**REPORT**

**PROJECT 1 – IPL matches summary from the year 2008-2020.**

**ABOUT THE DATA-** Here the data contains the cities, venues, teams, toss winners, umpire data, runs per team per match per person per ball, player of the match, and various other data covering all of these in more brief.

This data is of a total of 816 matches played in the years 2008-2020.

**EXPLORATION-** Here the exploration revolves around the which team won the most matches, which was the venue most played in, which year most matches were played and won, most tosses won, most runs scored, etc. A brief analysis of Mumbai Indians as an example.

**TYPE OF DATA-**Normal distribution

**SAMPLE SIZE-** 816 matches.

**ANALYSIS TECHNIQUES-** For analysing the available data I prepared a dynamic dashboard which can answer various question like:

* Which team won the maximum no. of matches over the years or in a particular year?
* Which team won the maximum tosses?
* In which venue were the most matches played?
* Who umpired as a 1st umpire the most over the years?
* What was the result margin per team per year (for wickets and runs separately)?
* Which team won the most in eliminator rounds?
* Does toss decision affects the winning status of a team?
* Which team scored the most runs?
* Which player scored the most runs in which team?
* Which team took the most wickets?
* Which player took the most wickets and for which team.
* Does winning the toss maximum times implies winning the maximum matches over various
* An analysis of MUMBAI INDIANS as an example for the entire project.
* **FINDINGS FROM ANALYSIS-**
* Mumbai Indian won the maximum no. of matches i.e. (120), They won their maximum matches i.e. 13 in 2013.
* Most tosses were won by Mumbai Indians i.e. 106.
* Most matches were played in Eden Gardens, where Mumbai Indians won most of its matches i.e. 10 thus making it a lucky venue for the team.
* HDPK Dharmasena umpired as a 1st umpire the most over the years wherein, they umpired in 18 of Mumbai Indians winning matches.
* Mumbai Indians result margin for the year 2013 in terms of runs is 9 and in terms of wickets is 4.
* Kings XI Punjab won the most in eliminator rounds i.e. 3 times, leaving Mumbai Indians, Delhi capitals, Rajasthan Royals and Royal Challengers Bangalore behind by 1.
* In case of MI, total tosses won were 106 which were the maximum and total matches won were 120 which were also the maximum, thus making this statement ' toss decision affects the winning status of a team' true however 2nd most tosses won were by Kolkata Knight Riders and 2nd most matches won were by Chennai Super Kings. Thus, making this statement false. Which confirms it was just in the case of MI.
* MI scored the most runs.
* RG Sharma from MI made the maximum runs i.e. 4174.
* MI took the most wickets i.e. 1237.
* SL Malinga took the most wickets and for MI i.e. 188.
* 'Does winning the toss maximum times implies winning the maximum matches over various seasons' this statement holds true in case of MI.

**CONCLUSION** -One common analysis that can be drawn from the entire data and various analysis points and figures is that the data shows that Mumbai Indians were at peak in these years in respect of all scenarios.