

IPL VISUALIZATION ASSIGNMENT

**DONE BY
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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 RECOGNIZED 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 CUSTOMIZATIONS THAT YOU HAVE PROVIDED FOR INTERACTIVITY. THEREFORE, YOU ARE EXPECTED TO BUILD AN INTERACTIVE DASHBOARD IN TABLEAU FOR THIS PURPOSE.
- YOU NEED TO USE THE FOLLOWING TWO DATA SET FILES:
- 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.

QUESTIONS ASKED

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)

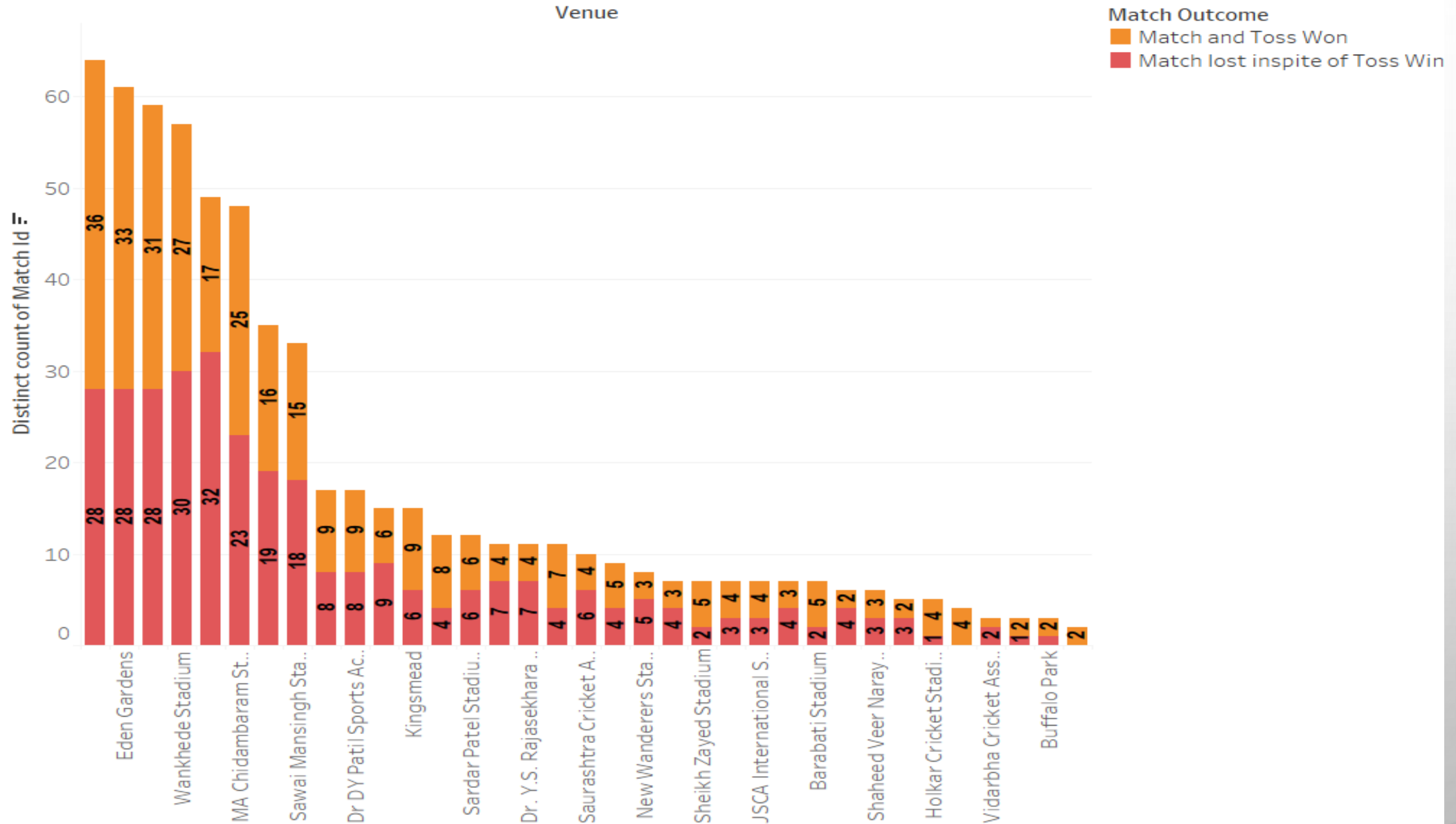
2. Player Statistics

- 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)

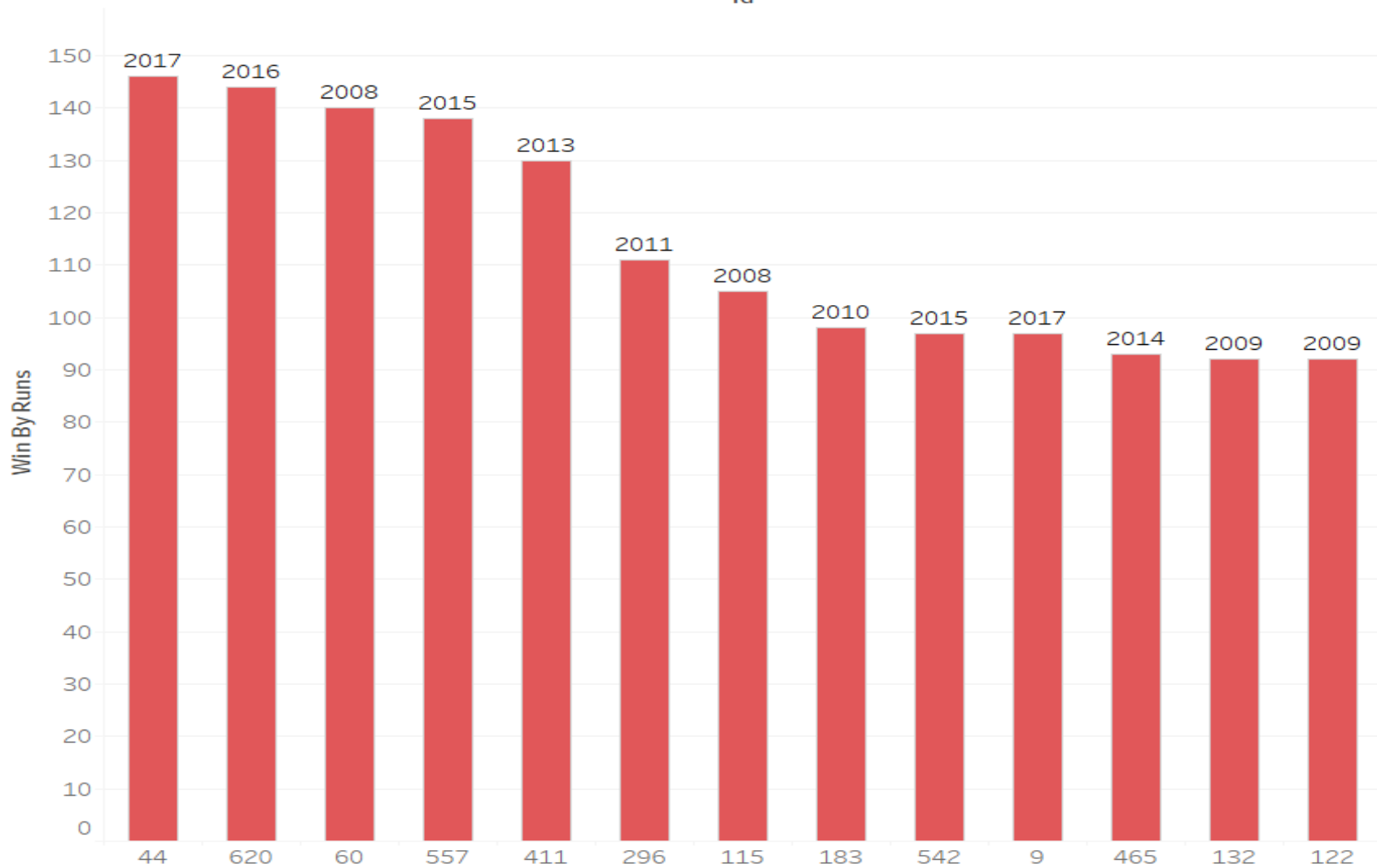
Toss outcome vs Match outcome (for each Ground/Venue)



