

Super Predictor of Indian Premier League (IPL)

INTRODUCTION

1.1 Overview

IPL is not just a game but a worship for fans in India. Whenever these games start, the hearts of the fans are full of enthusiasm. Though the Covid-19 affected this year's series, the enthusiasm and love among fans remained unaffected.

It is also popular as a professional T20 team. Different teams play in the cricket battle. Cricketers from different countries participate in the teams.

1.2 Purpose

This can be used by the cricket lovers to analyze and gauge the performance of their favorite players and teams across the complete IPL. This solution gives us the accurate data for each and every IPL fans.

With single dashboard we can easily look at the histories of the IPL.

It can help to save time more efficiently by using highlighted items in the dashboard.

The resources required are just the dataset of IPL histories.

They can focus on particular tasks of a department and how they perform, or provide a big picture of the current status of overall activities.

Working with modern business dashboards enhances collaboration and improves communication within your team and between business units.

LITERATURE SURVEY

2.1 Existing problem

In the past, dashboards were printed monthly or weekly and kept in a briefcase. With the pace of business today, you need a live and consistently updated dashboard. This strategic information should be constantly accessible from your tablet, phone, or laptop.

2.2 Proposed solution

In much the same way, the function of a dashboard is to provide real-time results by aggregating and extracting value from all the data you collect, otherwise known as your key performance indicators (KPIs). It simplifies your data into more manageable chunks of visual information that allows you to see what you are doing right and where you need to improve.

THEORITICAL ANALYSIS

3.1 Hardware / Software designing

Technologies used-

1. **IBM Cognos analytics**

IBM Cognos Business Intelligence is a web-based integrated business intelligence suite by IBM. It provides a tool set for reporting, analytics, score carding, and monitoring of events and metrics.

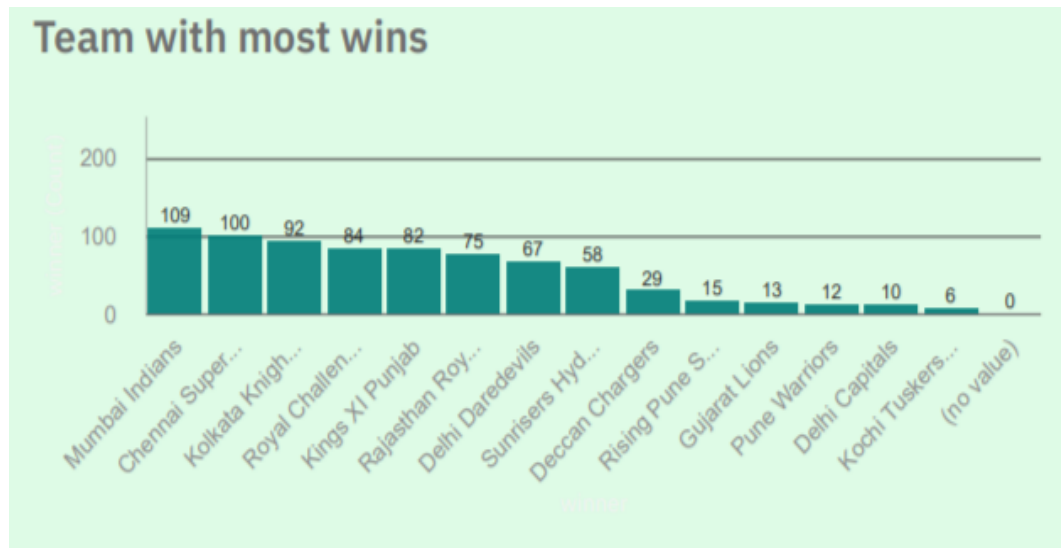
EXPERIMENTAL INVESTIGATION

The objective of this solution is to create dashboard that visualizes following capabilities and also forecast the future results

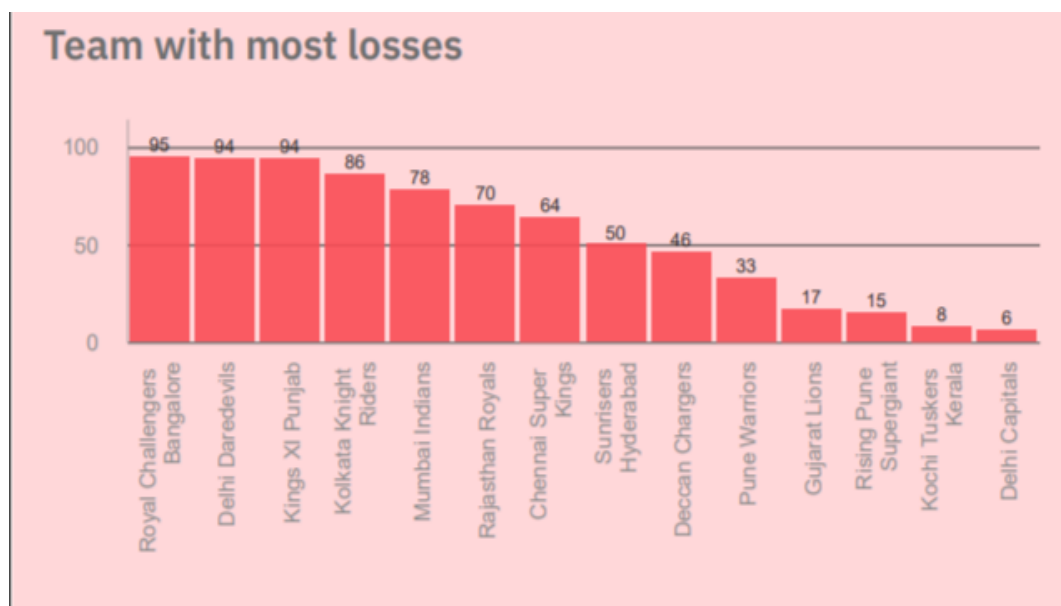
The objective of this solution is to create dashboard that visualizes following capabilities and also forecast the future results

1. To find the team that won the most number of matches in the entire IPL.
2. To find the team that lost the most number of matches in the entire IPL.
3. Does winning a toss increase the chances of victory.
4. To find the player with the most player of the match awards.
5. To find the city that hosted the maximum number of IPL matches.
6. To find the most winning team for each season.
7. To find the on-field umpire with the maximum number of IPL matches.
8. To find the biggest victories in IPL while defending a total and while chasing a total.
9. Which team won the most matches while batting first.
10. Which team won the most matches while batting second.
11. List of teams which have won matches by most runs cumulatively.

