INDIAN PREMIER LEAGUE ®

IPL Assignment

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Problem Statement

The Indian Premier League (IPL) is one of the most-watched and most attended live sporting events in India.

Being a data analyst at IFP, the Sports Editor of the agency has approached 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. Below are the requirements.

Match Statistics

- Toss outcome vs Match outcome

- Biggest wins by runs and Biggest wins by wicket

- Highest totals

Player Statistics

- Orange Cap contenders

- Purple Cap contenders

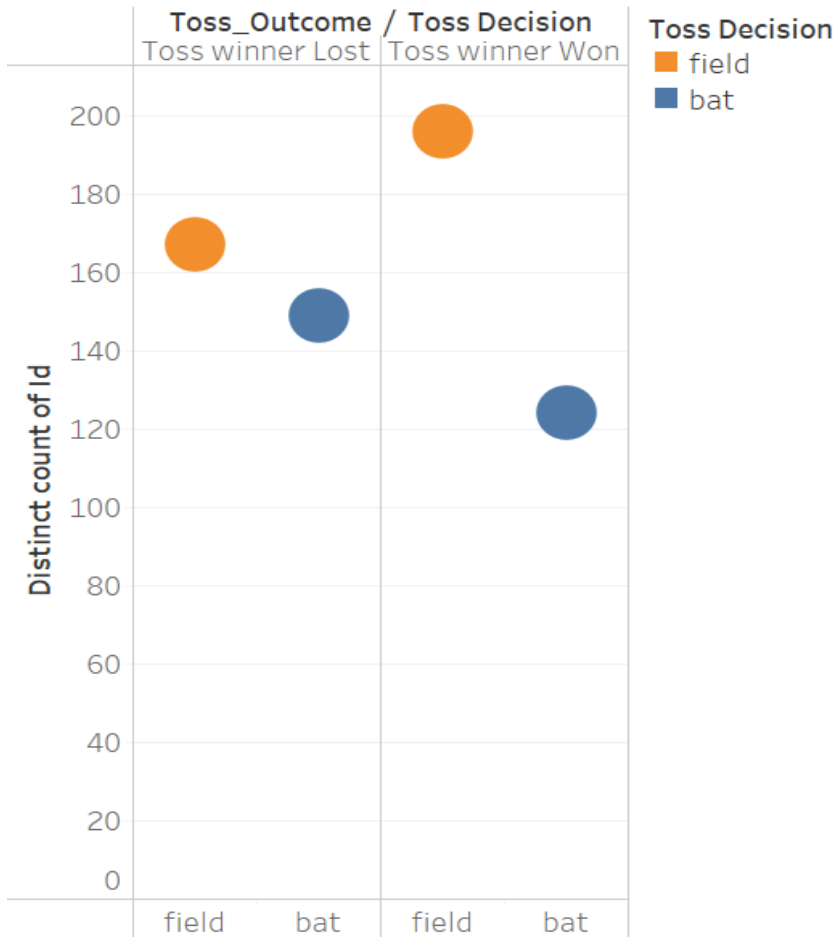- Batsmen who have hit the most number of fours and sixes

Team Statistics

- Season-wise team performance

- Win Percentage

TOSS OUTCOME VS MATCH OUTCOME

## Toss outcome vs Match outcome

- A visualisation was plot between the Toss Decision (Batting or fielding) and the match outcome.

- From the visualisation, it can be observed that if the toss winning team has won more than number of matches if they have chosen to field First.

- The graph has been made interactive, so the outcome of toss and corresponding match outcome can be predicted for each venue by choosing the venue in filter.
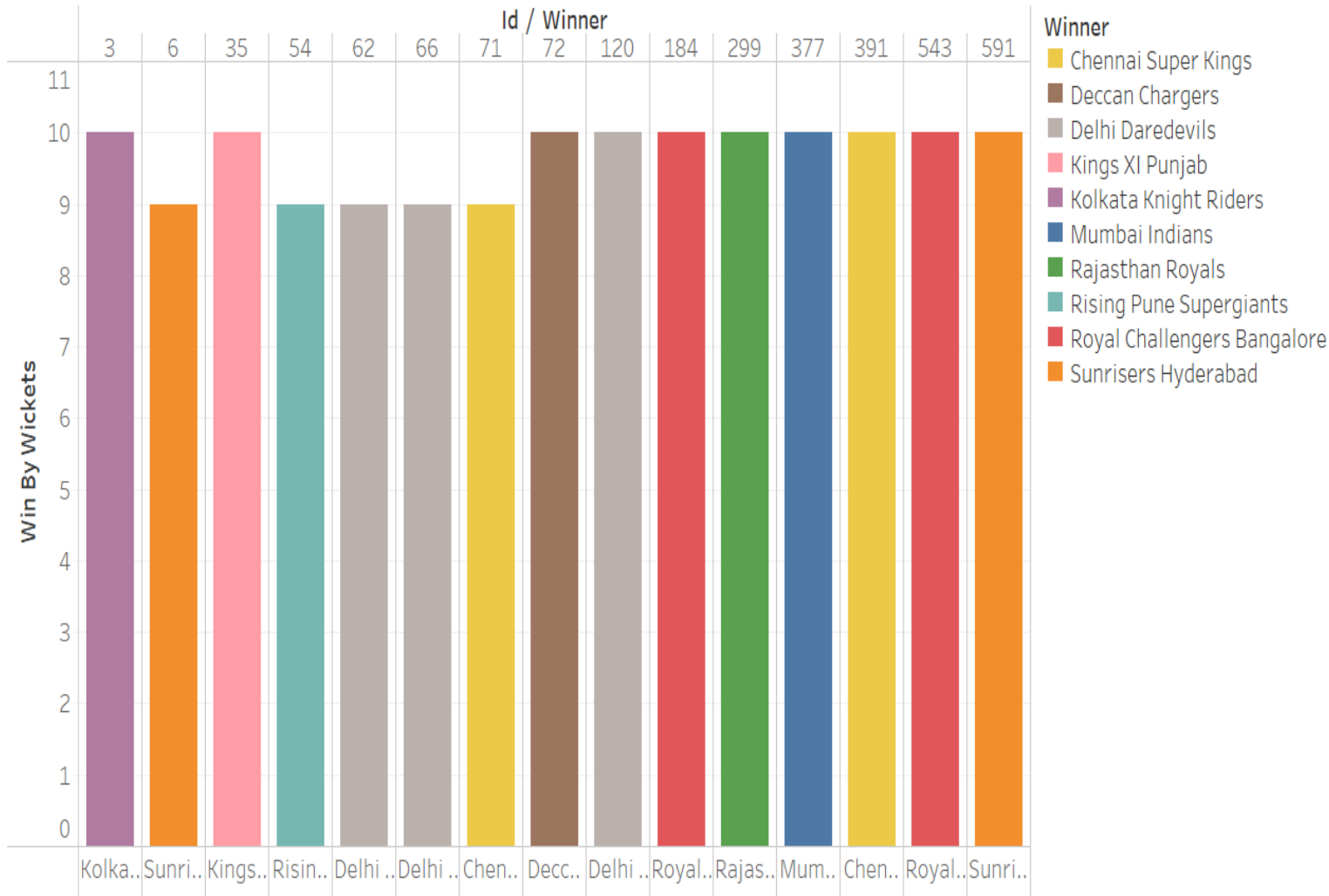
BIGGEST WIN BY RUNS

