



# **IPL VISUALISATION ASSIGNMENT**

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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. LET'S WATCH THE UPCOMING VIDEO AND LISTEN TO SHREYAS AS HE STATES THE BROAD OBJECTIVE OF THIS ASSIGNMENT.

## DATA SET :

- **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.

# ASSIGNMENT SUB-TASKS

## 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

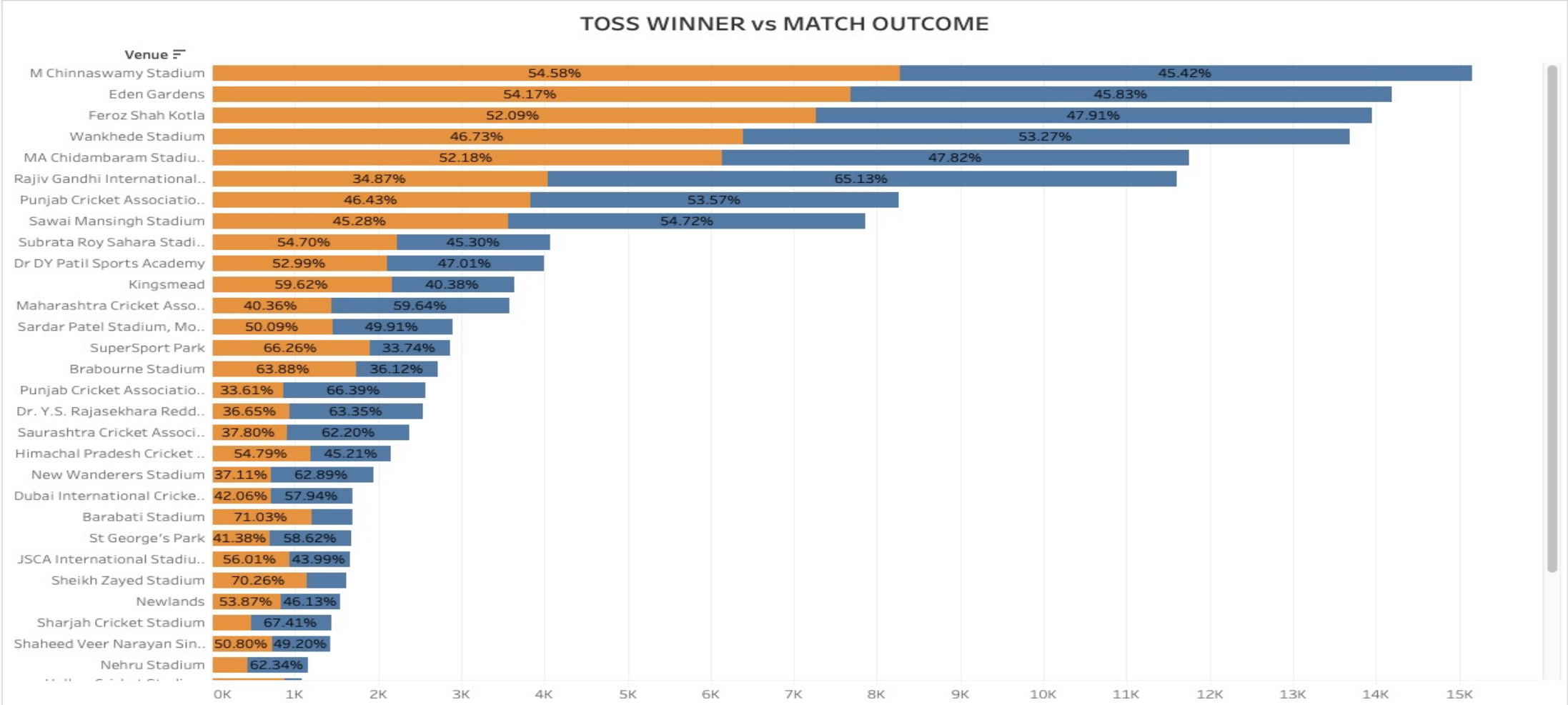
- SEASON-WISE TEAM PERFORMANCE (WINS VS LOSSES)
- WIN PERCENTAGE(HOME/AWAY)

