

IPL Visualization Assignment

AGENDA

- Objective
- Background
- Key Findings
- Appendix:
 - Data Sources
 - Data Methodology

Objective

- **To Find the Match Statistics-**
 - Toss outcome vs Match outcome (for each Ground/Venue)
 - Biggest wins (by runs and by wicket)
 - Highest totals (across all the seasons)
- **To Find the Player Statistics-**
 - Orange cap contenders (Particular Season)
 - Purple cap contenders (Particular Season)
 - Batsmen who have hit the most number of fours and sixes (Per Season and Overall)
- **To Find the Team Statistics-**
 - Season – wise team performance
 - Win percentage (Home vs Away)

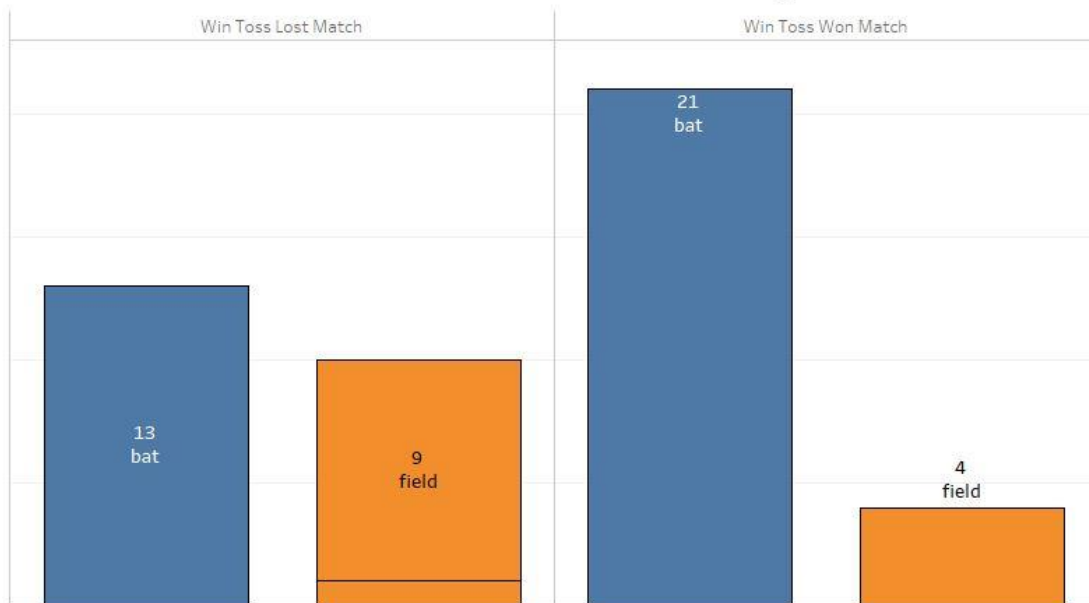
Background

- Indian Premier League, or IPL, is a T20 cricket league, which was founded in 2008 and is held every year.
- 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.
- IPL has become one of the most-watched and most attended live sporting events all over the world.