Biggest Win by Runs
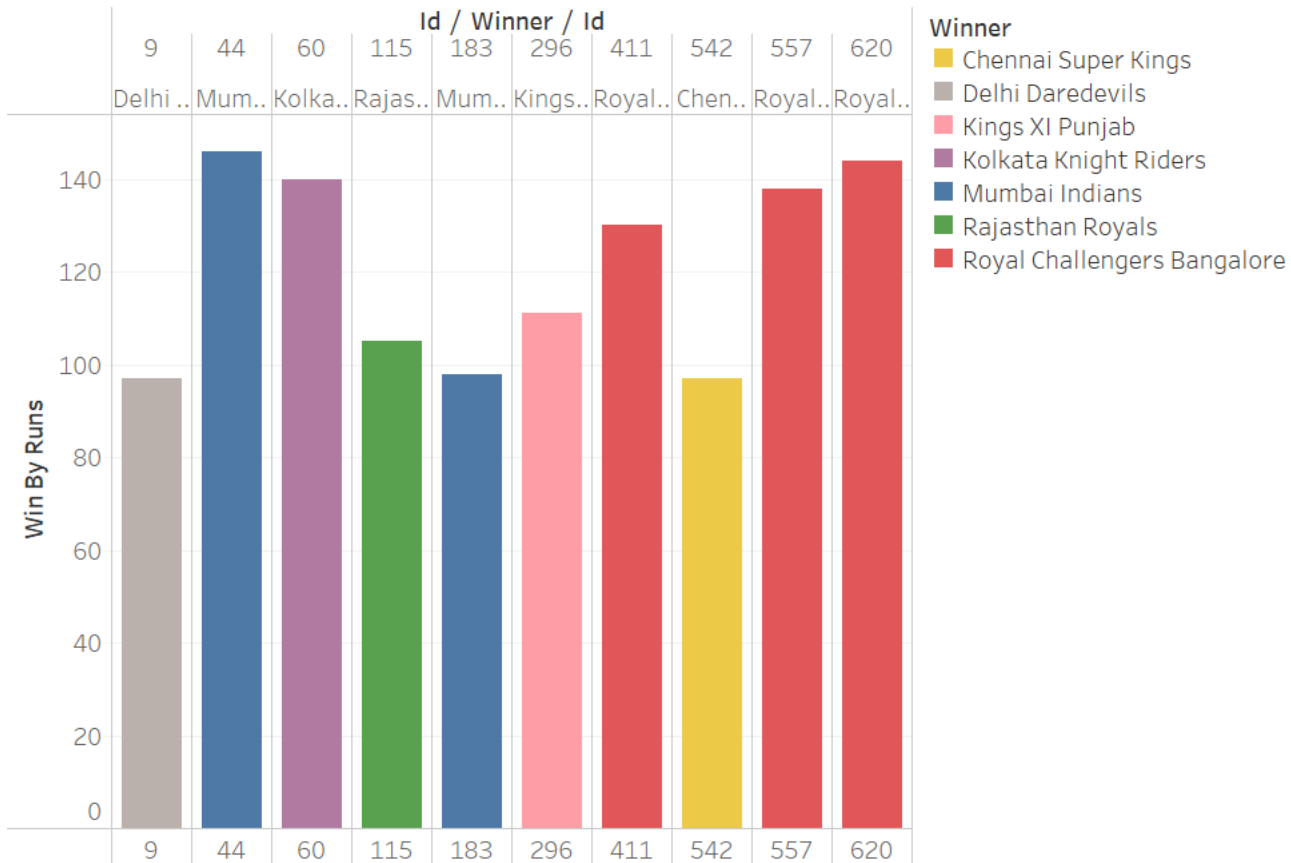
- To visualise the team with biggest win by runs, The adjacent graph was plot.

- Mumbai Indians has registered the biggest ever win by 146 runs in the year 2017.

- Following Mumbai Indians, Royal Challengers Bangalore has registered a big win by 144 runs in the year 2016.

- It has been observed that RCB has won 3 matches out of top 5 biggest wins in the year 2013, 2015 and 2016.

