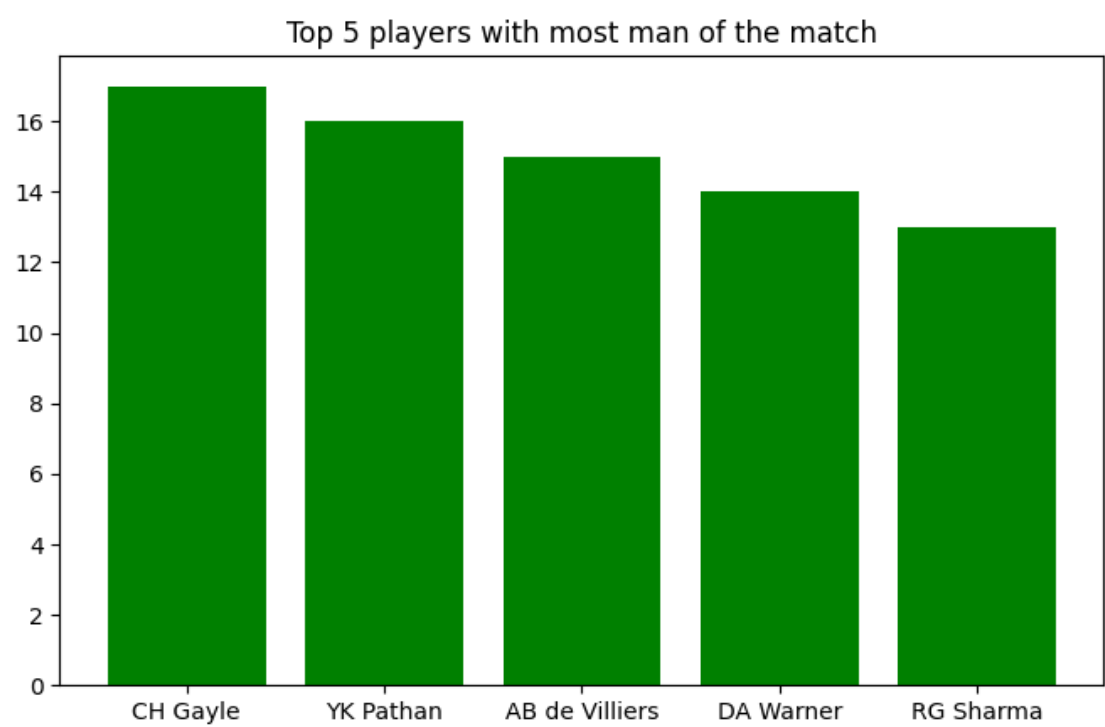# IPL Data Analysis

The matches.csv dataset contains the in details records of all times IPL has been played from 2008 to 2016. Which includes, match number, season, city, date, team name, toss winner etc.

Research Question

1) Getting the frequency of top 5 player of the match.

2) Getting the frequency of result column.

3) Finding out the number of toss win each team.

4) Finding out the number of wins each team after batting first.

5) Finding out the number of wins each team after batting second.

6) Looking at the number of matches played each season.

7) Looking at the number of matches played in each city.

8) Does winning or losing the toss have any effect on winning or losing the match?

Analysis and Findings

Top 5 players with most man of the match

In Top 5 Player of the Match, Chris Gayle is the most player of the match and RG Sharma is the least player of the match.