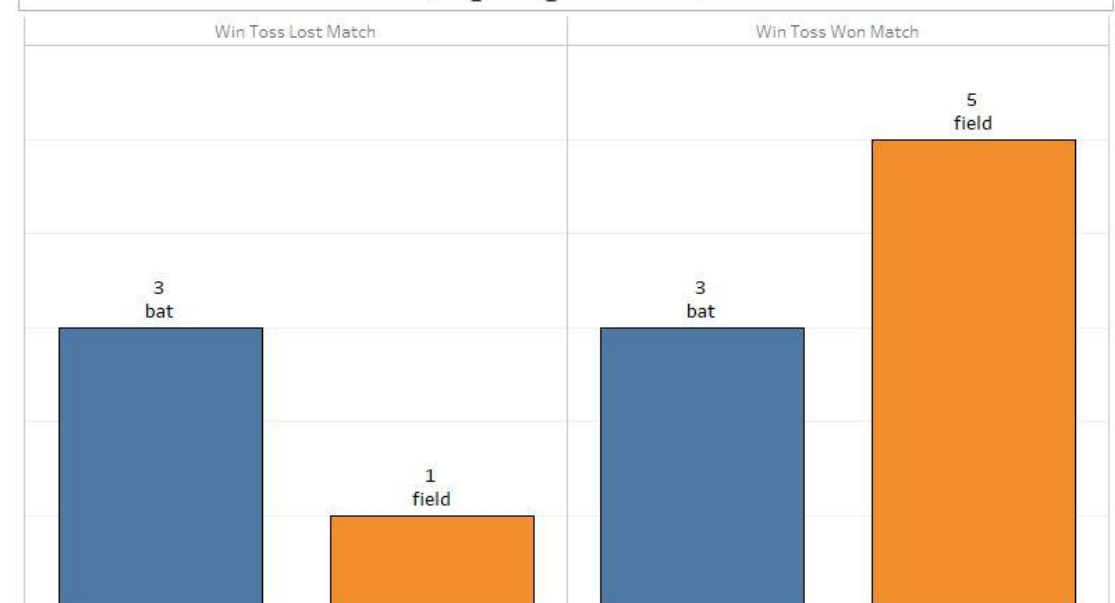
Toss outcome vs Match outcome

- Team who **Field First** in the match win **almost 86%** of the matches at **M Chinnaswamy Stadium**.
- Team who **Bat First** in the match win **almost 73%** of the matches at **MA Chidambaram Stadium, Chepauk**.

Toss Outcome vs Match Outcome
MA Chidambaram Stadium, Chepauk



Toss Outcome vs Match Outcome
SuperSport Park



Toss outcome vs Match outcome

- There is **50%-50%** Chances to win the match if team select Bat or field first if they are playing on **SuperSport Park, Centurion.**



