IPL Assignment – Dashboard Creation in Tableau

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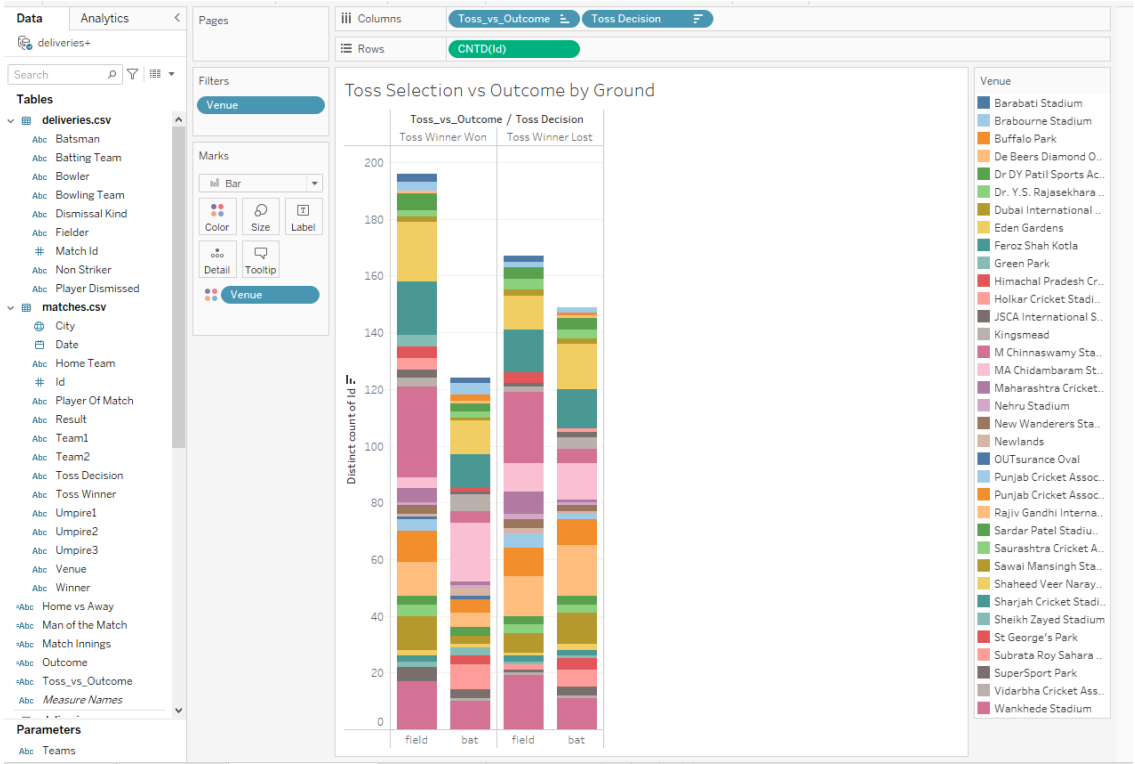
Firstly, we need to create an inner join between the two files matches.csv and deliveries.csv based on the ID column in matches files and Match ID in deliveries file.

1. **Toss Outcome Vs Match Outcome (Venue wise)**

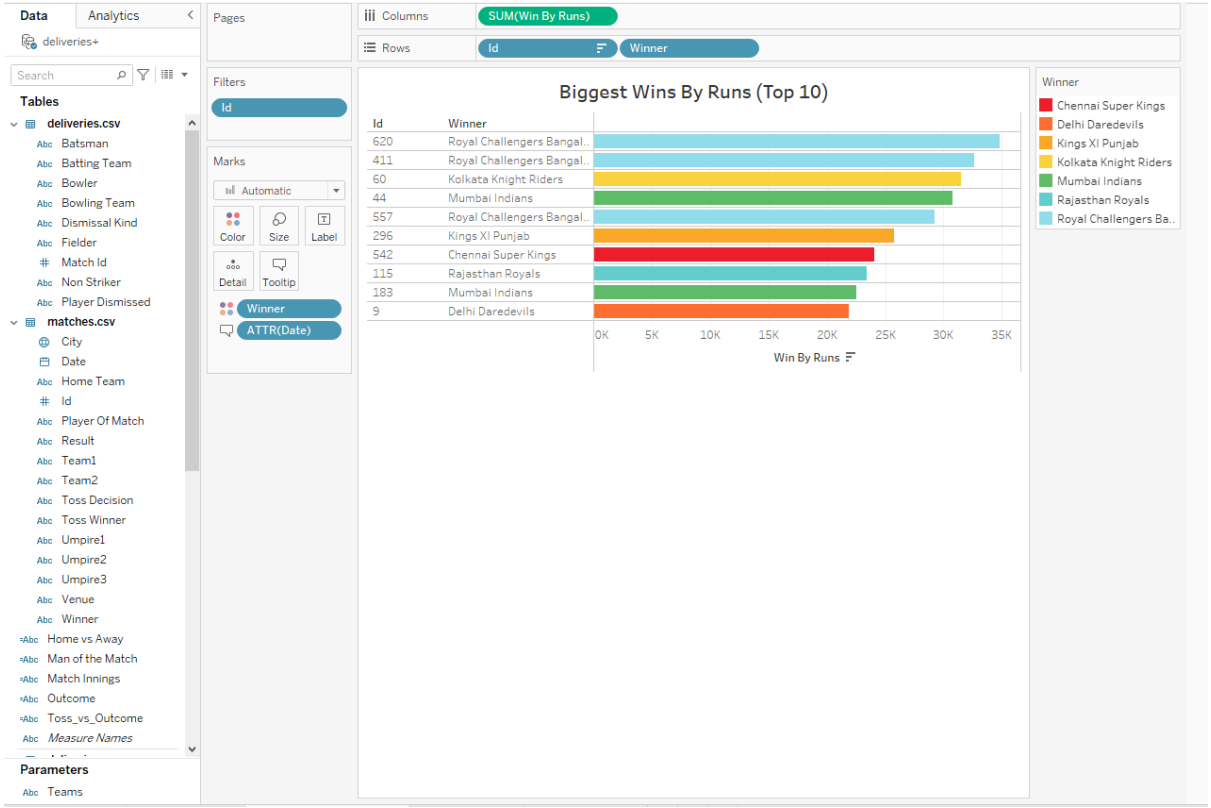
For this we need to create a calculated field (Toss_vs_outcome) to create two categories i.e. Winner of Toss wins the match and Winner of Toss loses the match.