Getting the frequency of result column

```
normal        568
tie             6
no result       3
```
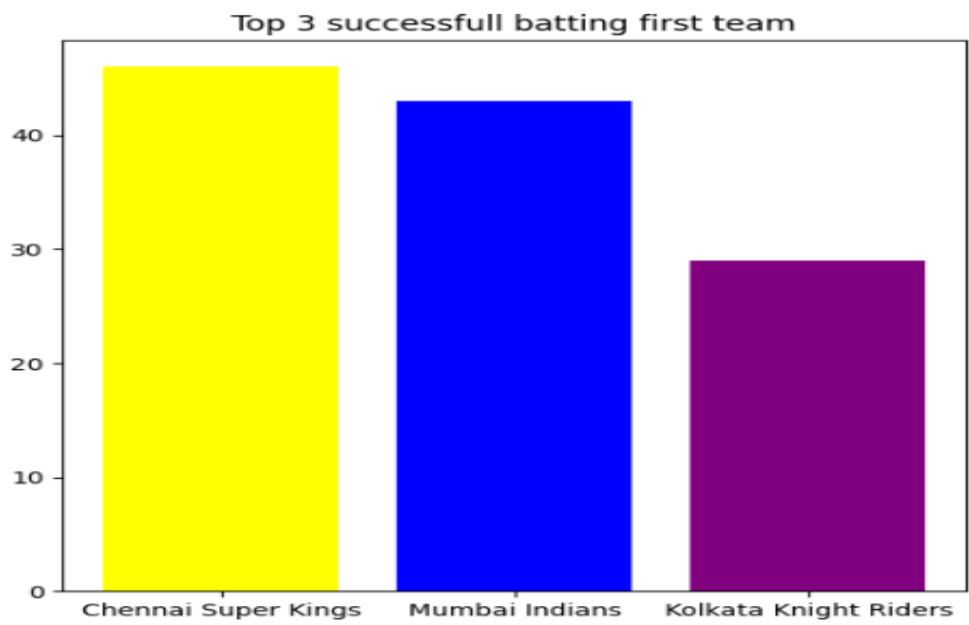
There have been 568 normal matches which means that one of the two teams has won that match. Tie 6 means 6 matches have been drawn. No Result 3 means the match was canceled for some reason and no result was obtained.
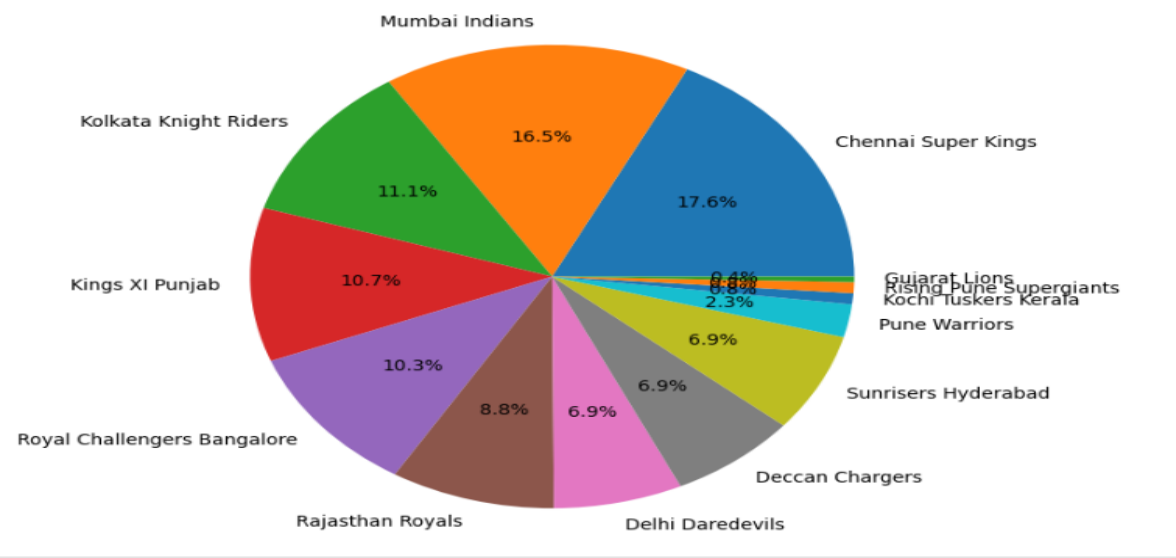
Finding out the number of toss win each team

Mumbai Indians	74
Kolkata Knight Riders	69
Chennai Super Kings	66
Kings XI Punjab	64
Delhi Daredevils	64
Rajasthan Royals	63
Royal Challengers Bangalore	61
Deccan Chargers	43
Sunrisers Hyderabad	30
Pune Warriors	20
Kochi Tuskers Kerala	8
Gujarat Lions	8
Rising Pune Supergiants	7

Mumbai Indians have the most number of matches won by the toss and Rising Pune Supergains have the least number of matches won by the toss.
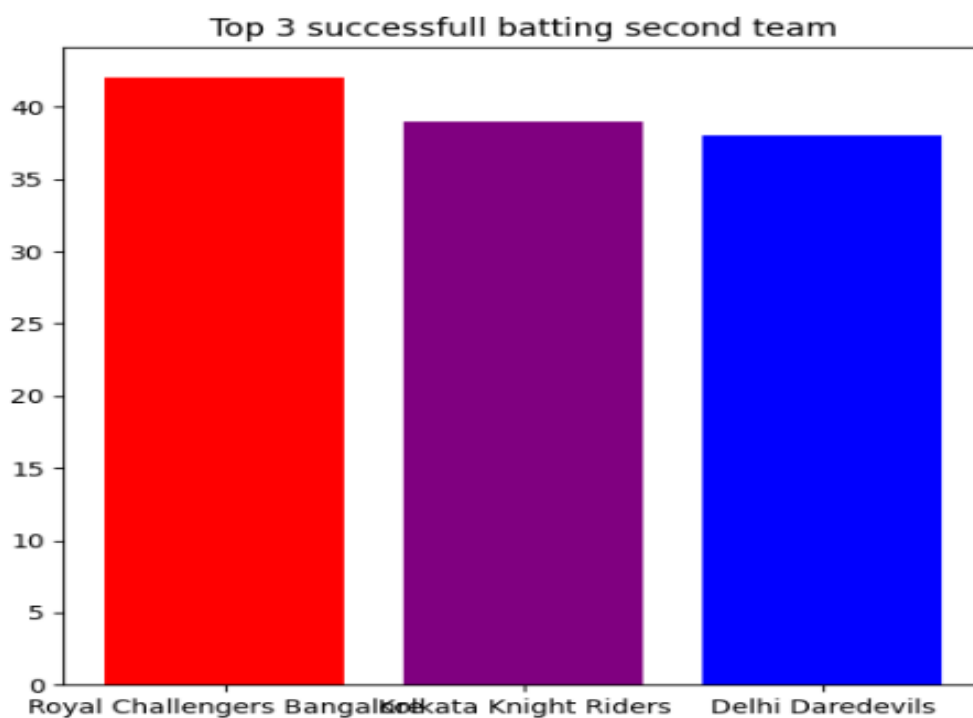
Finding out the number of wins each team after batting first