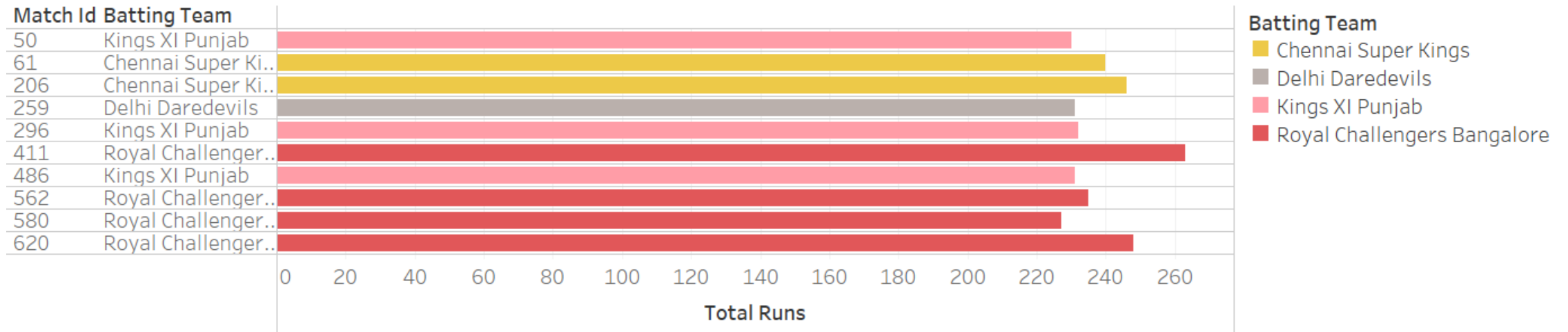# BIGGEST WIN BY WICKETS

Biggest Win by Wickets

- A visualisation was plot for biggest win by wickets.

- From the visualisation, we are able to observe that 10 times a team has won by 10 wickets in a match.

- Out of those 10 matches, RCB has won two matches with a ten wicket difference followed by CSK, MI, KKR, DD, RR and SRH with one match each.
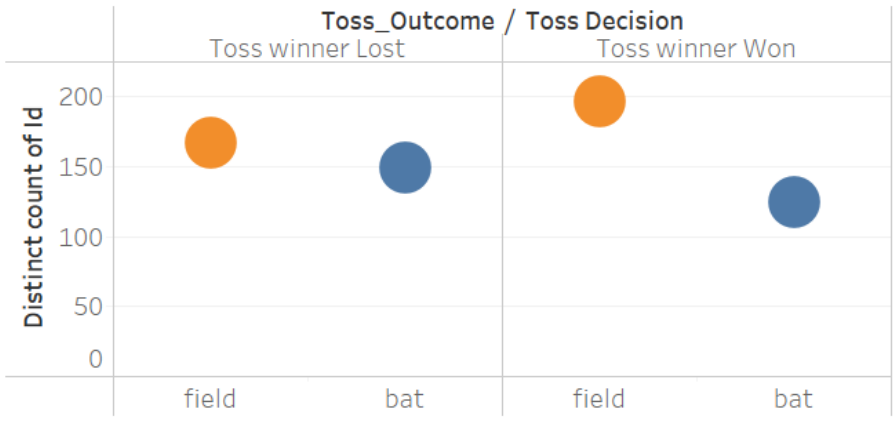
HIGHEST TOTALS

Higgest Totals

Match Id	Batting Team	Total Runs
50	Kings XI Punjab	
61	Chennai Super Ki..	
206	Chennai Super Ki..	
259	Delhi Daredevils	
296	Kings XI Punjab	
411	Royal Challenger..	
486	Kings XI Punjab	
562	Royal Challenger..	
580	Royal Challenger..	
620	Royal Challenger..	

Batting Team
- Chennai Super Kings
- Delhi Daredevils
- Kings XI Punjab
- Royal Challengers Bangalore

- A visualisation was plot to identify the top teams with highest total in a single match.

- RCB has topped the list with a total of 263 runs in a single match in the year 2013.

- RCB has scored more than 220 runs in a single match 4 times, followed by KXIP (3 times).

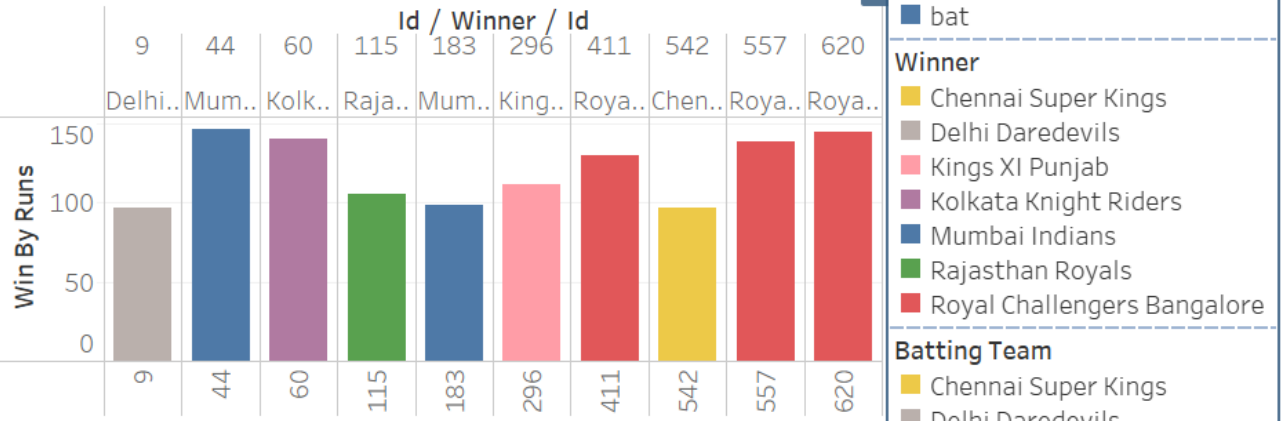- CSK has scored 246 runs in the year 2010.