Based on the above calculated field we will create the visualization by putting Toss Decision and Toss_vs_outcome in Columns, match ID in rows with distinct count. Venue goes in filter shelf and we can put venue in color to differentiate.



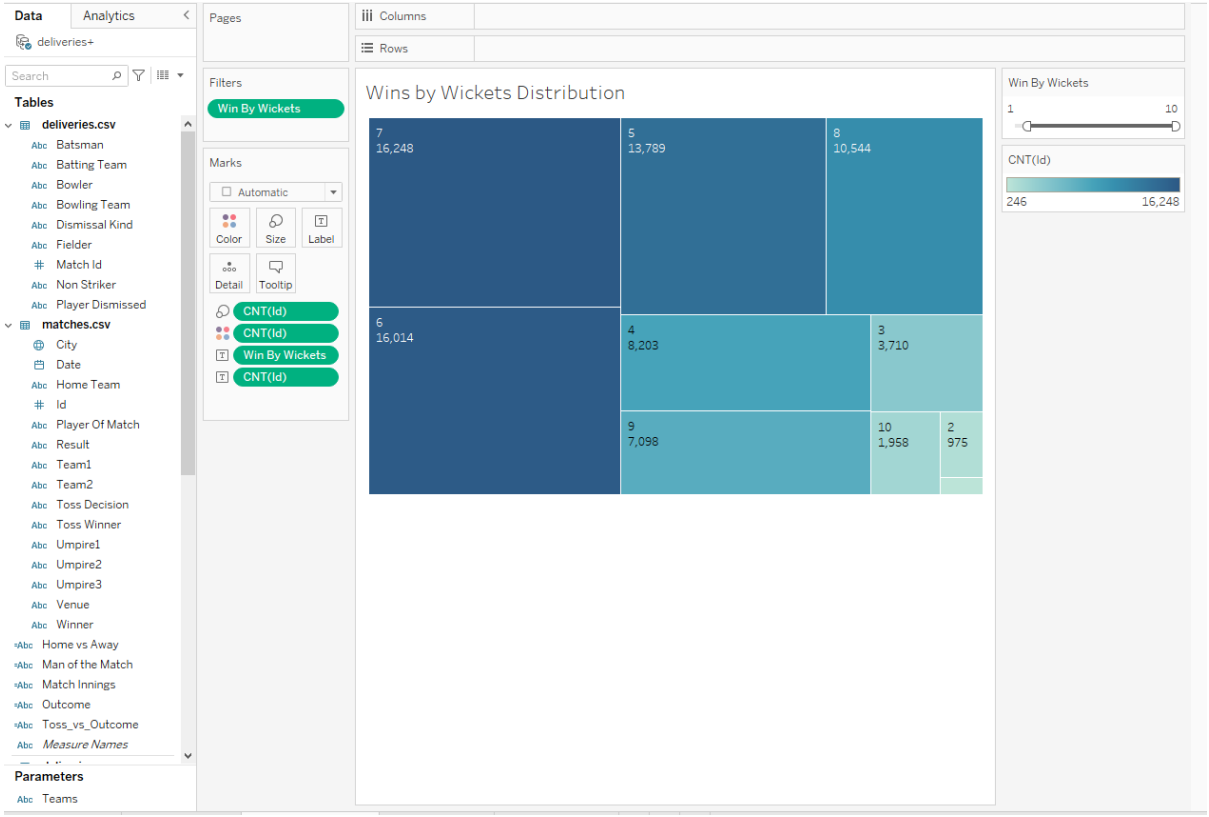
2. Biggest Wins by Runs

For this we will be putting Id and Winner in the Columns so that we can see winner for all the matches and in the rows we will put Win by Runs with sum (we can also keep it as attribute to avoid confusion later). We will put id in the filter shelf to filter the matches by sum of Win by runs field and this will show top 10 matches with biggest wins by runs.
Now we put Winner in color to distinguish and Win by runs (will keep it as attribute instead of sum measure) in label to show in tooltip if hovered. Finally, We will sort it in descending order by Win by runs.