Top 3 successfull batting first team

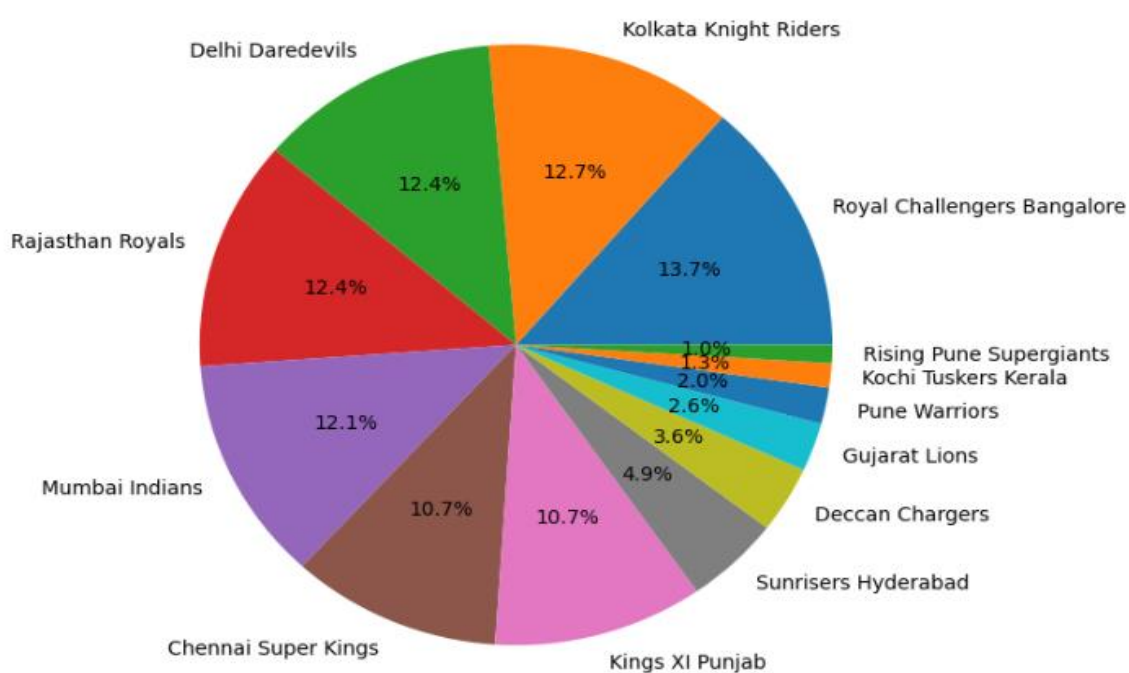Chennai Super Kings have won by batting first the most times.

Extracting those records where a team has won after batting second

Top 3 successfull batting second team

Royal Challengers Bangalore have won by batting second the most times.

Looking at the number of matches played each season

2013	76
2012	74
2011	73
2010	60
2014	60
2016	60
2015	59
2008	58
2009	57

Most matches played in 2013

Looking at the number of matches played in each city

```
Mumbai              77
Bangalore           58
Kolkata             54
Delhi               53
Chennai             48
Chandigarh          42
Hyderabad           41
Jaipur              33
Pune                25
Durban              15
Centurion           12
Ahmedabad           12
Visakhapatnam       11
Dharamsala           9
Johannesburg         8
Cuttack              7
Port Elizabeth       7
Cape Town            7
Ranchi               7
Abu Dhabi            7
Sharjah              6
Raipur               6
Kochi                5
Rajkot               5
Kimberley            3
Nagpur               3
East London          3
Bloemfontein         2
Indore               2
Kanpur               2
```

Most matches have been played at the Mumbai venue.

Now let's see whether winning the toss has any effect on winning the match or not

```
# Toss winner / Total number of matches
291/636
```

0.45754716981132076

Winning the toss has 45% impact on winning the match.

Interpretation

Winning the toss has 45% impact on winning the match which is closer to 50%. This shows that winning the toss has no significant effect on winning the match.