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Problem Statement

The Indian Premier League, or IPL, is a T20 cricket league, which was founded in 2008 and is held every year. It sees participation from both national and international players, and 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. Over the years, IPL has become one of the most-watched and most attended live sporting events all over the world.

You work as a data analyst at IFP, a nationally recognised news agency, which is based out of New Delhi, and provides news reports and feeds to magazines, newspapers and TV broadcasters all over the country. The Sports Editor of the agency has approached you 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. For this newsletter, in some cases, they will use the visual representations as you have created in Tableau directly for their infographic, and in a few other cases, they will use important statistics after trying out the different filters and customisations that you have provided for interactivity. Therefore, you are expected to build an interactive dashboard in Tableau for this purpose.

Dataset Available

- matches.csv It contains match-level information for each and every match held in IPL from 2008 to 2017.
- deliveries.csv It contains ball-by-ball information for each of the matches.

matches.csv file contains the following data:

- Teams involved
- Results (which team won, win type, player of the match, etc.)
- Match specifics (umpires, ground, etc.)

deliveries.csv file contains the following data:

- Match related information (batting team vs bowling team)
- Player information (Bowler, Batsman, Non-striker)
- Delivery information (Runs scored, Wickets, Extras, etc.)

Expected Outcome

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)

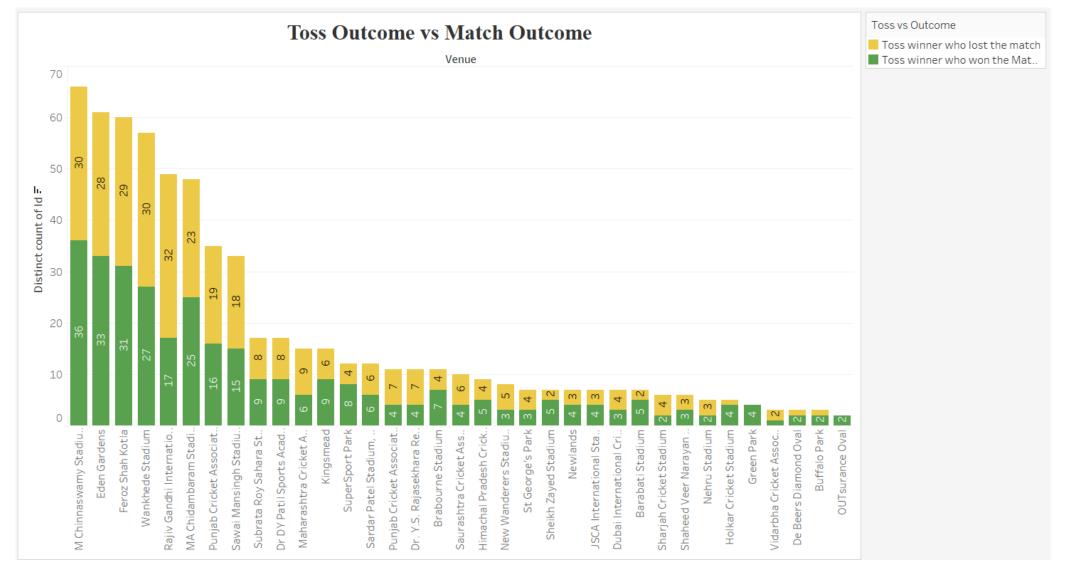
2. Player Statistics

- 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)