3. Biggest Wins by Wickets

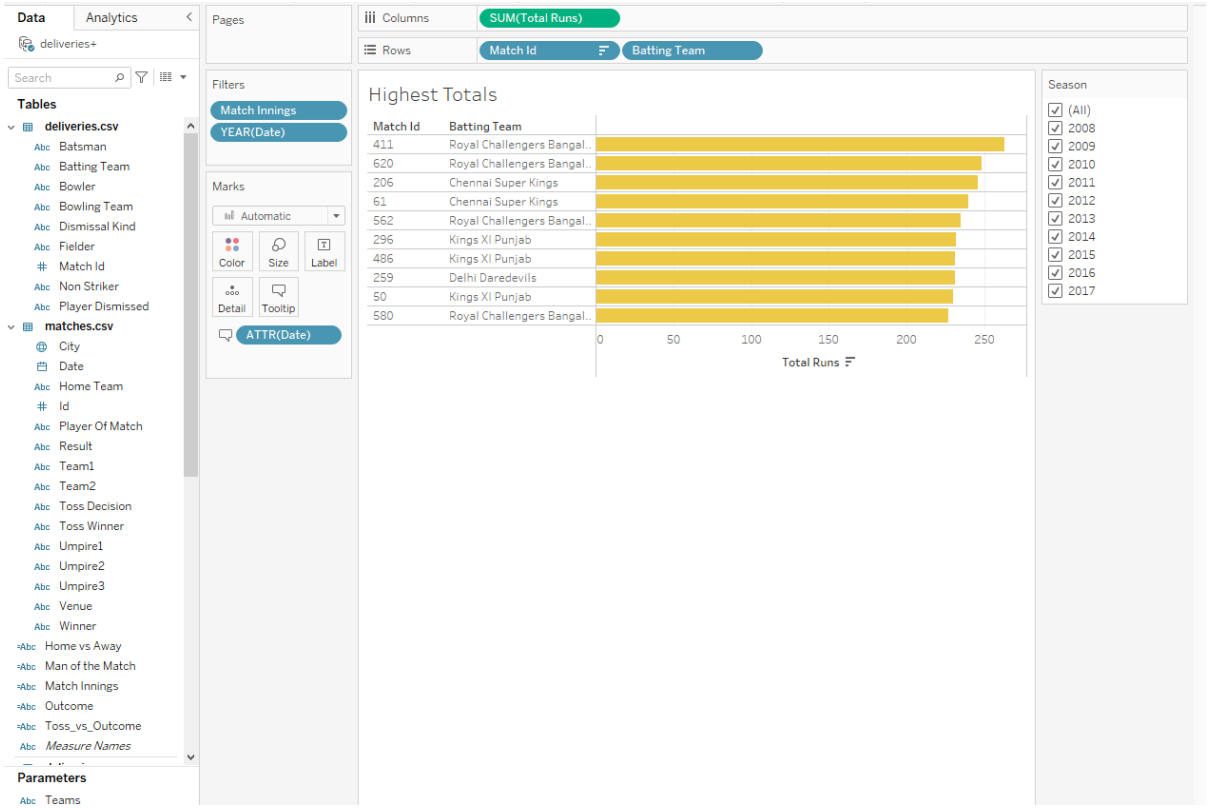
For this, we will put the id in columns to see all matches and then put win by wickets in rows .
We will also put the Win by wickets in filter shelf to filter and after the filter is created, we will use the slider to set the sider to 10 as max number of wickets are 10.
This will give us the desired visualization and further we can put Count of id in color to distinguish, Win by wickets and count of id in labels to see the details in tooltip.
There are Major wins by 7 wickets and it happened 16248 times overall.



4. Highest Totals (Season wise)

This means that the batting totals for both the teams for the particular match. The highest totals season wise have to be shown.

For this, we will put match id and batting team in rows and will put sum of Total Runs in columns. This will give us all the matches with their totals by both teams but we need highest so will put the id in filter shelf and filter it by top 10 field of Total runs sum and this way we will get the highest totals of the teams. Now we want to see season wise, so we will put the date in filter and select year and will select all the years.

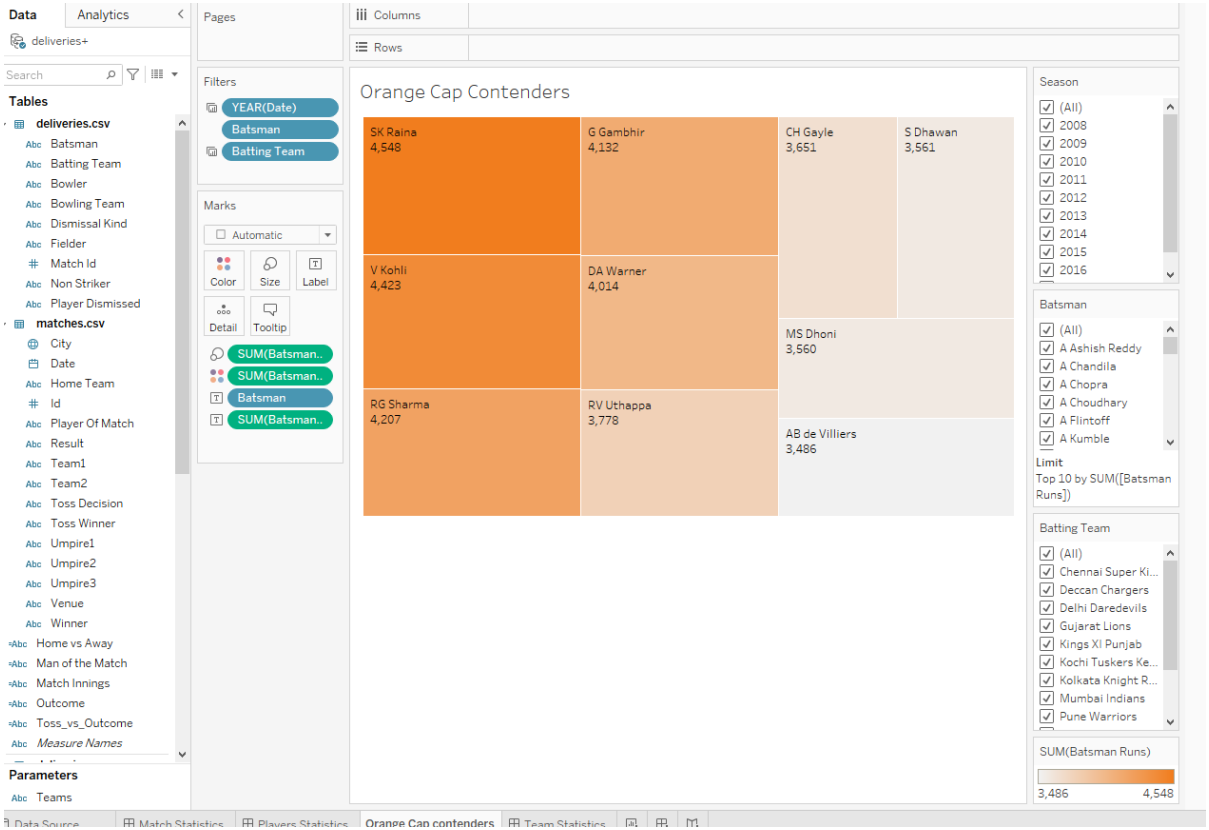


5. **Orange Cap contenders (Batsman with max runs in a particular season)**

For this, we simply but batsman in rows and batsman_runs in columns. We use batsman in the filter by using the top condition and using top 10 by sum of batsman runs.

