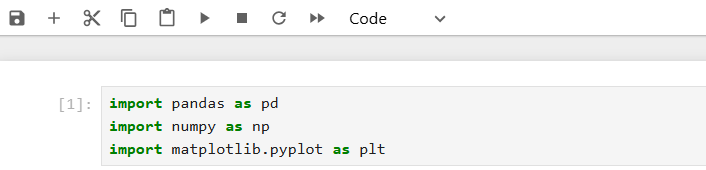
**DATA ANALYSIS**

Topic : IPL Data Frame

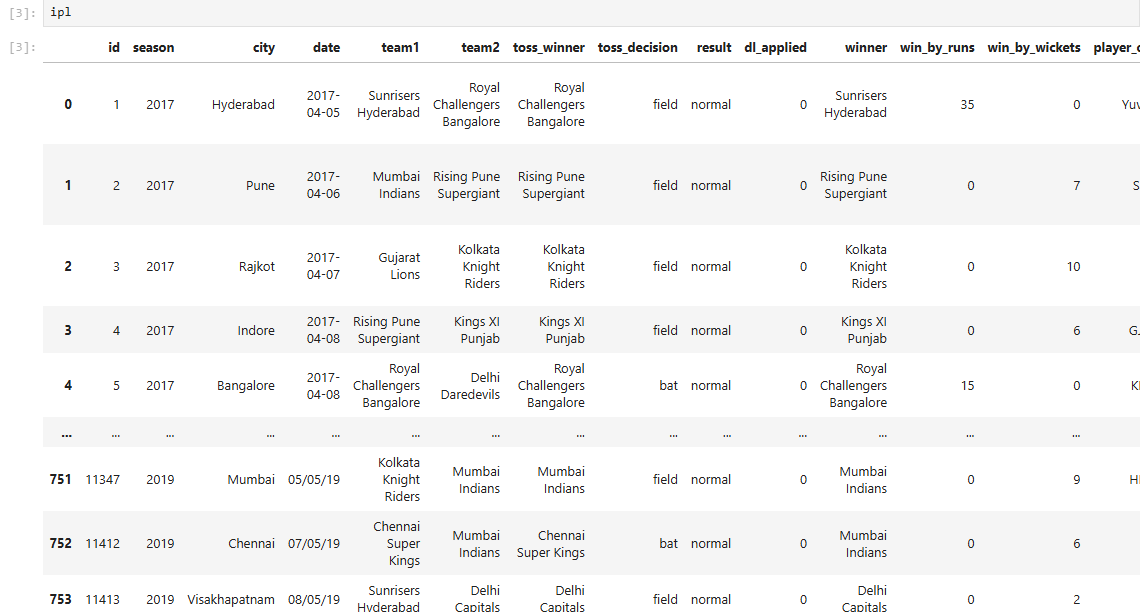
Q1. Import necessary libraries



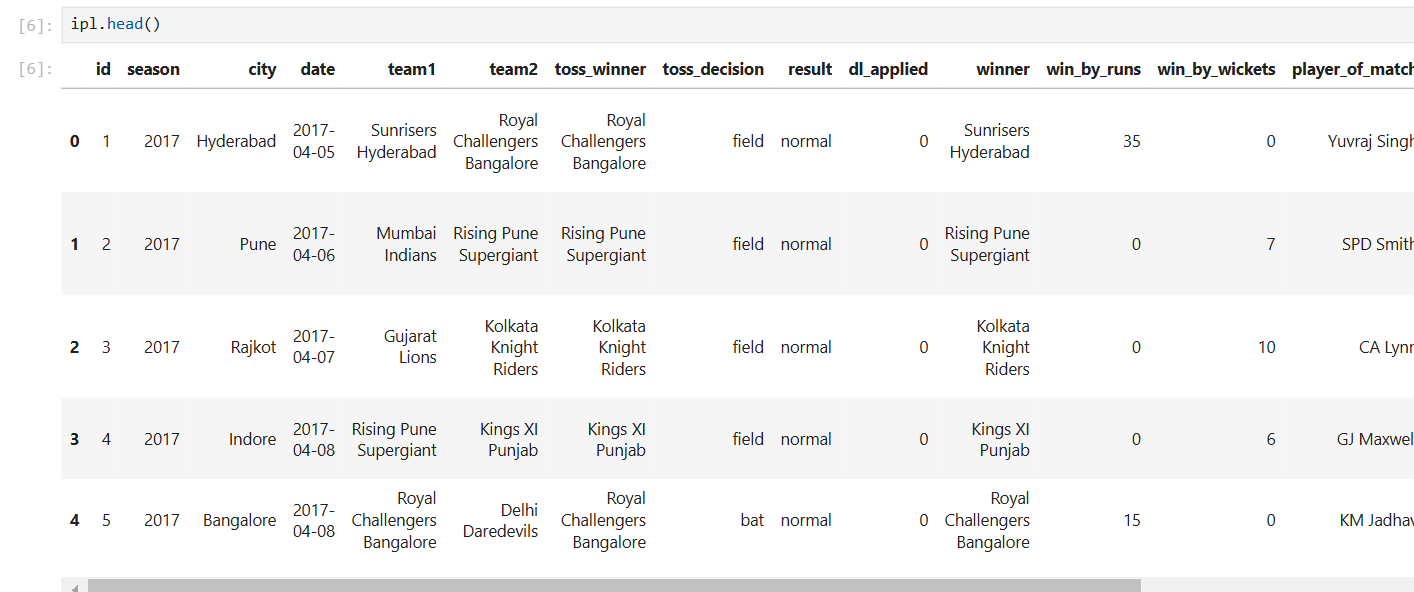
Q2. Load the dataset

ipl=pd.read\_csv('matches.csv')