Distinct count of Match Id for each Venue. Color shows details about Match Outcome. The marks are labeled by distinct count of Match Id. Details are shown for City. The data is filtered on Winner, which excludes Null.

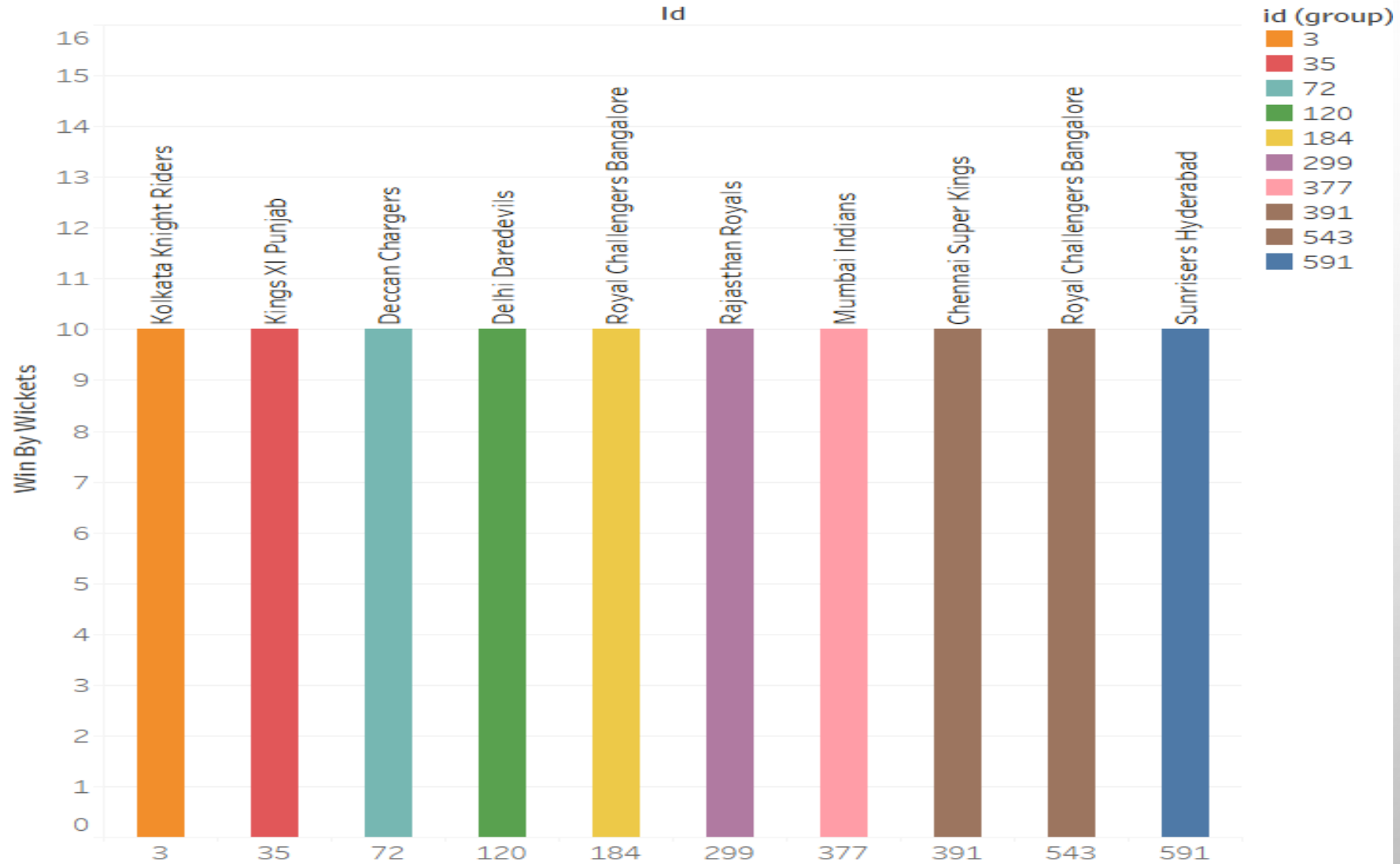
Biggest wins by runs

Id



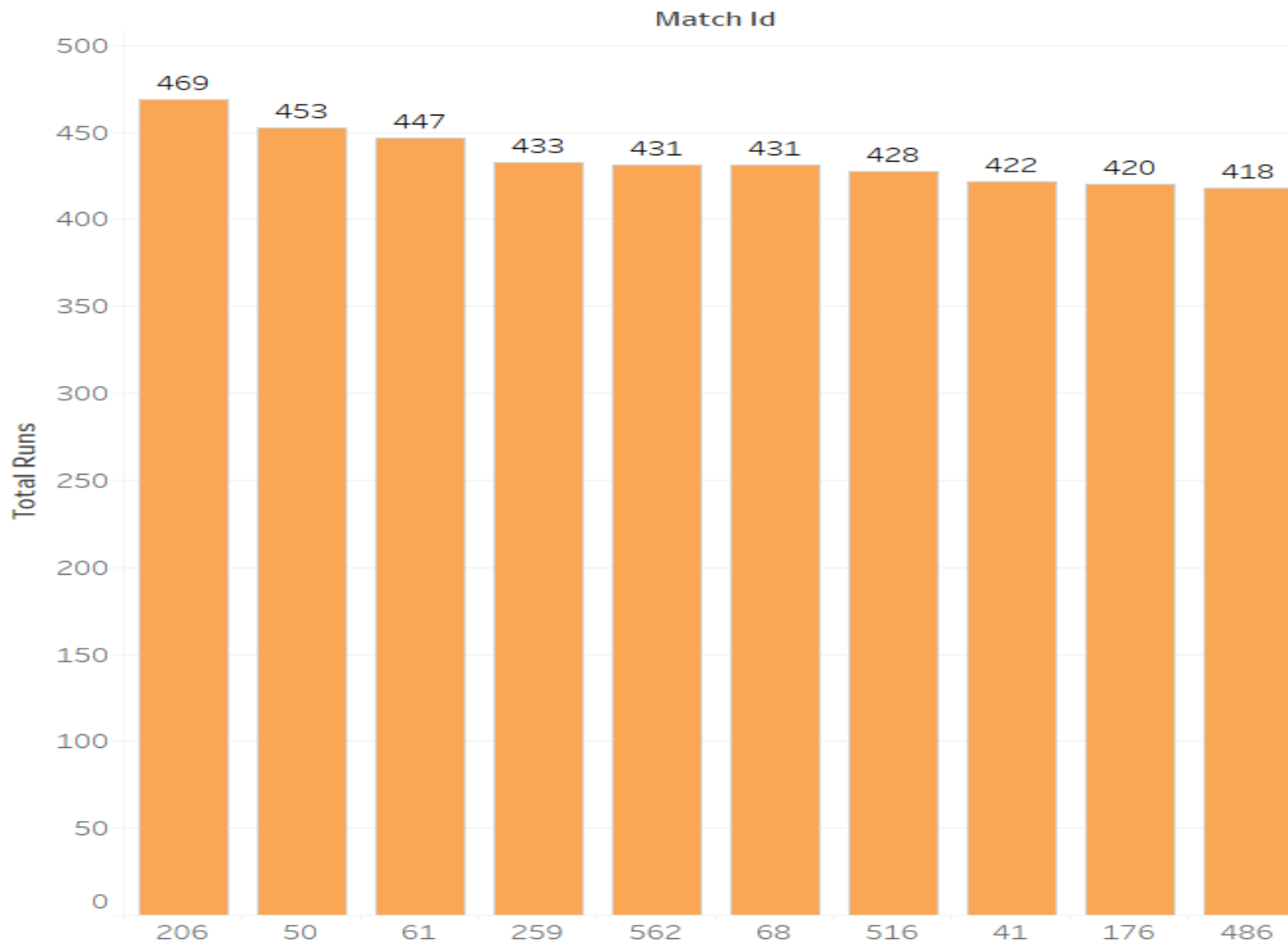
Win By Runs as an attribute for each Id. The marks are labeled by Season. Details are shown for various dimensions. The view is filtered on Id and Win By Runs as an attribute. The Id filter keeps 636 of 636 members. The Win By Runs as an attribute filter includes values greater than or equal to 90.