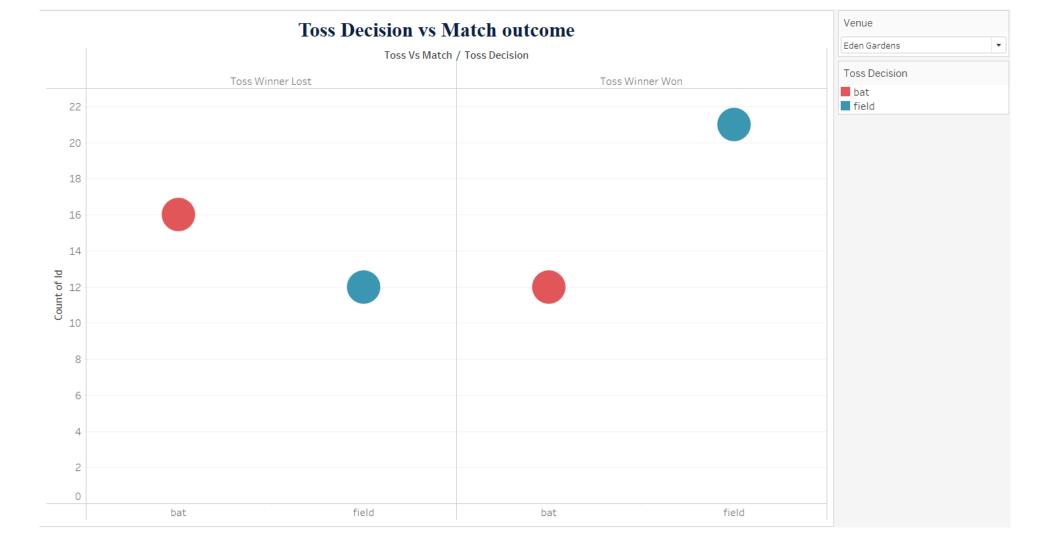
MATCH STATISTICS



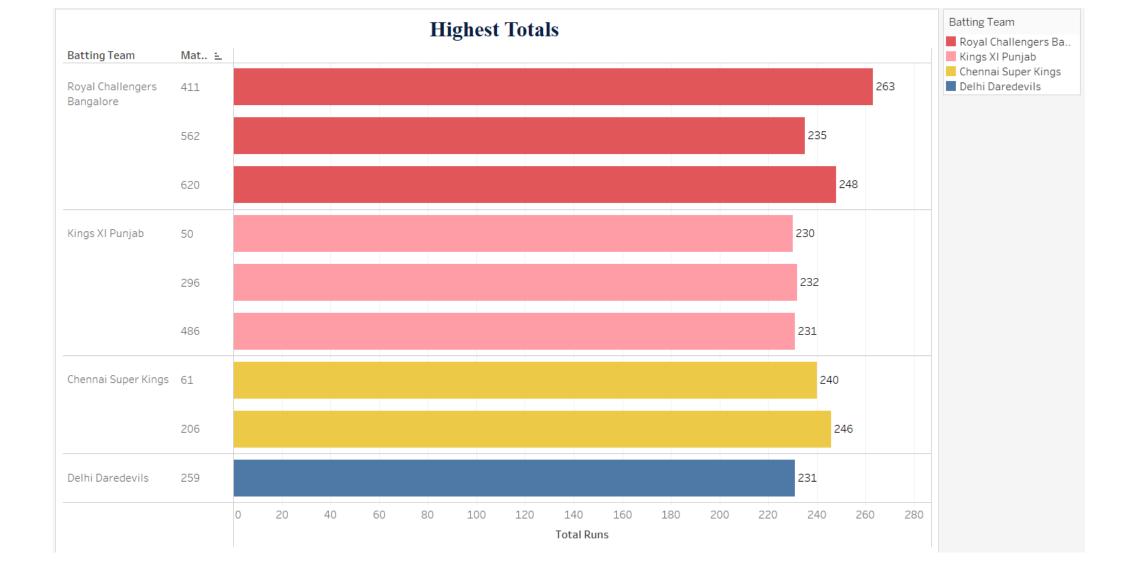
This chart indicates the number of matches the toss winner won and lost for each venue.

The green colour indicates the number of matches the toss winner won, while the yellow colour indicates the number of matches the toss winner lost.

Highest number of matches were won at M Chinaswamy Stadium, while the highest number of matches were lost at Rajiv Gandhi International Stadium.



The graph indicates the toss winners who chose to bat and field respectively and the corresponding number of matches they lost or won based on the toss decision. The data has been filtered on the basis of venue for better understanding.



This graph shows the highest runs scored by the teams based on ranges of total.

Ass per the chart we can derive that Royal Challengers Bangalore has the highest scores of 263 & 248 across all seasons.