1. To find the team that won the most number of matches in the entire IPL.

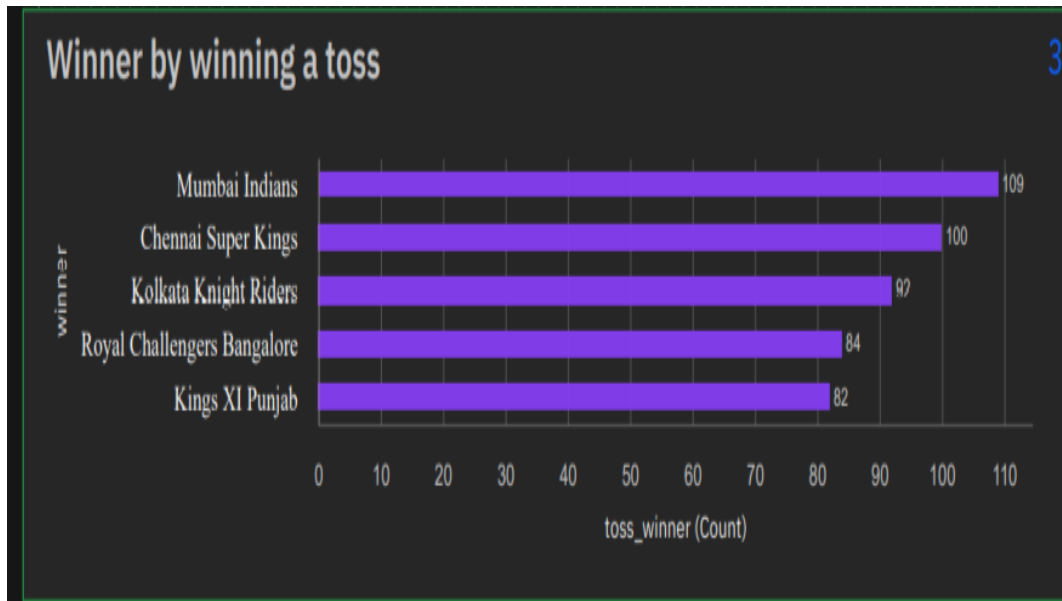


Observation-Mumbai Indians won the most number of matches in the entire IPL.2. To find the team that lost the most number of matches in the entire IPL.



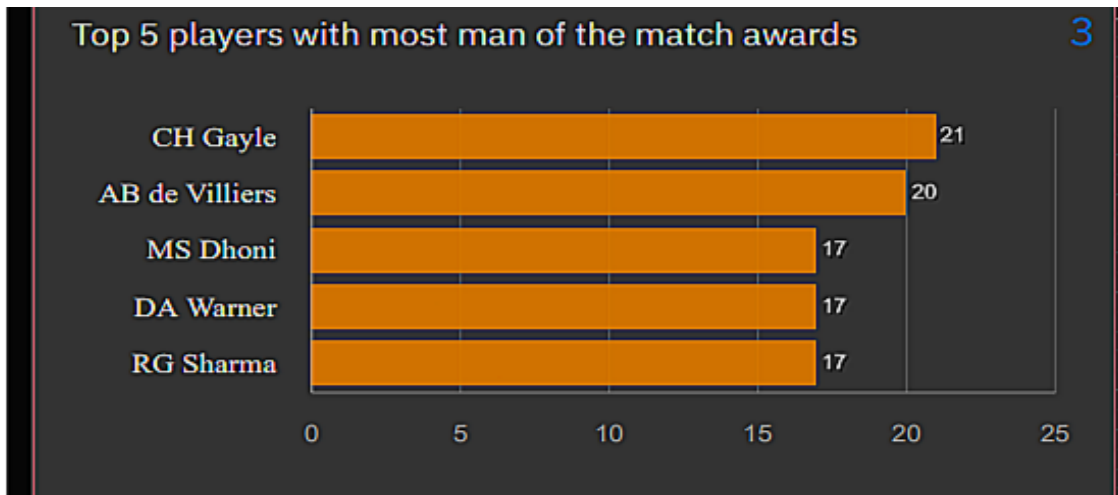
Royal challengers Bangalore lost the most number of matches in the entire IPL.

3. Does winning a toss increase the chances of victory



Winning toss gives a slight edge(52% probability of winning) against the opponents Because all the top winning teams won the most number of tosses.