MATCH STATISTICS DASHBOARD

Match Statistics

Toss outcome vs Match outcome

Toss_Outcome / Toss Decision

Toss winner Lost	Toss winner Won

Biggest Win by Runs

Id / Winner / Id

9	44	60	115	183	296	411	542	557	620
Delhi..	Mum..	Kolk..	Raja..	Mum..	King..	Roya..	Chen..	Roya..	Roya..

Biggest Win by Wickets

Id / Winner

3	6	35	54	62	66	71	72	120	184	299	377	391	543	591

Higgest Totals

Match Id	Batting Team
50	Kings XI Punjab
61	Chennai Super Ki..
206	Chennai Super Ki..
259	Delhi Daredevils
296	Kings XI Punjab
411	Royal Challenger..
486	Kings XI Punjab
562	Royal Challenger..
580	Royal Challenger..
620	Royal Challenger..

Toss Decision
- field
- bat

Winner
- Chennai Super Kings
- Delhi Daredevils
- Kings XI Punjab
- Kolkata Knight Riders
- Mumbai Indians
- Rajasthan Royals
- Royal Challengers Bangalore

Batting Team
- Chennai Super Kings
- Delhi Daredevils
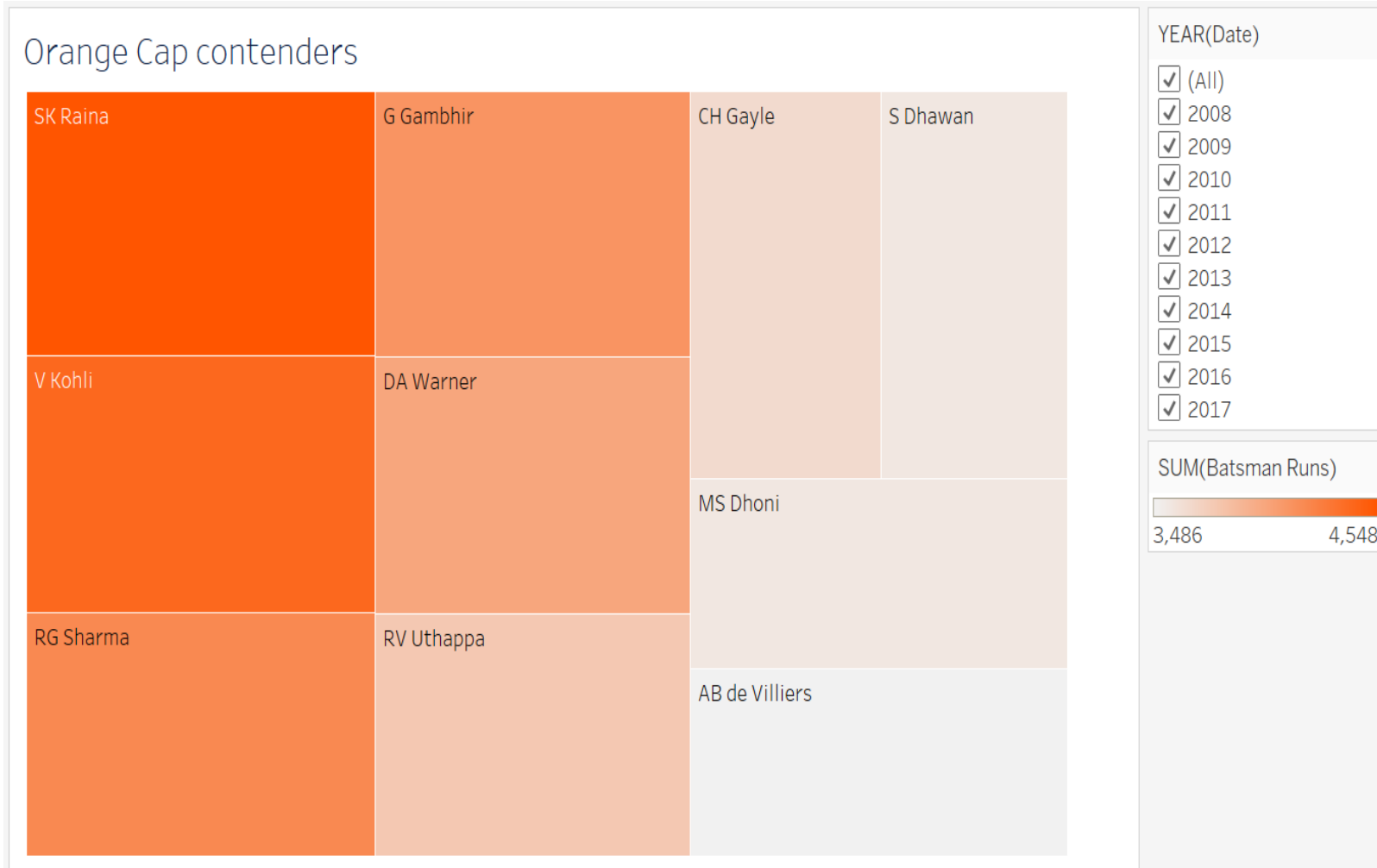- Kings XI Punjab
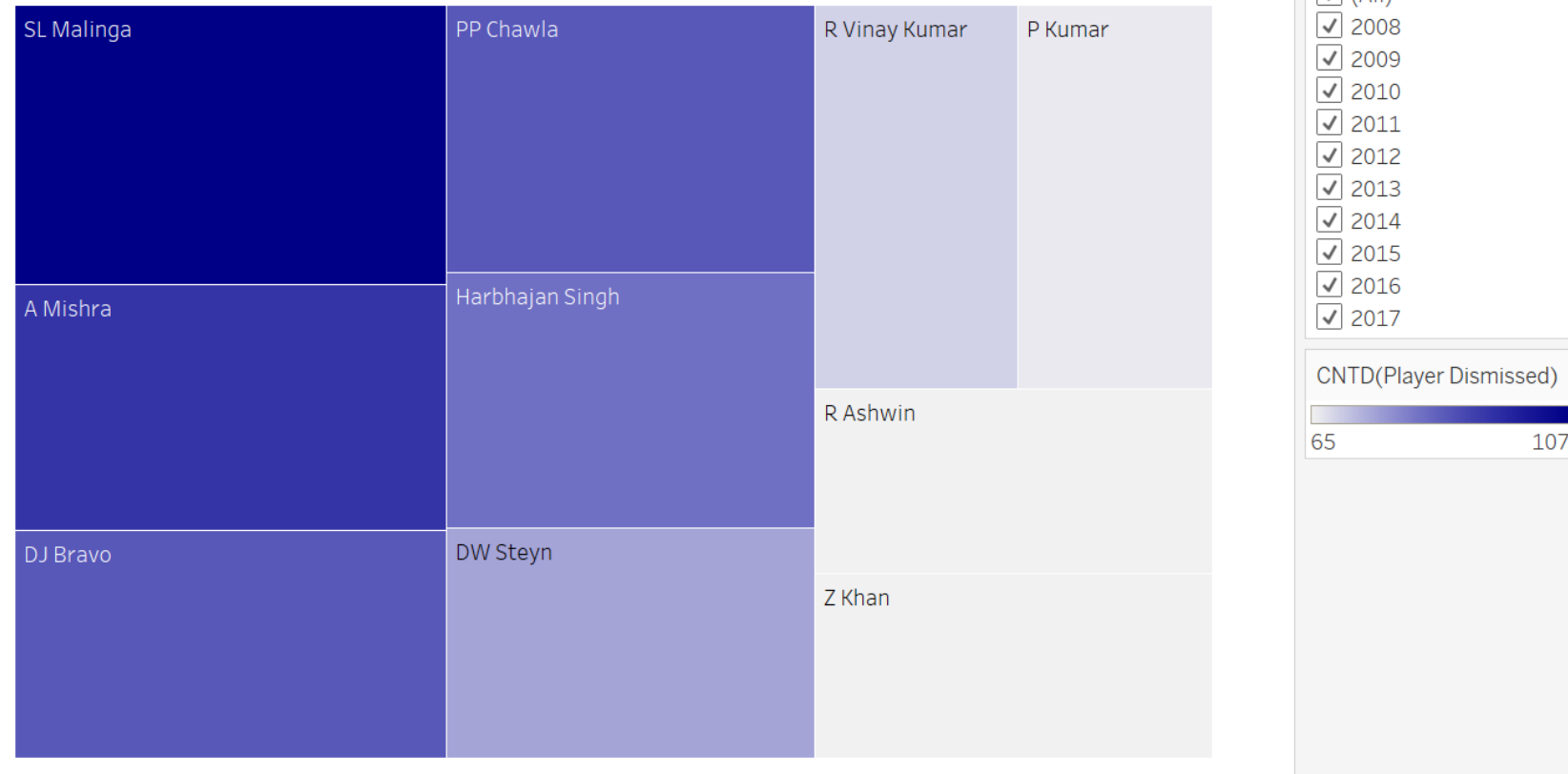- Royal Challengers Bangalore
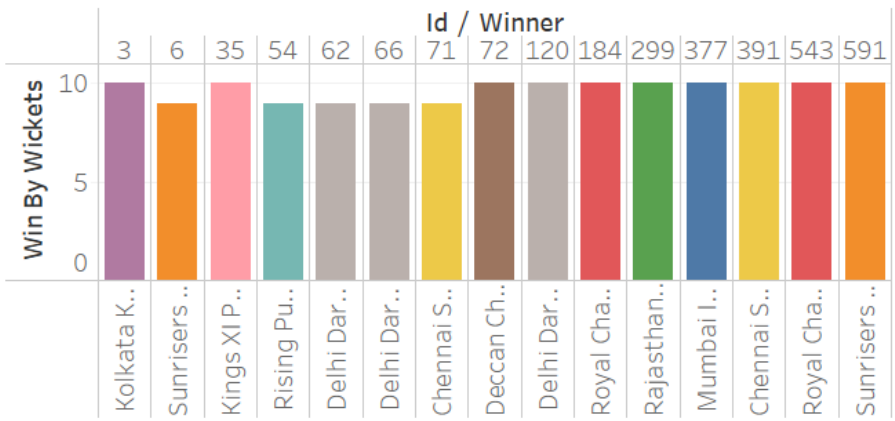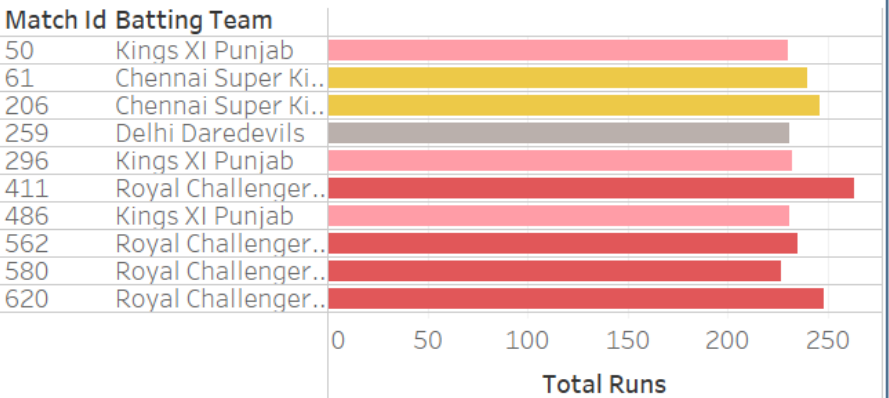
ORANGE CAP CONTENDERS

- Orange cap will be awarded to the player with most runs in a season. A visualisation was plot to identify the orange cap contenders.