We also use Date in the filter by selecting years and further we can select all and show filter to make selections further.

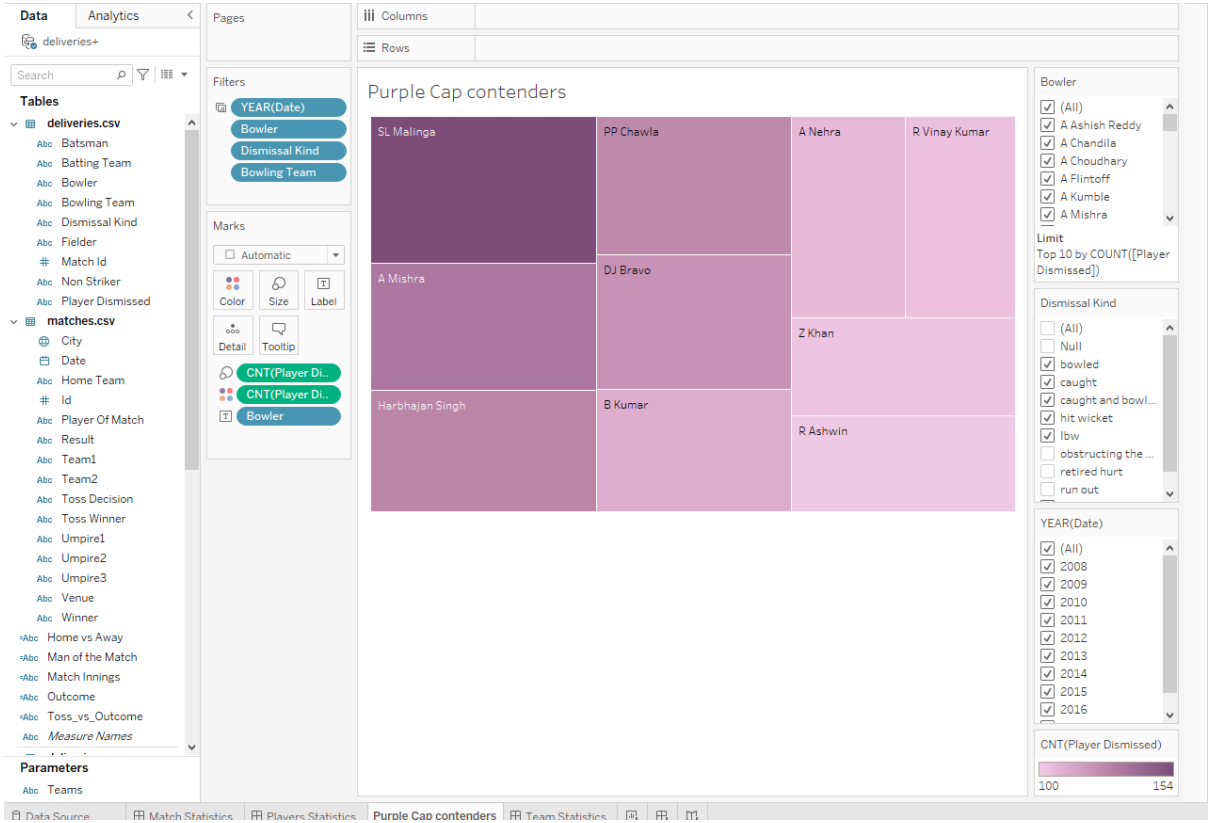
Finally, we go to show me and choose treemaps to show the orange cap contenders. We can also change the color to orange by clicking on Color and selecting the color of pallete manually.



6. Purple Cap Contenders (Bowlers with maximum wickets in a particular season)

For this, we will put bowler in rows and players dismissed in columns with count of them. After that, we will put the dismissal kind in filter shelf to filter and uncheck obstructing the field, retired hurt, run out. We will put the bowler in the filter shelf and select the top 10 by players dismissed count. We will also put the date in filter and select years and then select the years accordingly.

After that, we will click on Show me button and select the tree map and we can see the tree map visualization. We can also change the color by clicking on the Color and selecting the purple color.