4. To find the player with the most player of the match awards.



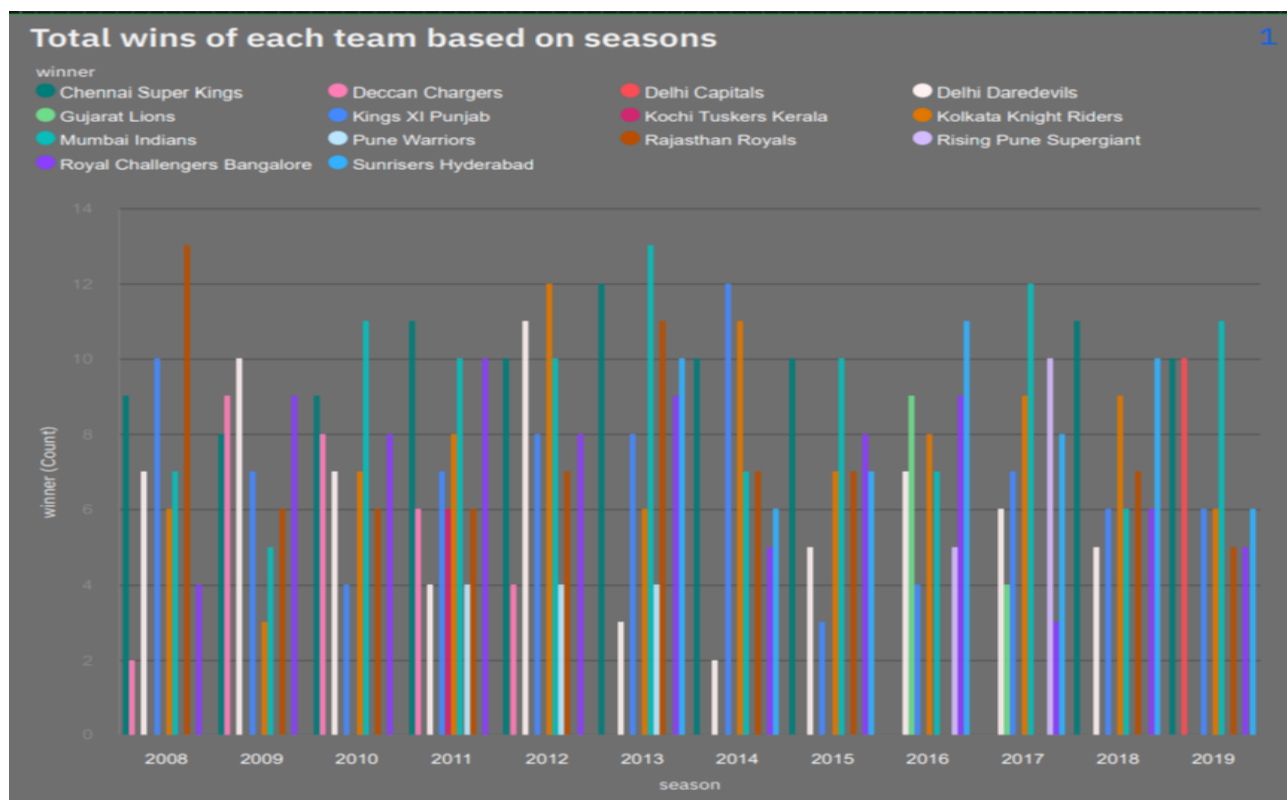
Chris Gayle won more number of man of the match awards.