Biggest Wins (By runs and by wickets) Mumbai Indians Kings XI Punjab Delhi Daredevils Sunrisers Hyderabad 146 111 97 Royal Challengers Bangalore Rajasthan Royals 144 105 Deccan Chargers Pune 82 Warriors 38 Kolkata Knight Riders Chennai Super Kings 140 Rising Pune Supergiants Kochi Tuskers Kerala 17

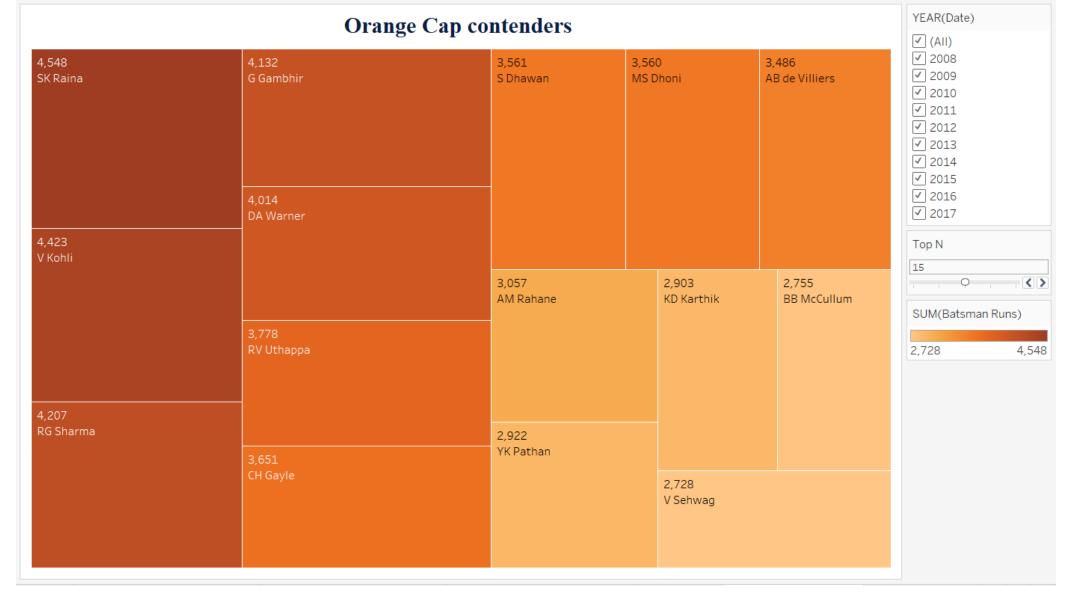
MAX(Win By Wickets)

10

The above tree graph represents the maximum wins by wickets and by runs.

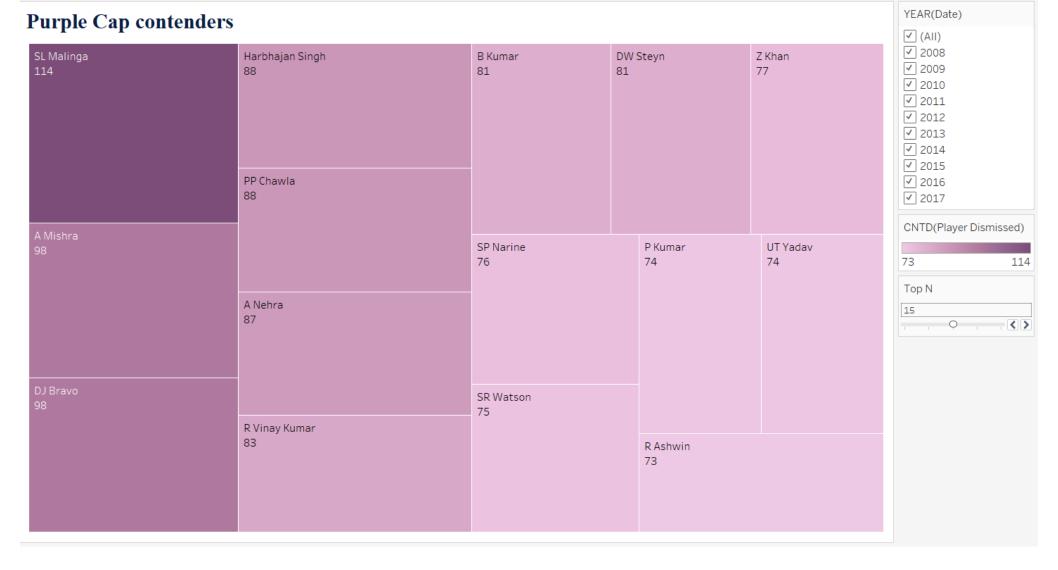
The colour intensity represents the maximum wins by wickets, while the size of each tile represents the maximum wins by runs. As per the graph, the maximum win by wickets is 10 and the maximum runs is scored by Mumbai Indians.