Biggest wins by wickets



Win By Wickets as an attribute for each Id. Color shows details about id (group). The marks are labeled by Winner. Details are shown for Venue and Player Of Match. The view is filtered on Win By Wickets as an attribute, which includes values greater than or equal to 10.

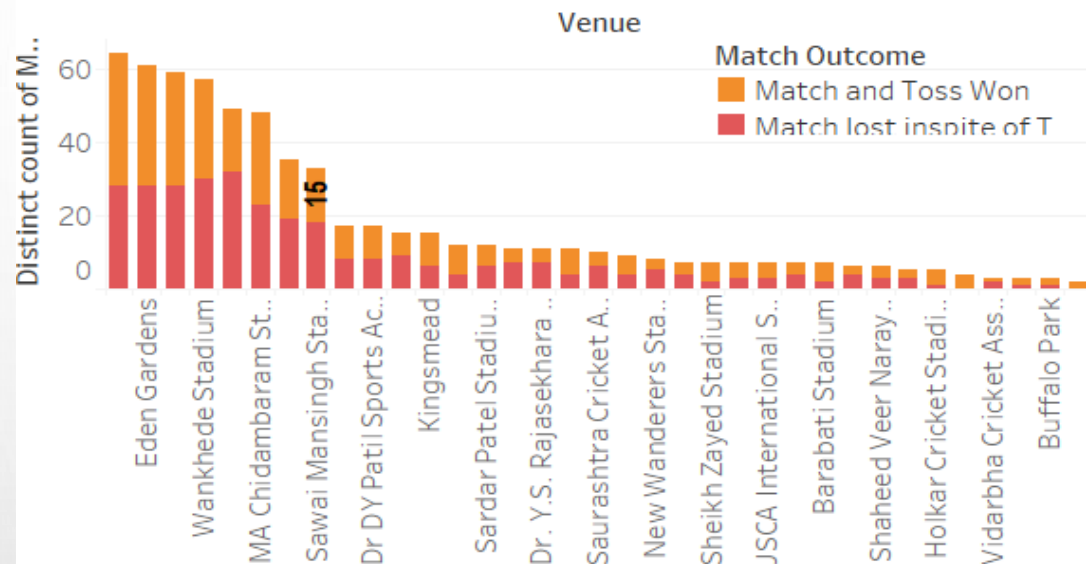
Highest Totals(Across all seasons)



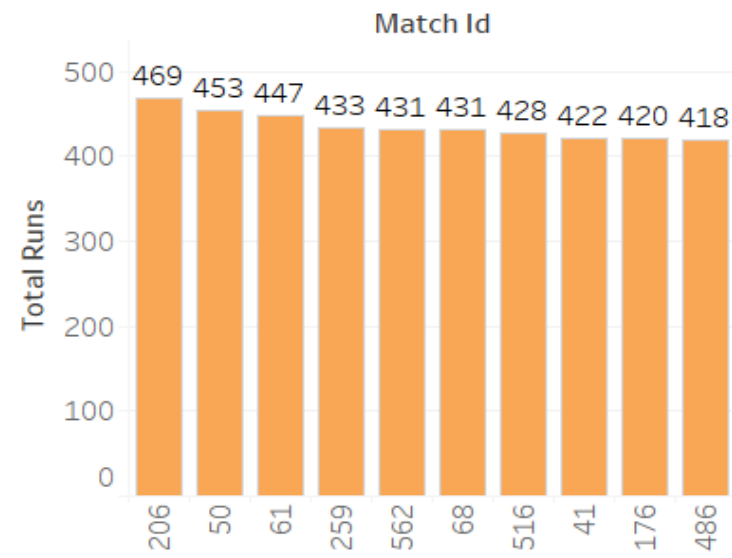
Sum of Total Runs for each Match Id. The marks are labeled by sum of Total Runs. Details are shown for various dimensions. The view is filtered on Match Id, which keeps 10 of 2,727 members.