5. To find the city that hosted the maximum number of IPL matches.



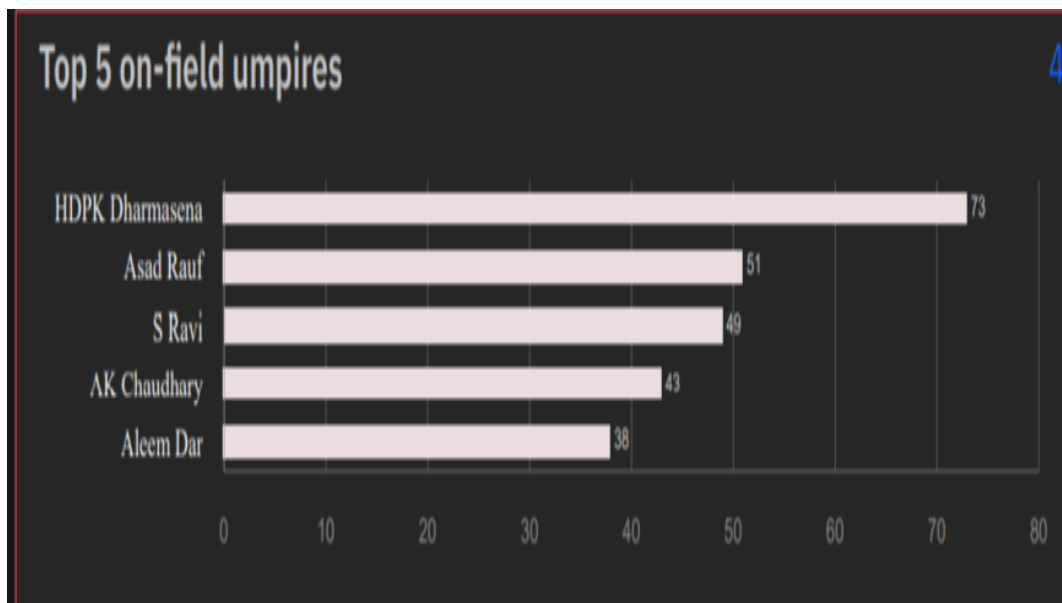
Mumbai hosted maximum number of matches

6. To find the most winning team for each season.



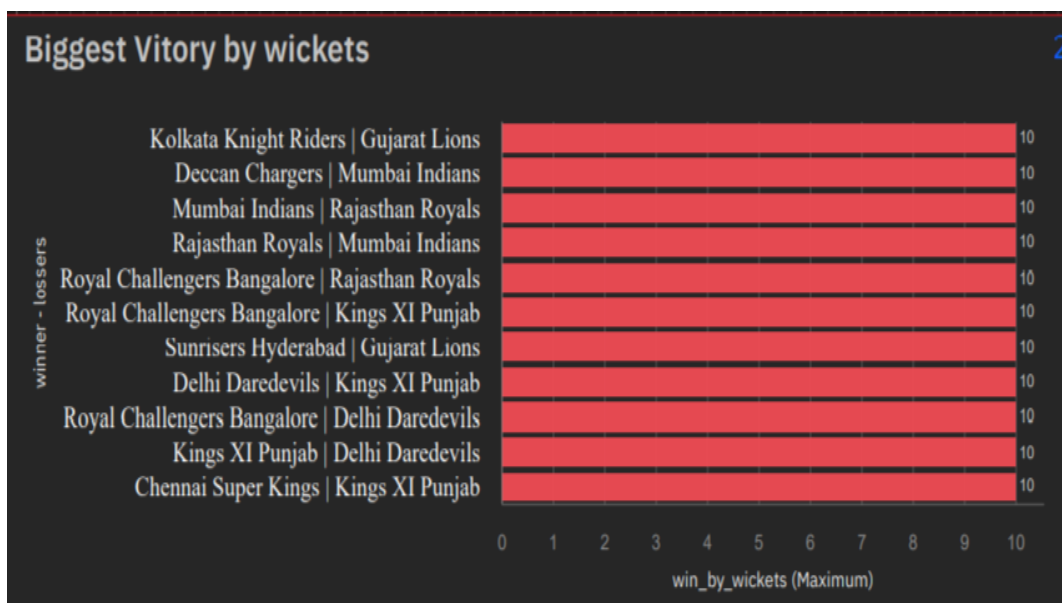
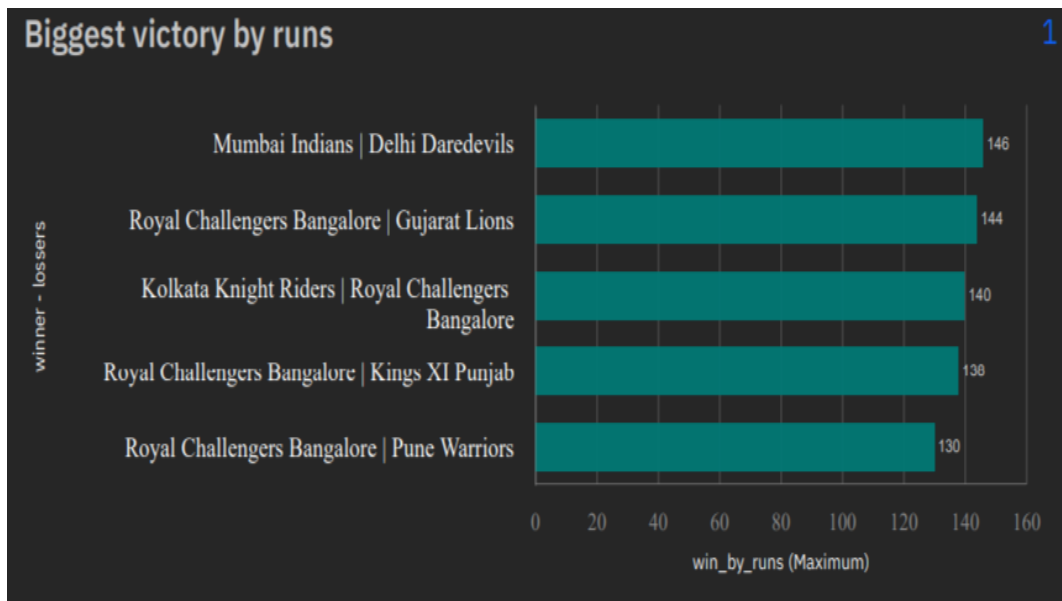
2008-Rajasthan Royals won 13 matches
2009-Delhi Daredevils won 10 matches
2010-Mumbai Indians won 11 matches
2011-Chennai Super Kings won 11 matches
2012-Kolkata Knight Riders won 12 matches
2013-Mumbai Indians won 13 matches
2014-Kings XI Punjab won 12 matches
2015-Chennai Super Kings won 10 matches
2016-Sunrisers Hyderabad won 11 matches
2017-Mumbai Indians won 12 matches
2018-'Chennai Super Kings won 11 matches
2019-Mumbai Indians won 11 matches

7. To find the on-field umpire with the maximum number of IPL matches.



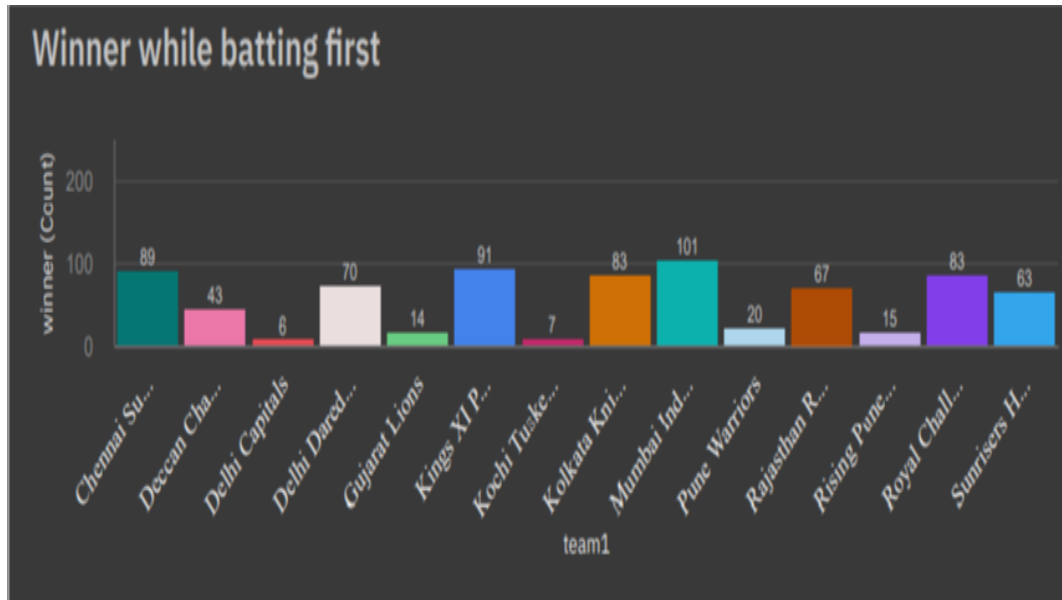
HDPK Dharmasena was the on-field umpire with the maximum number of IPL matches.