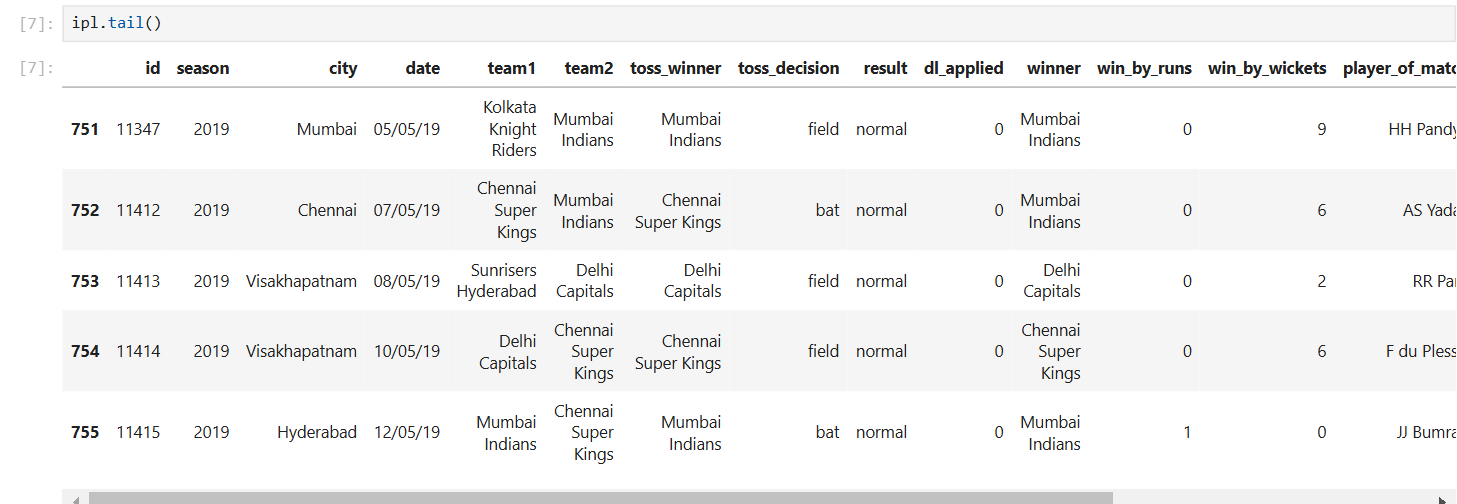
ipl



Q3. Display first few rows



Q4. isplay last few rows



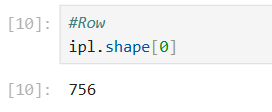
Q5. Check dataset shape



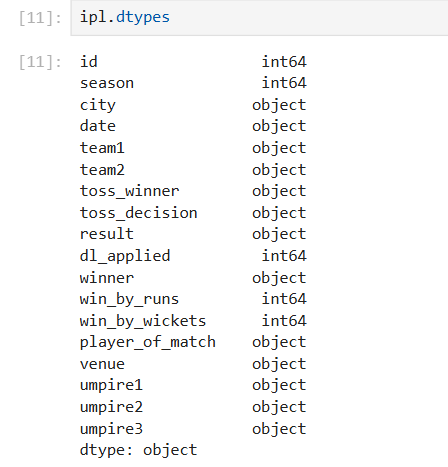
Q6. Check column names



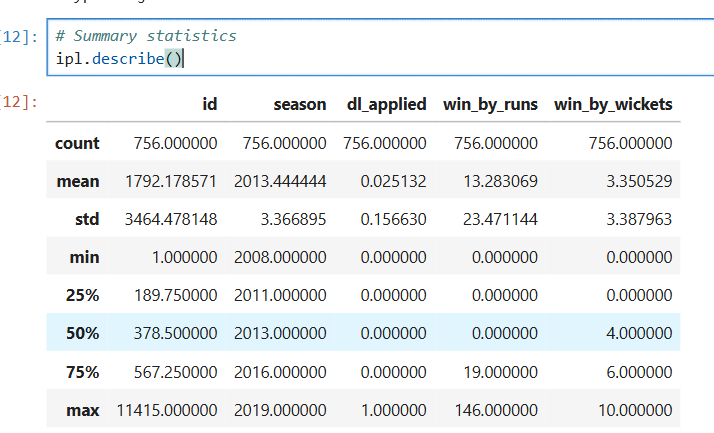
Q7. Check rows names



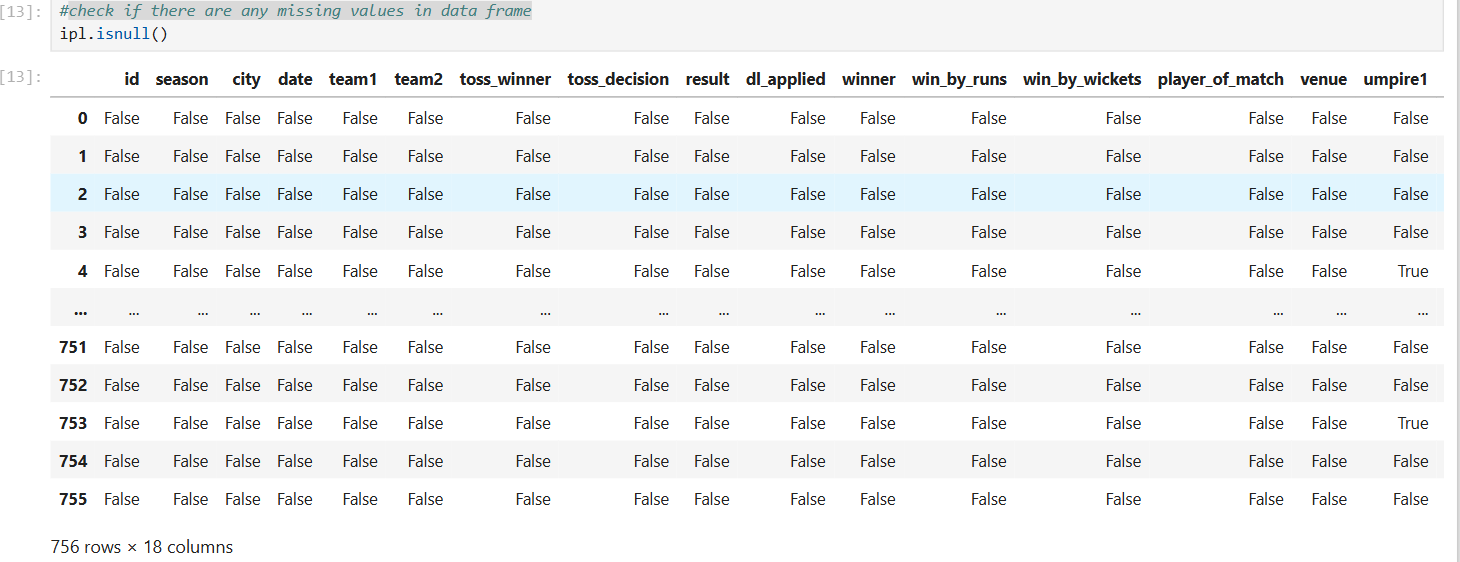
Q8. Check Data Type



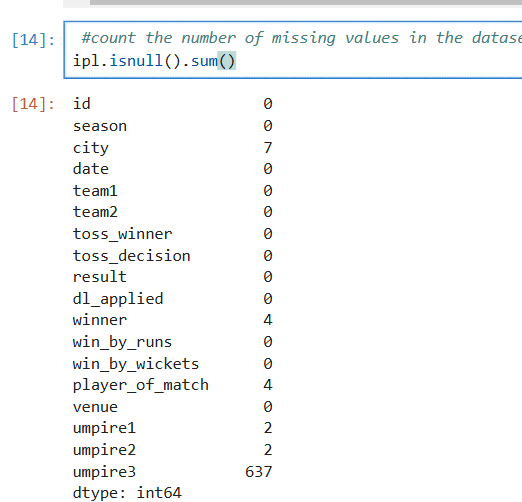
Q9. Summary statistics



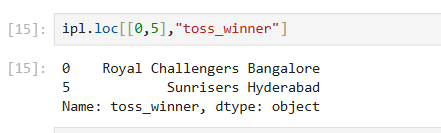
Q10. check if there are any missing values in data frame



Q11. count the number of missing values in the dataset



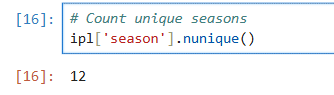
Q12. How to get toss winners for rows 0 and 5



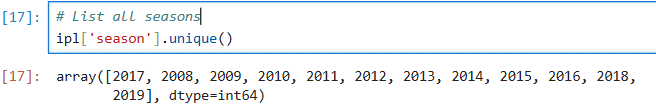
Q13. Find all matches where a specific team won the toss



