

Business Intelligence and Data Visualization

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1. Project Description

Here is a project where IPL data from the year 2008-2020 has been analyzed with proper problem statement. The dataset is taken from Kaggle to perform the following visualization. The following dataset tells us in detail about the various aspect of cricket world.

2. Problem Statement

With this project we are trying to find the various events that occurred during the tournament. Aspects like winning count losing count, man of the match, venue etc

3. Software Requirements

Tableau desktop

4. Data Description

IPL MATCHES.csv

28 fields 816 rows

100 → rows

Name

IPL MATCHES.csv

Fields

Type	Field Name	Physical Table	Remote FL...
#	id	IPL MATCHES.csv	id
🌐	City	IPL MATCHES.csv	city
📅	Date	IPL MATCHES.csv	date
Abc	Player Of Match	IPL MATCHES.csv	player_of_m...
Abc	Venue	IPL MATCHES.csv	venue
#	Neutral Venue	IPL MATCHES.csv	neutral_venue
Abc	Team1	IPL MATCHES.csv	team1
Abc	Team2	IPL MATCHES.csv	team2
Abc	Toss Winner	IPL MATCHES.csv	toss_winner
Abc	Toss Decision	IPL MATCHES.csv	toss_decision
Abc	Winner	IPL MATCHES.csv	winner
Abc	Result	IPL MATCHES.csv	result
#	Result Margin	IPL MATCHES.csv	result_margin

#	IPL MATCHES.csv	🌐	IPL MATCHES.csv	📅	IPL MATCHES.csv	Abc	IPL MATCHES.csv	Abc	IPL MATCHES.csv	#	IPL MATCHES.csv
id	City	Date	Player Of Match	Venue	Neutral						
335982	Bangalore	18/04/2008	BB McCullum	M Chinnaswamy Stadium							
335983	Chandigarh	19/04/2008	MEK Hussey	Punjab Cricket Association St...							
335984	Delhi	19/04/2008	MF Maharoof	Feroz Shah Kotla							
335985	Mumbai	20/04/2008	MV Boucher	Wankhede Stadium							
335986	Kolkata	20/04/2008	DJ Hussey	Eden Gardens							
335987	Jaipur	21/04/2008	SR Watson	Sawai Mansingh Stadium							
335988	Hyderabad	22/04/2008	V Sehwag	Rajiv Gandhi International Sta...							
335989	Chennai	23/04/2008	ML Hayden	MA Chidambaram Stadium, C...							
335990	Hyderabad	24/04/2008	YK Pathan	Rajiv Gandhi International Sta...							
335991	Chandigarh	25/04/2008	KC Sangakkara	Punjab Cricket Association St...							
335992	Bangalore	25/04/2008	SR Watson	M Chinnaswamy Stadium							
335993	Chennai	26/04/2008	JDP Oram	MA Chidambaram Stadium, C...							
335994	Mumbai	27/04/2008	AC Gilchrist	Dr DY Patil Sports Academy							
335995	Chandigarh	27/04/2008	SM Katich	Punjab Cricket Association St...							
335996	Bangalore	28/04/2008	MS Dhoni	M Chinnaswamy Stadium							
335997	Kolkata	29/04/2008	ST Jayasuriya	Eden Gardens							