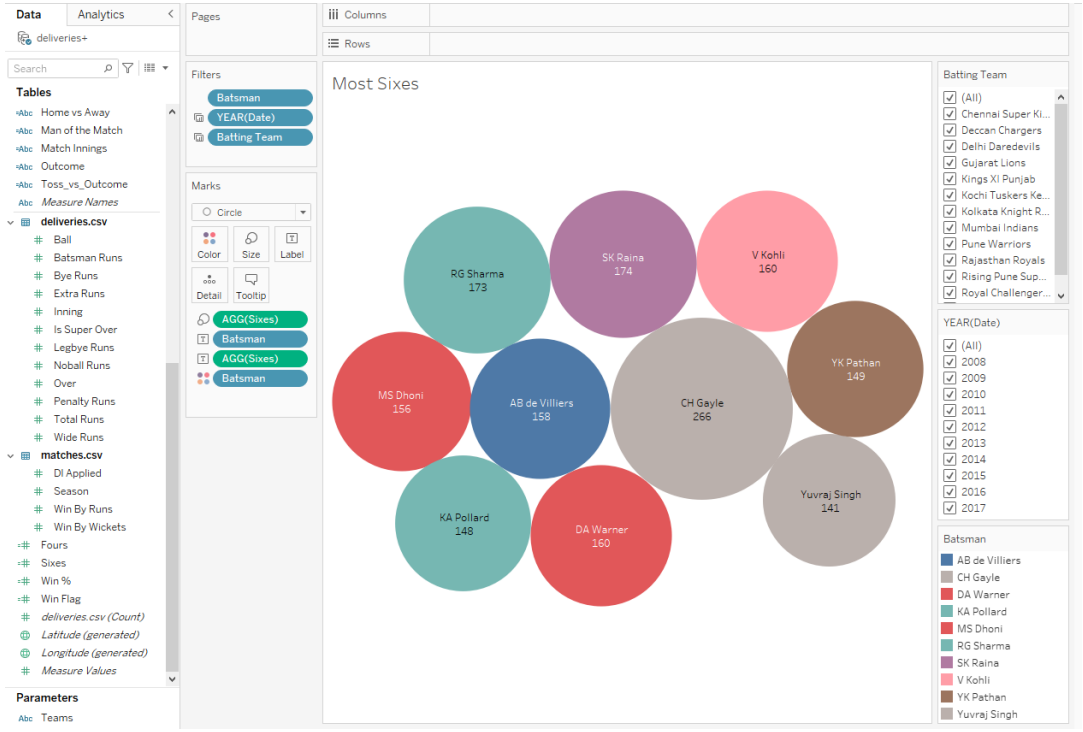
7. Batsmen who have hit most number of 4s and 6s (Season wise and overall)

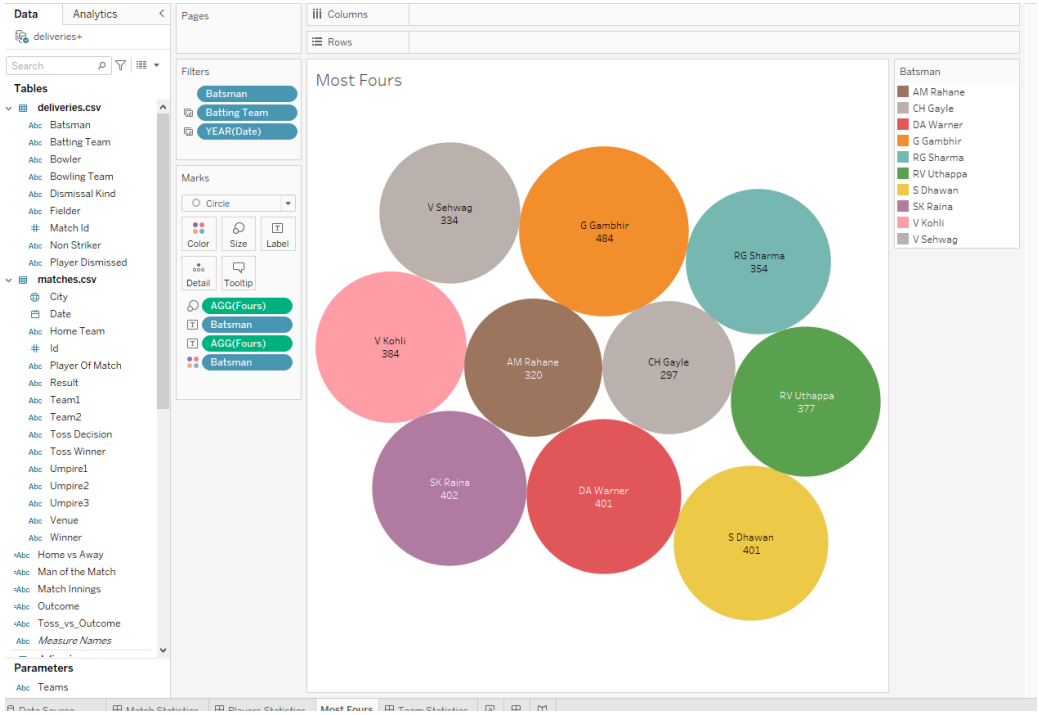
For this, first we will create calculated field for both Fours and Sixes count.

Fours -> IF [Batsman Runs] = 4 THEN 1 ELSE 0 END

Sixes -> IF [Batsman Runs] = 6 THEN 1 ELSE 0 END

We will put Batsman in rows and Fours and Sixes in Columns with sum. After that we will put Batsman in filter shelf and then select top 10 by Fours sum and top 10 by Sixes sum. After that, we will put Date in filter shelf and select years and select years accordingly in the show filter.