- Suresh Raina has scored a total of 4548 runs in total (including all the seasons played).

- In the year 2010, Suresh Raina has scored 528 runs.

- In the year 2015 David Warner received the orange cap for scoring 562 runs.
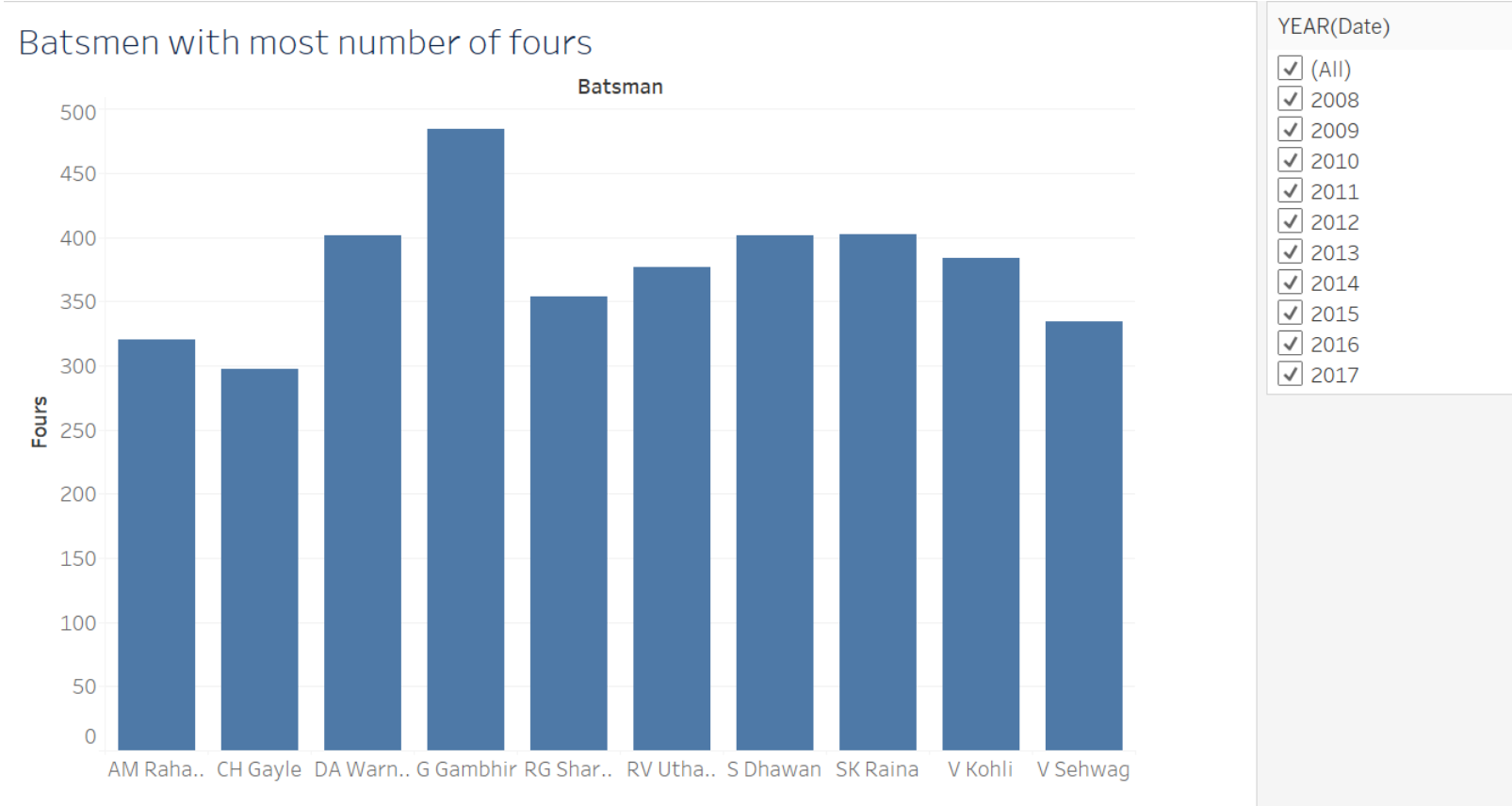
PURPLE CAP CONTENDERS

Purple Cap contenders

SL Malinga	PP Chawla	R Vinay Kumar	P Kumar
A Mishra	Harbhajan Singh	R Ashwin	
DJ Bravo	DW Steyn	Z Khan	

YEAR(Date)
- ✓ (All)
- ✓ 2008
- ✓ 2009
- ✓ 2010
- ✓ 2011
- ✓ 2012
- ✓ 2013
- ✓ 2014
- ✓ 2015
- ✓ 2016
- ✓ 2017

CNTD(Player Dismissed)

65   107

- Purple cap will be awarded to the player with most wickets in a season. A visualisation was plot to identify the purple cap contenders.

- Malinga has taken the highest number of wickets 107 (including all the seasons played).

- In the year 2013, DJ Bravo has taken 26 wickets.

- In the year 2014 R Ashwin received the purple cap for picking 16 wickets.