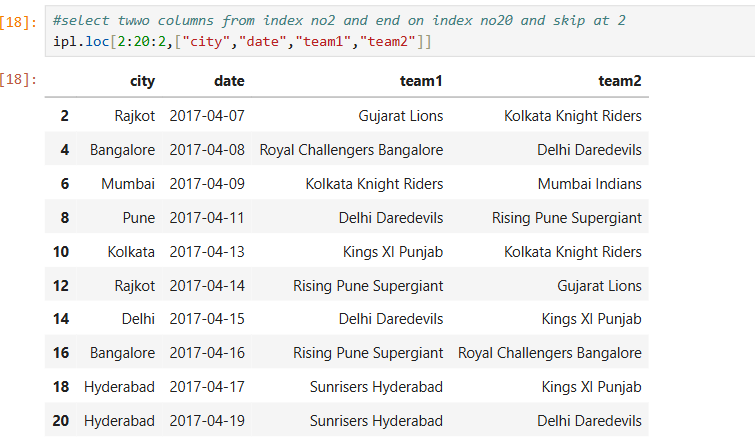
Q14. Count unique seasons



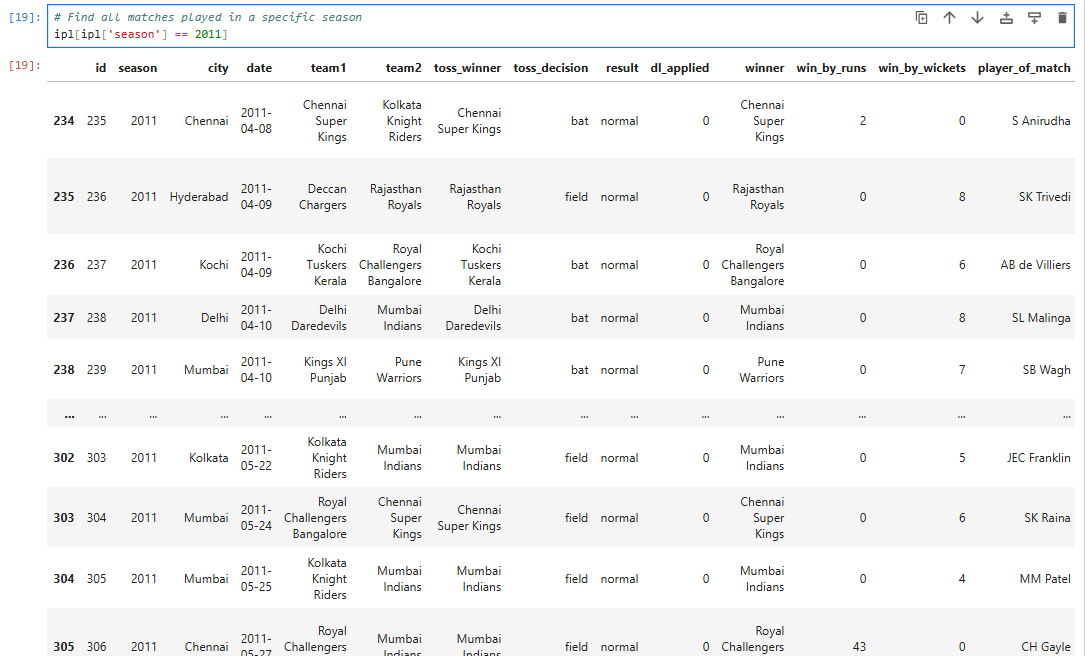
Q15. List all seasons



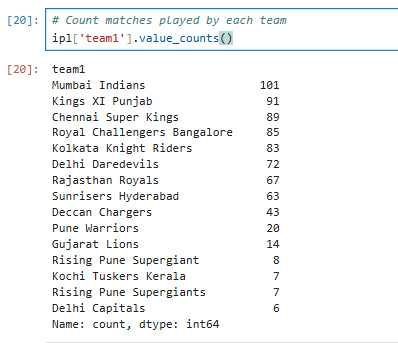
Q16. select twwo columns from index no2 and end on index no20 and skip at 2



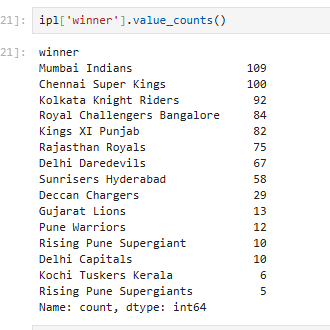
Q17. Find all matches played in a specific season



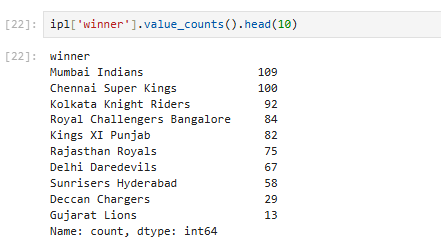
Q18. Count matches played by each team



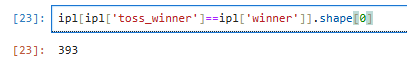
Q19. How to count match wins by each team in Pandas



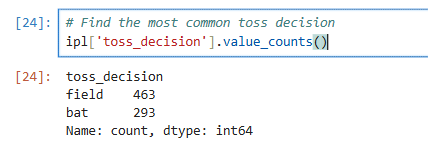
Q20. How to get the top 10 teams with the most wins in an IPL dataset using Pandas



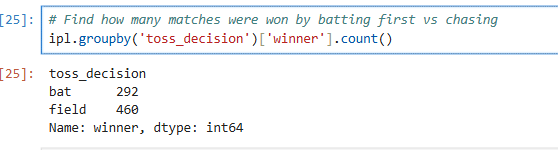
Q21. How to count matches where the toss winner also won the game