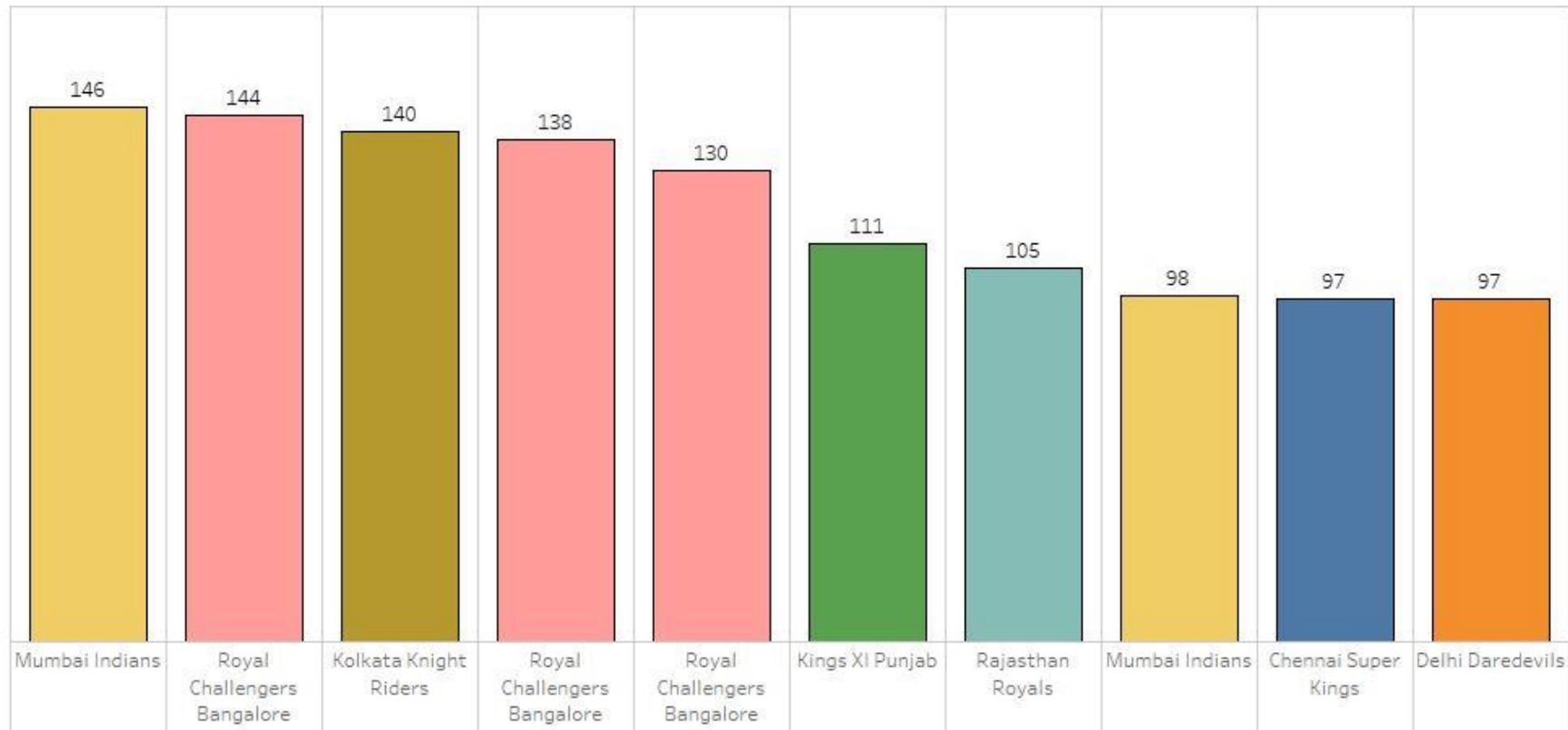
Highest Total in Every Season

- **263** is the highest total scored by **Royal Challengers Bangalore** in **2013**
- **Chennai Super Kings, Royal Challenges Bangalore & King XI Punjab** scored highest total of season **3 times**.
- **Rajasthan Royals** Scored highest total only **1 time** in **2009**.