BATSMEN WHO HAVE HIT THE MOST NUMBER OF FOURS
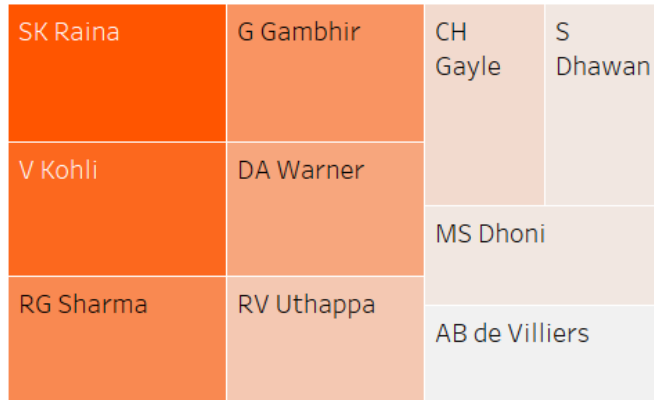
Batsmen with most number of fours

- A visualisation was plot to observe the batsmen with most number of fours.

- Gambhir has hit a total of 484 fours (including all the seasons) topping the list of batsmen with most number of fours.

- In the year 2008, Gambhir has scored 68 fours.

- In the year 2017, David Warner has hit a total of 63 fours.

BATSMEN WHO HAVE HIT THE MOST NUMBER OF SIXES

Batsmen with most number of Sixes

YEAR(Date)
- ☑ (All)
- ☑ 2008
- ☑ 2009
- ☑ 2010
- ☑ 2011
- ☑ 2012
- ☑ 2013
- ☑ 2014
- ☑ 2015
- ☑ 2016
- ☑ 2017

Batsman
- ■ AB de Villiers
- ■ CH Gayle
- ■ DA Warner
- ■ KA Pollard
- ■ MS Dhoni
- ■ RG Sharma
- ■ SK Raina
- ■ V Kohli
- ■ YK Pathan
- ■ Yuvraj Singh

- A visualisation was plot to observe the batsmen with most number of Sixes.

- Chris Gayle has hit a total of 266 sixes (including all the seasons) topping the list of batsmen with most number of sixes.

- In the year 2011, Chris Gayle has hit 44 sixes.

- In the year 2014, David Warner has hit a total of 24 sixes.

PLAYER STATISTICS DASHBOARD

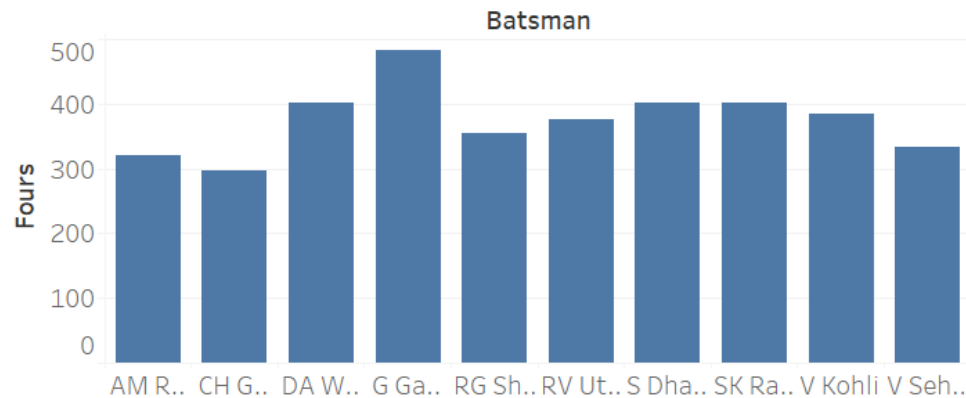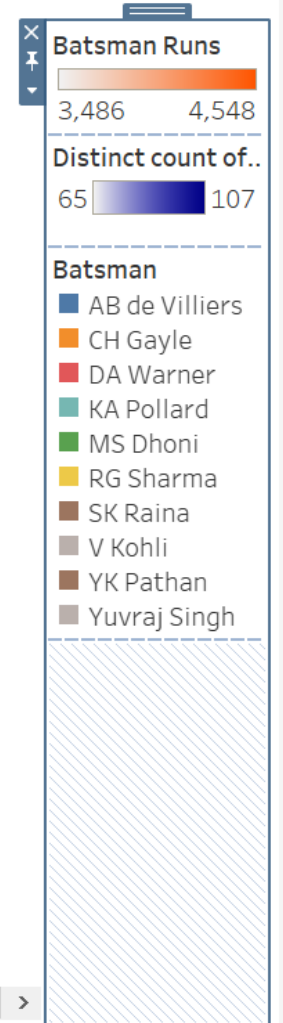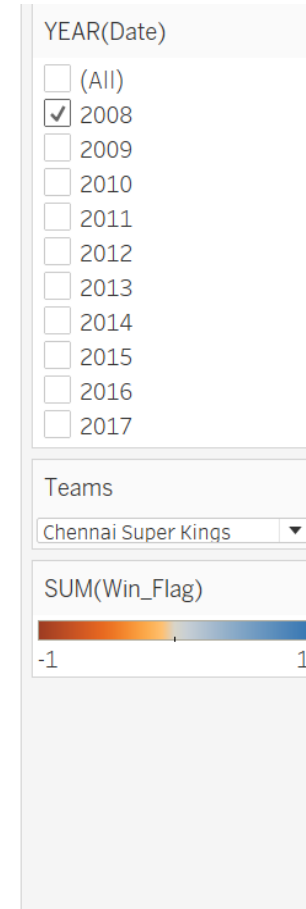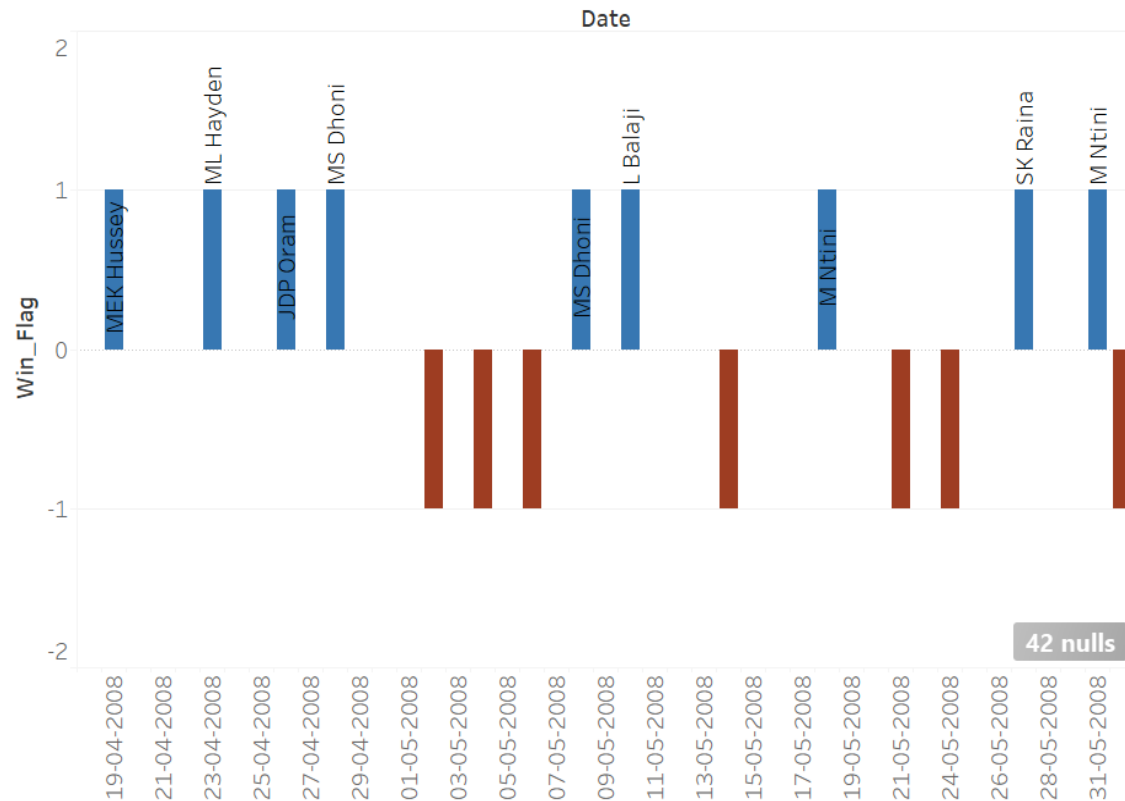# SEASON-WISE TEAM PERFORMANCE