# MATCH STATISTICS

Toss + Match winner

LOST

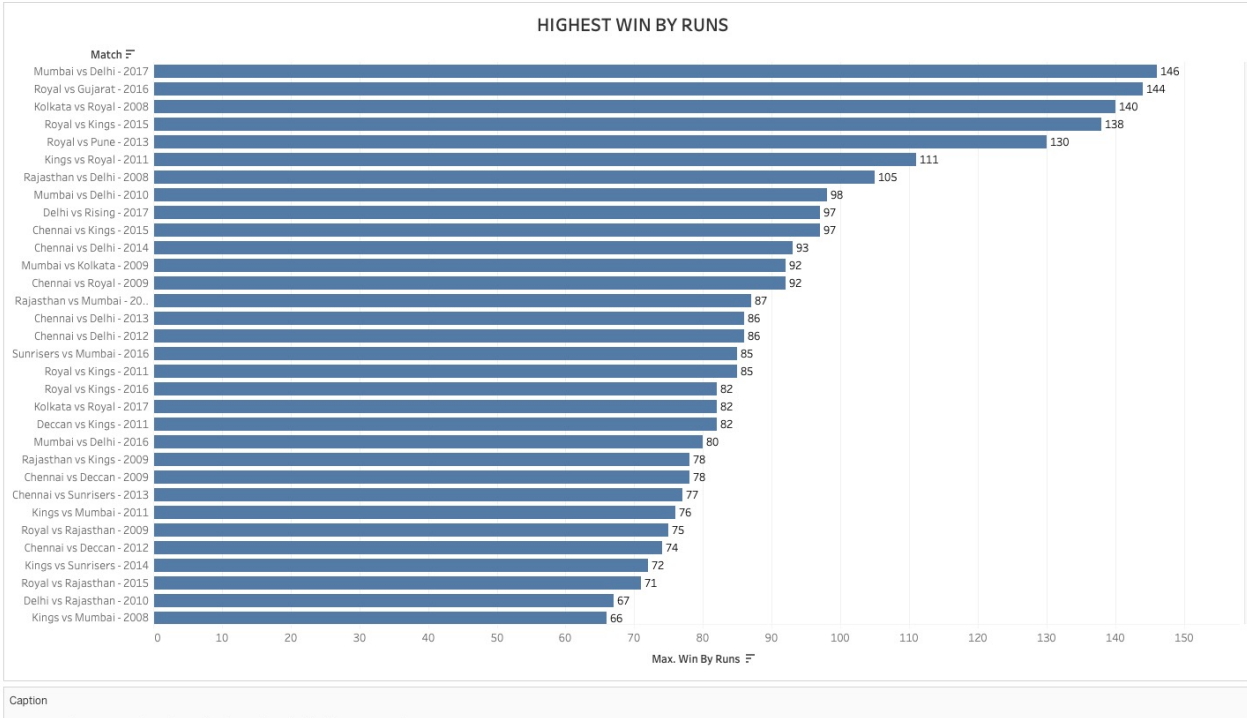
WIN



M CHINNASWAMY STADIUM HAS MOST MATCH WINS(54.5%) WHEN THE TOSS IS WON IN THAT STADIUM.

