

Capstone Project

IPL T20 Cricket Analysis

Content

Analysis Based On:

- Seasons
- Players
- Grounds
- Matches

Trends:

- Batsman
- Baller
- Average
- Strike-rate
- Win-rate
- Stadium

Conclusion:

Problem Statement:

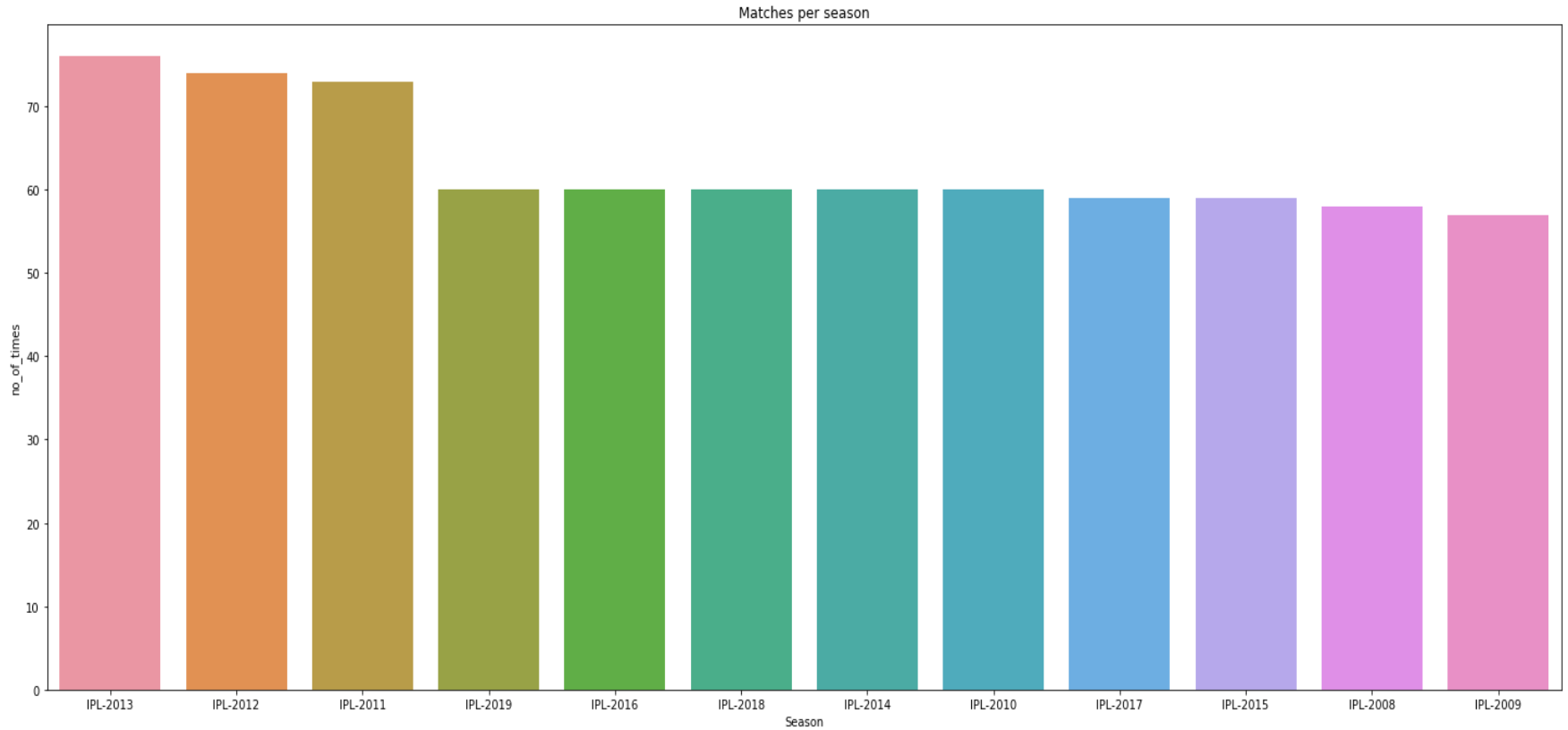
Indian Premier League(IPL) is a professional Twenty20 cricket league in India contested during March or April and May of every year by eight teams representing eight different cities in India. The league was founded by the Board of Control for Cricket in India(BCCI) in 2008. Explore and analyze the data to discover results and statistics for different teams playing in IPL.

Data Summary

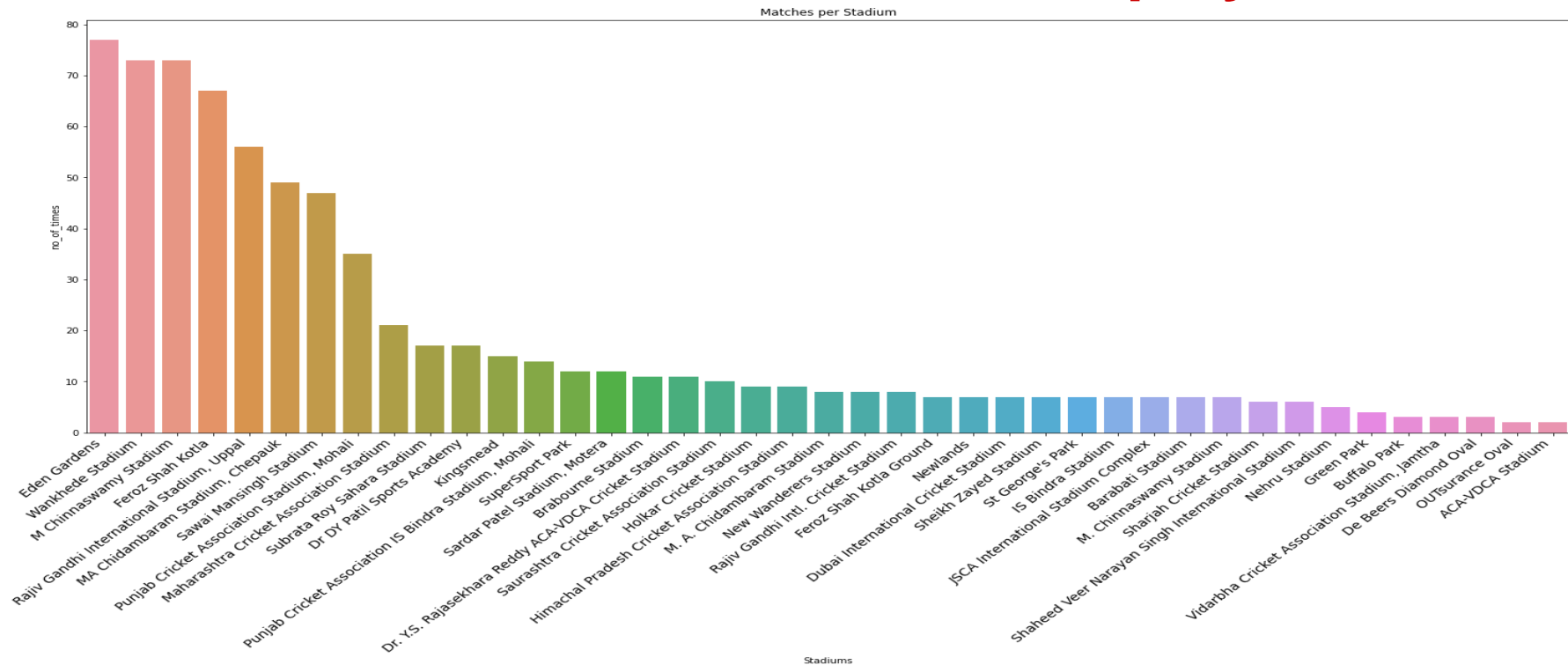
Dataset names:

- *Players Data*
- *Deliveries Data*
- *Matches Data*
- *Teams Data*
- *Most runs, Average and Strikerate Data*
- *Teamwise Home and Away Data*