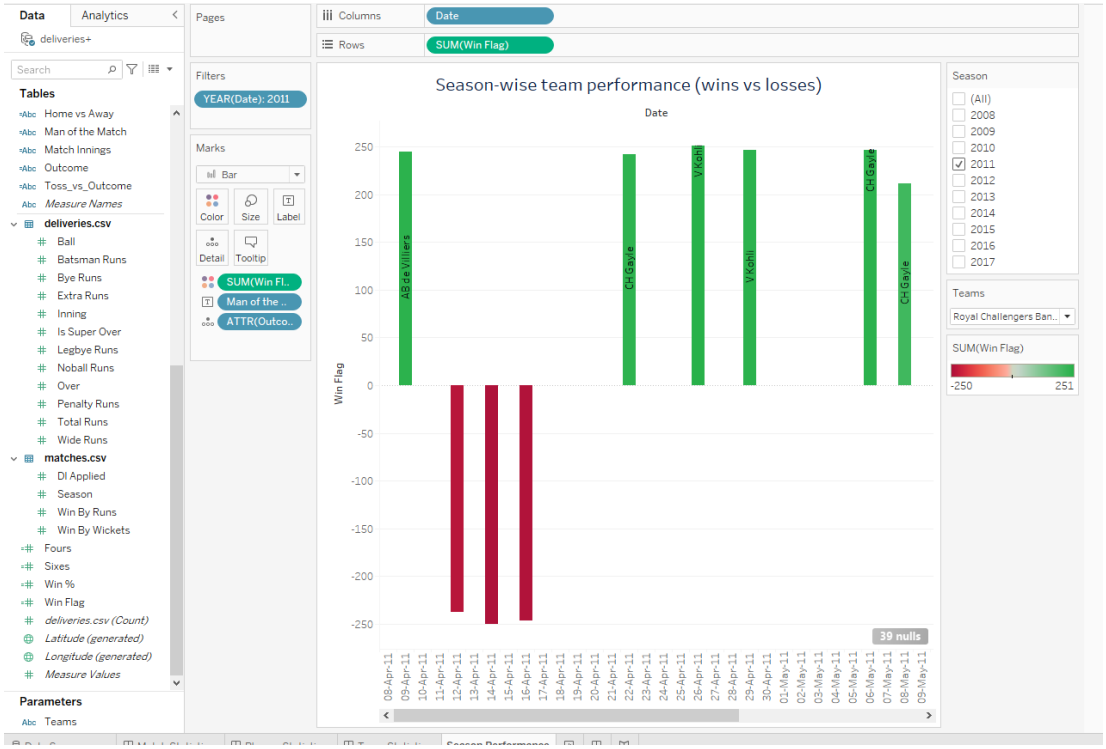


8. Season wise Team Performance (Wins Vs Losses)

To see the Season wise team performance for all teams i.e. Wins and Losses then First creating Parameter called Teams that will consist of the unique teams and then create calculated fields Win Flag.

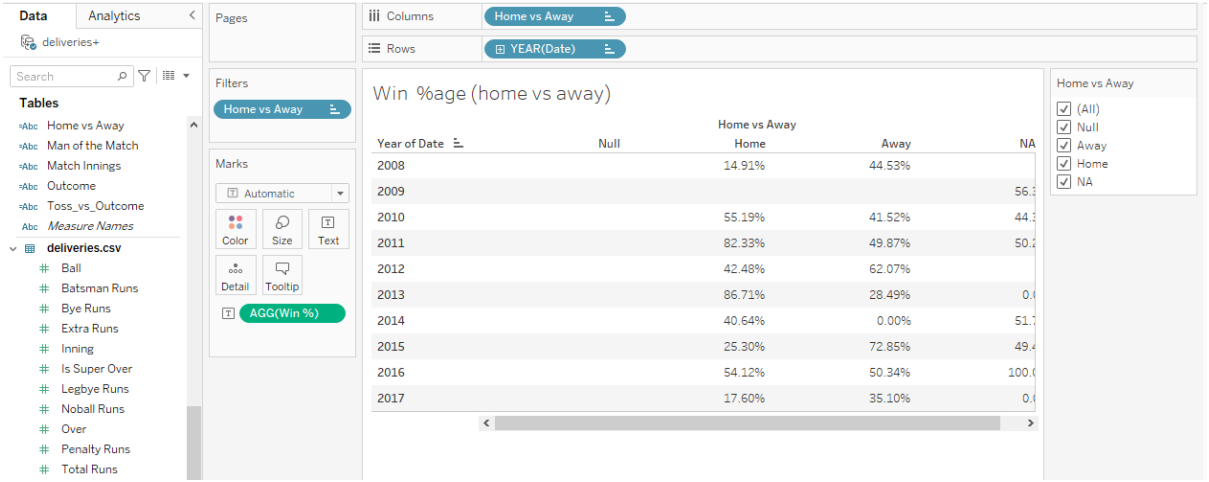
Win Flag -> IF [Teams] = [Winner] THEN 1
ELSEIF [Teams] = [Team1] or [Teams] = [Team2] then -1
END
Also create outcome:
Outcome -> IF [Win Flag]=1 then "Won" ELSE "Lost" END
Putting sum of Win Flag in rows and date (year) in columns. We will put the date in filter shelf and select year to filter by season year. We will put Win Flag in Color to distinguish between Win and Loss with different color and putting Teams in detail.

Therefore, we will be able to see Win Vs Loss performance and we can select the Season Year from the checkboxes and Team from the dropdown parameter.