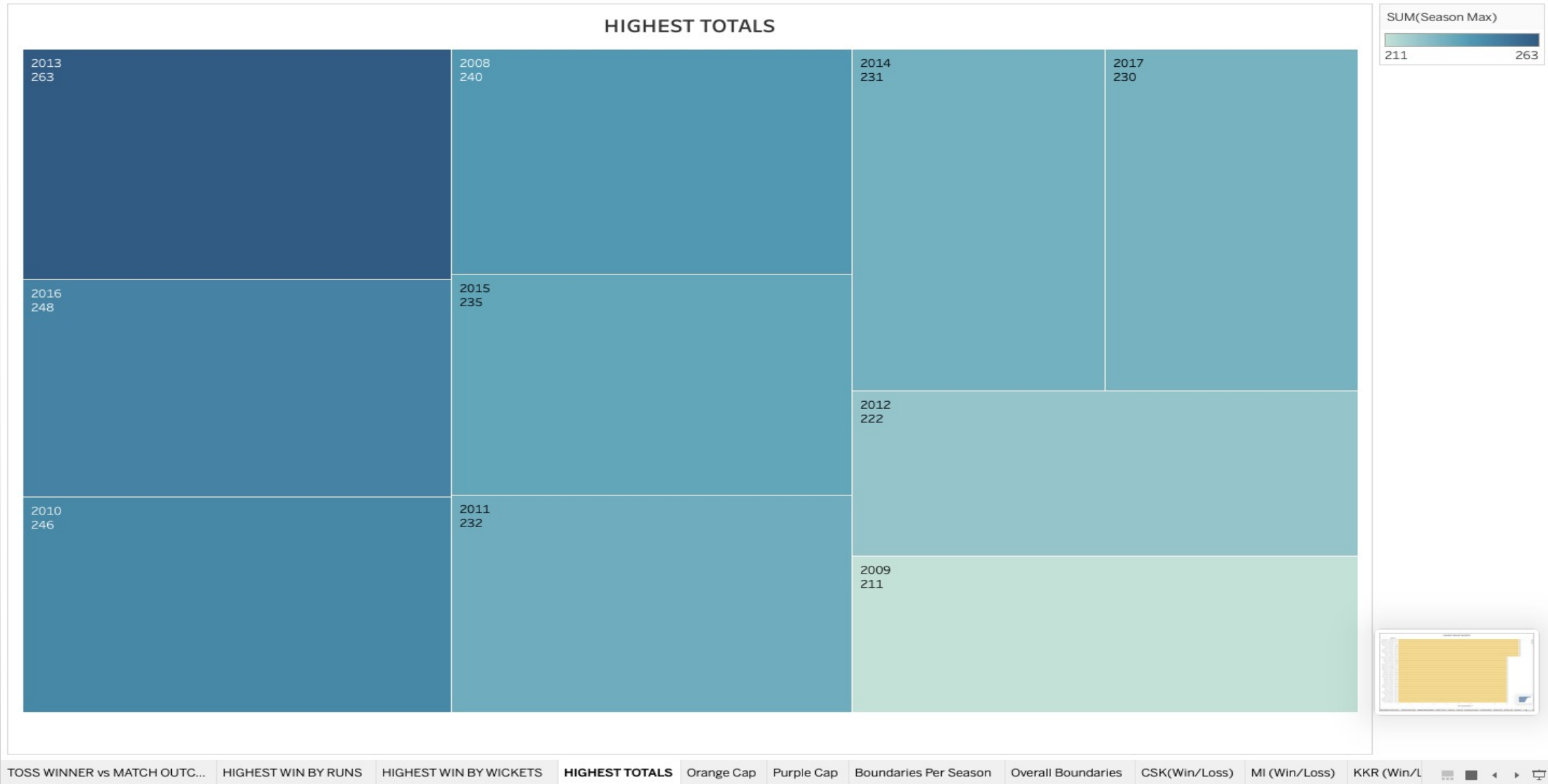
# HIGHEST WINS(BY RUNS)

# Highest Wins(by Wickets)



- Mumbai Indians had a Highest Win by Runs(146 RUNS) against Delhi Daredevils in 2017
- All these Below mentioned teams have Highest win by wickets(10 WICKETS)
  - Delhi Daredevils vs Kings XI Punjab and Royal Challengers Bangalore
  - Gujarat Lions vs Kolkata Knight Riders and Sunrisers Hyderabad
  - Kings XI Punjab vs Chennai Super Kings and Delhi Daredevils
  - Mumbai Indians vs Deccan Chargers and Rajasthan Royals
  - Rajasthan Royals vs Mumbai Indians and Royal Challengers Bangalore

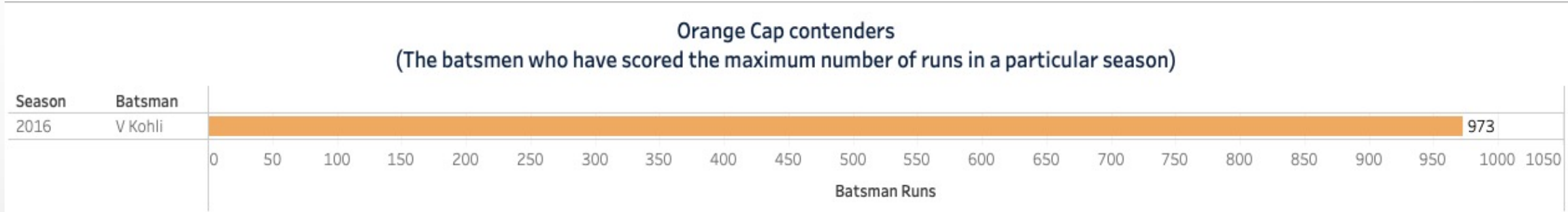
# HIGHEST TOTAL (ACROSS ALL THE SEASONS)