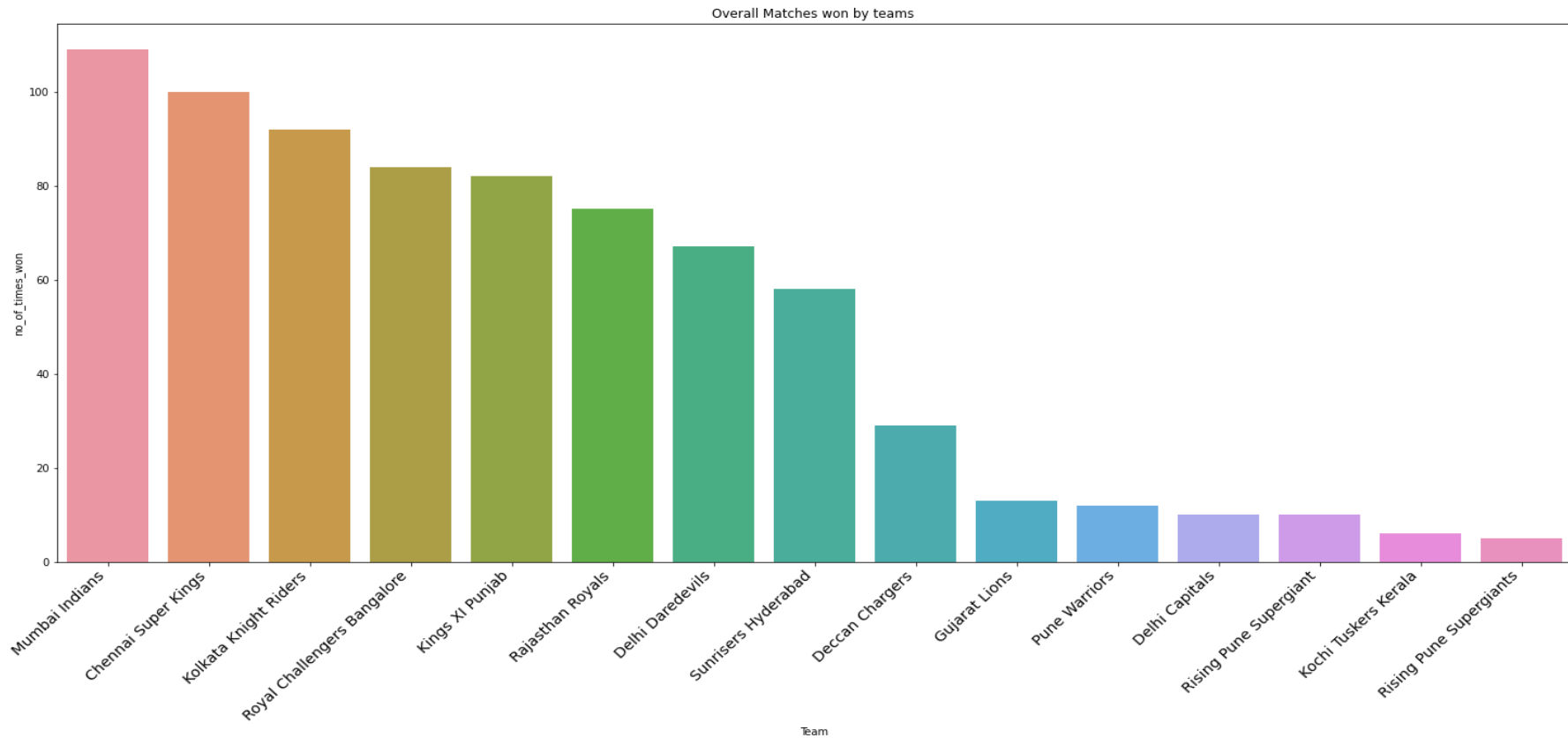
Overall seasons



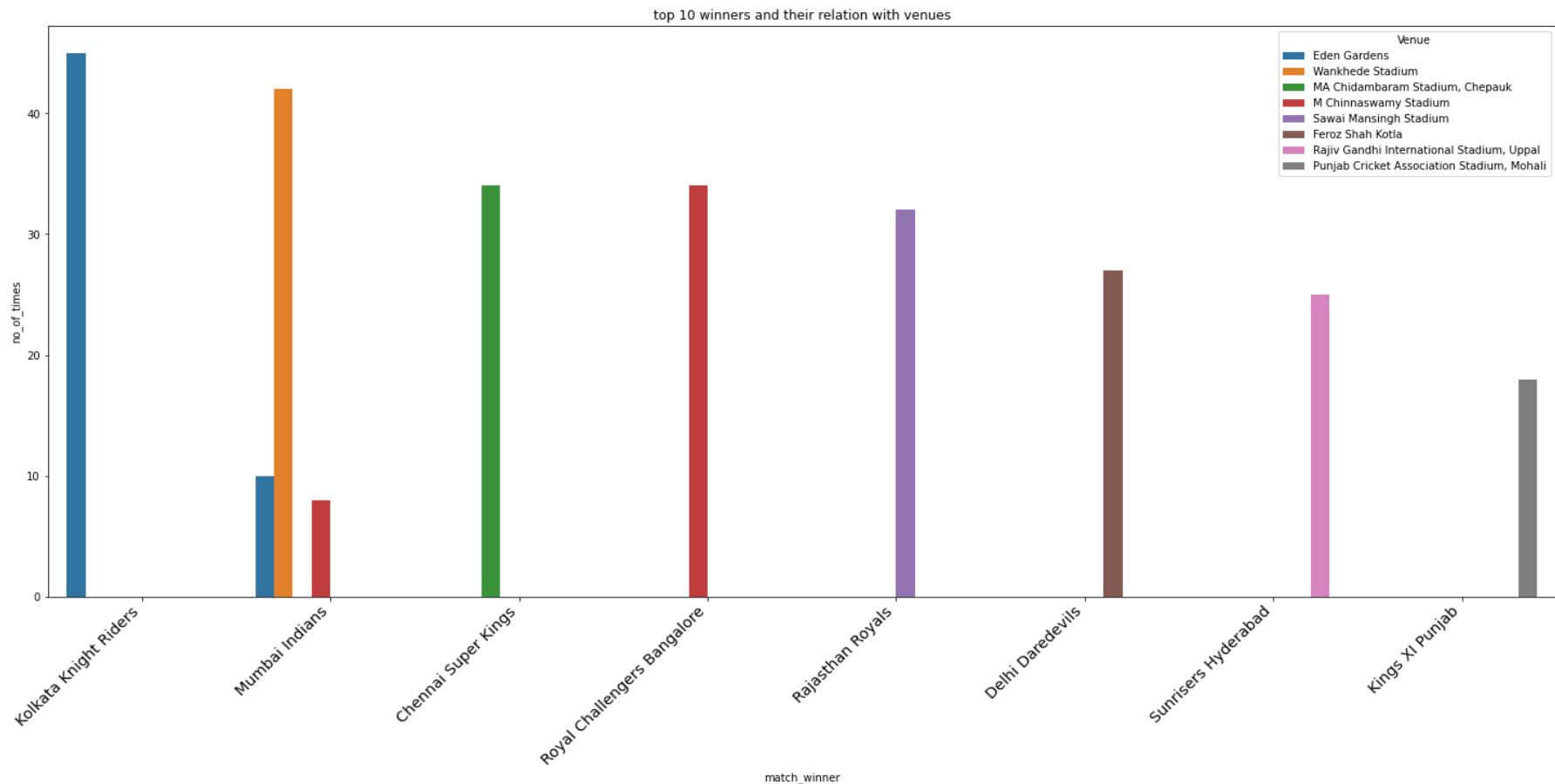
Stadiums in which matches played



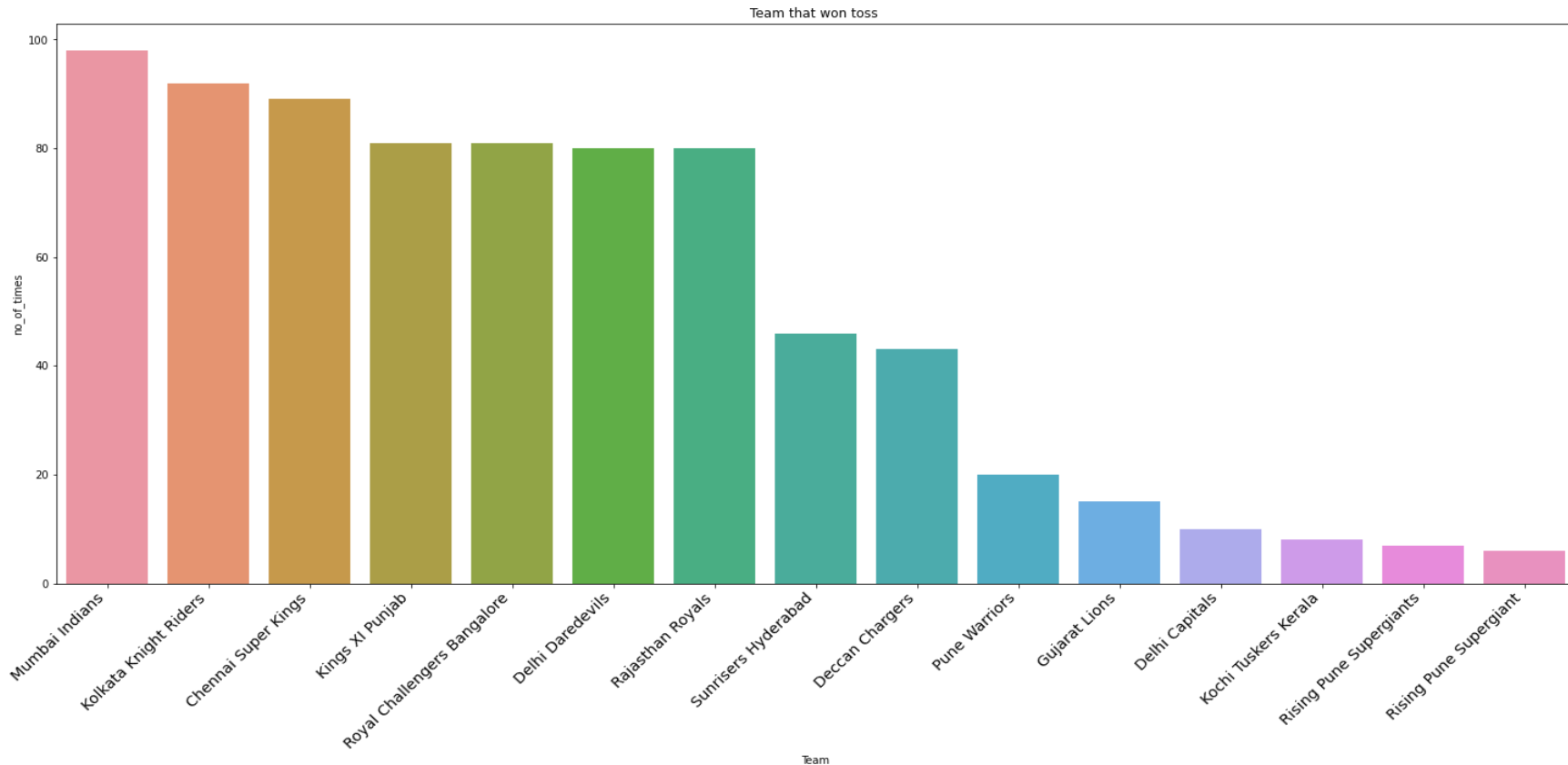