MATCH STATISTICS

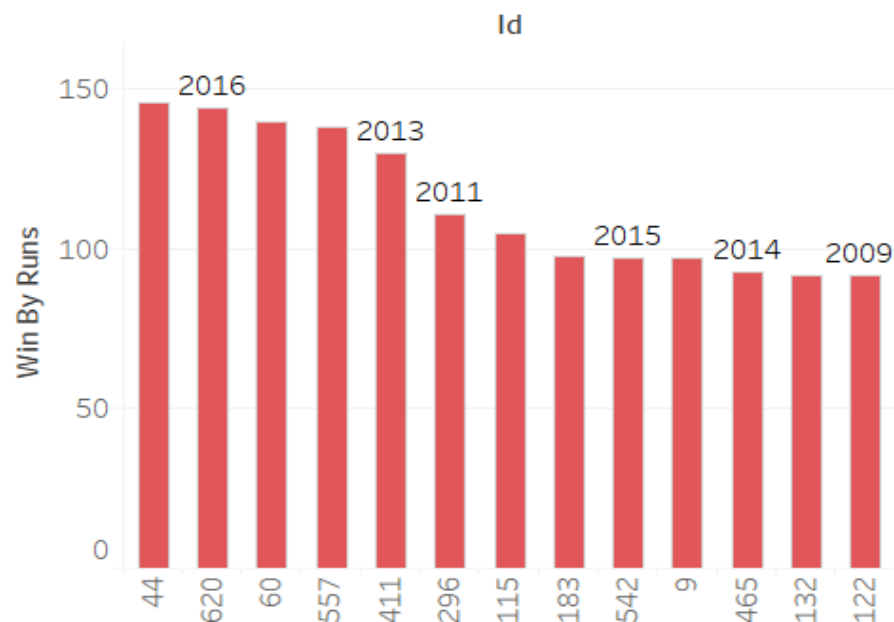
Toss outcome vs Match outcome (for each Ground/Venue)



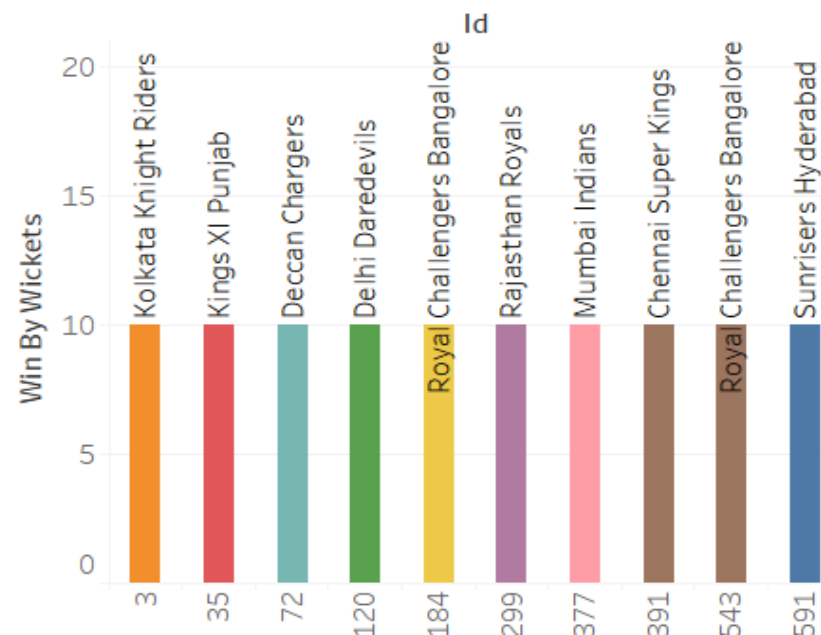
Highest Totals(Across all seasons)