Sheet 3

SHEET 4

Sheet 5

Sheet 6

Sheet 7n

Sheet 8

Sheet 9

MATCH OVER VIEW

PLAYER PERFORMANCE

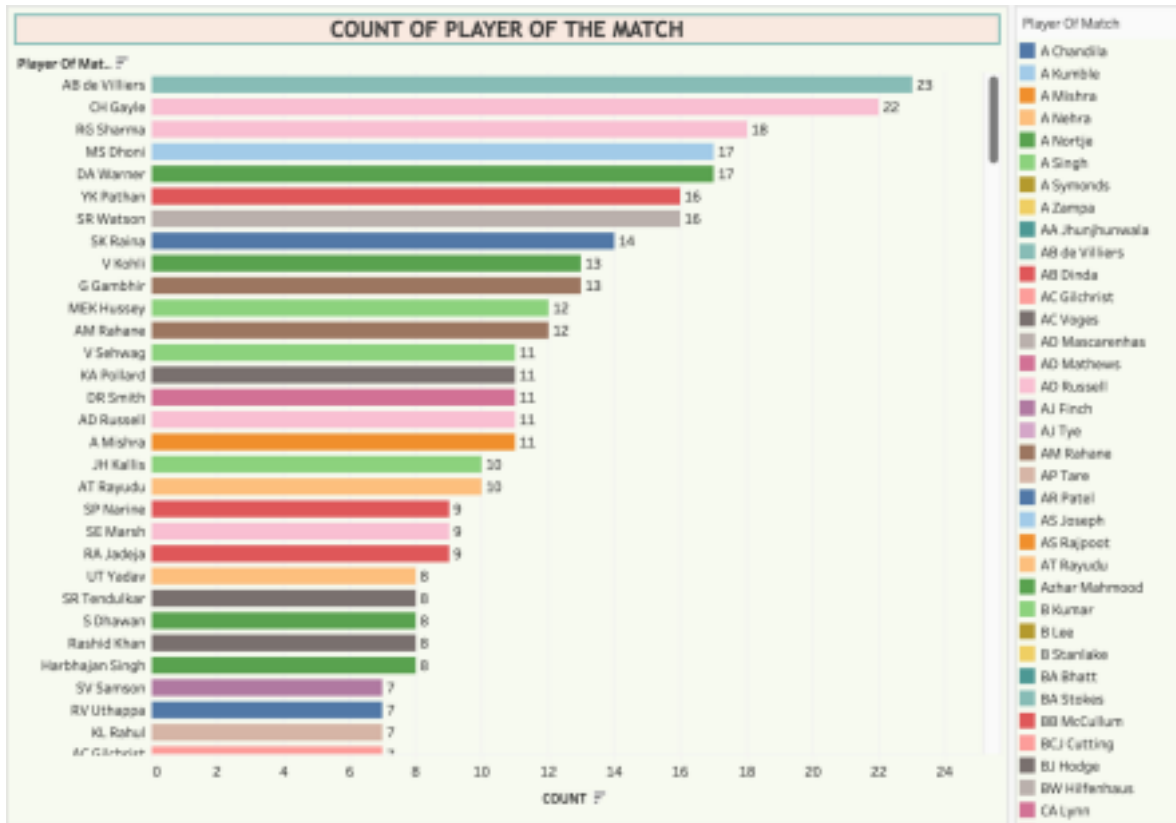
TOSS AND VENUE

Dashboard 4

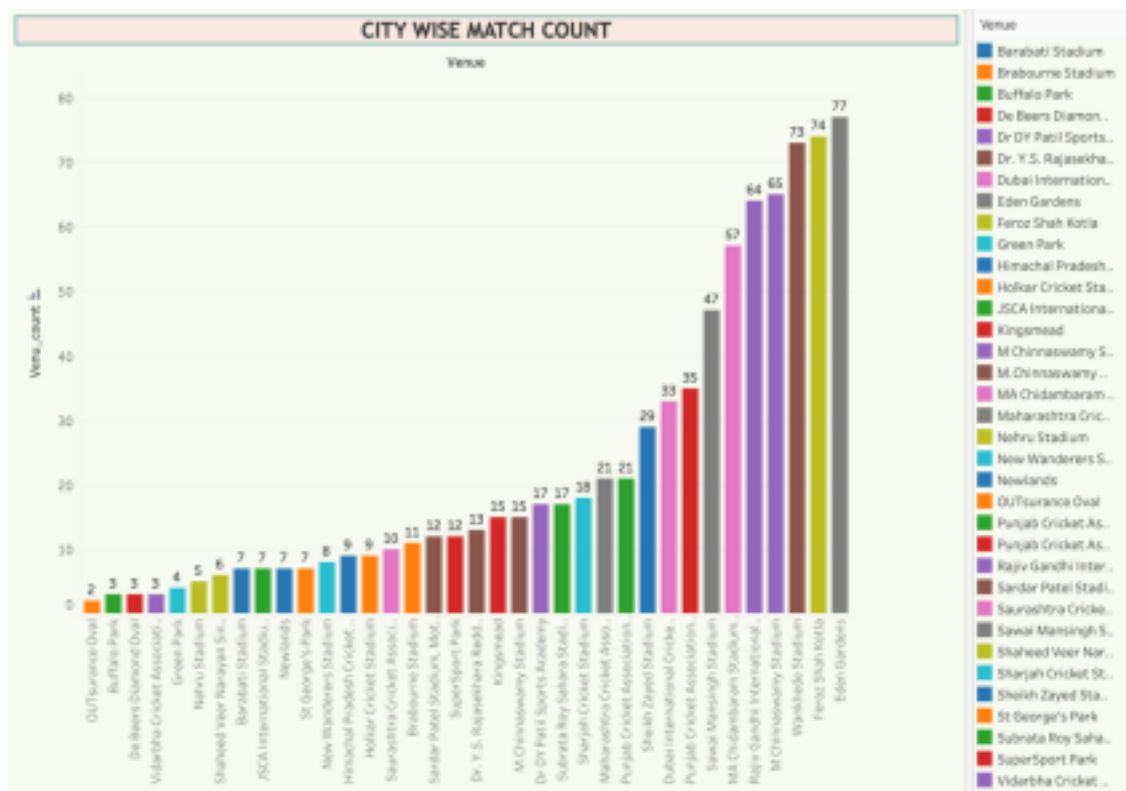
Dashboard 5

<

5. Implementation/Output



Conclusion: The sheet displays the number of times a player was awarded "Player of The Match ". AB de Villiers was awarded the maximum number of times whereas there are several players that have never been awarded .



Conclusion: The sheet displays the number of matches played in a city's stadium. Eden Garden was the stadium where the maximum number of matches were played. OUTsurance Oval stadium as the stadium where the minimum number of matches were played.