Most matches winning teams



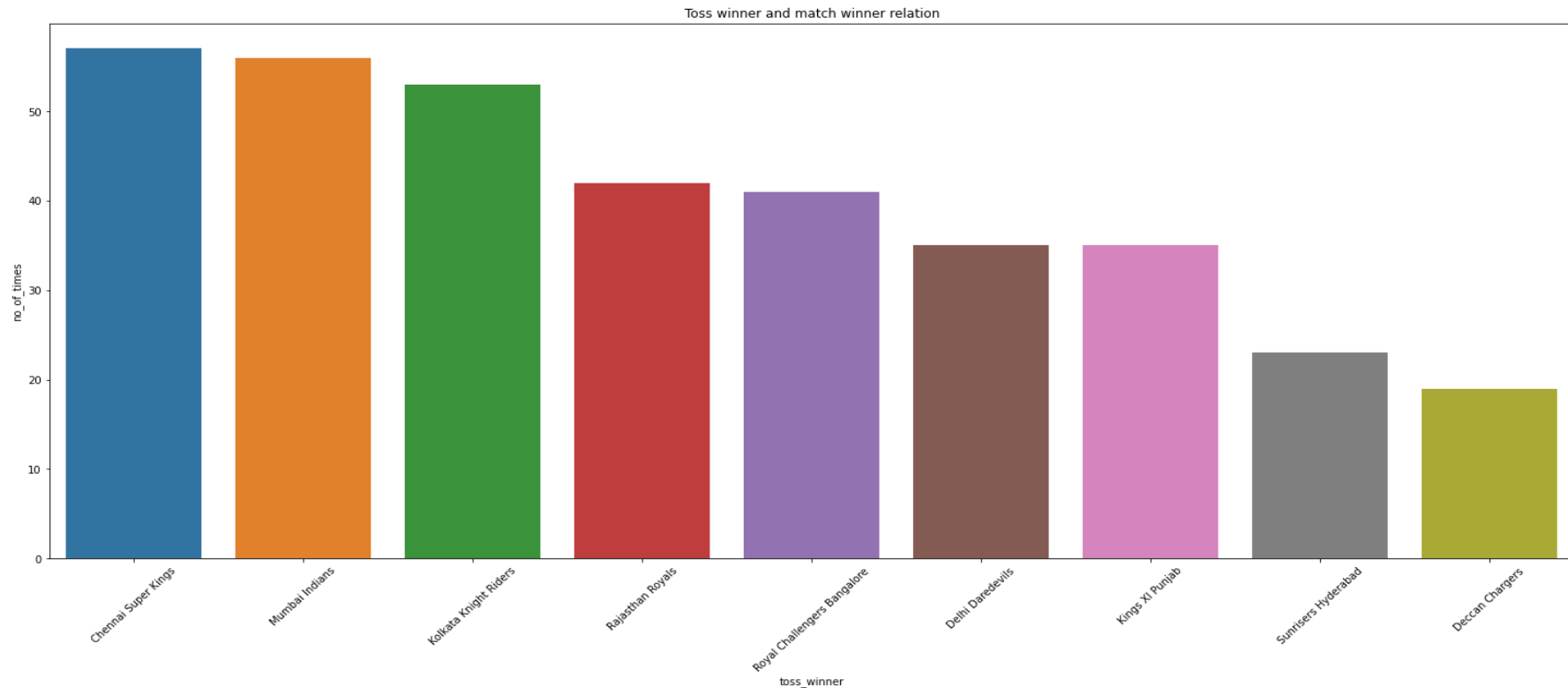
Relation between winning team and venue



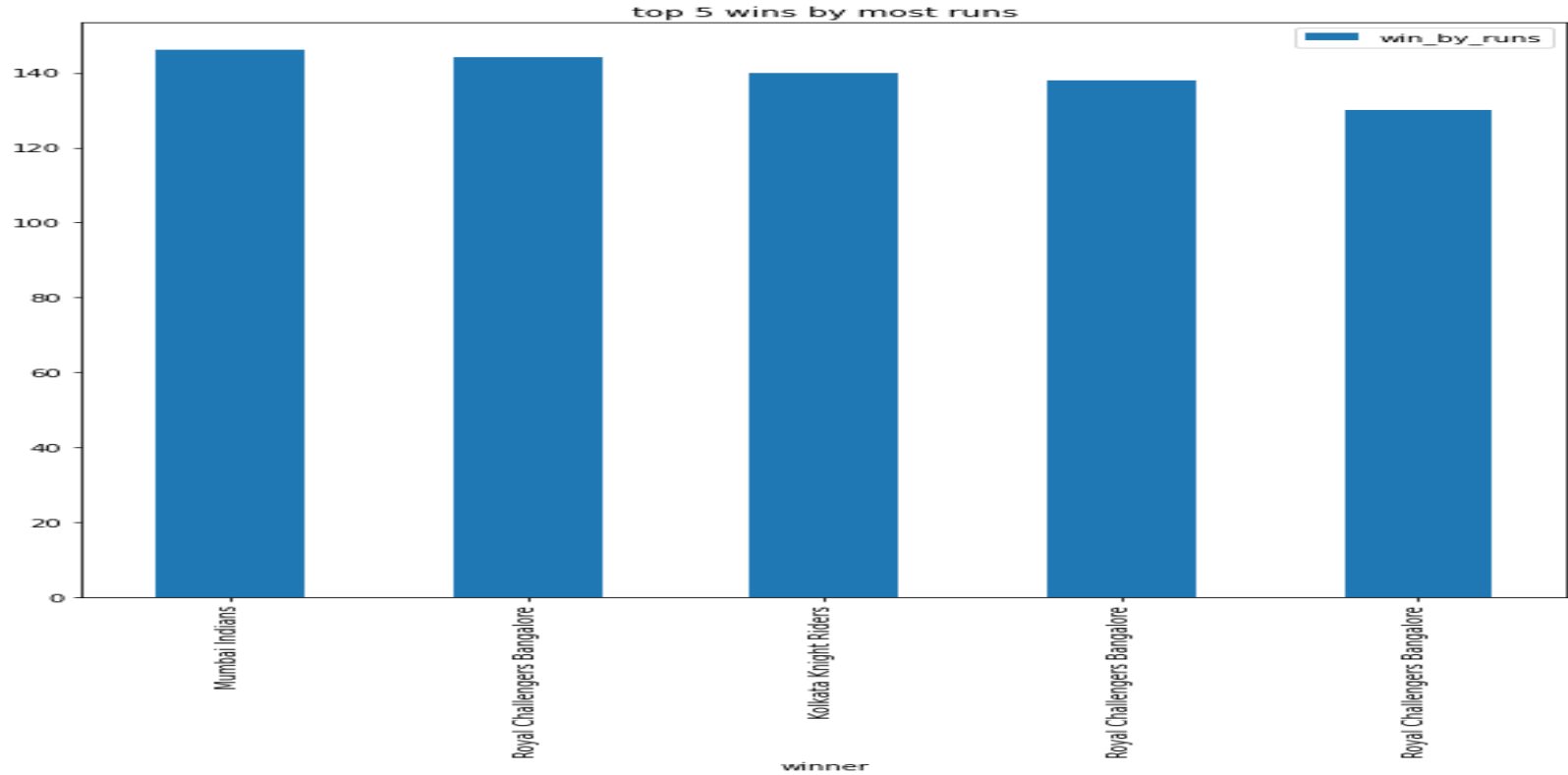
Most toss winning teams