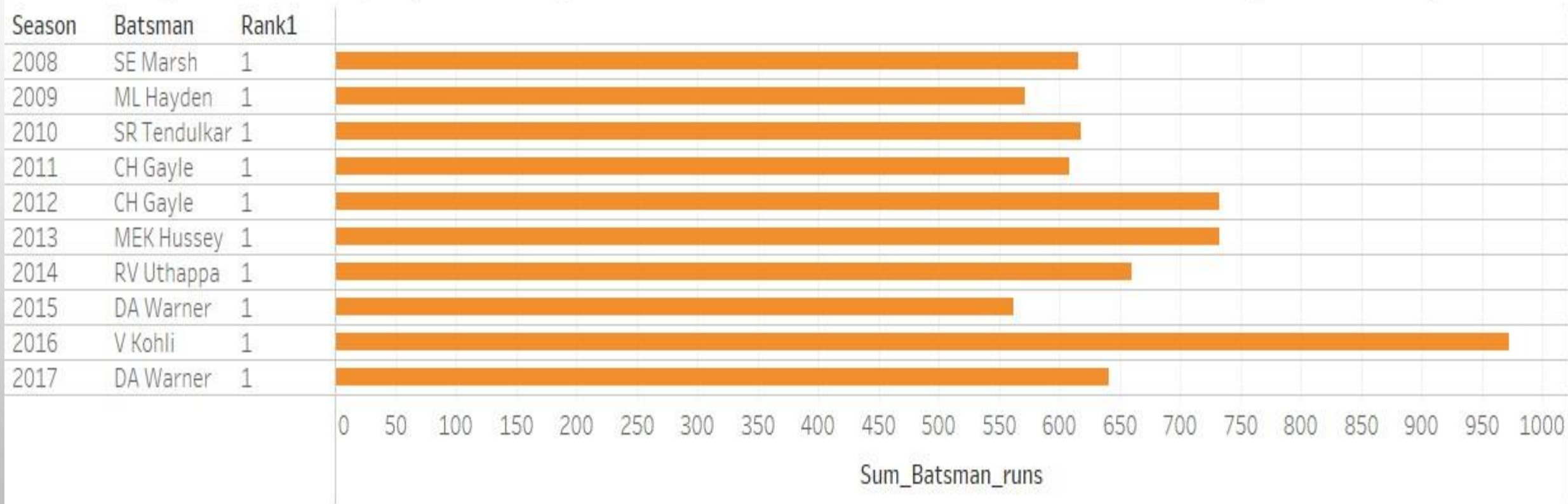
Biggest wins by runs



Biggest wins by wickets

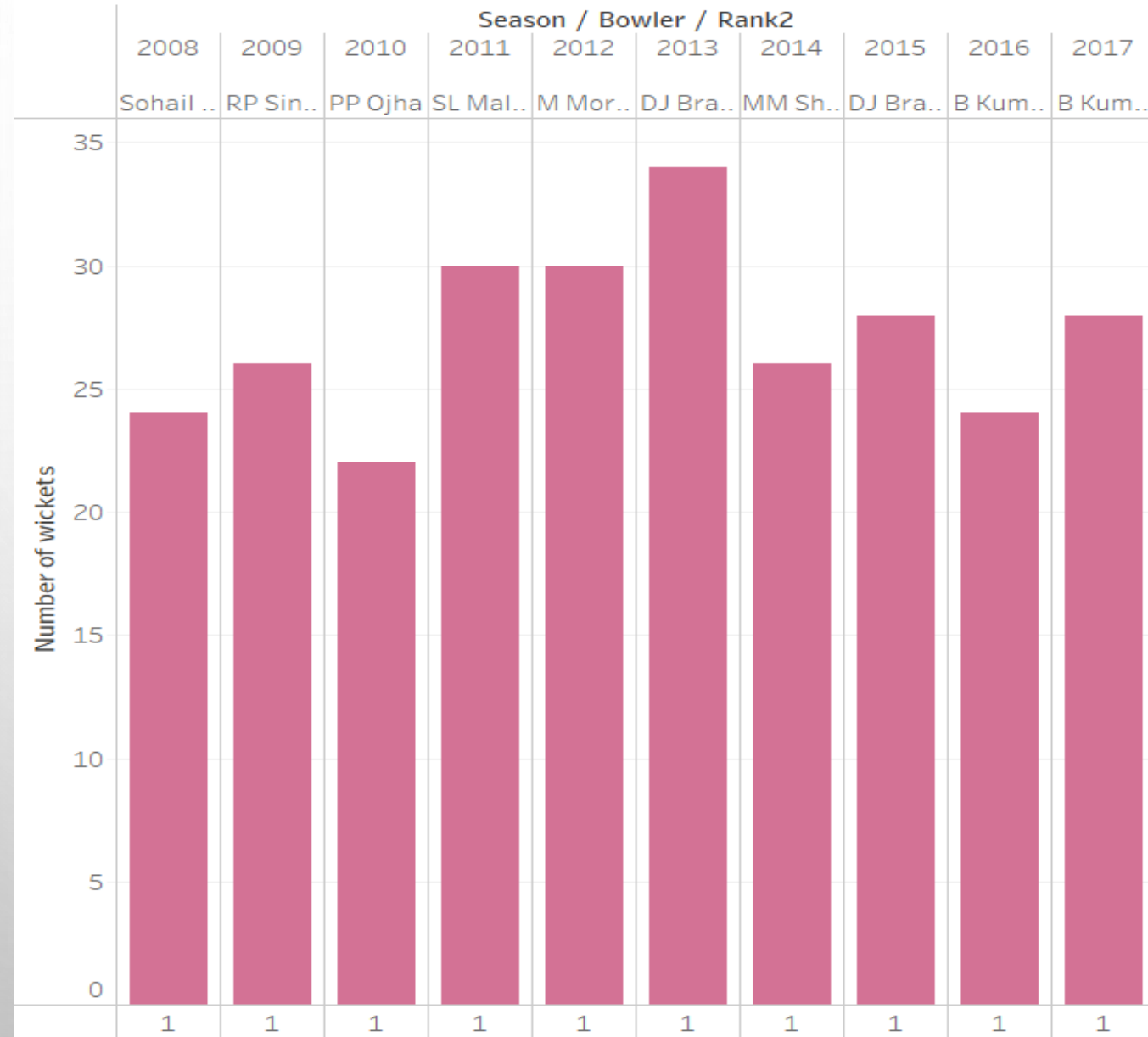


Player Statistics: Orange Cap contenders (The batsmen who have scored the maximum number of runs in a particular season)



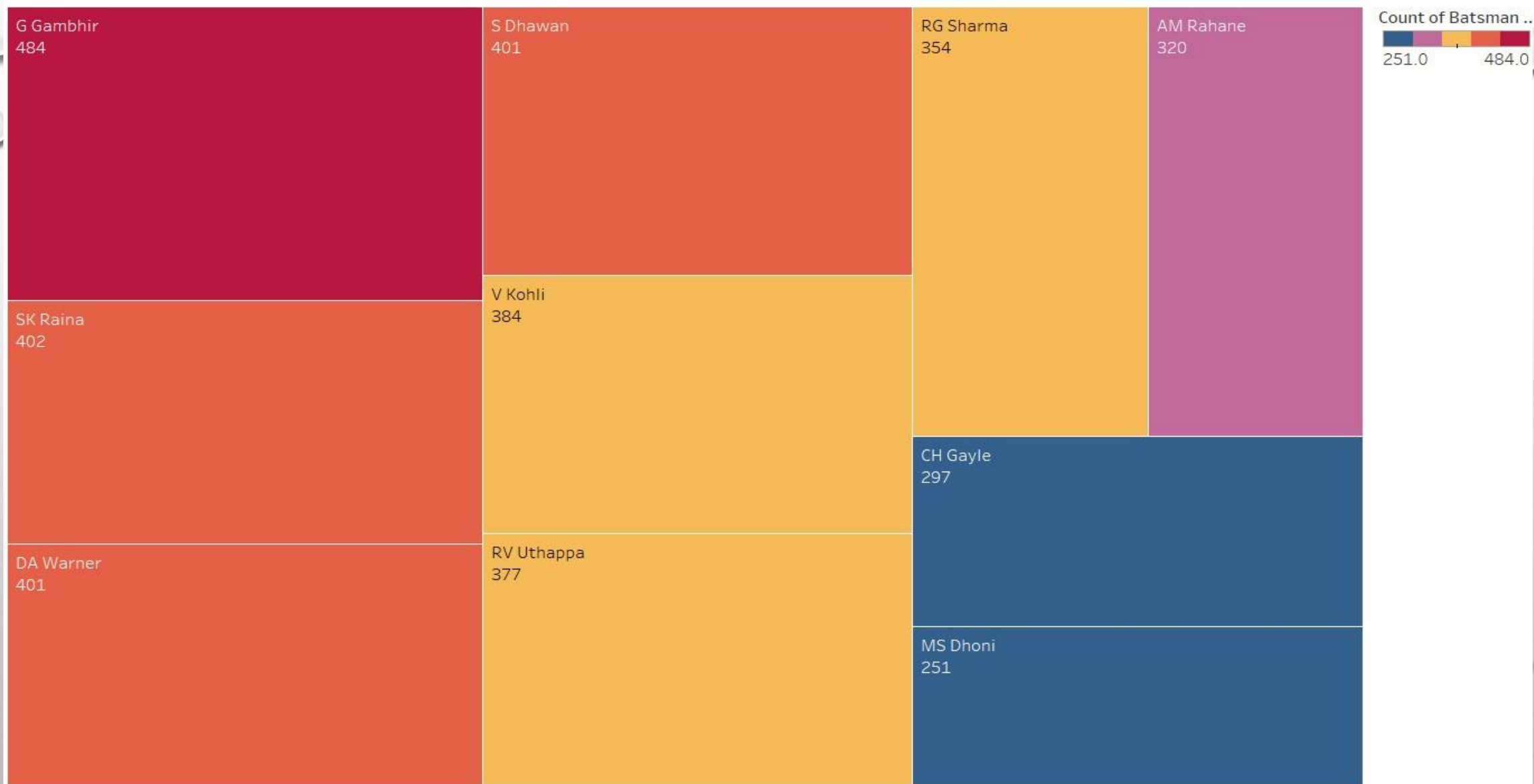
Sum_Batsman_runs for each Rank1 broken down by Season and Batsman. The data is filtered on sum of Batsman Runs, which includes values greater than or equal to 1. The view is filtered on Season and Rank1. The Season filter keeps 10 of 10 members. The Rank1 filter keeps 1.