PLAYER STATISTICS



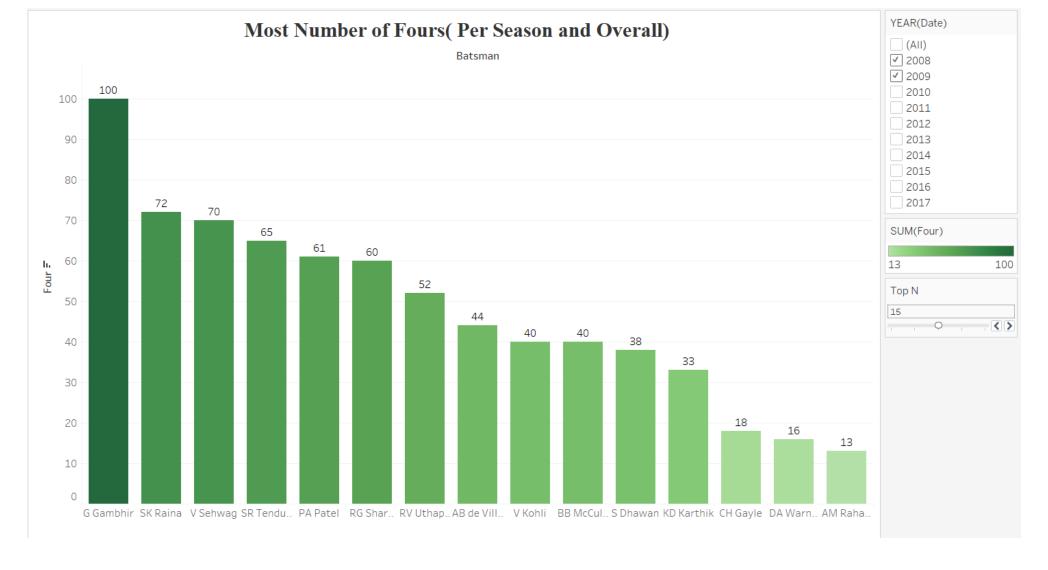
Colour and intensity of the graph indicates the total runs scored by a batsman for a corresponding year. The context is filtered using Year and "Top N" orange cap contenders are displayed.

In entire season SK Raina had amassed 4548 runs in all seasons followed by V Kohli who has scored 4423 runs in the entire seasons.



Colour and intensity of the graph indicates the total number of players dismissed (wickets taken) for a corresponding year. The context is filtered using Year and "Top N" purple cap contenders are displayed.

In entire year SL Malinga has taken 114 wickets followed by A Mishra who has taken 98 wickets in that season.



The graph displays the number of fours that each batsman has hit.

The data is filtered on year and "Top N" numbers of batsman are displayed.

In the graph a cumulative sum of numbers of sixes in 2008 and 2009 is displayed.

G Gambhir has hit a total of 484 fours across all IPL seasons.



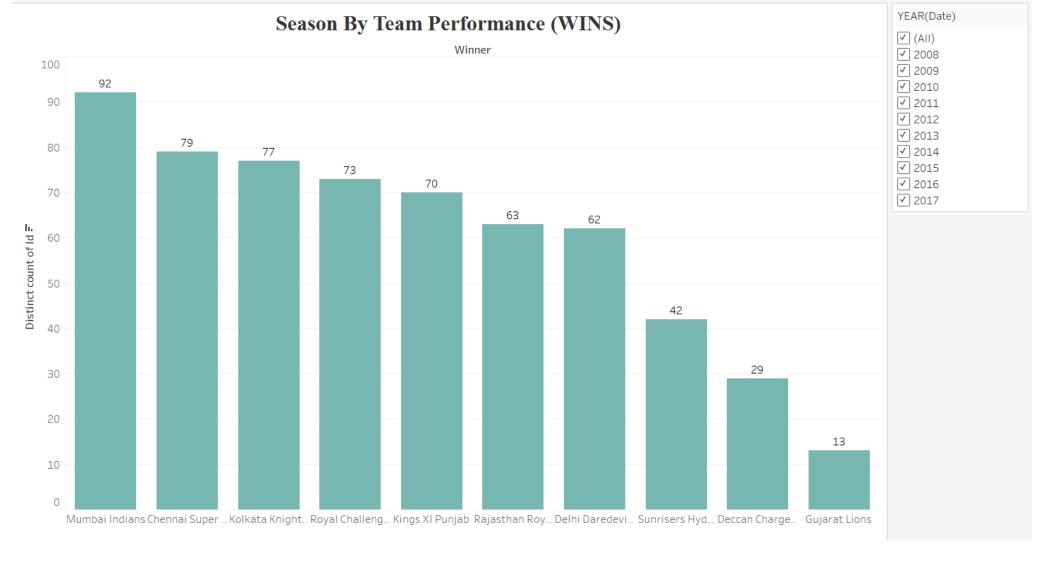
The graph displays the number of sixes hat each batsman has hit.