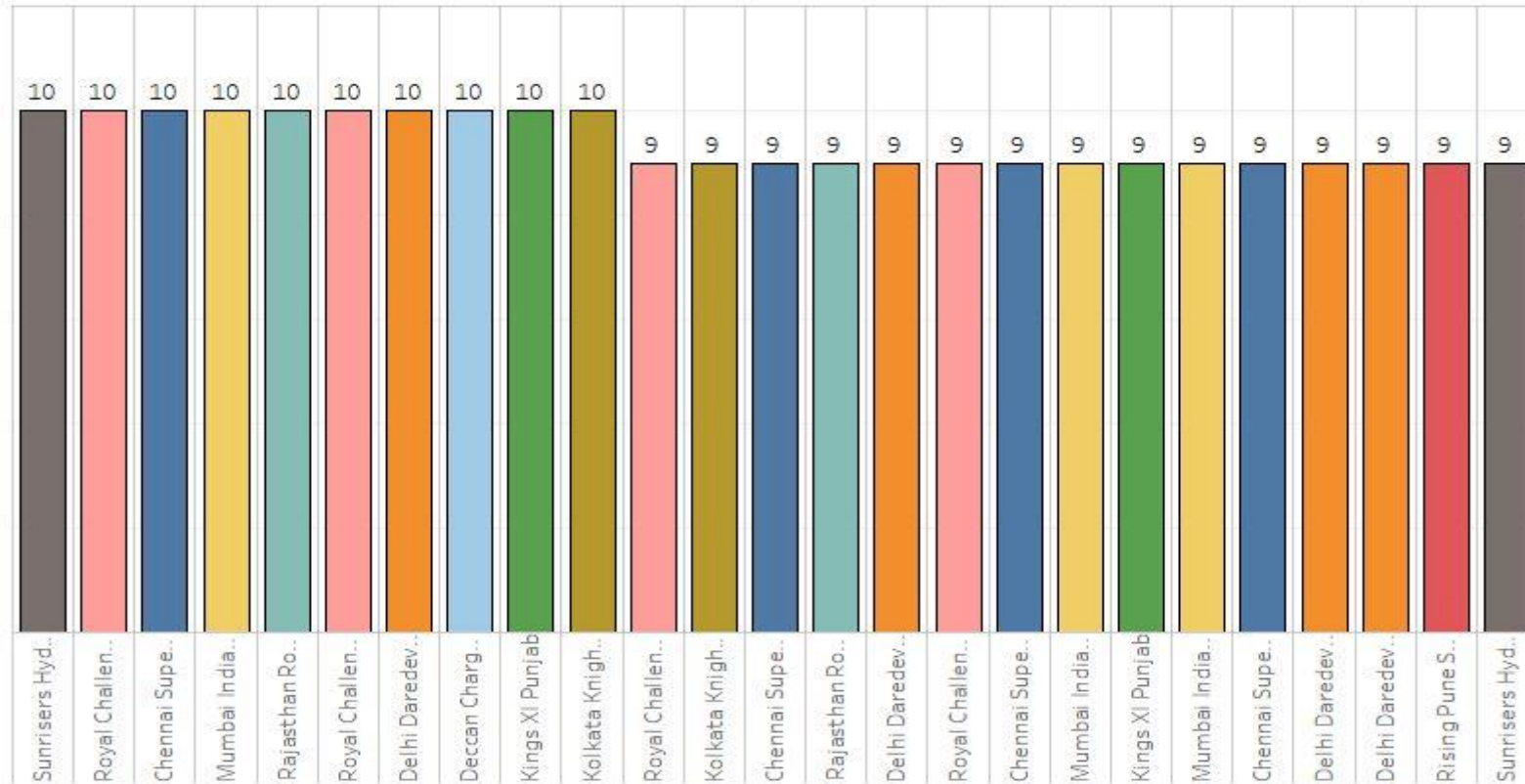
Highest Wins by Runs

- **Mumbai Indians** have the highest wins by runs is **146**.
- **Royal Challengers Bangalore** is the team that have **3 times** wins in **top 5** highest win by runs.