Purple Cap contenders (The bowlers who have taken the maximum number of wickets in a particular season)



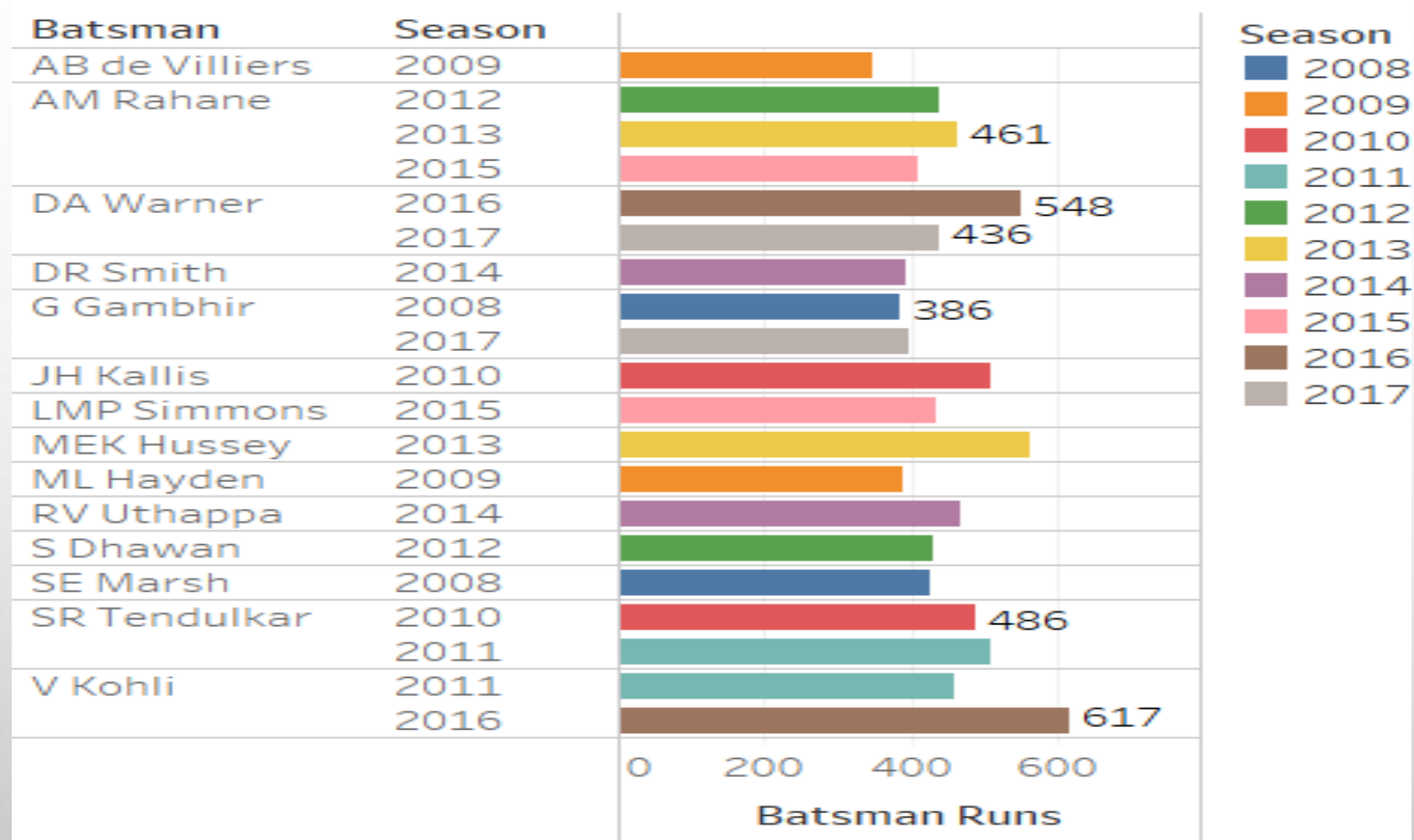
Count of Player Dismissed for each Rank2 broken down by Season and Bowler. The view is filtered on Rank2, which keeps 1.

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



Batsman and count of Batsman Runs. Color shows count of Batsman Runs. Size shows count of Batsman Runs. The marks are labeled by Batsman and count of Batsman Runs. The data is filtered on Batsman Runs and Season. The Batsman Runs filter ranges from 4 to 4. The Season filter keeps 10 of 10 members. The view is filtered on Batsman and count of Batsman Runs. The Batsman filter keeps 10 of 461 members. The count of Batsman Runs filter includes everything.

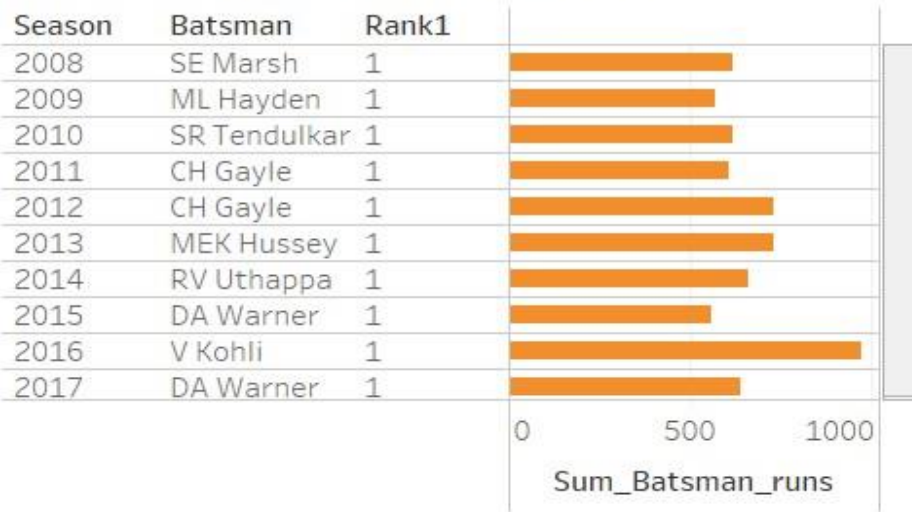
Batsmen who have hit the most number of fours and sixes per season