The data is filtered on year and "Top N" numbers of batsman are displayed.

In the graph a cumulative sum of number of sixes in all the years has been displayed.

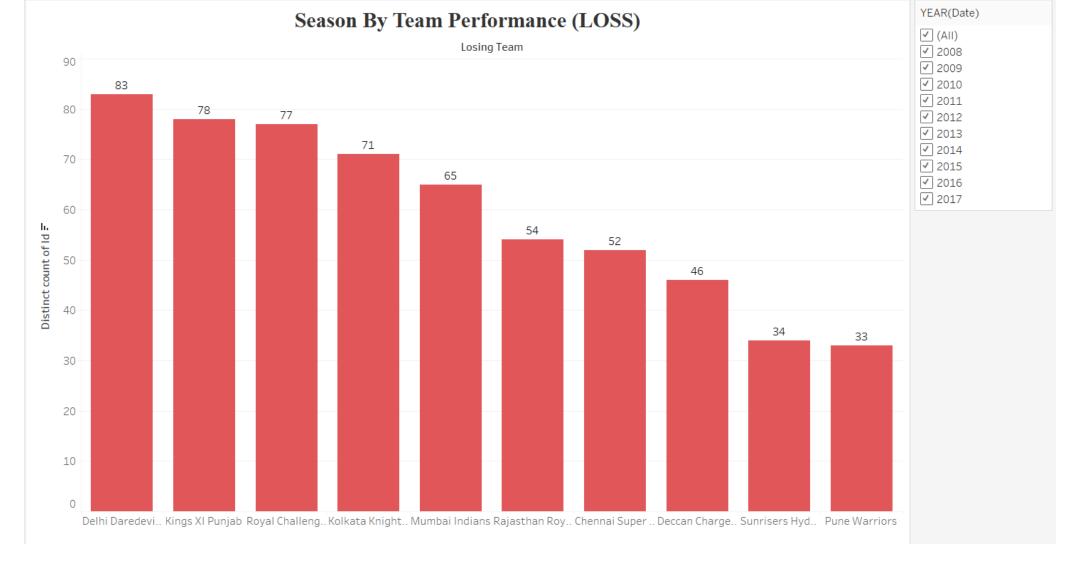
CH Gayle has hit a total of 266 sixes across all IPL seasons.

TEAM STATISTICS



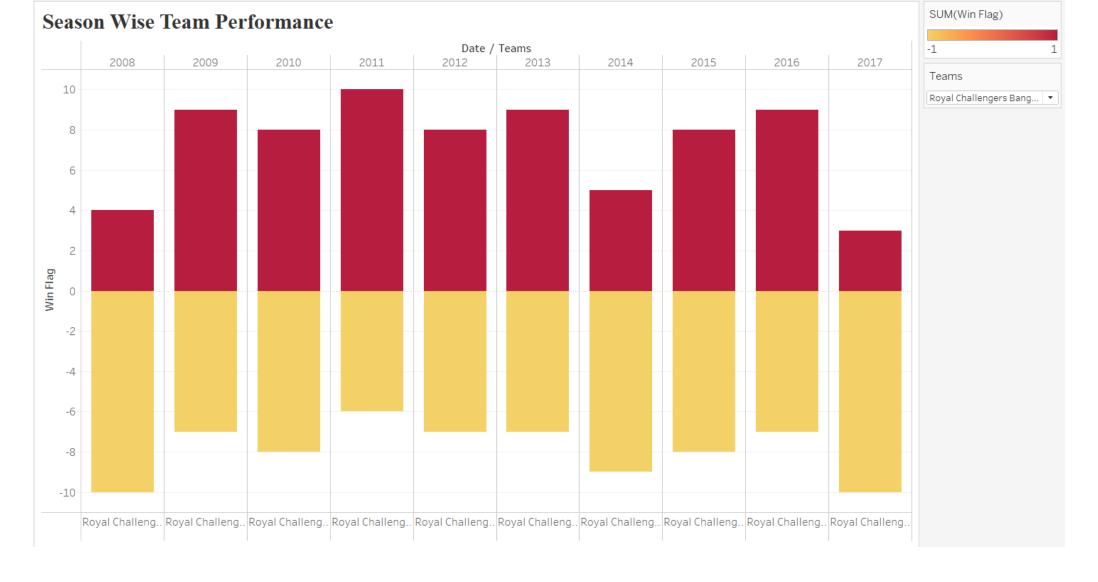
This graph displays the total number of matches won by each team participating in a particular season.