8. To find the biggest victories in IPL while defending a total and while chasing a total.



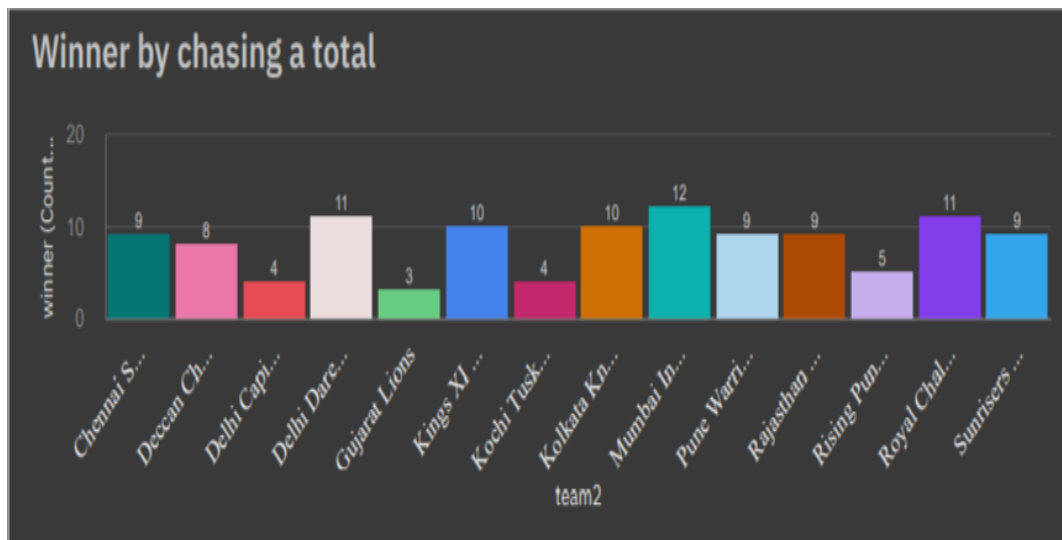
- When defending a total, the biggest victory was by 146 run(Mumbai indians vs Delhi daredevils)
- When chasing a target, the biggest victory was by 10 wickets(without losing any wickets) and there were 11 such instances.

9. Which team won the most matches while batting first.



Mumbai Indians won the most matches while batting first.

10. Which team won the most matches while batting second.



Mumbai Indians won the most matches while batting second.

11. List of teams which have won matches by most runs cumulatively.

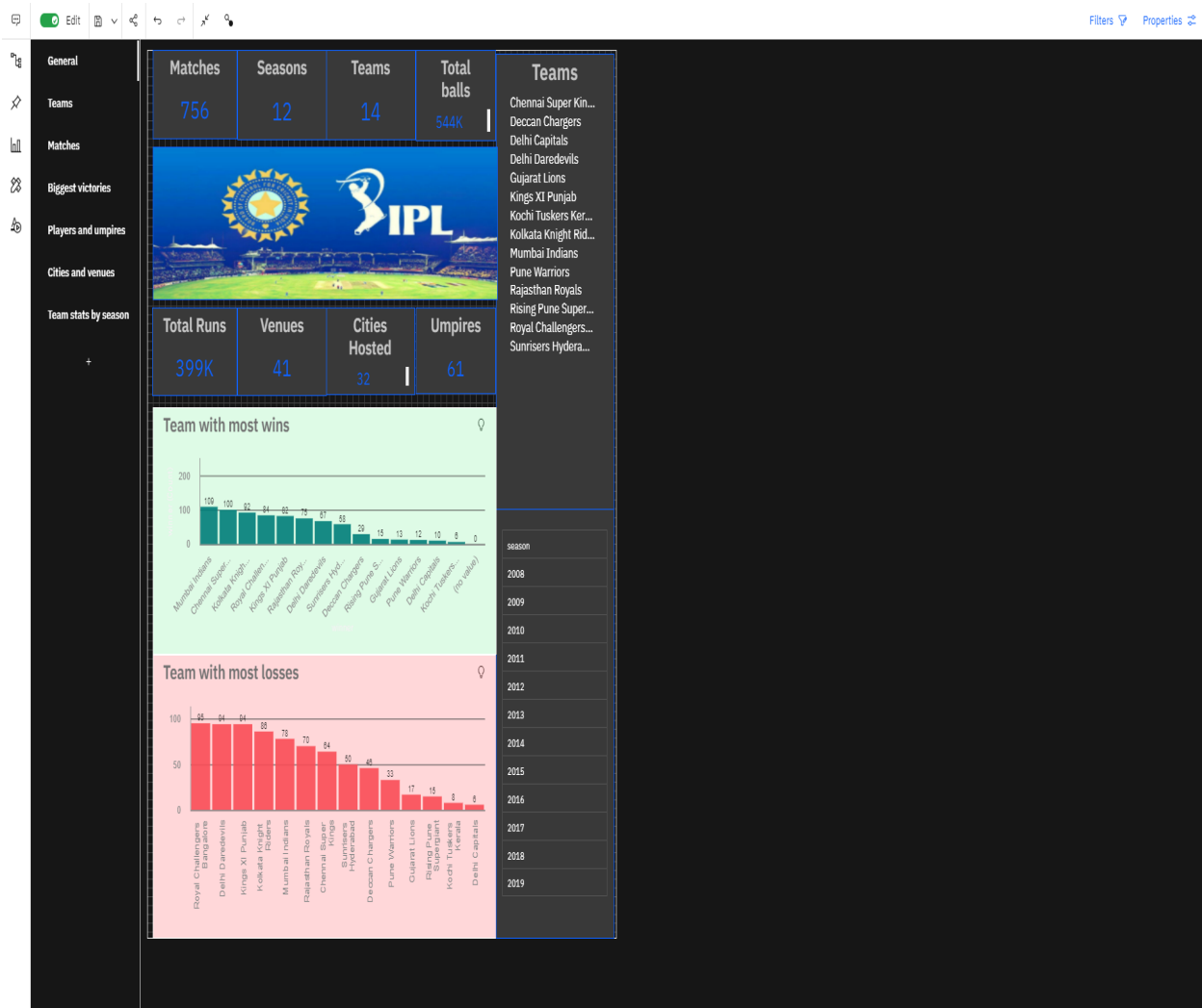
Teams which have won matches by most runs cumulatively			2
Rank (winner)	winner	win_by_runs ▼	
1	Mumbai Indians	1,866	
2	Chennai Super Kings	1,778	
3	Royal Challengers Bangalore	1,252	
4	Kolkata Knight Riders	1,086	
5	Kings XI Punjab	925	