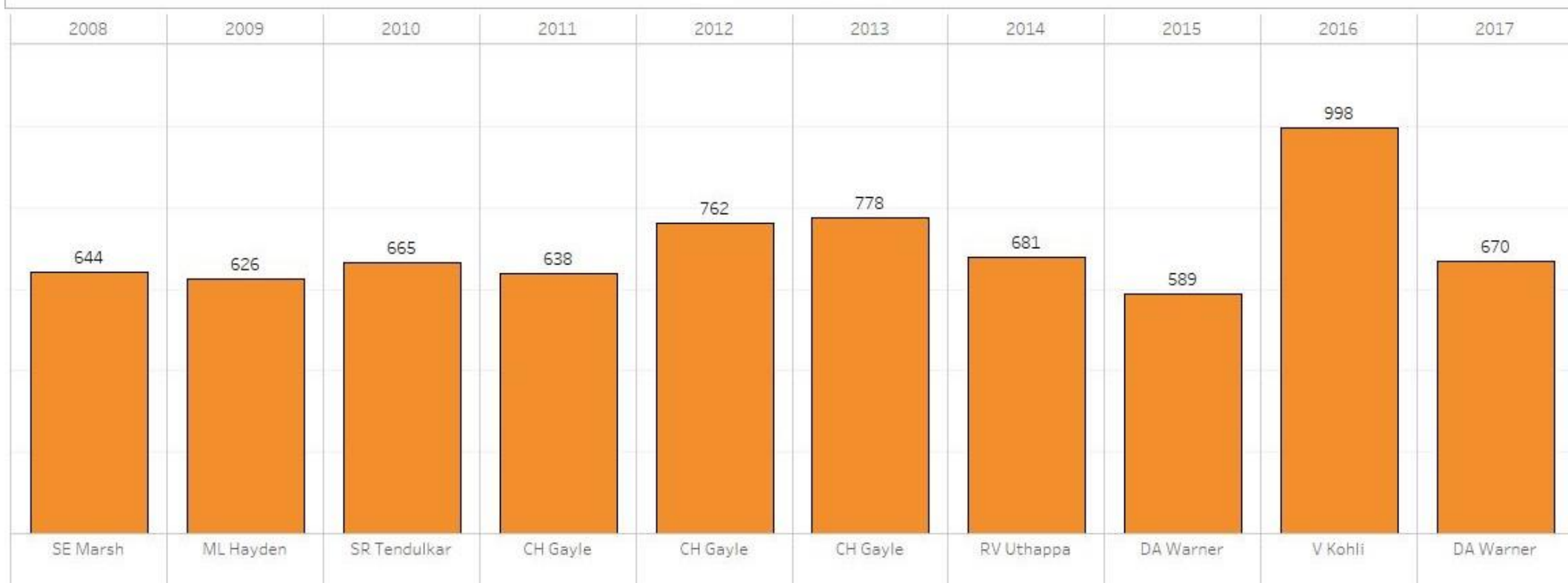
Highest Wins by Wickets

- All team which is in top 10 have the win by 10 wickets.
- **Royal Challengers Bangalore** is the team that have **2 times** wins in top 5 highest win by Wickets.
- **Royal Challengers Bangalore** is the team that have **4 times** wins in top 25 highest win by wickets.



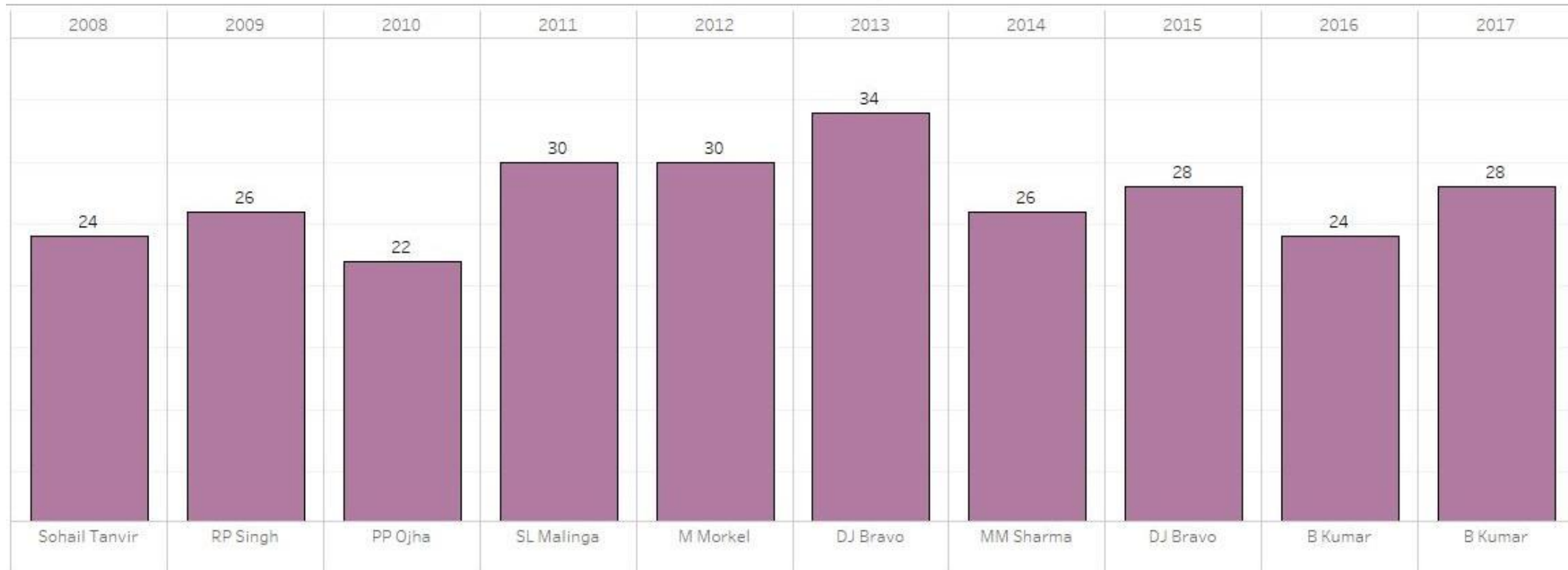
Orange Cap Winner (Per Season)

- **Chris Gayle** won 3 orange Caps form **2011 to 2013**.
- **Virat Kohli** scored **998** in **2016** which the **highest runs score by any batsman in any particular season**.
- After **Chris Gayle**, **David Warner** won Orange cap **most times**.



