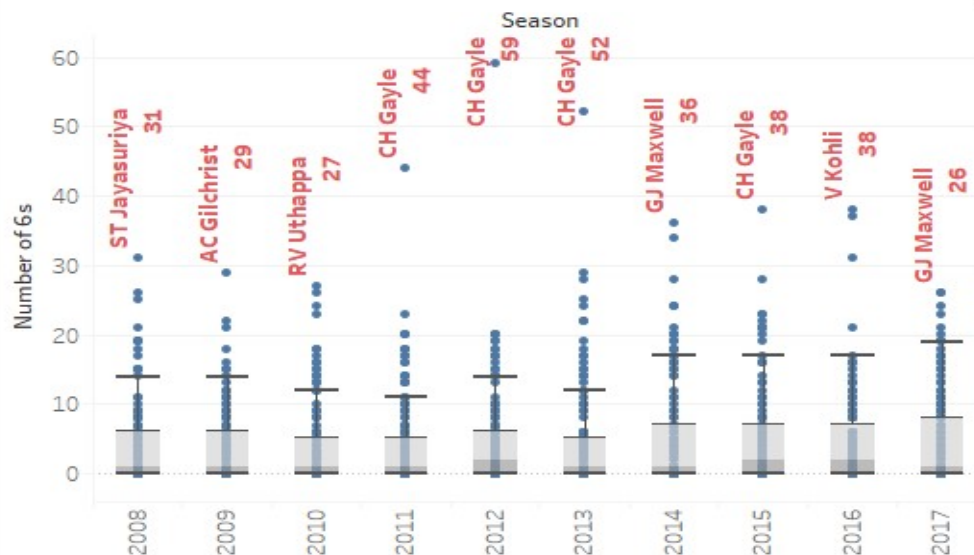
Most no of 4s each season



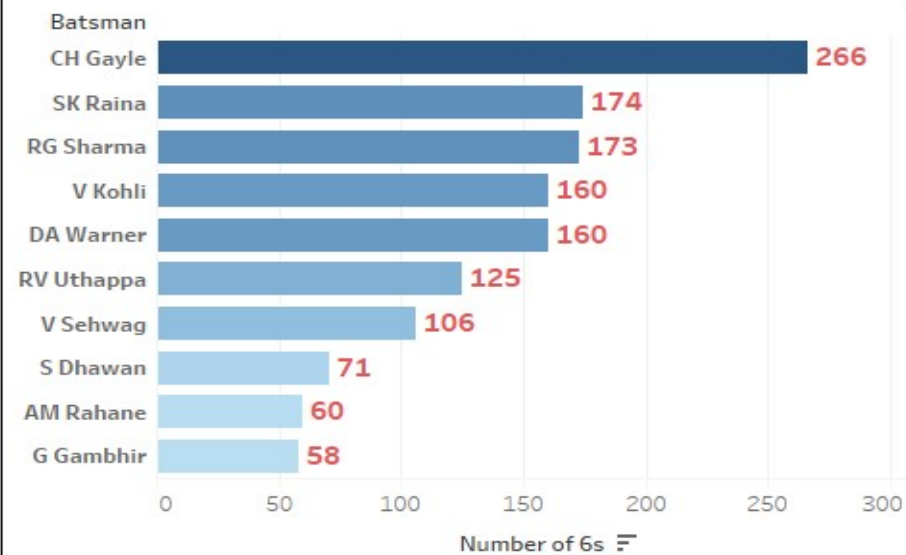
Most no of 4s overall



Most no of 6s each season



Most no of 6s overall



Teams Performance – Number of Matches won in each season

- Created a calculated field “Number of wins” with formula, `countd (Win by Runs) + countd (Win by Wickets)`.
- Plotted “highlight tables” between “Season”, “winner” and “Number of Wins”.
- Filtered the “Winner” dimension and removed null values.
- Formatted the table as required.

Teams Performance – Number of Matches won in each season

Teams wins season-wise

| Winner | Season | | | | | | | | | |
|-----------------------------|--------|------|------|------|------|------|------|------|------|------|
| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Chennai Super Kings | 10 | 9 | 10 | 12 | 11 | 12 | 9 | 12 | | |
| Deccan Chargers | 3 | 9 | 10 | 8 | 6 | | | | | |
| Delhi Daredevils | 7 | 10 | 8 | 6 | 9 | 5 | 3 | 7 | 7 | 8 |
| Gujarat Lions | | | | | | | | | 7 | 4 |
| Kings XI Punjab | 11 | 8 | 5 | 8 | 8 | 9 | 12 | 4 | 6 | 9 |
| Kochi Tuskers Kerala | | | | 6 | | | | | | |
| Kolkata Knight Riders | 7 | 5 | 9 | 9 | 11 | 7 | 12 | 8 | 9 | 9 |
| Mumbai Indians | 7 | 7 | 13 | 12 | 9 | 14 | 7 | 12 | 6 | 10 |
| Pune Warriors | | | | 5 | 6 | 6 | | | | |
| Rajasthan Royals | 11 | 7 | 8 | 5 | 9 | 10 | 8 | 9 | | |
| Rising Pune Supergiants | | | | | | | | | 7 | 12 |
| Royal Challengers Bangalore | 5 | 10 | 9 | 10 | 9 | 9 | 7 | 10 | 11 | 4 |
| Sunrisers Hyderabad | | | | | | 10 | 8 | 9 | 11 | 10 |

From the above chart, we can interpret the number of matches each team won in each season.

THANK YOU