Q22. Find the most common toss decision



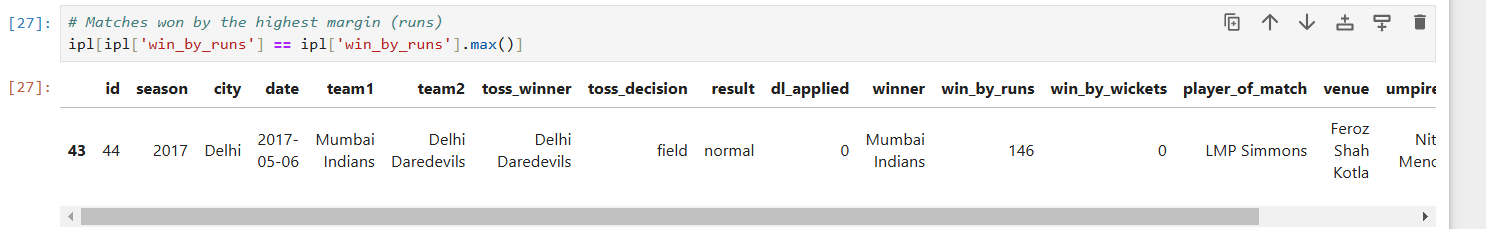
Q23. Find how many matches were won by batting first vs chasing



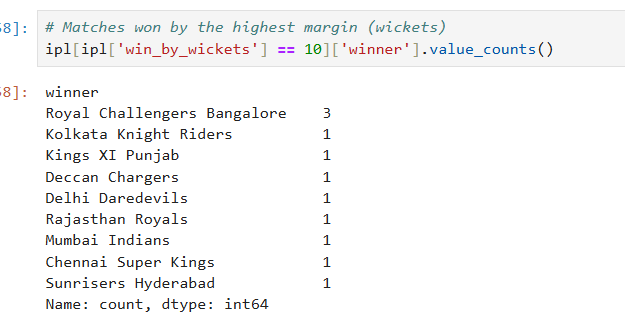
Q24. Find the most common venues for matches



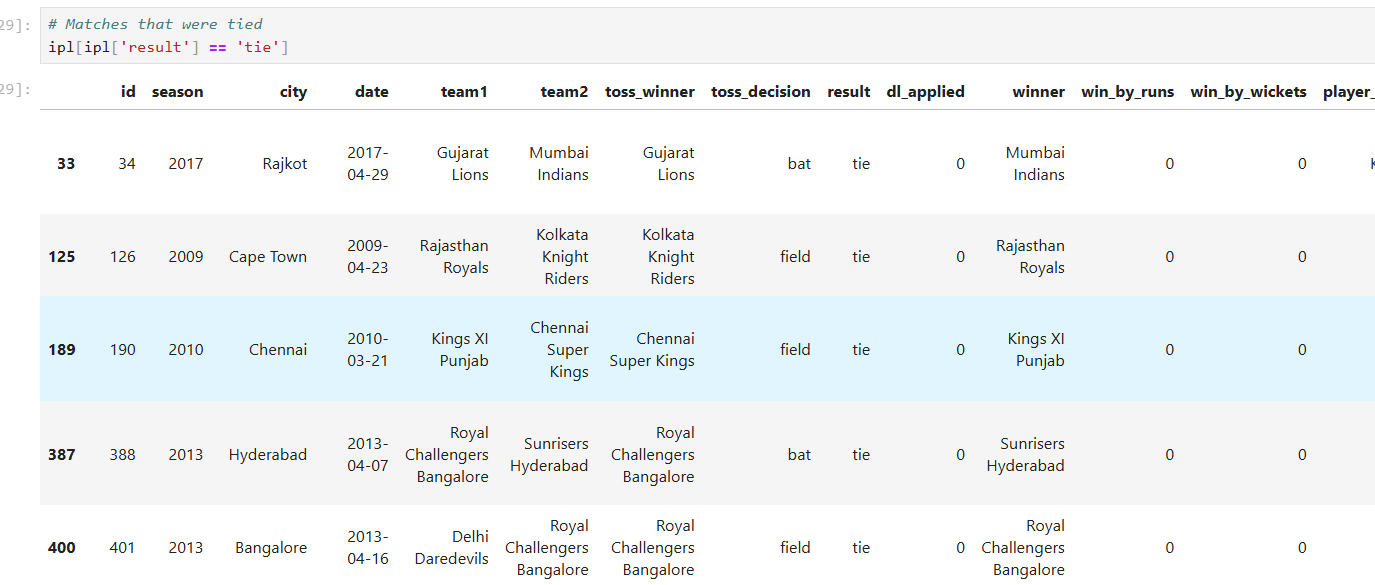
Q25. Matches won by the highest margin (runs)



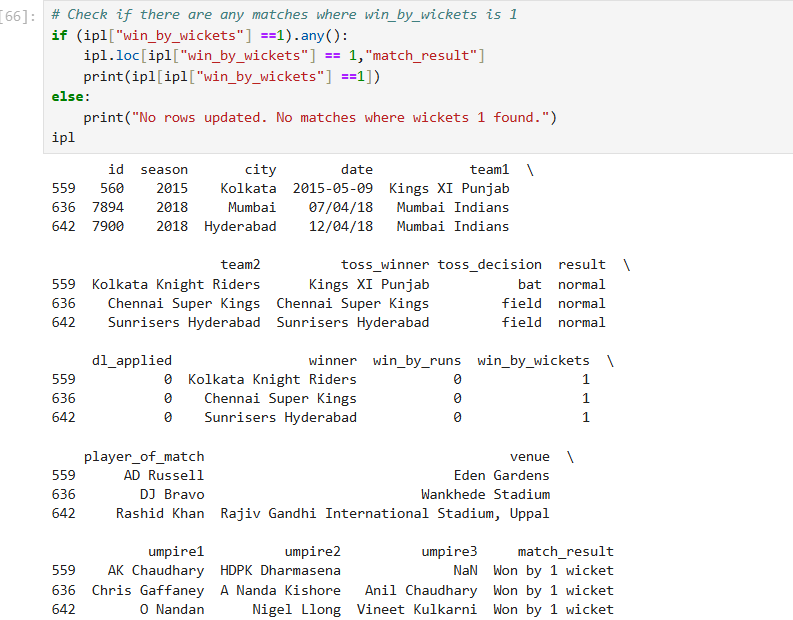
Q26. Find the teams that won by 10 wickets the most