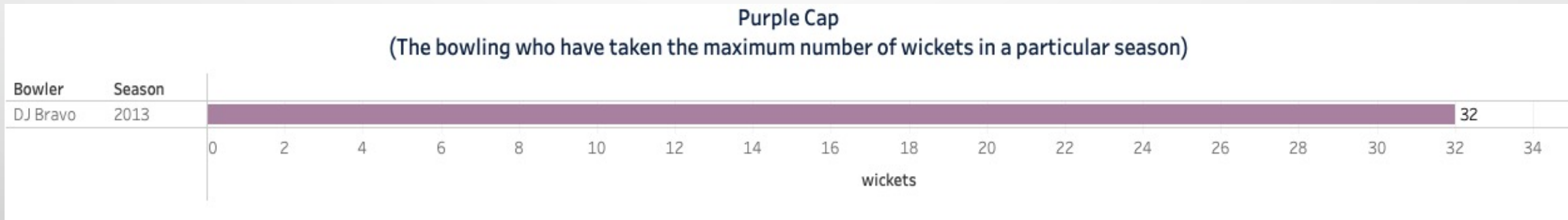
- Above is the Season wise Highest Individual team totals.

# PLAYER STATISTICS

## Orange Cap



## Purple Cap



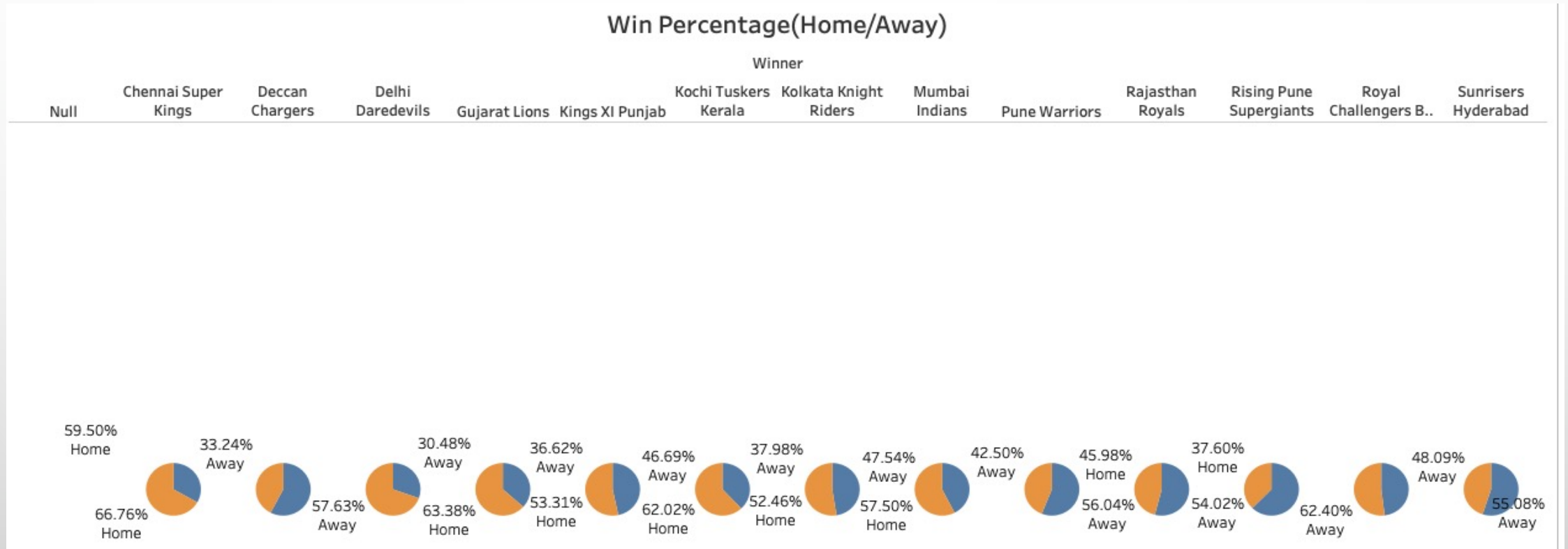
Above Mentioned is the list of Orange and Purple Cap.