The data is filtered on date. As per the data, Mumbai Indians has won 92 matches in total across all seasons and were the team with the highest number of matches won.

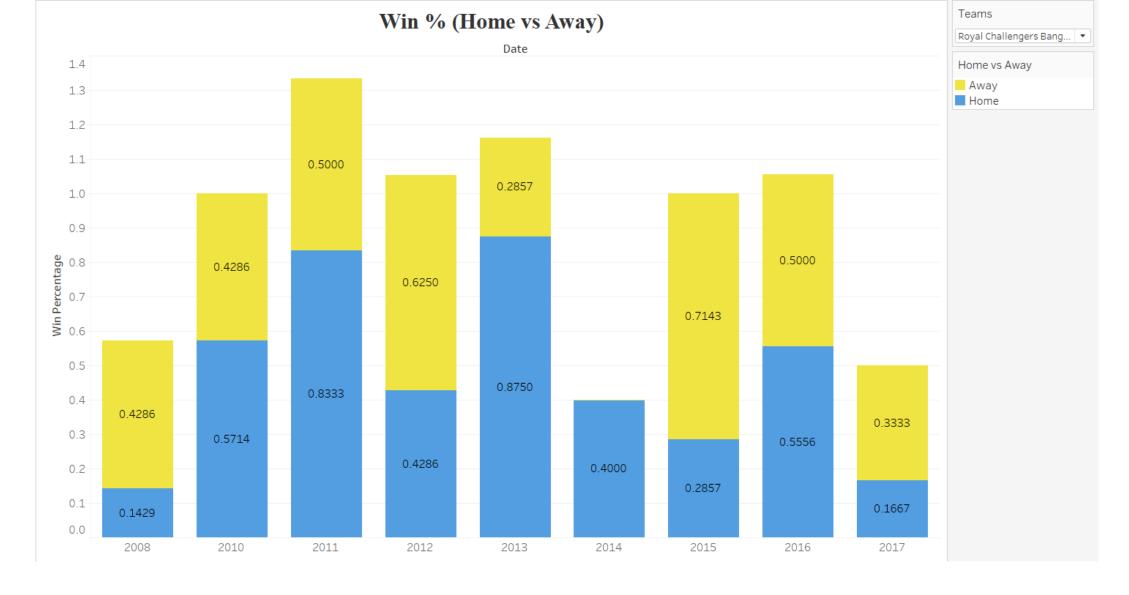


This graph displays the total number of matches lost by each team across all the seasons.

This data is filtered on date. As per the graph, Delhi Daredevils had lost 83 matches in total across all seasons and were the team with the highest number of matches lost.



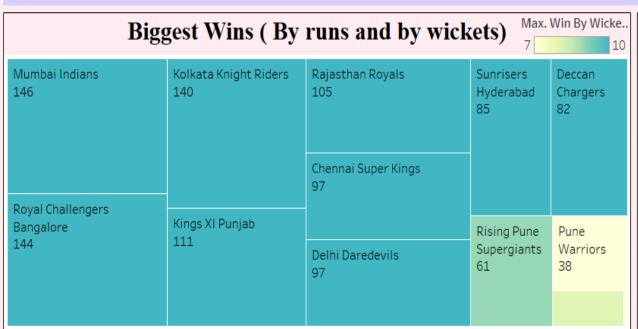
In the graph, the sum of win flag for each team has been broken down by date year. Here the colours show the sum of win flag along with the details of match id. The graph shows the performance of Royal Challengers Bangalore across all the seasons.