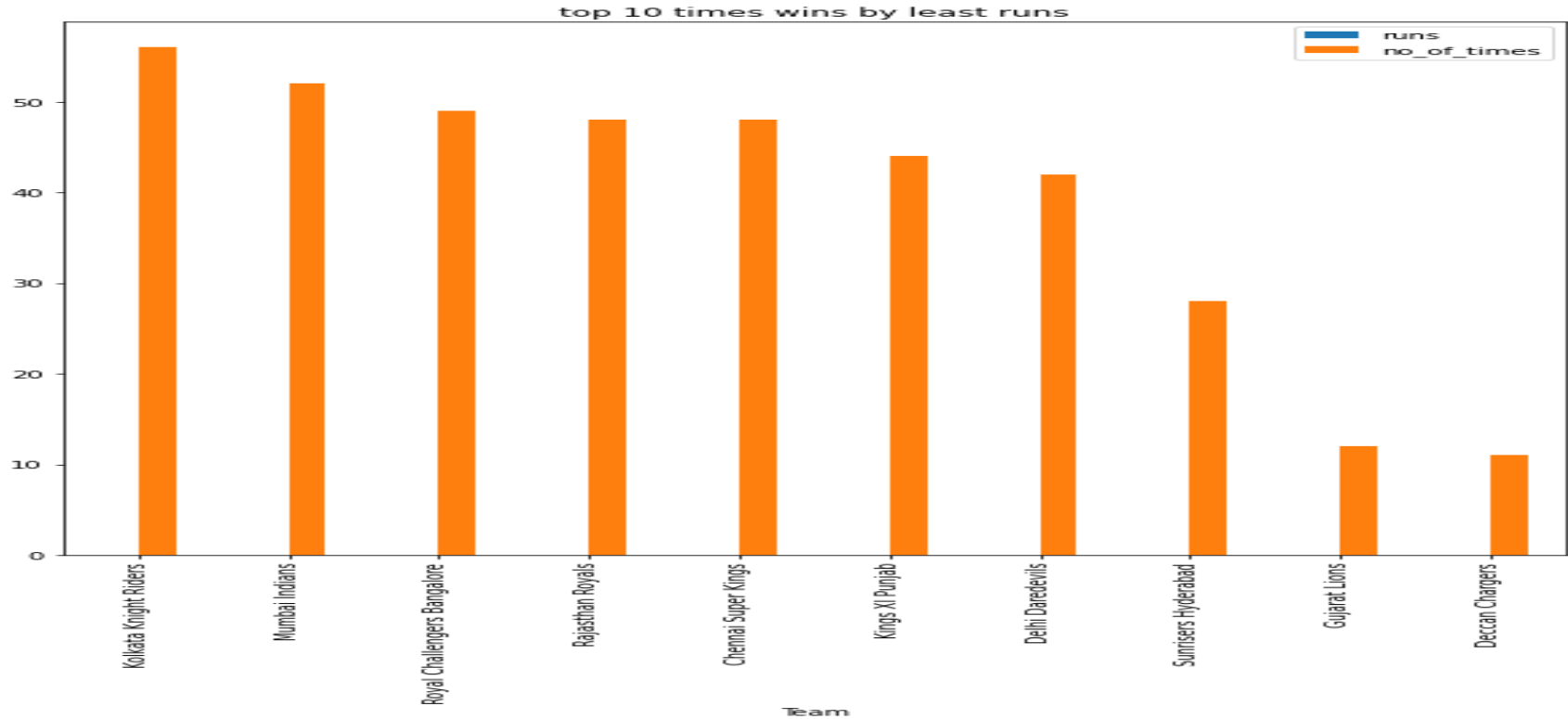
Most toss plus match winning teams



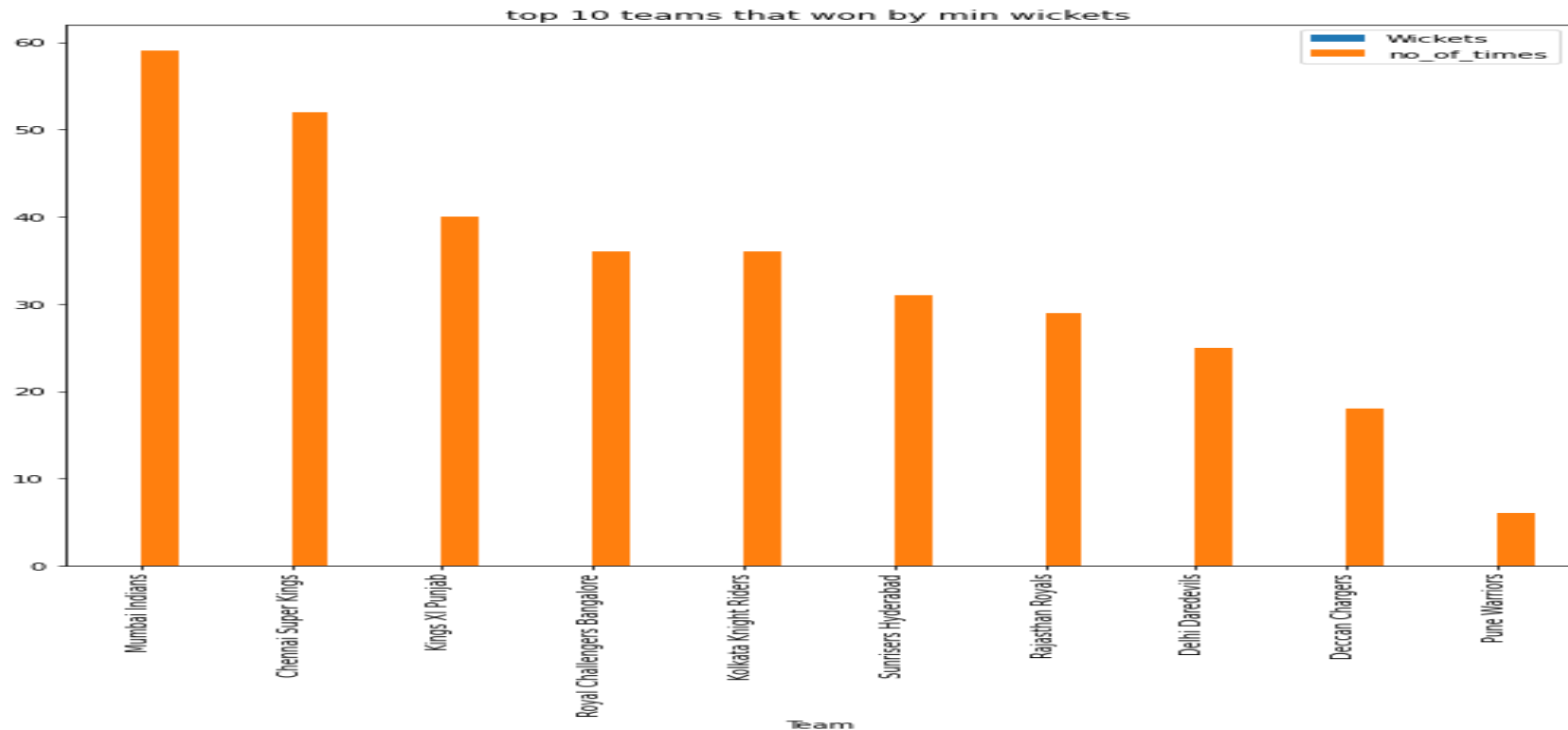
Top 5 team which has won by maximum runs