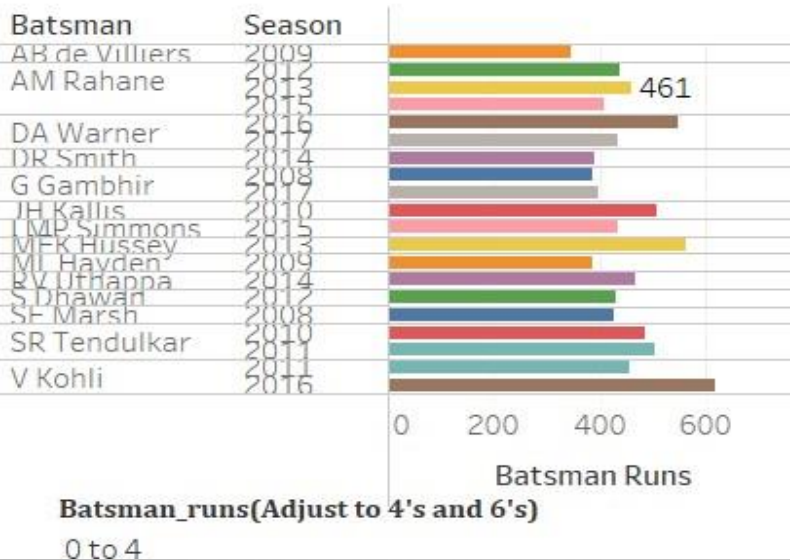
Count of Batsman Runs for each Season broken down by Batsman. Color shows details about Season. The marks are labeled by count of Batsman Runs. The data is filtered on Batsman Runs and Rank3. The Batsman Runs filter ranges from 0 to 4. The Rank3 filter keeps 1 and 2. The view is filtered on Season, which keeps 10 of 10 members.

Player Statistics

Player Statistics: Orange Cap contenders (The batsmen who have scored the maximum number of runs in a particular season)



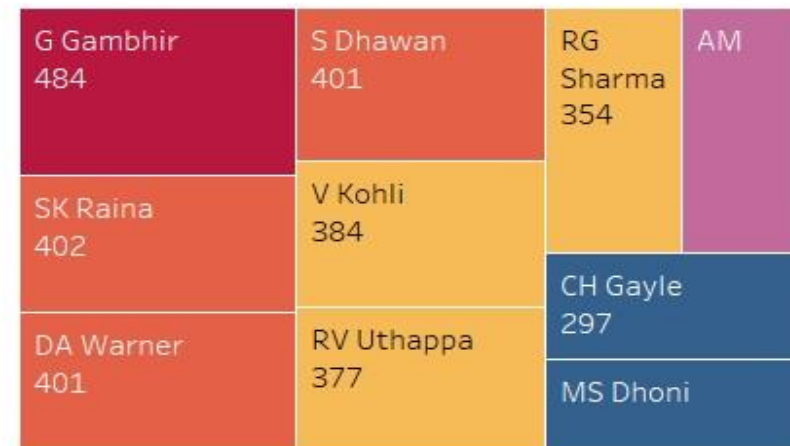
Batsmen who have hit the most number of fours and sixes per season



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 overall

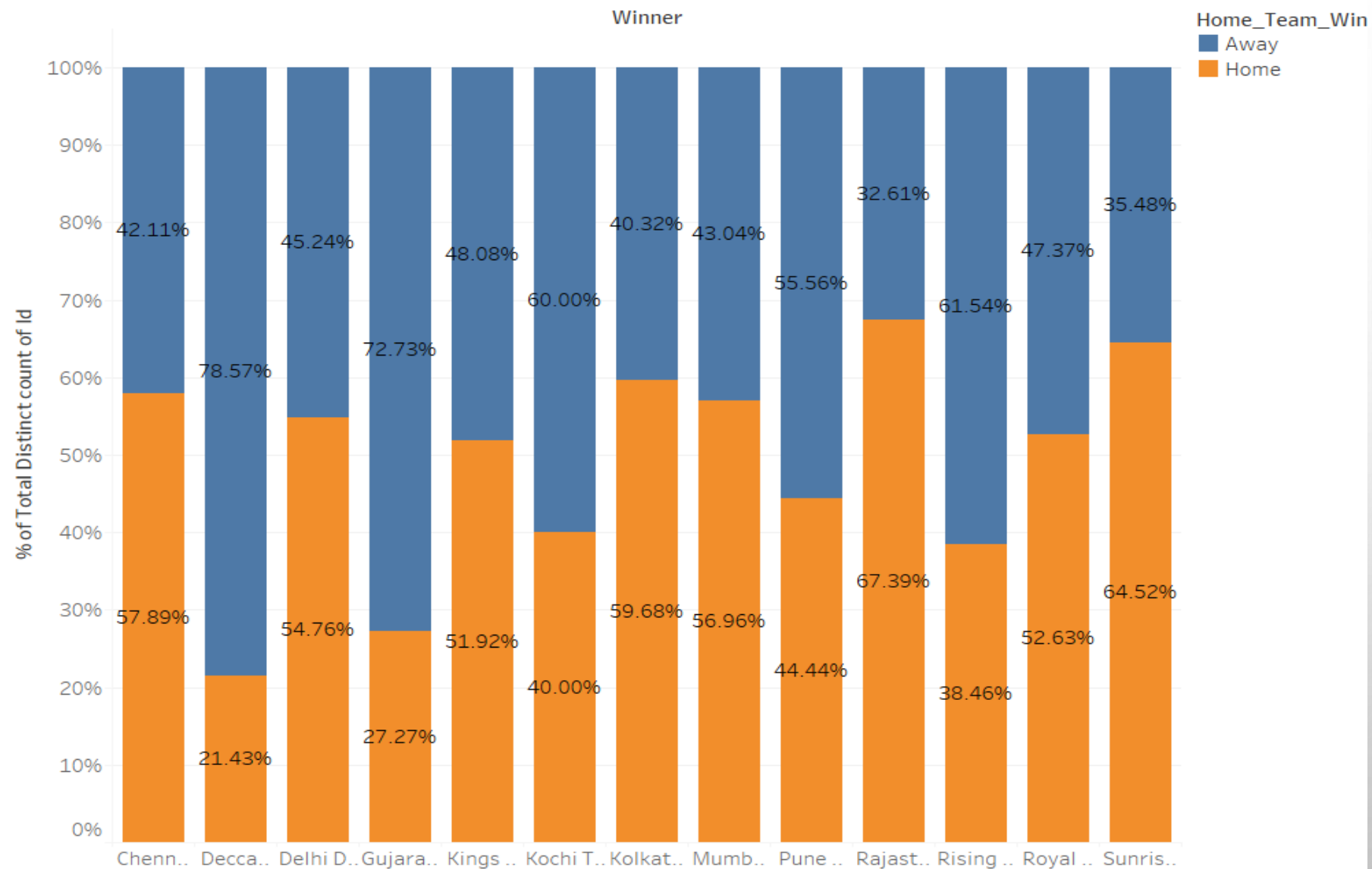


Team Statistics: Season-wise team performance (wins vs losses)



Count of Winner (matches) and distinct count of Loss for each Winner (matches) broken down by Season (matches). Color shows details about Winner (matches). The data is filtered on Total_Wins, Winner and count of Loss. The Total_Wins filter includes everything. The Winner filter excludes Null. The count of Loss filter ranges from 438 to 3,173. The view is filtered on Winner (matches), which excludes Null.