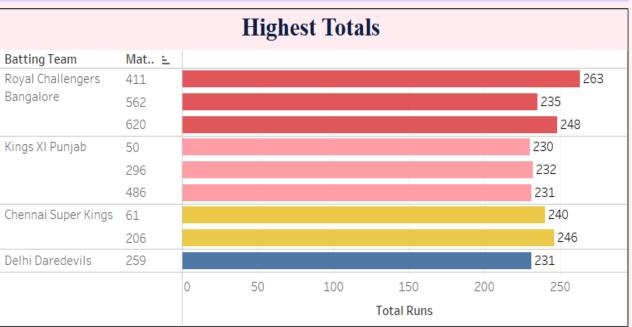


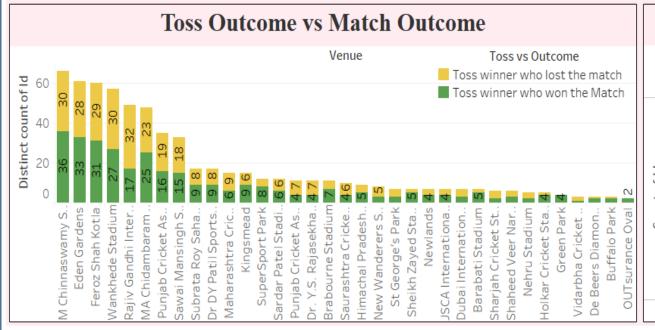
This graph displays the percentage of matches that Royal Challengers Bangalore has won and lost in Home & Away location.