Season-wise team performance

- A visualisation was plot to observe the performance of each team in every season.

- The Blue bars indicates if the team has won in a particular match (The man of the match is also displayed in case the match has been won). Whereas the red bar indicates if the team has lost the particular match.

- CSK has won the match played on 08/05/2008. MS Dhoni was awarded man of the match.

WIN PERCENTAGE

Win Percentage

Home_..	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Null										
Away	71.4%		57.1%	16.7%	33.3%	62.5%	80.0%	42.9%		
Home	42.9%		57.1%	100.0%	60.0%	75.0%		85.7%		
NA	50.0%	57.1%	50.0%	100.0%	100.0%	50.0%	54.5%	33.3%		

Home_Away

☑ (All)
☑ Null
☑ Away
☑ Home
☑ NA

AGG(Win %)
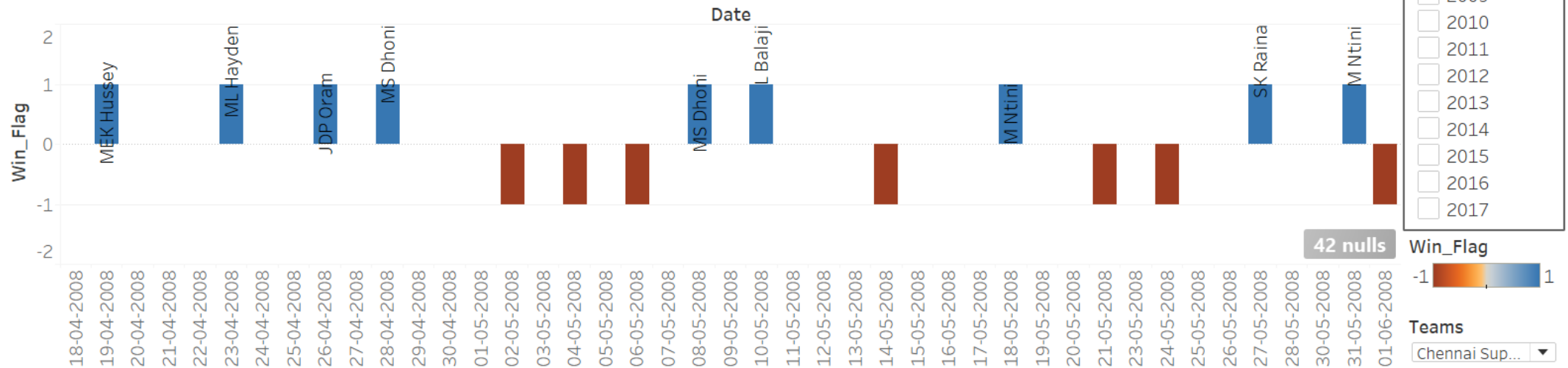
16.7% ──────── 100.0%

Teams

Chennai Super Kings ▾

- A visualisation was plot to observe the winning percentage in home and away grounds for each year.

- In the Year 2011, CSK has won all the matches played in their home ground and lost 16.7% of the matches played in away ground.

- In the Year 2014, MI has won 66.7% of the matches in their home ground but won all the matches played in away ground.

TEAM STATISTICS DASHBOARD

THANK YOU