

Case study: IPL data analysis



- 1) All Indian Premier League Cricket matches between 2008 and 2016.
- 2) This is the ball by ball data of all the IPL cricket matches till season 9.
- 3) matches.csv contains details related to the match such as location, contesting teams, umpires, results, etc.

Note: Make PPT to fill following points

- Observation
- Provide details: Answer of all the questions
- Conclusion

Questions:

- 1) Create DataFrame.
- 2) Print first 2 rows of DataFrame
- 3) Display the variable format.
- 4) Print the columns name.
- 5) Find the frequency of matches held in various cities.
- 6) Are there any variables with missing values? If yes then find out.....
- 7) Find summary of win_by_run for each variable. Min, Max, Median, Mean, sd, Var.
- 8) Find out the average of win_by_run.
- 9) Find out the toss winning team which was winning the match.
- 10) Find out the winner after winning the toss and electing to bat.
- 11) Adding the type of matches, such as final, qualifier, eliminator final etc.
- 12) Add team score and team extra columns for each match, each inning.
- 13) Batsmen aggregates (Runs, Balls, 4s, 6s, SR)
- 14) Find out the ballers aggregate wickets

- 15) Find out the No of wins by team and season in each city
- 16) Plot the performance of top 5 batsmen over seasons
- 17) Plot Percentage of total runs scored through boundaries for each batsman
- 18) Plot Performance of top bowlers over seasons
- 19) Plot top 10 Player of the match
- 20) Plot the Impact of toss on the match outcome