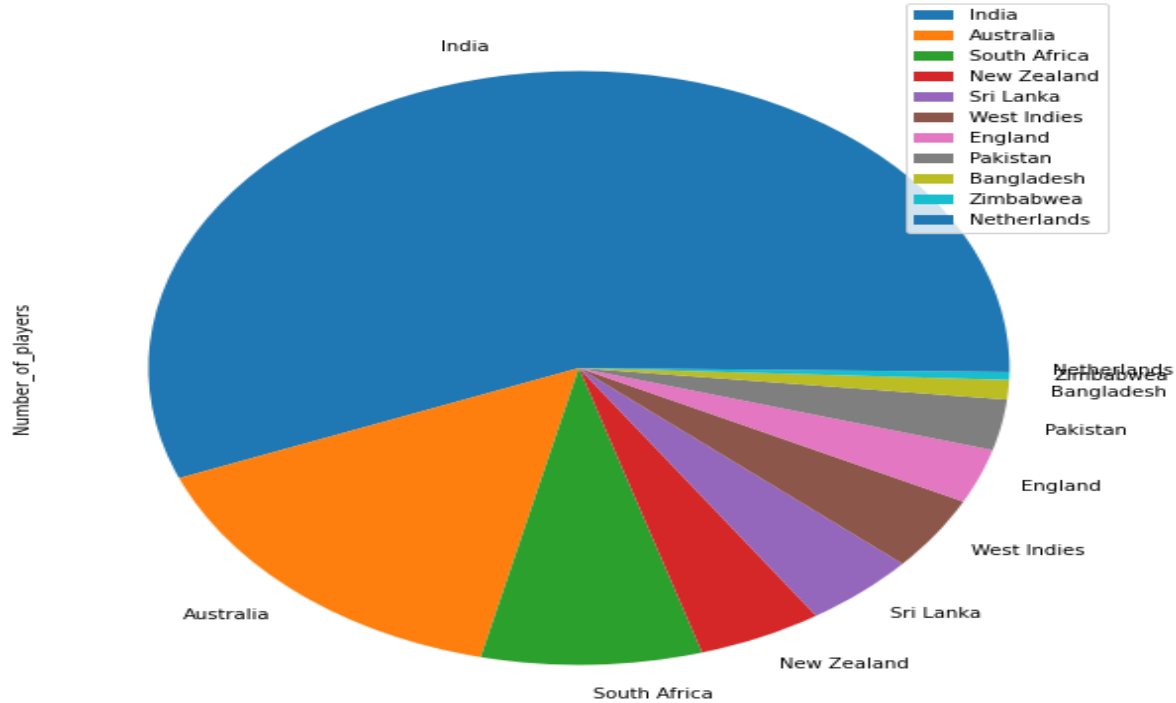
Top 10 teams which has won by minimum runs



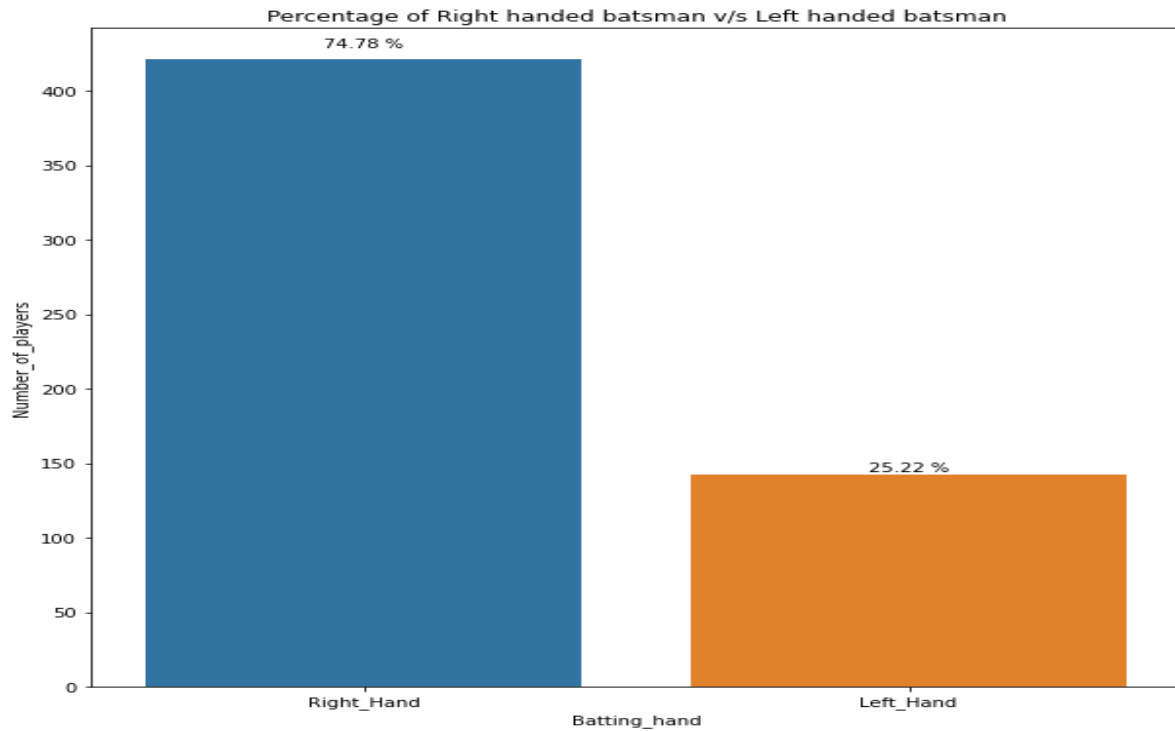
Teams which has won by keeping most wickets