- DJ Bravo has taken 32 wickets in IPL-2015
- Virat Kohli has scored 973 Runs in IPL-2016



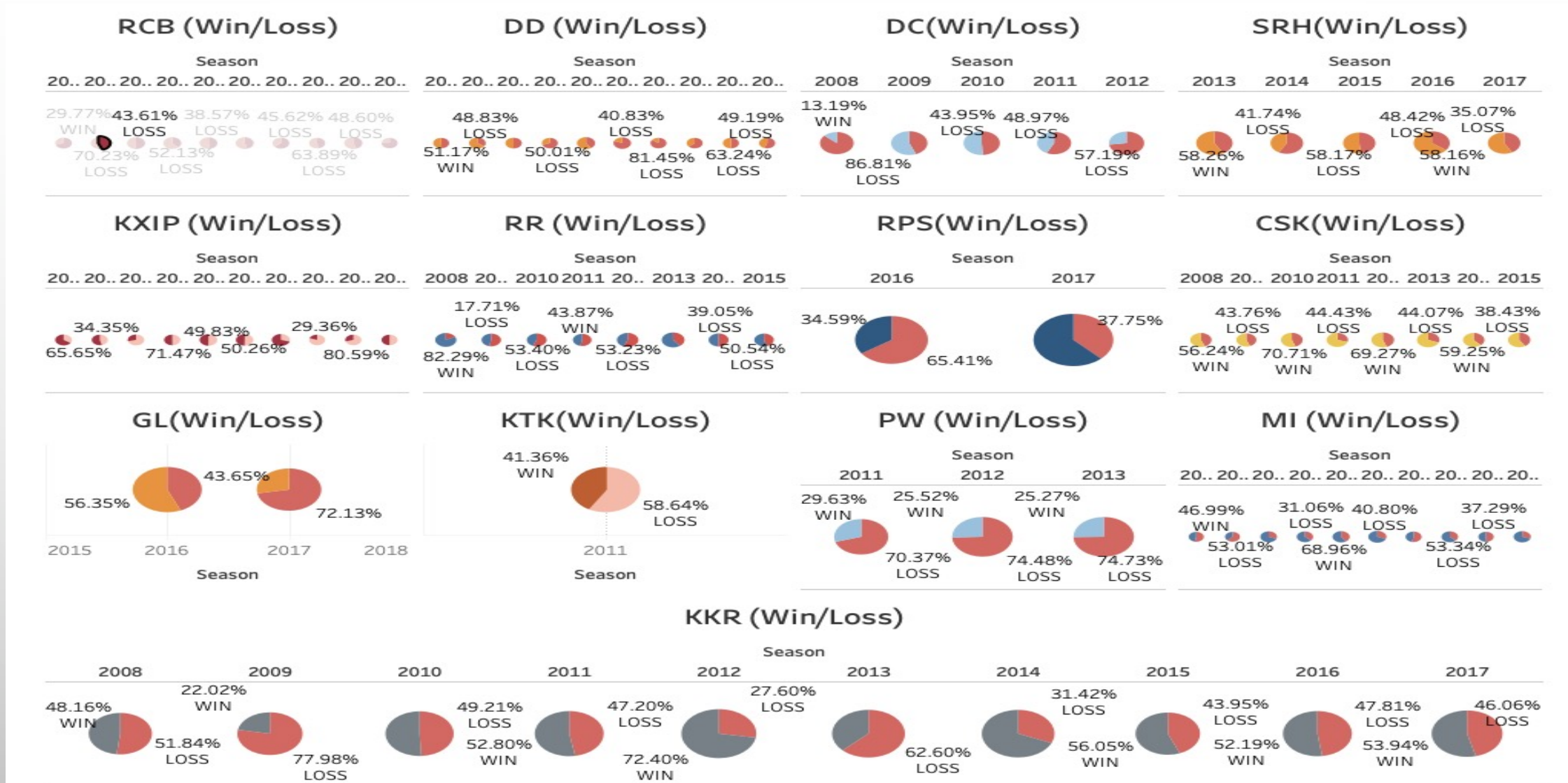
# TEAM STATISTICS

## Win Percentage (Home/Away)



- Delhi Daredevils have won highest 69.52% 'home matches' .
- Rising Pune Supergiant's have won highest 61.40% 'away matches'.

# SEASON WISE TEAM STATISTICS (WIN/LOSS)



Above visualization is for Season-wise individual team Performance.