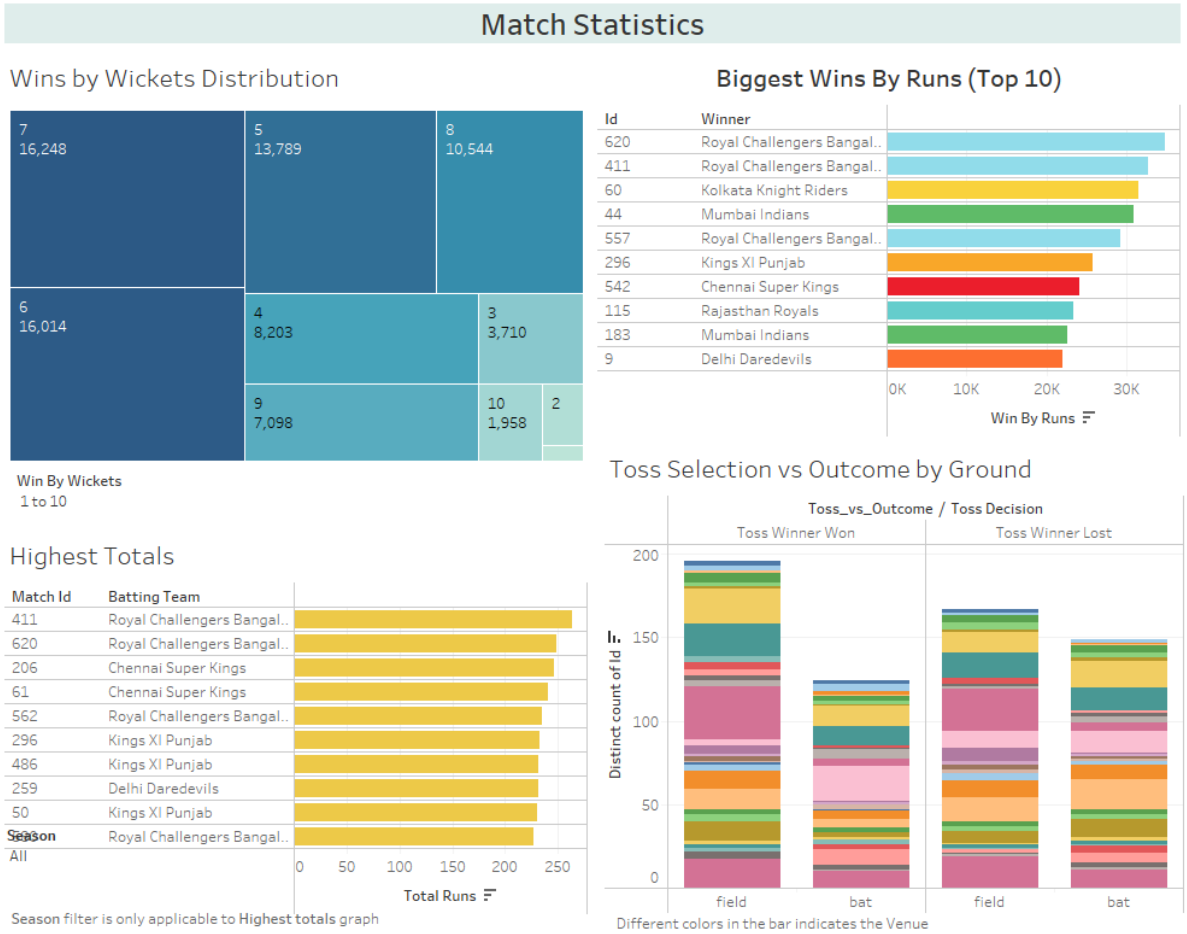


9. Win %age (Home Vs Away)

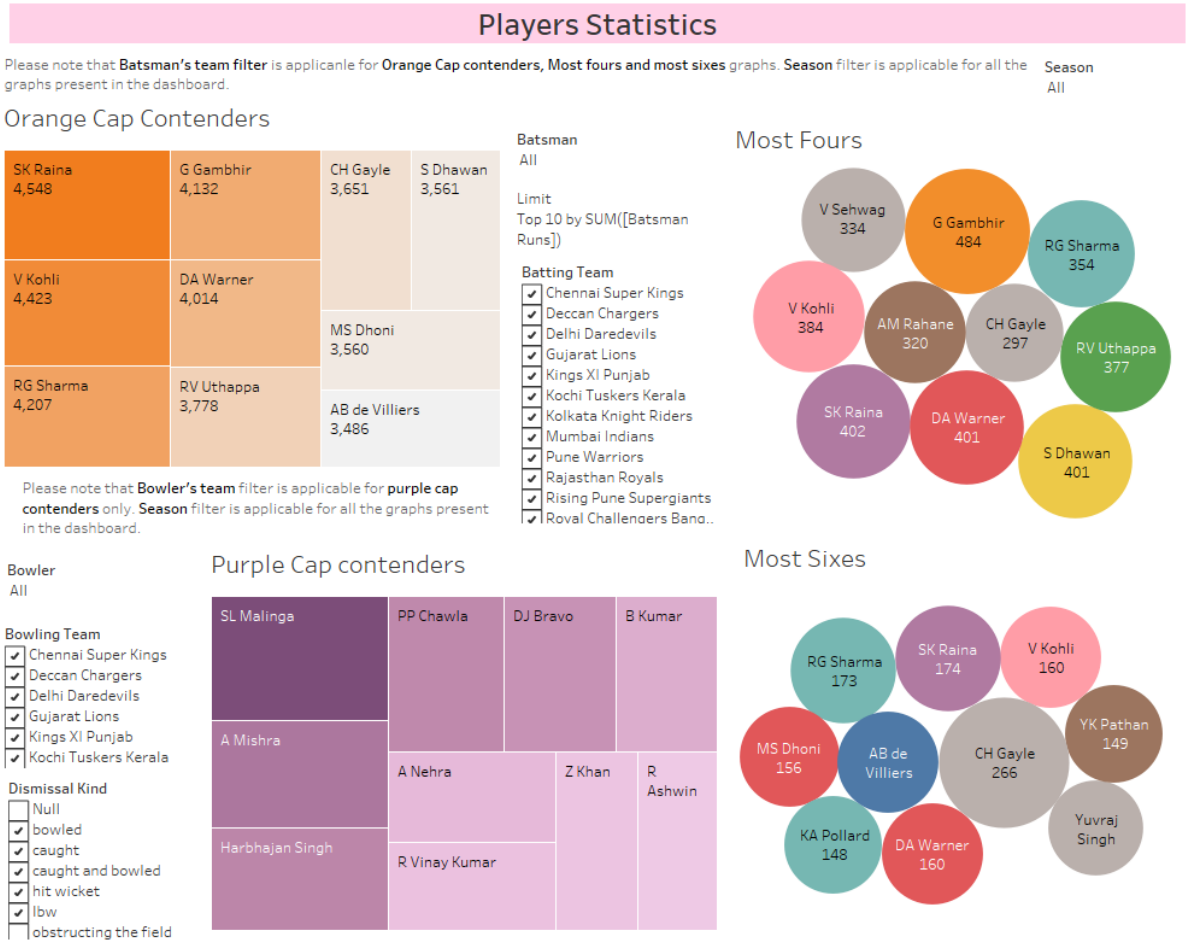
We will first create the two calculated fields Win% and HomeVsAway.
Win% age-> COUNT(IF [WinFlag] = 1 THEN [Id] END) /
COUNT(IF [WinFlag] = 1 OR [WinFlag] = -1 THEN [Id] END)
HomeVsAway ->
IF [Home Team] = "team1" AND [Teams] = [Team1] THEN "Home"
ELSEIF [Home Team] = "team1" AND [Teams] = [Team2] THEN "Away"
ELSEIF [Home Team] = "NA" THEN "NA"
ELSEIF [Home Team] = "team2" AND [Teams] = [Team1] THEN "Away"
ELSEIF [Home Team] = "team2" AND [Teams] = [Team2] THEN "Home"
END
We will first put Home Vs Away in Columns and date(year) in rows and put Home Vs Away in filter shelf and by selecting all and showing filter we can select the option we want.
We will then put the Win%age in the table and it will be added as aggregate of Win%age as Text.