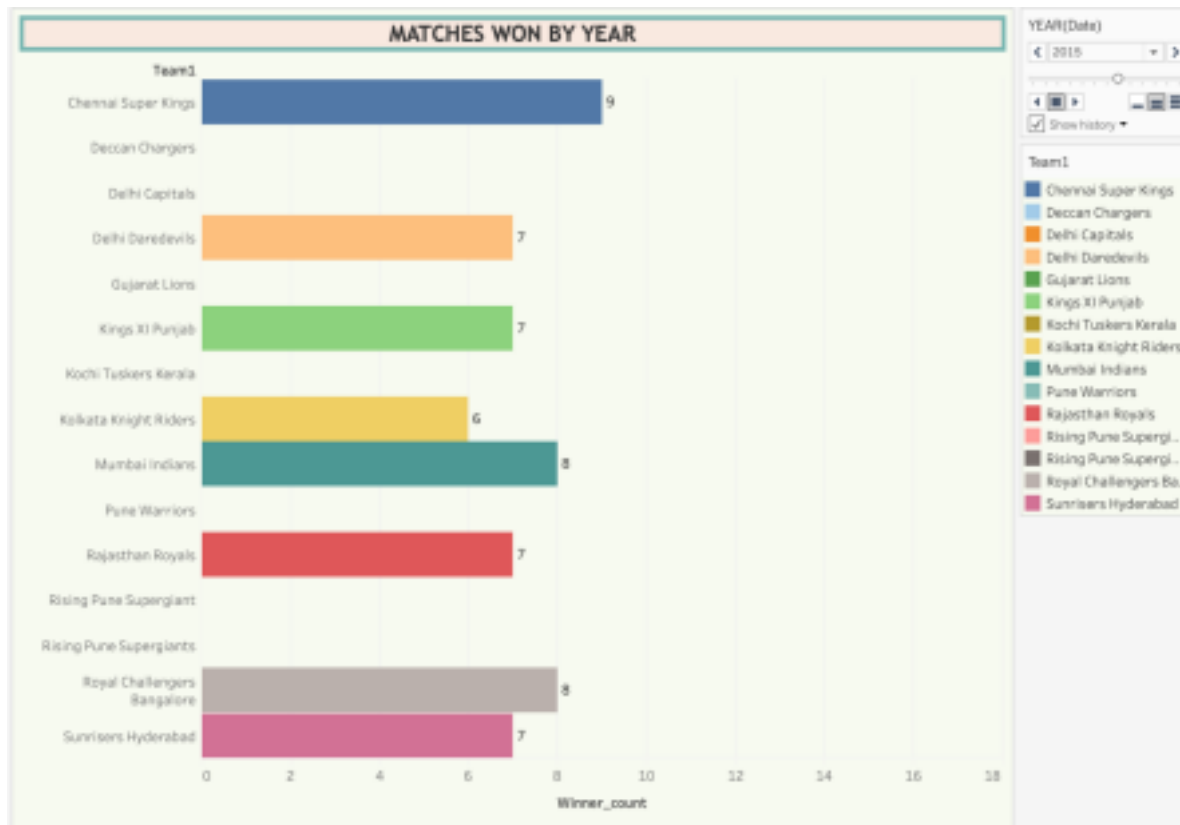


Conclusion: The sheet displays the number of matches played over the years .

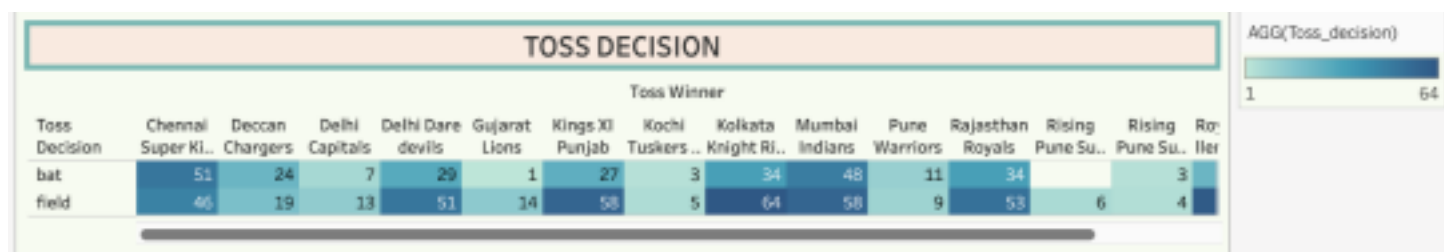
The minimum number of matches were played in the first season of the league.

The league was introduced, and the concept of teams based on Indian states , inspired by America's NBA was fairly new and hence the risk was high thereby leading towards 58 matches in that season . Contrastingly, the period of 2011- 2013 saw the peak of IPL's fandom in India thereby leading towards increased number of matches per season , 76 matches being the maximum.