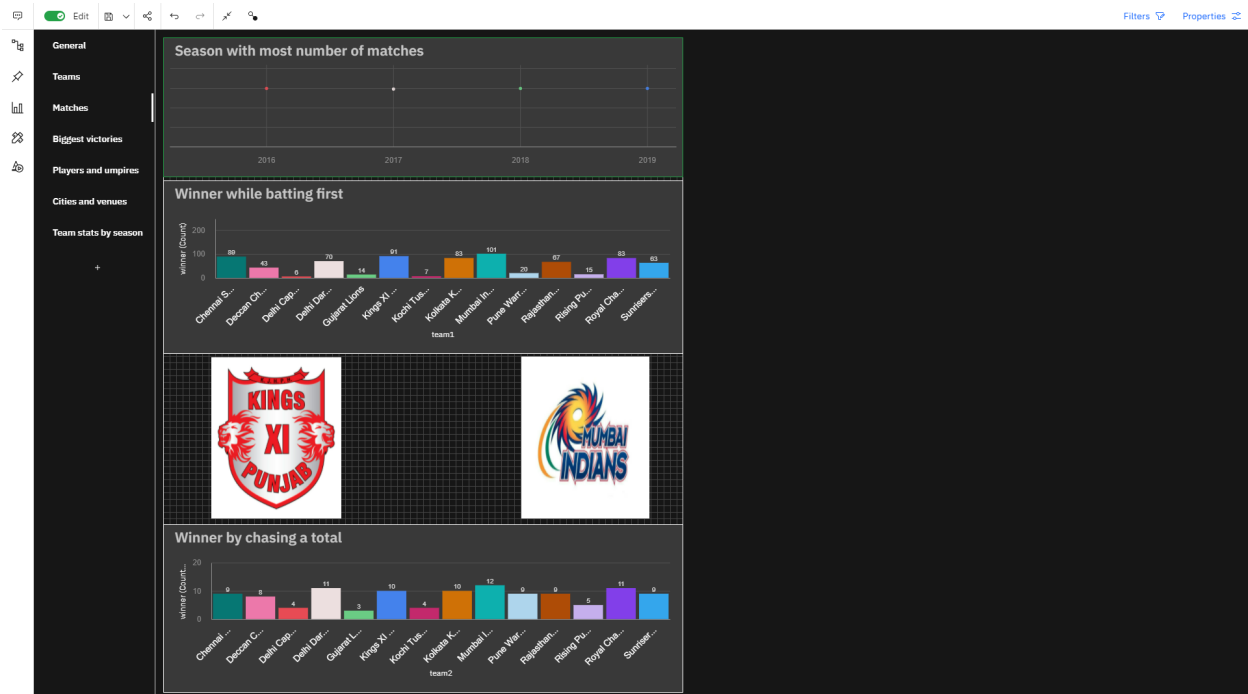
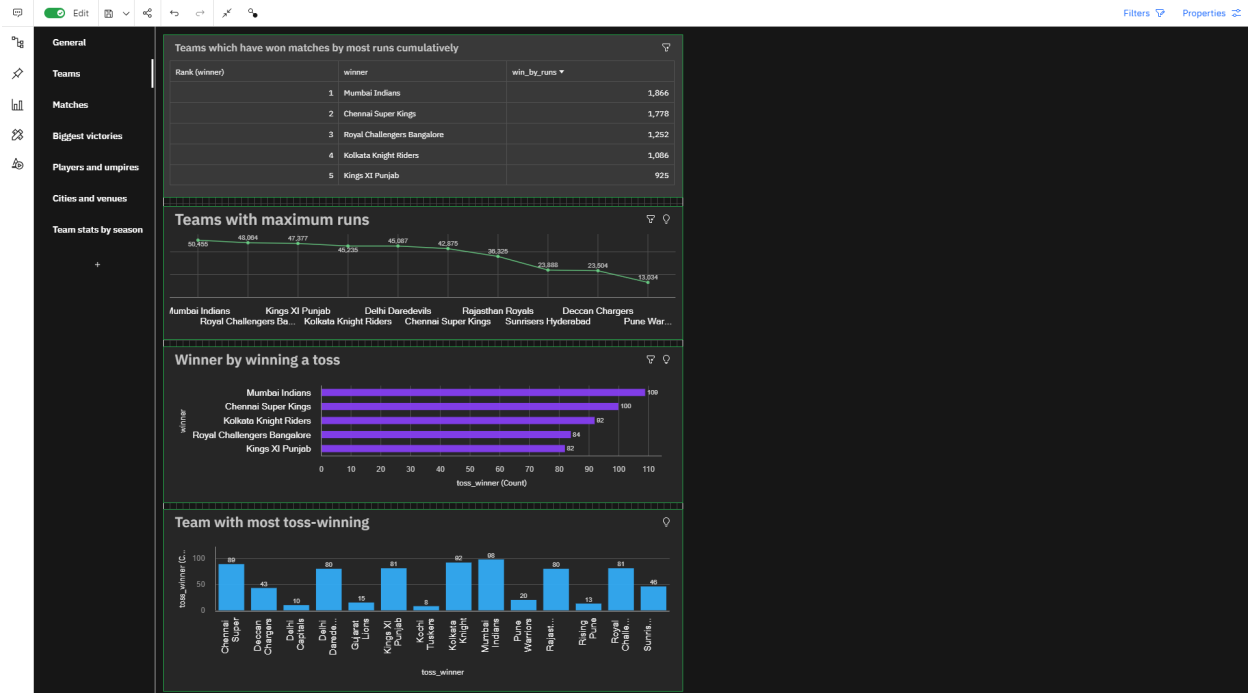
FLOWCHART