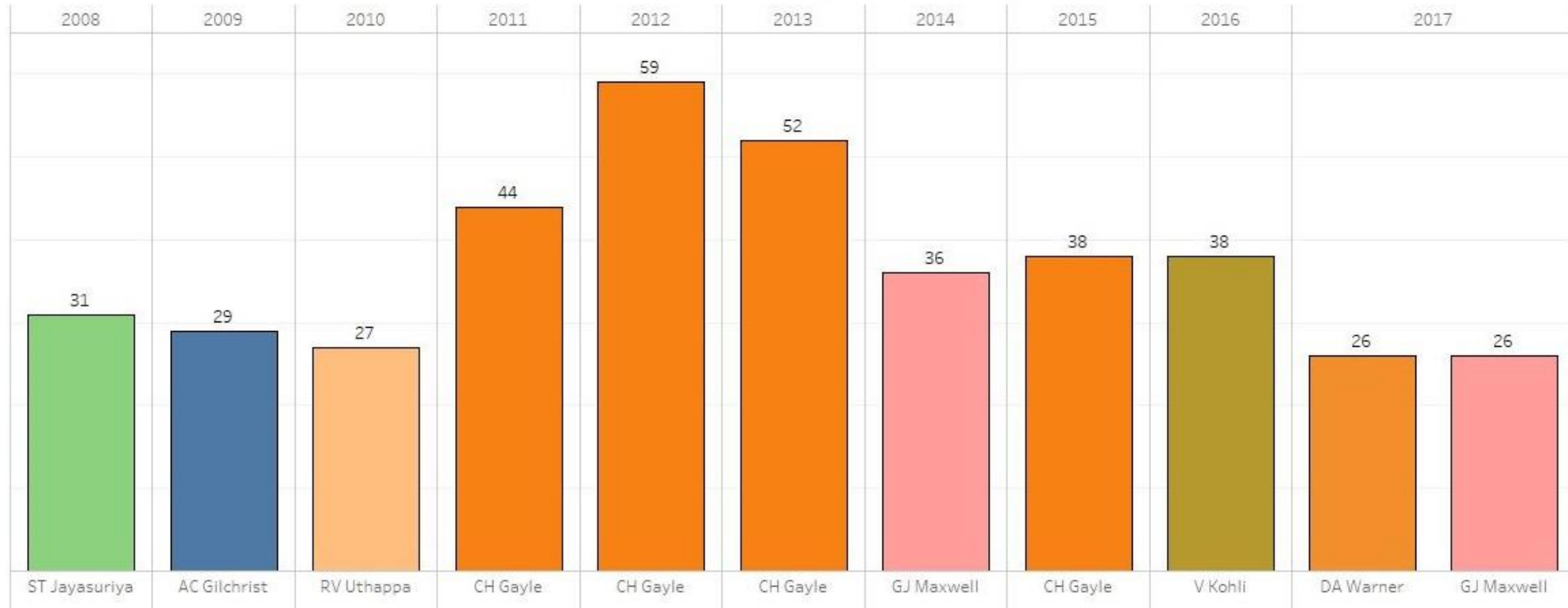
Purple Cap Winner (Per Season)

- **DJ Barvo** Take **highest wicket** across all seasons in **2013**.
- In **2011 SL Malinga** & In **2012 M Morkel** Take **30 wickets** for purple cap.
- **DJ Bravo, B Kumar** won Orange cap **most times**.