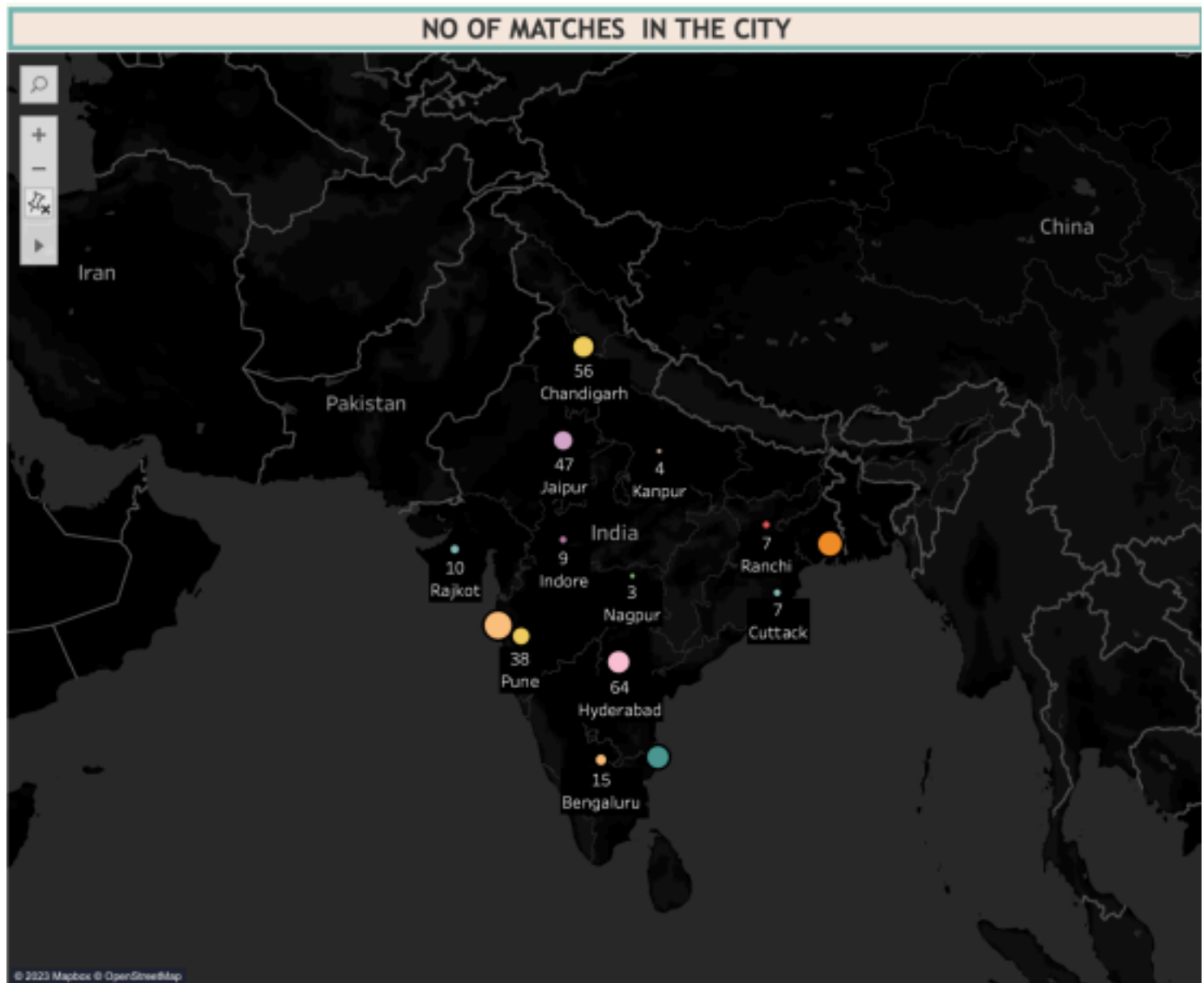
The Seasons after that again saw a little decrement as ICC made the cricket calendar more intensive for international matches.



Conclusion: The sheet displays the number of matches won by each team in different seasons of IPL

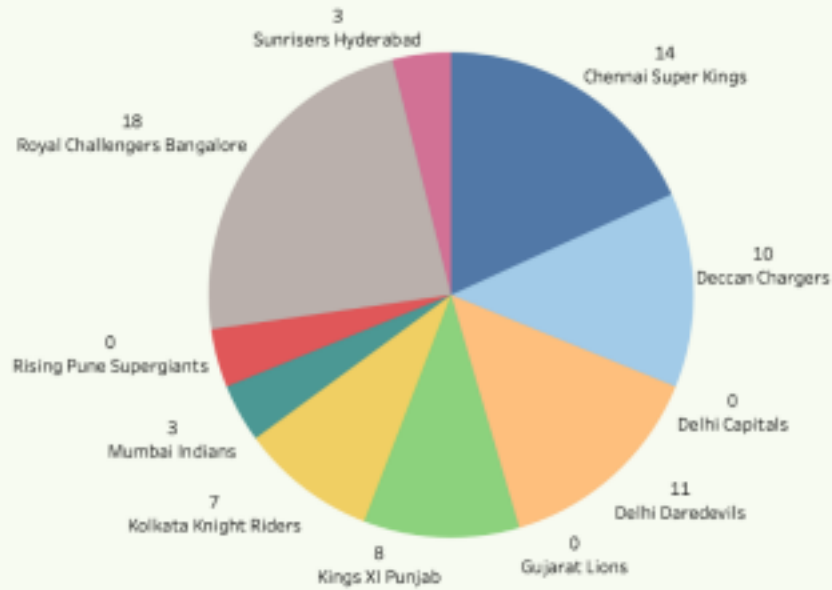


Conclusion: The sheet displays the toss decisions of each team . The number of times a team has decided to elect batting or fielding after winning a toss.