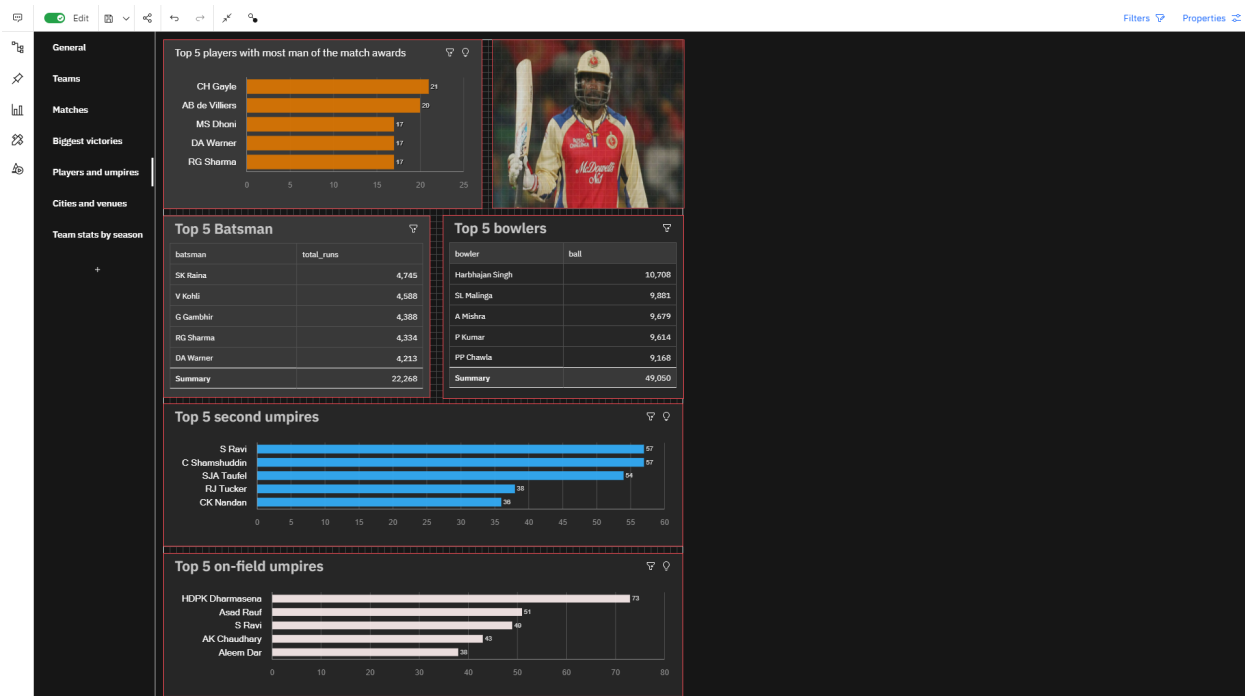
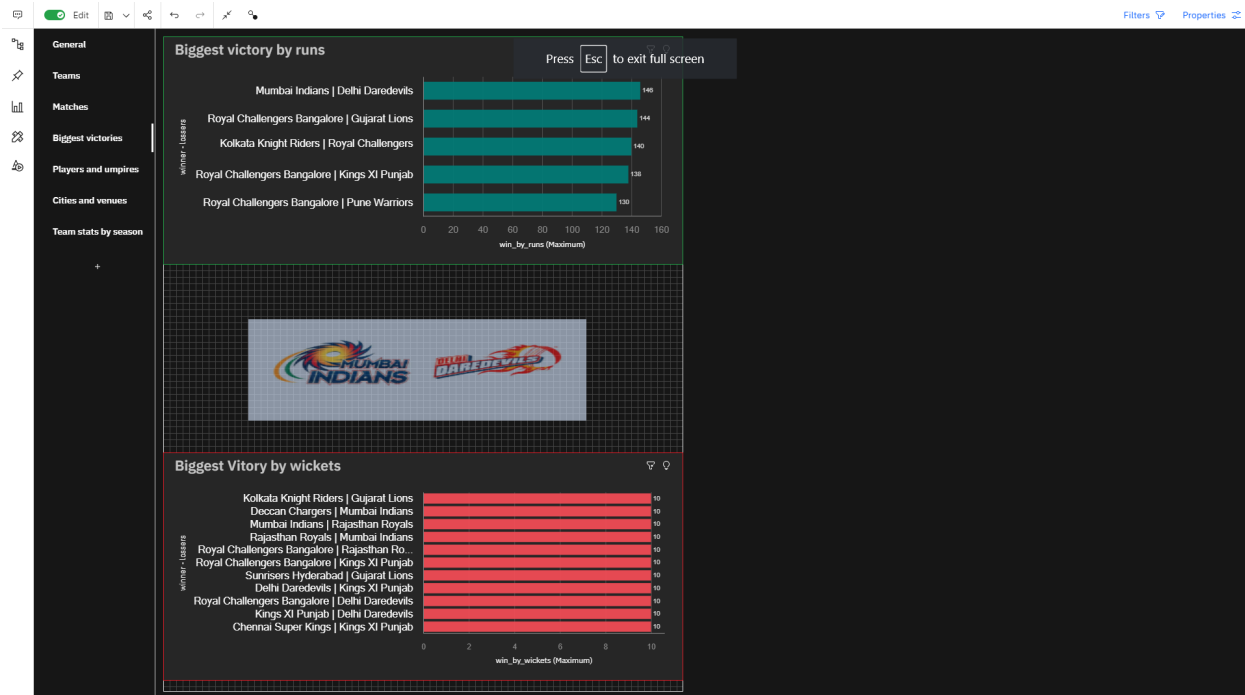