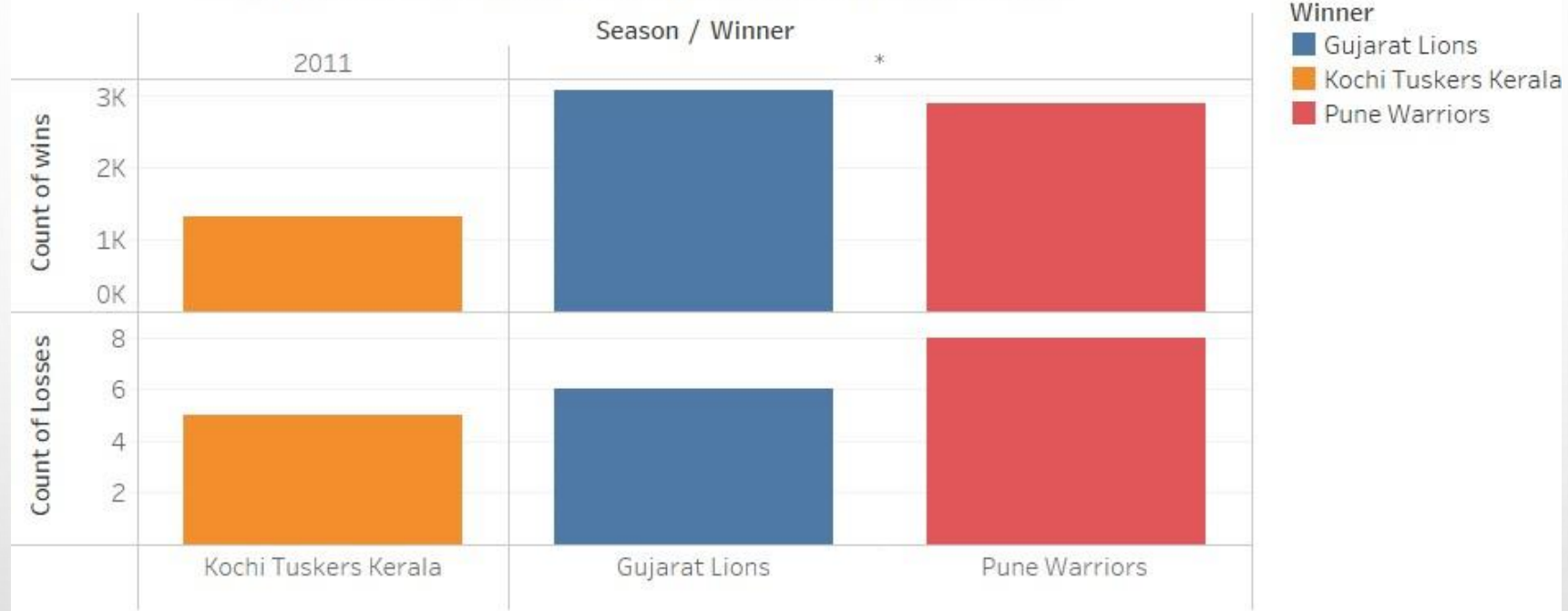
Team Statistics: Win %age (home vs away)



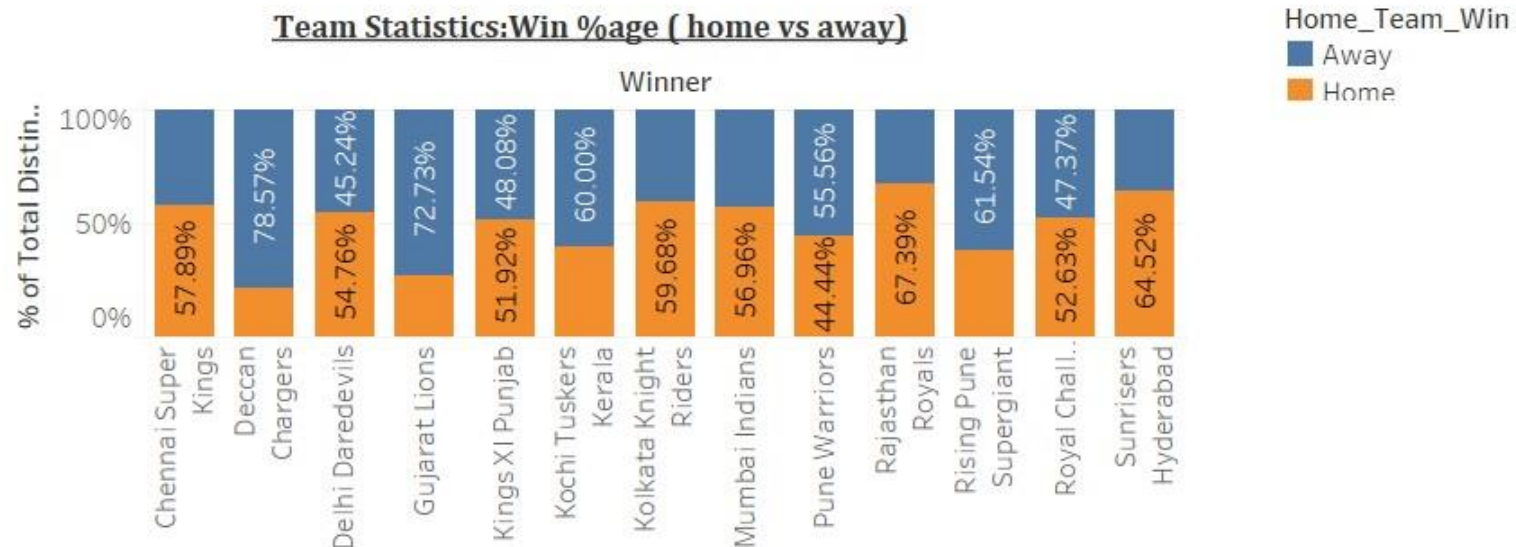
% of Total Distinct count of Id for each Winner. Color shows details about Home_Team_Win. The marks are labeled by % of Total Distinct count of Id. The data is filtered on Home Team, which keeps team1 and team2. The view is filtered on Home_Team_Win and Winner. The Home_Team_Win filter keeps Away, Home and NA. The Winner filter excludes Null.

Team Statistics

Team Statistics: Season-wise team performance (wins vs losses)



Team Statistics: Win %age (home vs away)



The image features a light gray background with a subtle radial gradient. In the top-left and bottom-right corners, there are several realistic water droplets of varying sizes, rendered with soft shadows and highlights to give them a three-dimensional appearance. Centered in the middle of the frame is the text "THANK YOU" in a bold, black, serif typeface.

THANK YOU