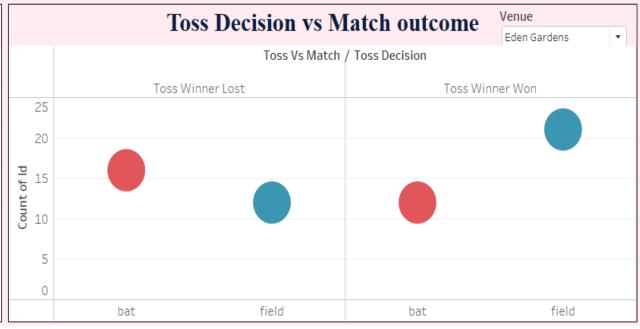
DASHBOARDS

Match Statistics

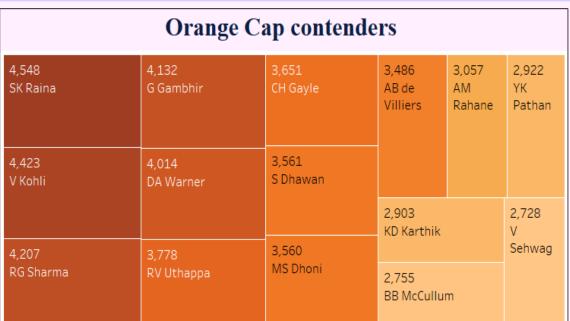


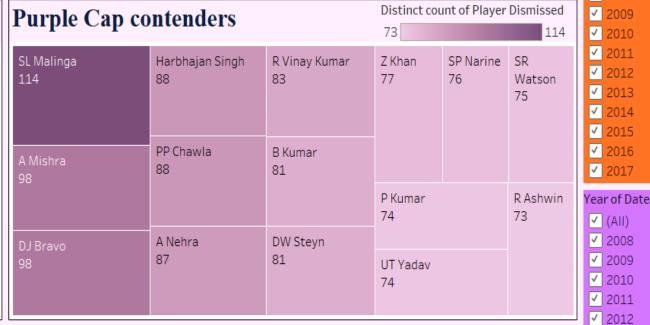






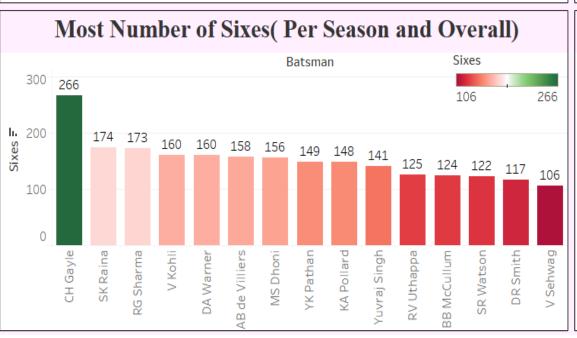
Player Statistics

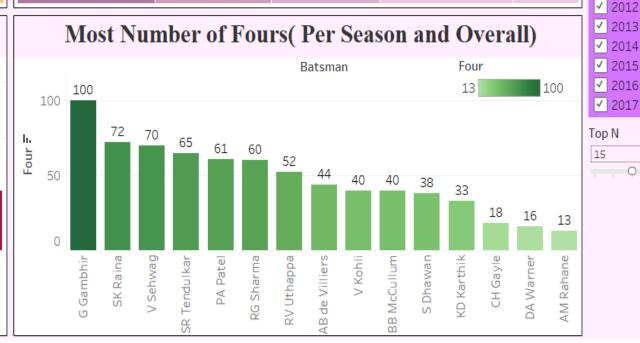




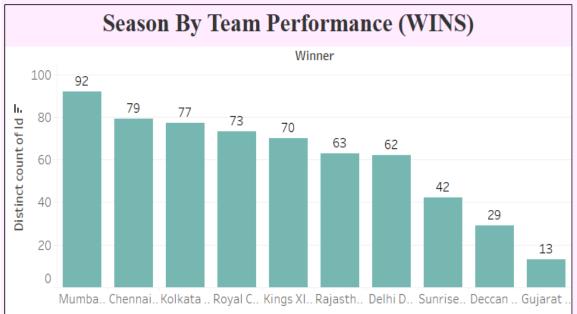
Year of Date

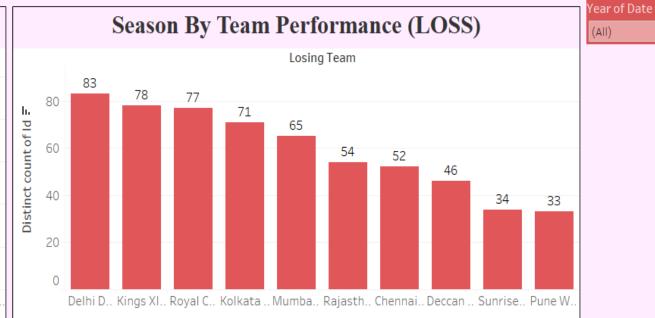
✓ (AII) ✓ 2008





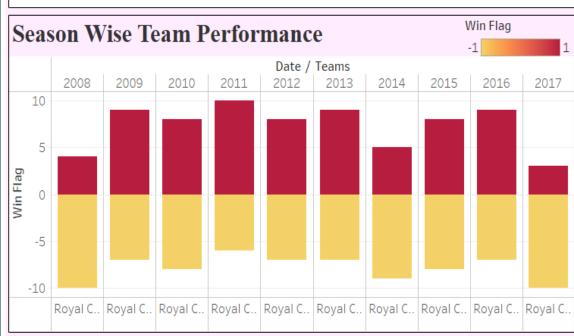
Team Satistics

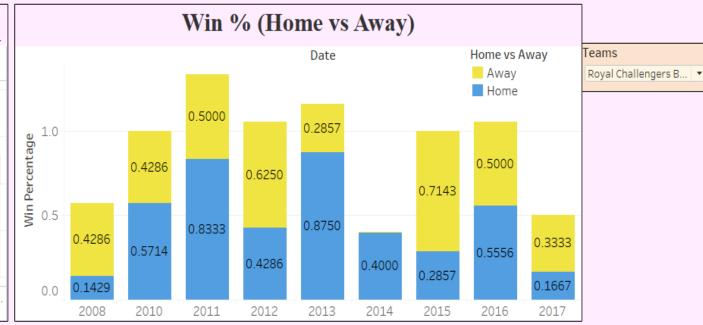




Year of Date

(All)





SUMMARY

- Maximum number of matches were played at M Chinnaswamy stadium. Toss winners who chose to field have won the matches the most.
- Maximum number of matches were won at M Chinnaswamy stadium and maximum matches were lost at Rajiv Gandhi International Stadium.
- RCB holds the highest score across all the seasons of IPL.
- The maximum win by wickets is 10 and the team with maximum wins by runs is Mumbai Indians.
- SK Raina holds the record for highest runs across all the seasons of IPL.
- SL Malinga holds the record for taking the highest number of wickets in a single season of IPL.
- Gautam Gambhir has hit maximum number of fours across all IPL Seasons.
- Chris Gayle has hit the maximum number of sixes across all IPL Seasons.
- Mumbai Indians and Chennai Super Kings are the most successful teams in the IPL history.