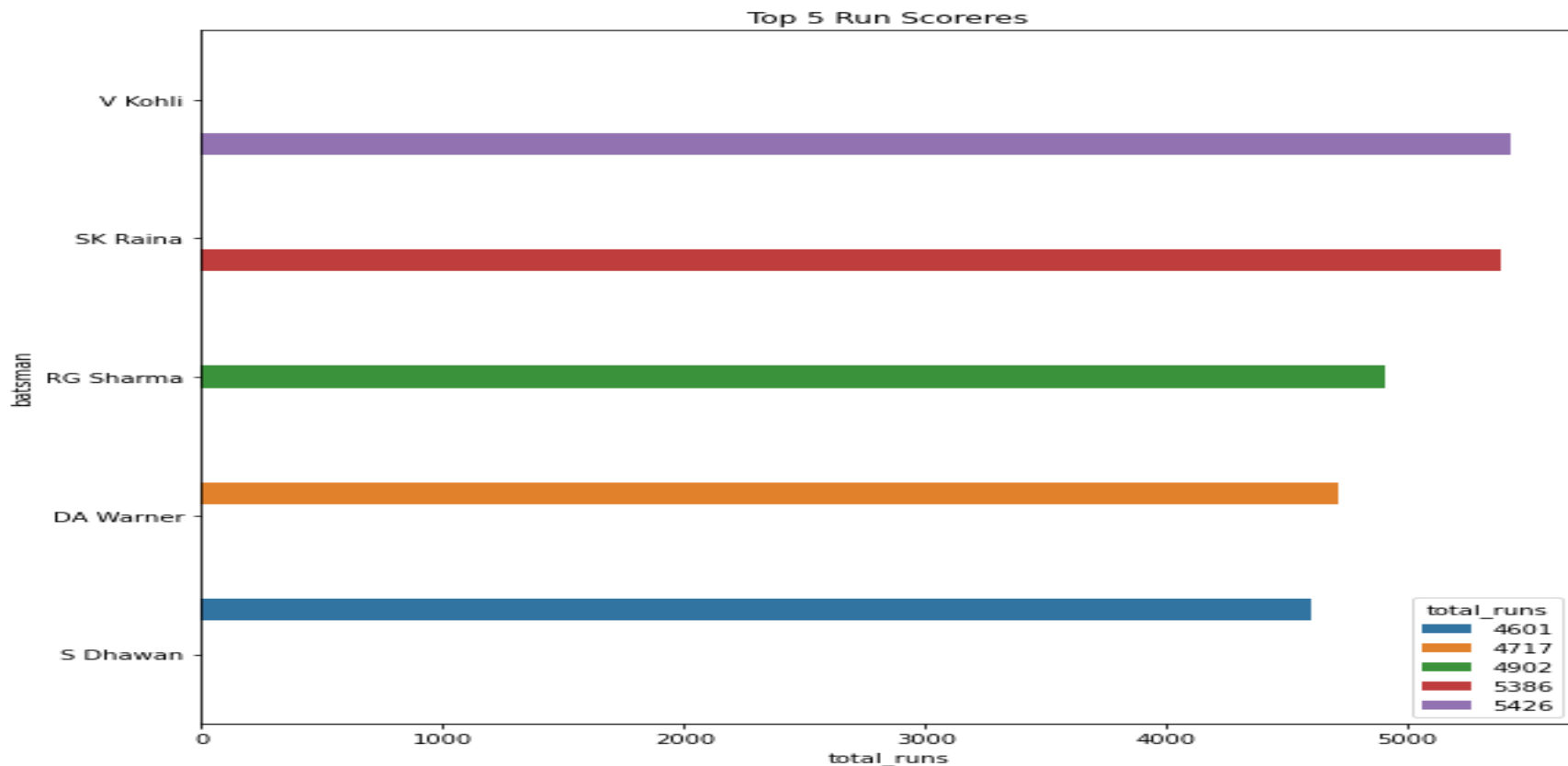
Players and their respective countries



Players and their batting side



Most runs throughout the seasons by players

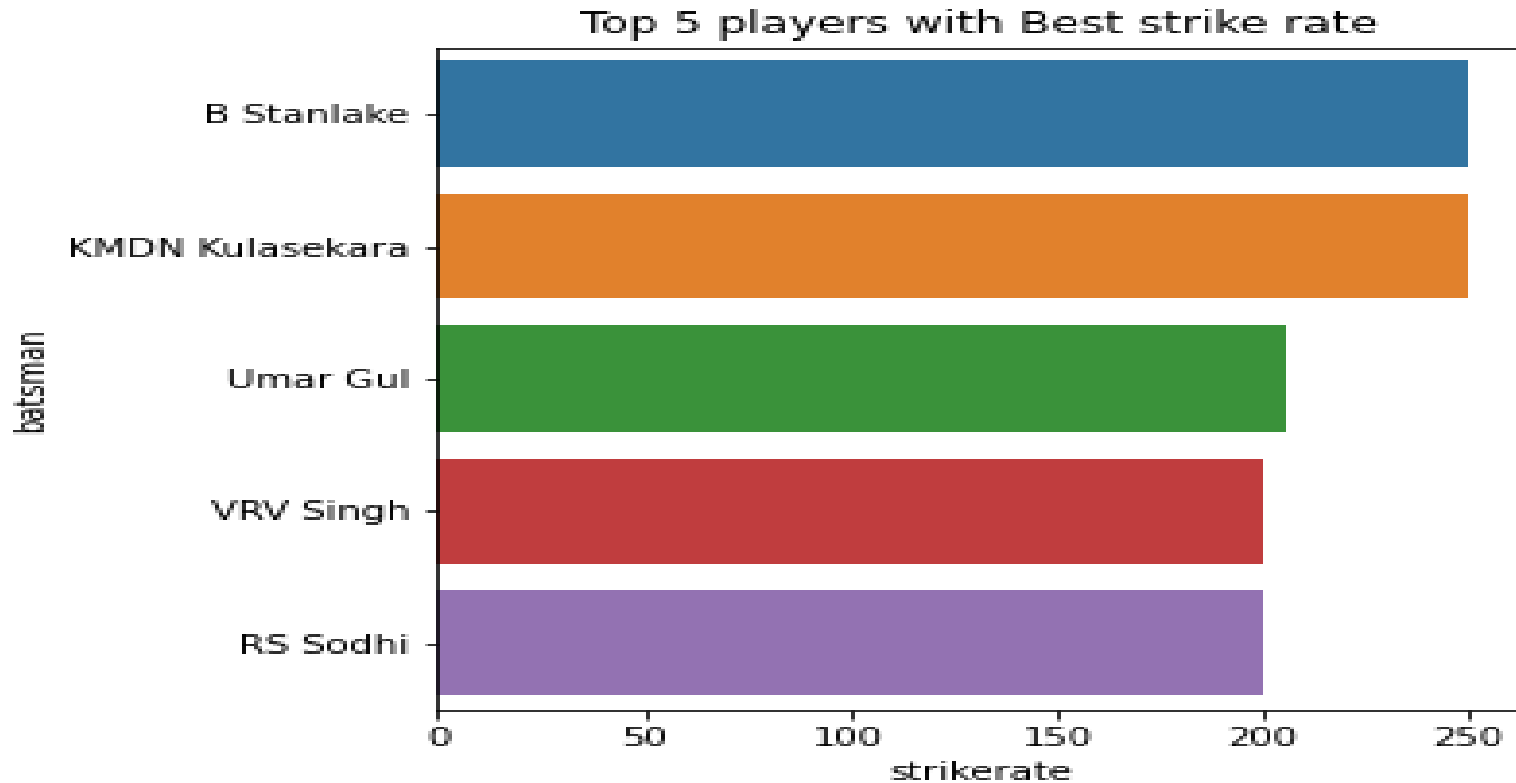


Players who has hit most sixes throughout the seasons