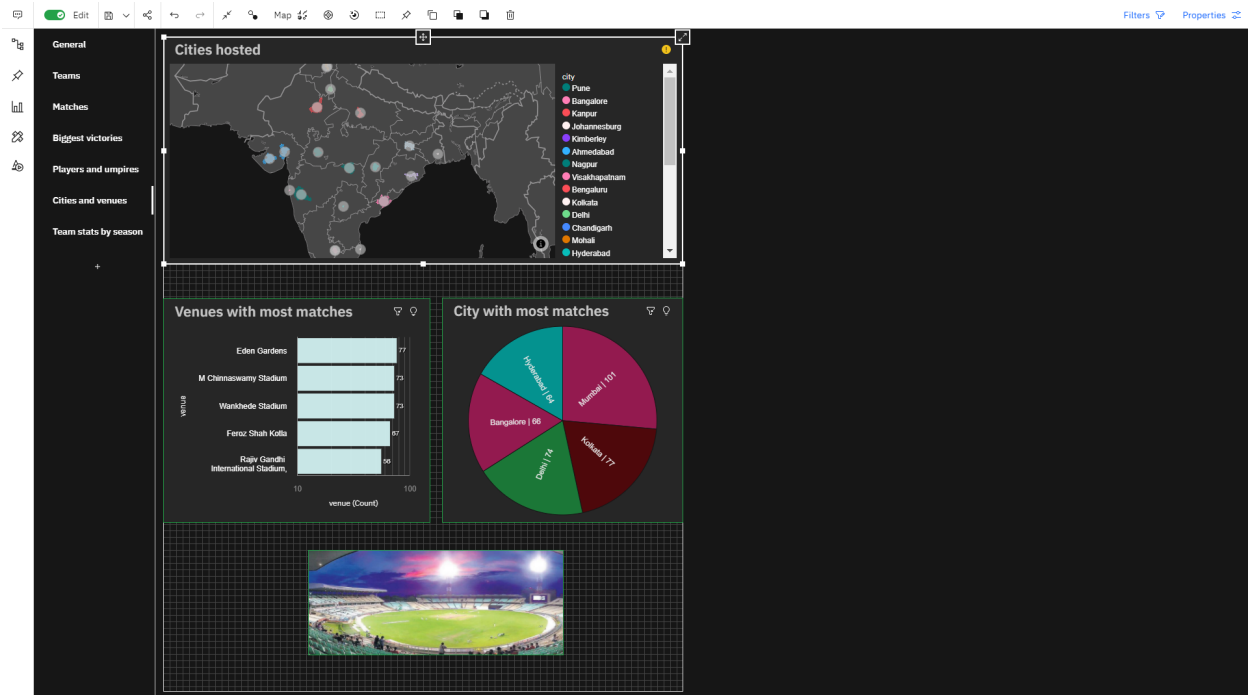
RESULT

screenshots of the dashboard









ADVANTAGES

This can be used by the cricket lovers to analyze and gauge the performance of their favorite players and teams across the complete IPL. This solution gives us the accurate data for each and every IPL fans.

With single dashboard we can easily look at the histories of the IPL.

It can help to save time more efficiently by using highlighted items in the dashboard.

The resources required are just the dataset of IPL histories.

APPLICATIONS

This IPL dashboard is used for more cricket fans to analyse and understand their favorite team stats with an easy go.

CONCLUSION

This dashboard is used to get many information just by seeing the chart for once. With this creation of dashboard we can easily interpret many information.

Findings

1. There are 756 matches from 2008-2019.
2. 14 Teams have participated in 12 seasons
3. 41 venues from 32 Cities hosted different matches of ipl.
4. Mumbai indians Won the most the number of matches.
5. Chennai super kings is the second most winning team.
6. Royal challenges Bangalore is most losing team.
7. Mumbai indians scored maximum runs in 12 seasons.
8. Mumbai indians won most of the toss.
9. When defending a total, the biggest victory was by 146 runs(Mumbai Indians defeated Delhi Daredevils by 146 runs).

10. When chasing a target, The biggest victory was by 10 wickets(without losing any wickets) and there were 11 such instances.
11. Chris Gayle has won the maximum number of player of the match title.
12. Winning toss gives a slight edge(52% probability of winning) against the opponents.
13. Eden Gardens has hosted the maximum number of IPL matches.
14. Mumbai Indians is the most successful team in IPL.
15. The Mumbai city has hosted the most number of IPL matches.

FUTURE SCOPE

We can enhance the project by many field and can update with many further seasons ahead.