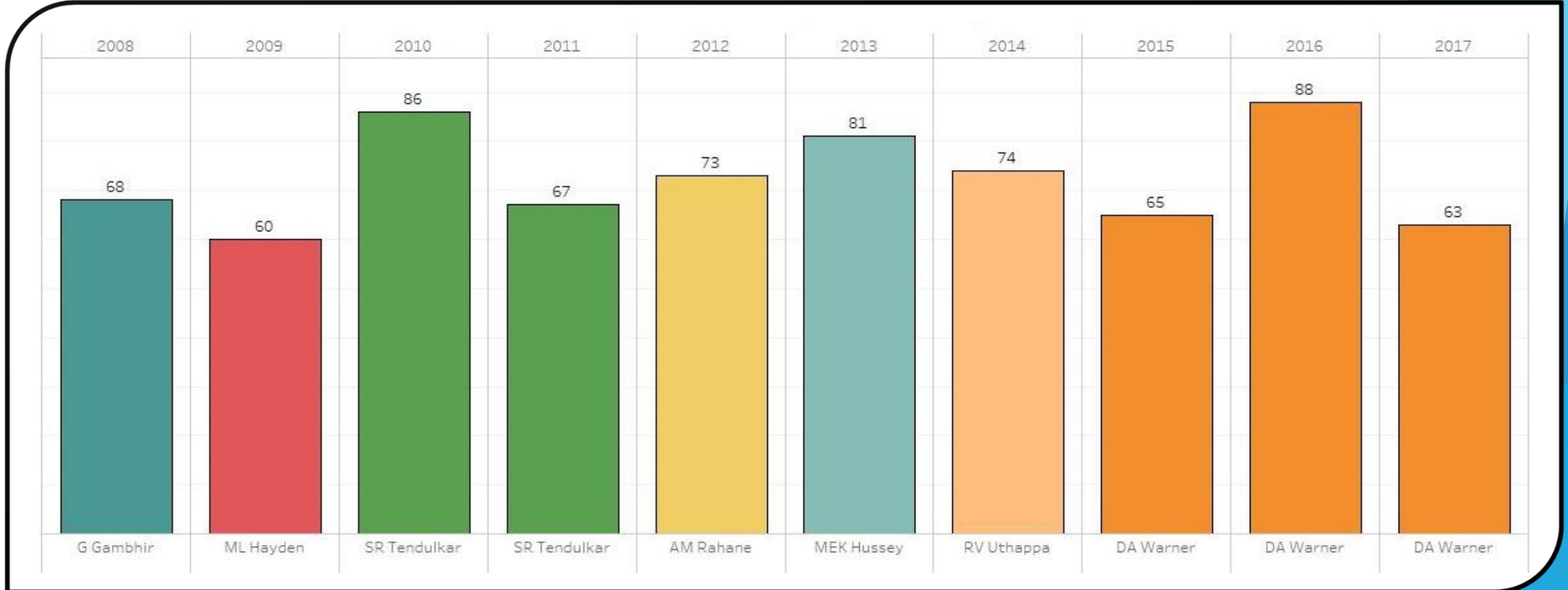
Most No. 6s hit by Batsmen (Per Season)

- **Most batsmen who are the orange cap winner hit the most number of sixes.**
for example – CH Gayle from 2011-2013 wins the orange cap hit the most number of sixes in a season.
- **CH Gayle hit most sixes in a season 4 times, in 2011-2013 & 2015.**
- **CH Gayle hit 59 sixes** which is most sixes hit by any batsman across all seasons.



Most No. 4s hit By Batsmen (Per Season)

- **DA Warner** who are the **orange cap winner** in **2015** also hit the **most number of fours (65)** in that season.
- **DA Warner** hit most fours in a season **3 times**, in **2015-2017**.
- **DA Warner** hit **88** fours in **2016** which is **highest** across all seasons.



Most No. 4s & 6s hit By Batsmen (Overall)

- **Gautam Gambhir** hits the Most fours (**484**) which is the total fours hit in every season.
- **CH Gayle** hits the Most Sixes (**266**) which is the total sixes hit in every season.
- **SK Raina** hits the most boundaries (**576**) which is the total of no. 4s & 6s of every season.