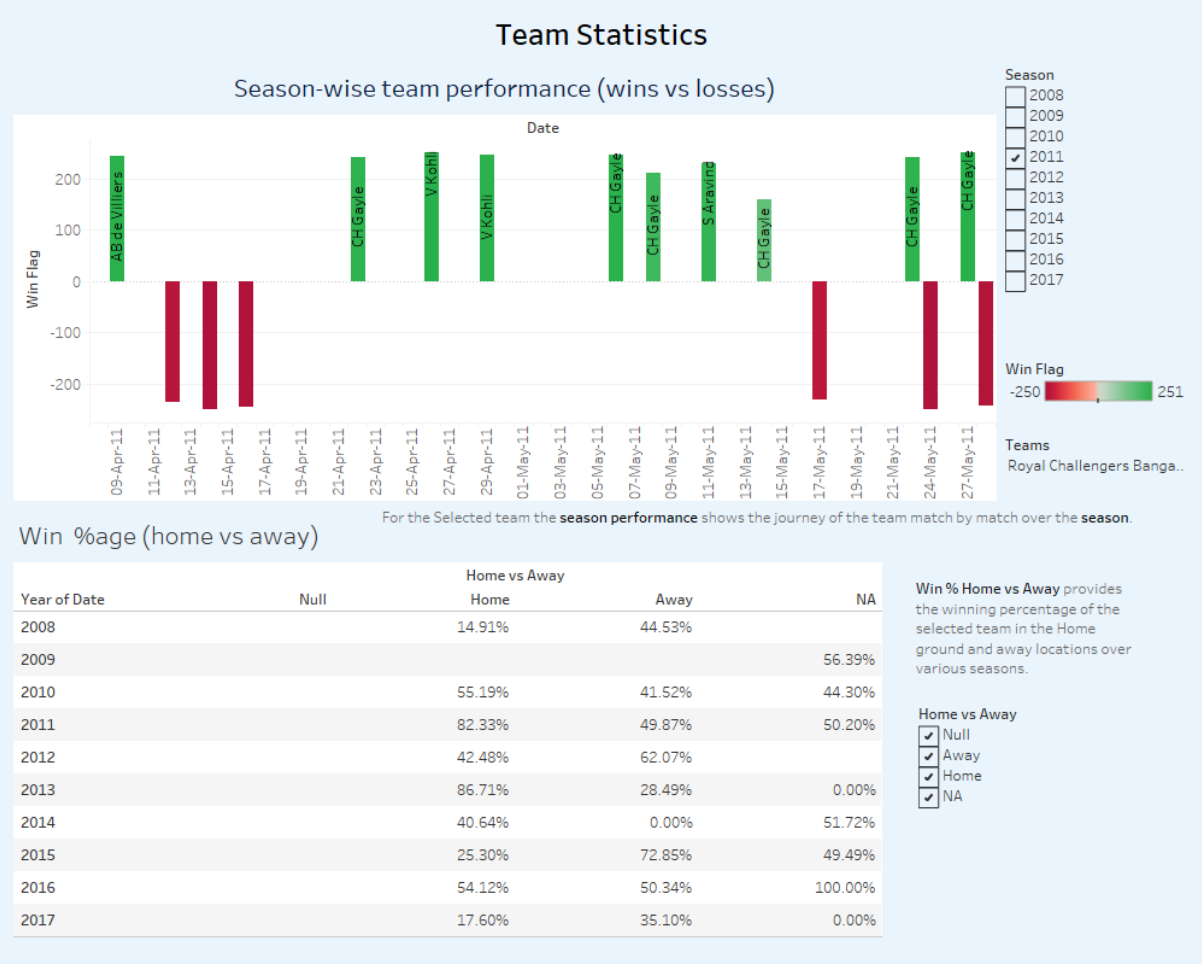
Dashboard 1 : Match Statistics



Dashboard 2 : Player Statistics



Dashboard 3 : Team Statistics



For the Selected team the **season performance** shows the journey of the team match by match over the **season**.

Win %age (home vs away)

	Home vs Away		
Year of Date	Null	Home	Away	NA
2008		14.91%	44.53%	
2009				56.39%
2010		55.19%	41.52%	44.30%
2011		82.33%	49.87%	50.20%
2012		42.48%	62.07%	
2013		86.71%	28.49%	0.00%
2014		40.64%	0.00%	51.72%
2015		25.30%	72.85%	49.49%
2016		54.12%	50.34%	100.00%
2017		17.60%	35.10%	0.00%

Win % Home vs Away provides the winning percentage of the selected team in the Home ground and away locations over various seasons.

Home vs Away
- Null
- Away
- Home
- NA