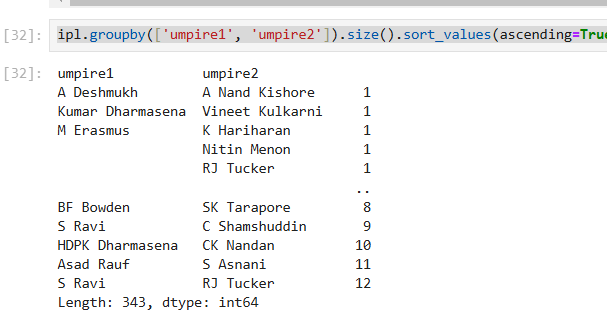
Q27. Matches that were tied



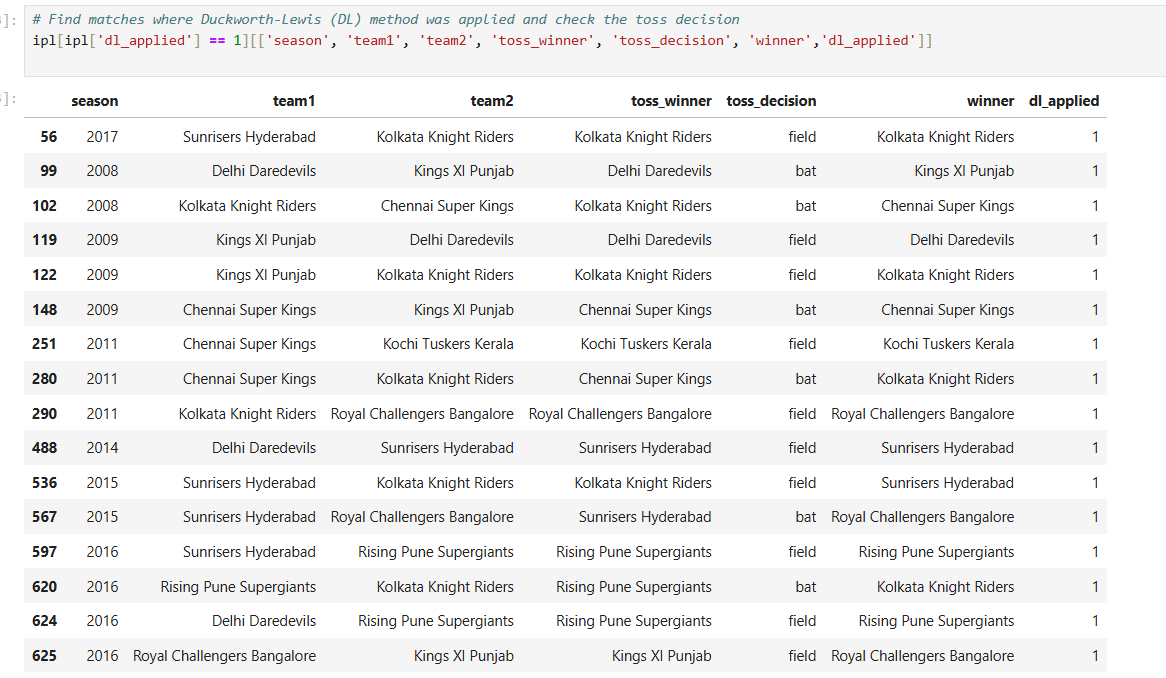
Q28. Check if there are any matches where win\_by\_wickets is 1



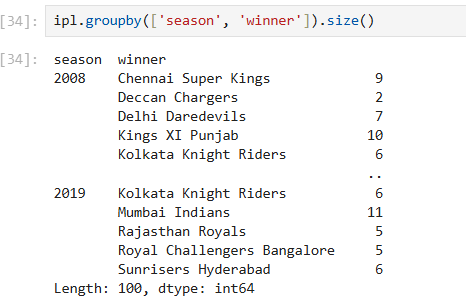
Q29. How to find and sort umpire pairings by the number of matches officiated