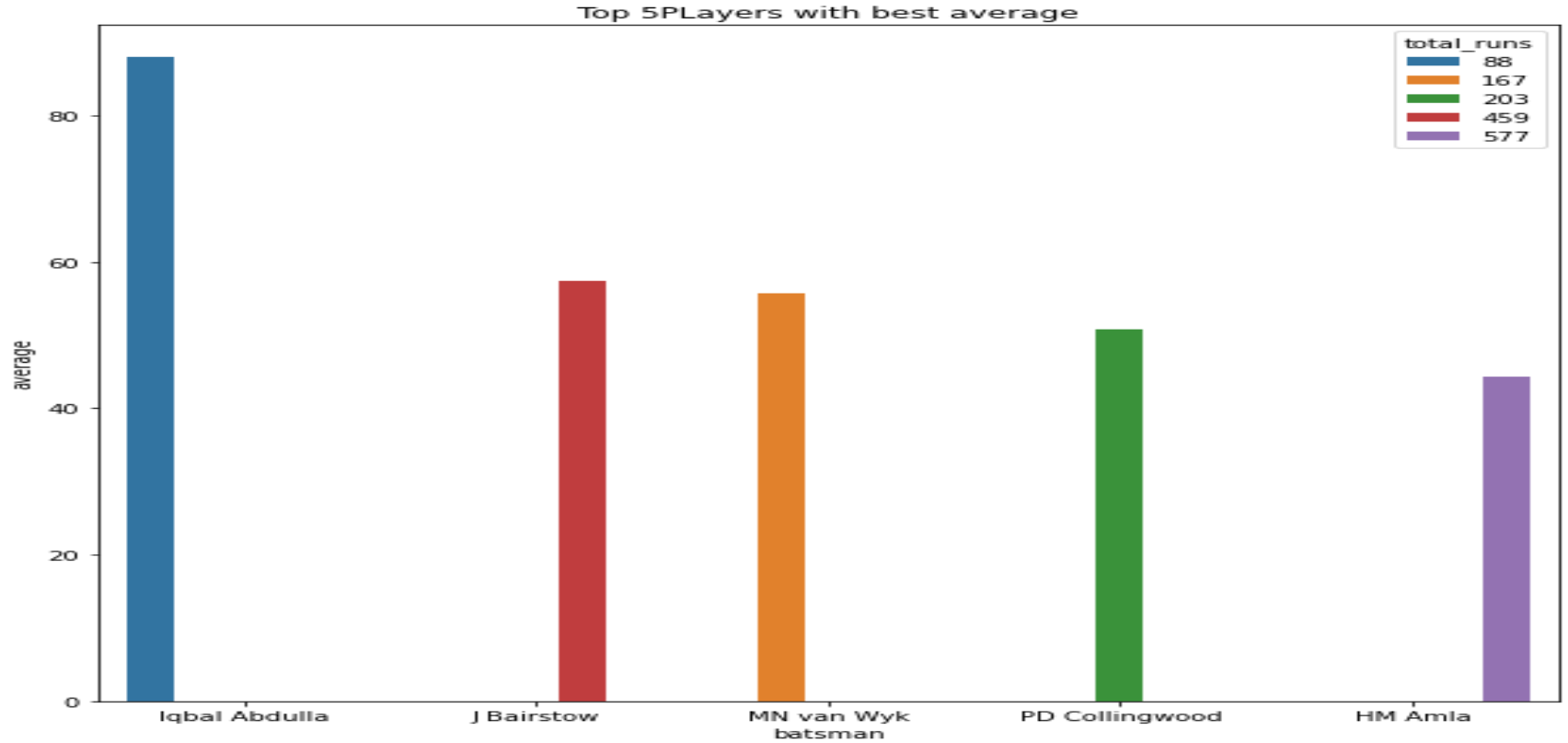


| | batsman | batsman_runs | no_of_times |
|---|----------------|--------------|-------------|
| 0 | CH Gayle | 6 | 327 |
| 1 | AB de Villiers | 6 | 214 |
| 2 | MS Dhoni | 6 | 207 |
| 3 | SK Raina | 6 | 195 |
| 4 | RG Sharma | 6 | 194 |