Most No. of 4s
(Overall)



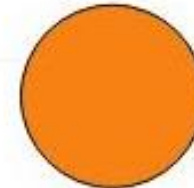
G Gambhir
484

Most No. of 6s
(Overall)



CH Gayle
266

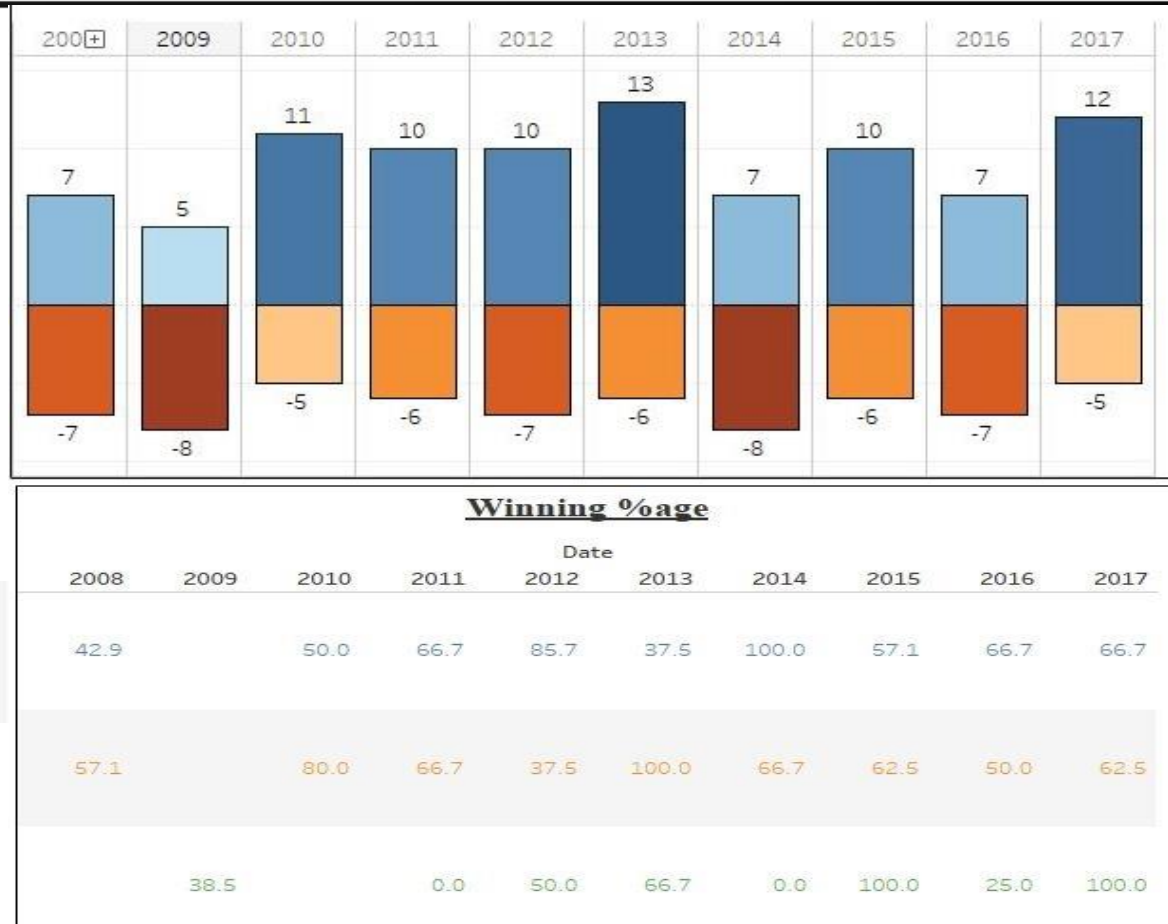
Most No. of 4s & 6s
(Overall)



SK Raina
576

Season wise Team Performance

- Mumbai Indians** have the overall highest win almost **average of 9 wins/season** in which almost **average 57%** of home win & almost **average 52%** away win and **average 28%** of win on other ground.



Appendix- Data Sources

- I use the Following data Sources:
 - Per match data
 - Ball by ball match data

Appendix- Data Methodology

- We conducted a thorough analysis of the IPL Data. The process included:
 - Using the different plot to find the relation between the various columns.
 - Creation of New variables.
 - Creation the different Columns with the calculated field.