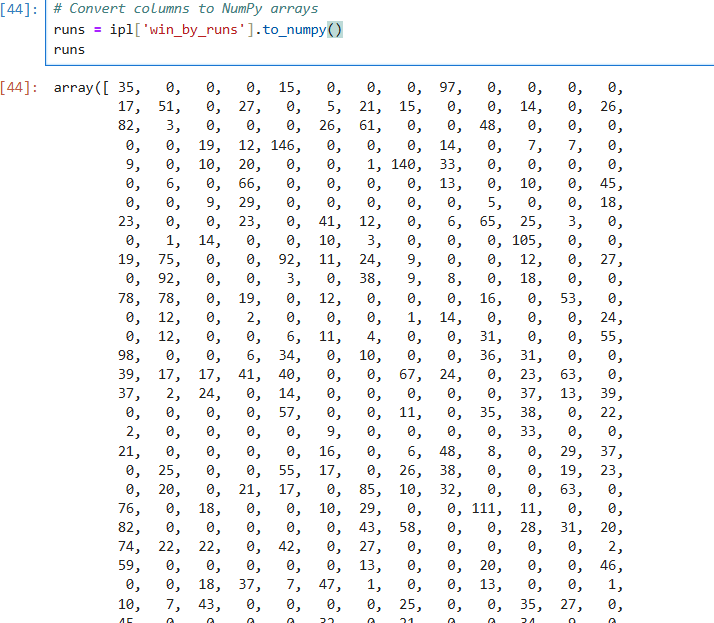
Q30. Find matches where Duckworth-Lewis (DL) method was applied and check the toss decision



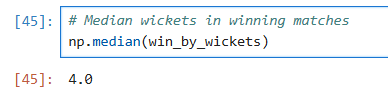
Q31. How to get match wins per team per season



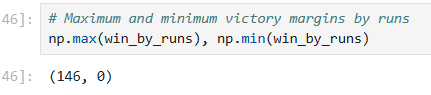
Q32. Convert columns to NumPy arrays



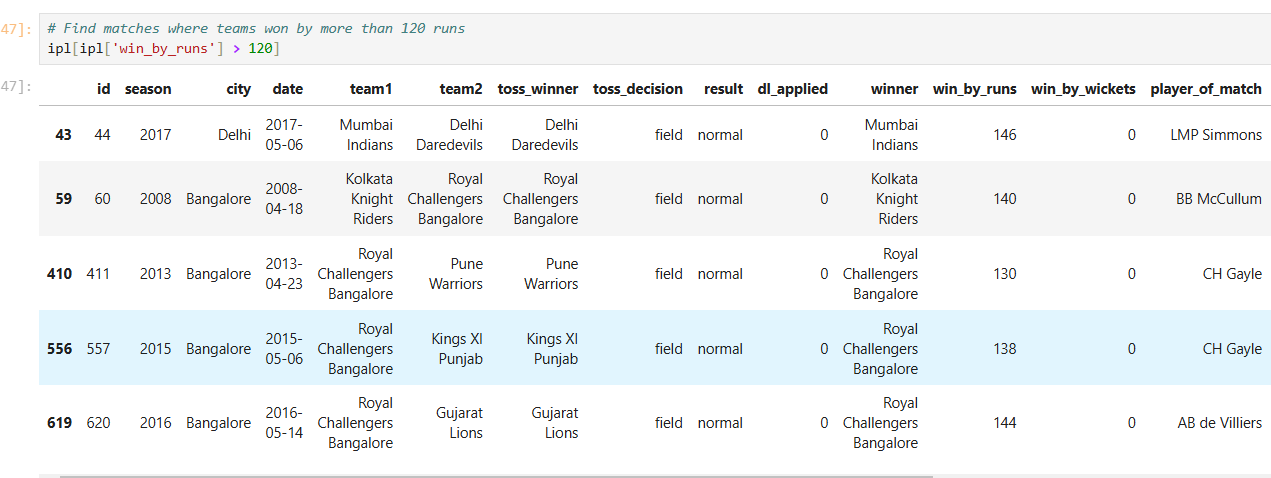
Q33. Median wickets in winning matches



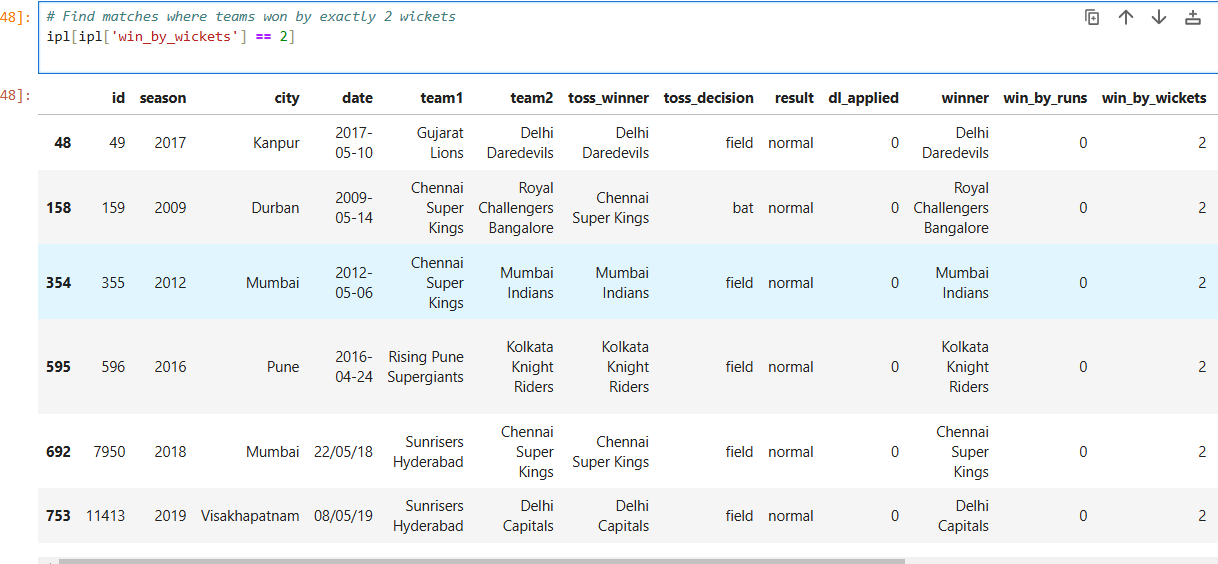
Q34. Maximum and minimum victory margins by runs