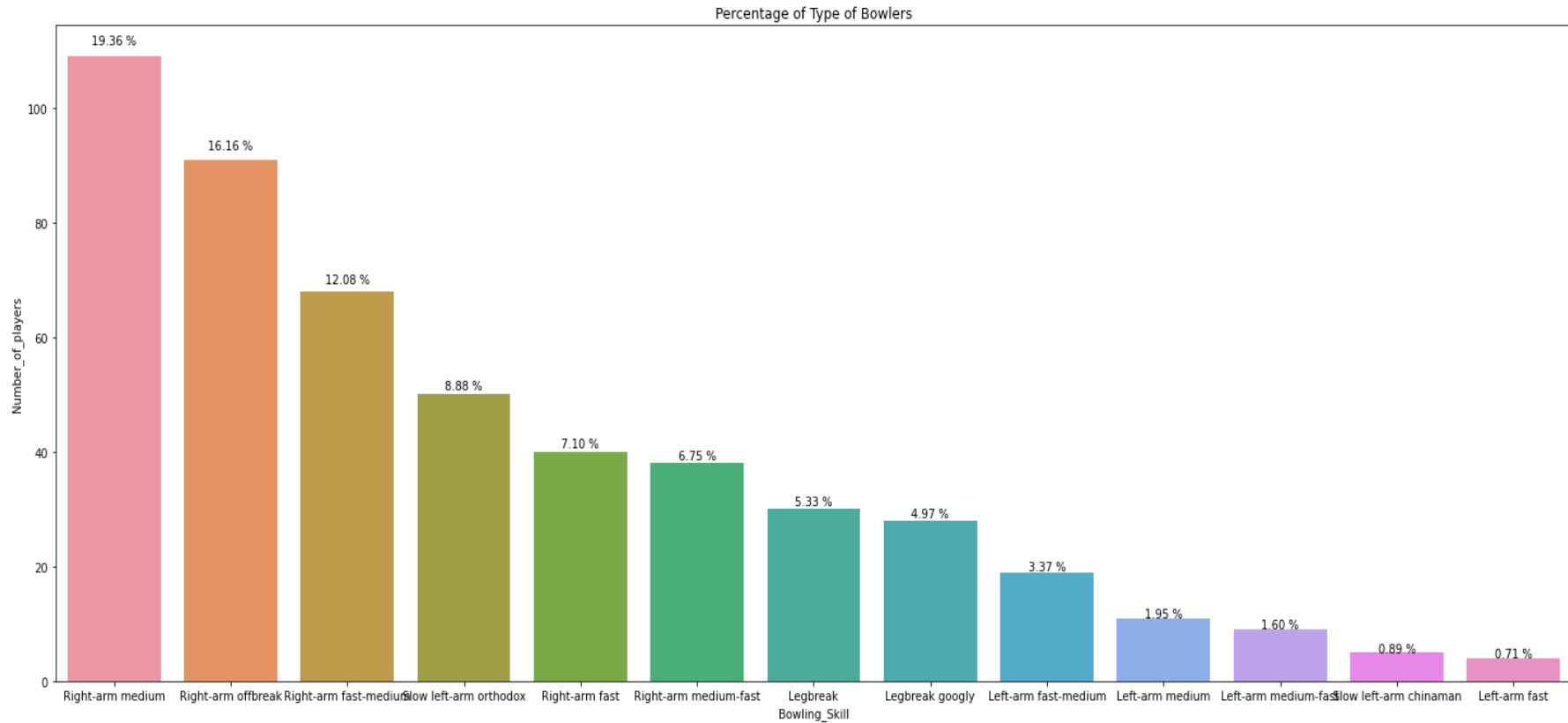
Players with best strikerate



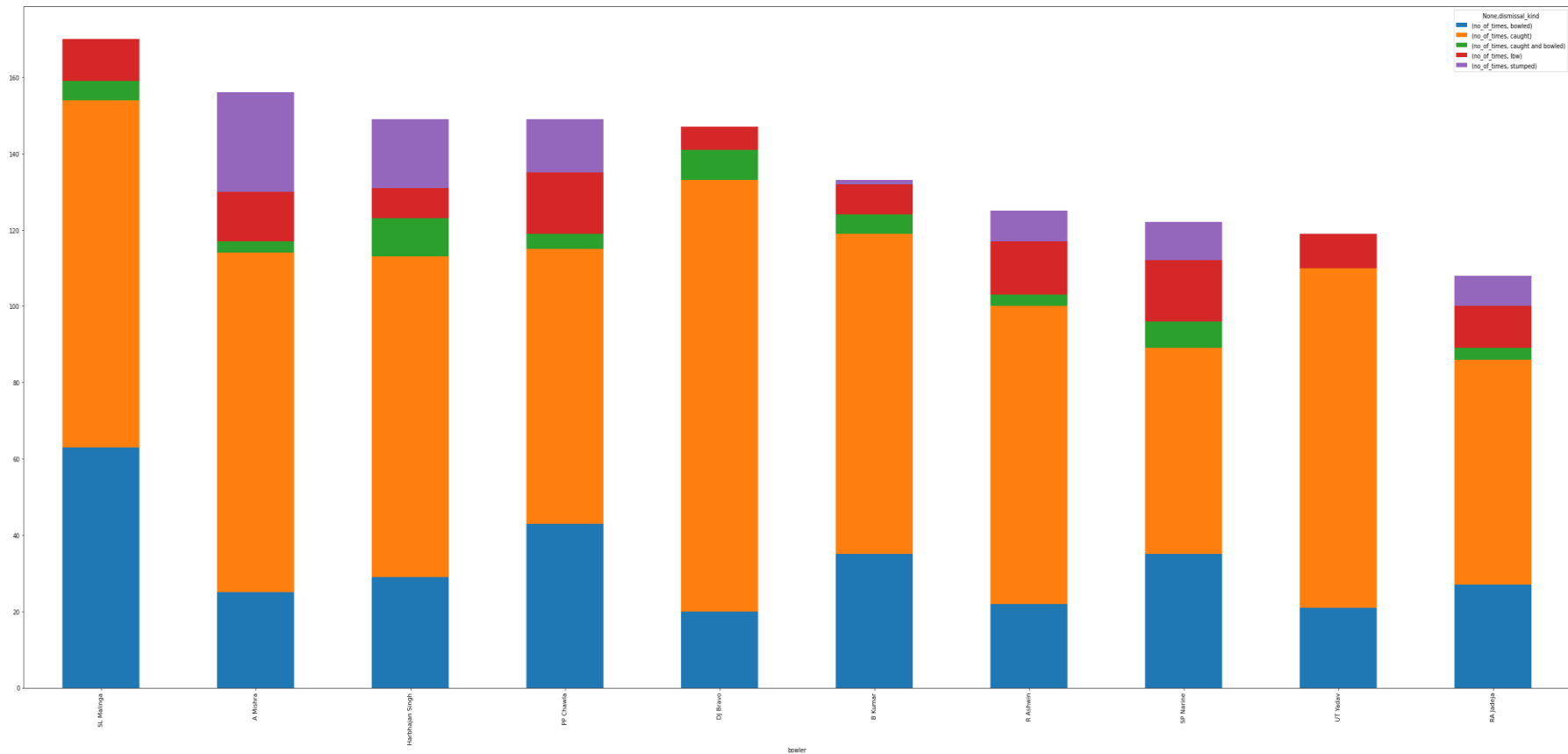
Players with good average



Types of ballers



Ballers with most wickets throughout the seasons



Types of wickets

| | type | no_of_times |
|---|-------------------|-------------|
| 0 | caught | 5348 |
| 1 | bowled | 1581 |
| 2 | lbw | 540 |
| 3 | stumped | 278 |
| 4 | caught and bowled | 211 |

Player who got man of the match most of the time throughout the seasons

| | Player | no_of_times |
|---|----------------|-------------|
| 0 | CH Gayle | 21 |
| 1 | AB de Villiers | 20 |
| 2 | MS Dhoni | 17 |
| 3 | DA Warner | 17 |
| 4 | RG Sharma | 17 |

Challenges

- ~ Difficulty to select the exact dataset.
- ~ Extracting meaningful columns.
- ~ Plotting proper graph.
- ~ Loading all dataset which were given.
- ~ Confusion in selecting graph type.
- ~ Loading time.

Conclusion

- 1] WE CAME TO KNOW THAT TOTAL 756 MATCHES WERE PLAYED IN 12 SEASONS.
- 2] MUMBAI INDIANS WON THE MOST NO. OF MATCHES THROUGH OUT THE SEASONS.
- 3] MUMBAI INDIANS WON THE MOST NUMBER OF TOSSES.
- 4] WE CAME TO KNOW THAT CSK IS THE TEAM WHICH HAS WON THE TOSS AND WON THE MATCH MOST OF THE TIME.
- 5] MUMBAI INDIANS HAS WON BY MOST NUMBER OF RUNS i.e BY 146.
- 6] KKR HAS WON 56 TIMES WITH MINIMUM NO. OF RUNS.
- 7] MOST OF THE MATCHES WERE PLAYED IN EDEN GARDENS, KOLKATA
- 8] MUMBAI INDIANS HAS MOST NUMBER OF HOME WINNING RATE THAN OTHER TEAMS.
- 9] RCB HAS WON 3 TIMES BY 10 WICKETS, WHICH IS HIGHEST TILL DATE.
- 10] MUMBAI INDIANS HAS WON 59 TIMES BY KEEPING LAST WICKET IN HAND.
- 11] KOHLI IS AT FIRST PLACE TO MAKE MOST RUNS THROUGH OUT THE SEASONS.
- 12] MOST OF THE BATSMAN ARE RIGHT-HANDED.
- 13] MOST PLAYERS ARE FROM INDIA,
AUSTRALIA AND SOUTH AFRICA IS AT 2ND AND 3RD PLACE.
- 14] GAYLE HAS HIT MOST NUMBER OF SIXES THROUGH OUT THE SEASONS
- 15] MOST OF THE BALLERS ARE RIGHT HANDE MEDIUM FASTER.
- 16] MOST OF THE WICKETS FELL DUE TO CATCH OUT.
- 17] MALINGA TOOK MOST NUMBER OF WICKETS THROUGH OUT THE SEASONS.
- 18] GAYLE HAS BECAME MAN OF THE MATCH MOST OF THE TIME.
- 19] MUMBAI HAS WON MOST NO. OF MATCHES BY LOOSING MOST WICKETS !
- 20] WE CANNOT SAY ABOUT THE PLAYER WHO HAS MOST AVERAGE OR STRIKE RATE BECAUSE IF THE PLAYER HITS SIX ON LAST BALL OF THE MATCH HIS STRIKE RATE WILL BECOME 600 AND THE PLAYER WHO SCORED 100 RUNS IN 50 BALLS HIS STRIKE RATE WILL BECOME 200 WHICH IS NOT FAIR ENOUGH FOR THE PLAYER WHO HAS SCORE 100 IN JUST 50 BALLS.

Q&A

THANK YOU !