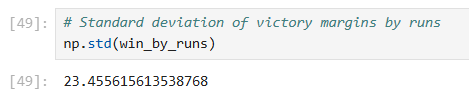
# Q35. **Find matches where teams won by more than 120 runs**



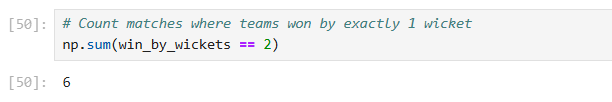
Q36. Find matches where teams won by exactly 2 wickets



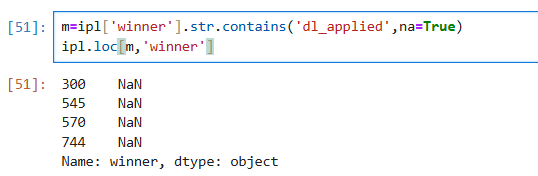
Q37. Standard deviation of victory margins by runs



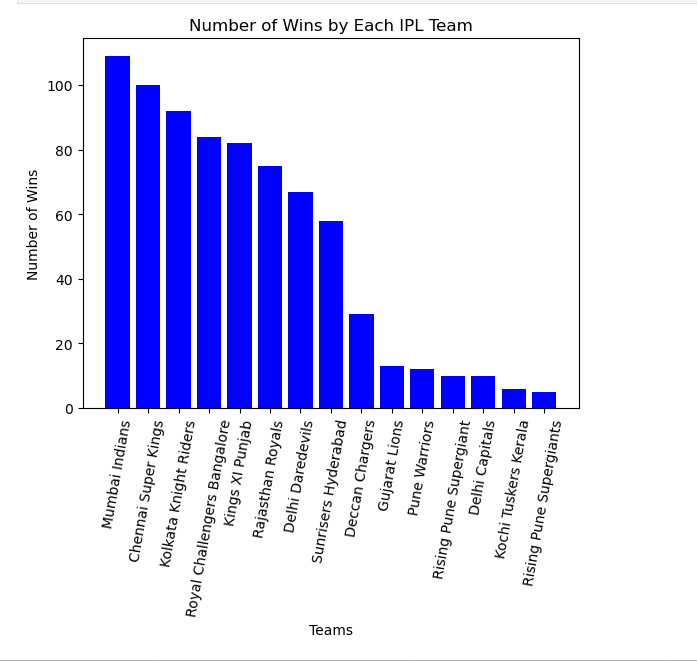
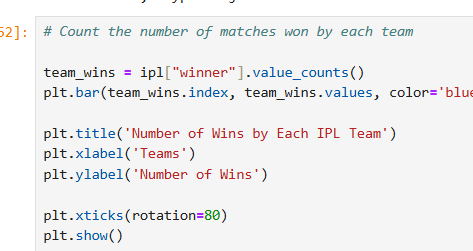
Q38. Count matches where teams won by exactly 1 wicket

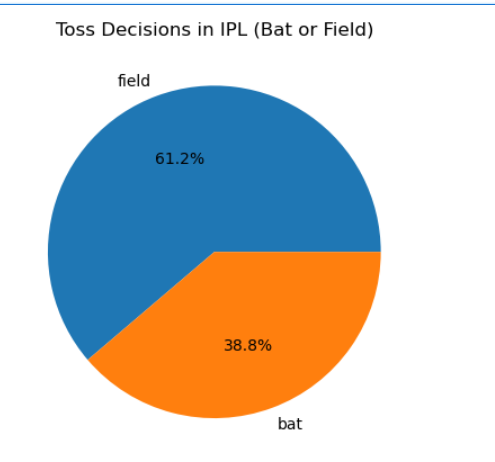
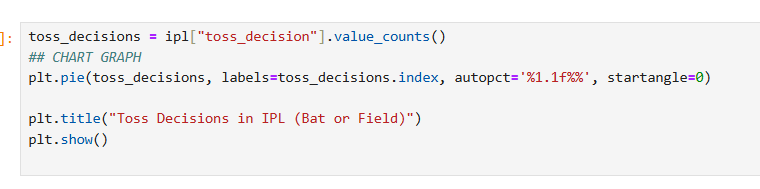


Q39. How to filter matches where 'dl\_applied' is in the winner column



Q40. Count the number of matches won by each team



Q41. toss\_decisions in pie chart. 

Q42. Histogram to reprsent win\_by\_wickets