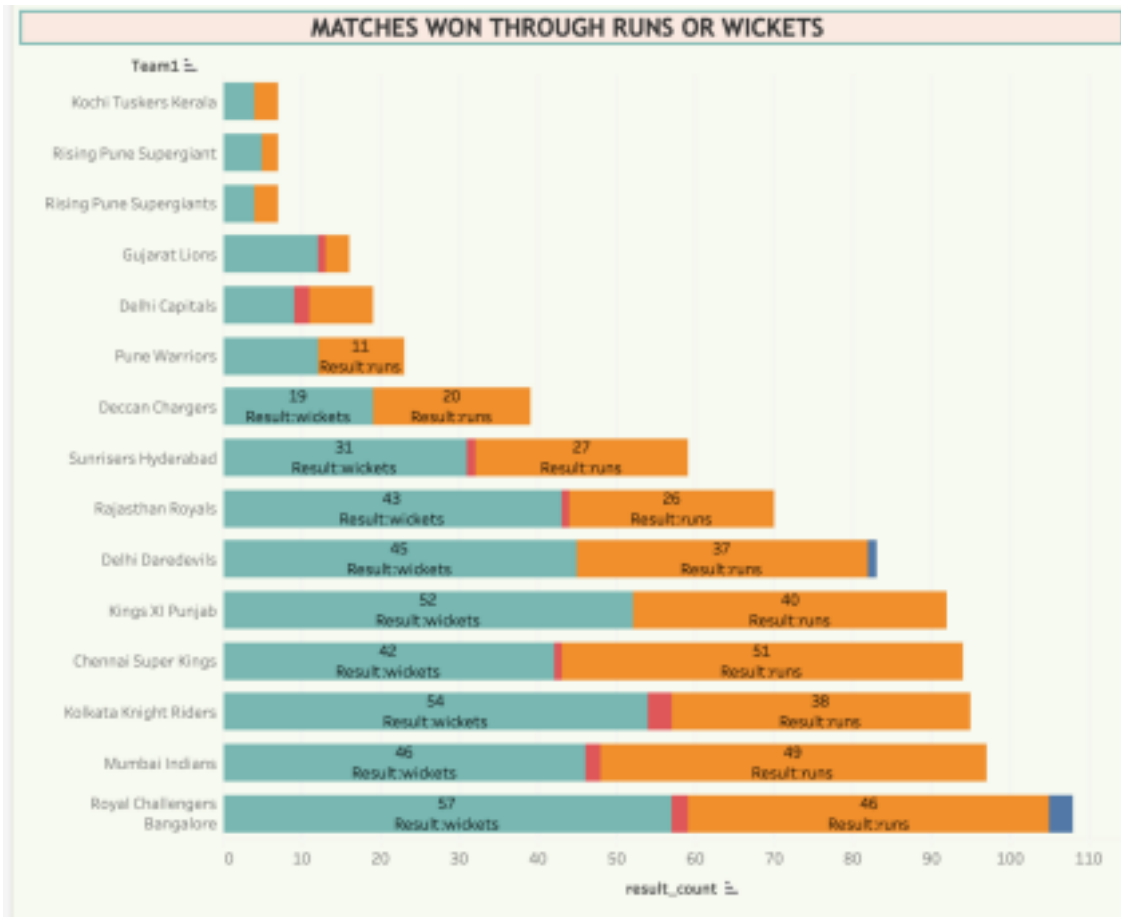


Conclusion: This sheet shows the geographical representation of the number of matches held in a city . Chandigarh was the city where maximum number of matches were played .

NEUTRAL VENUES

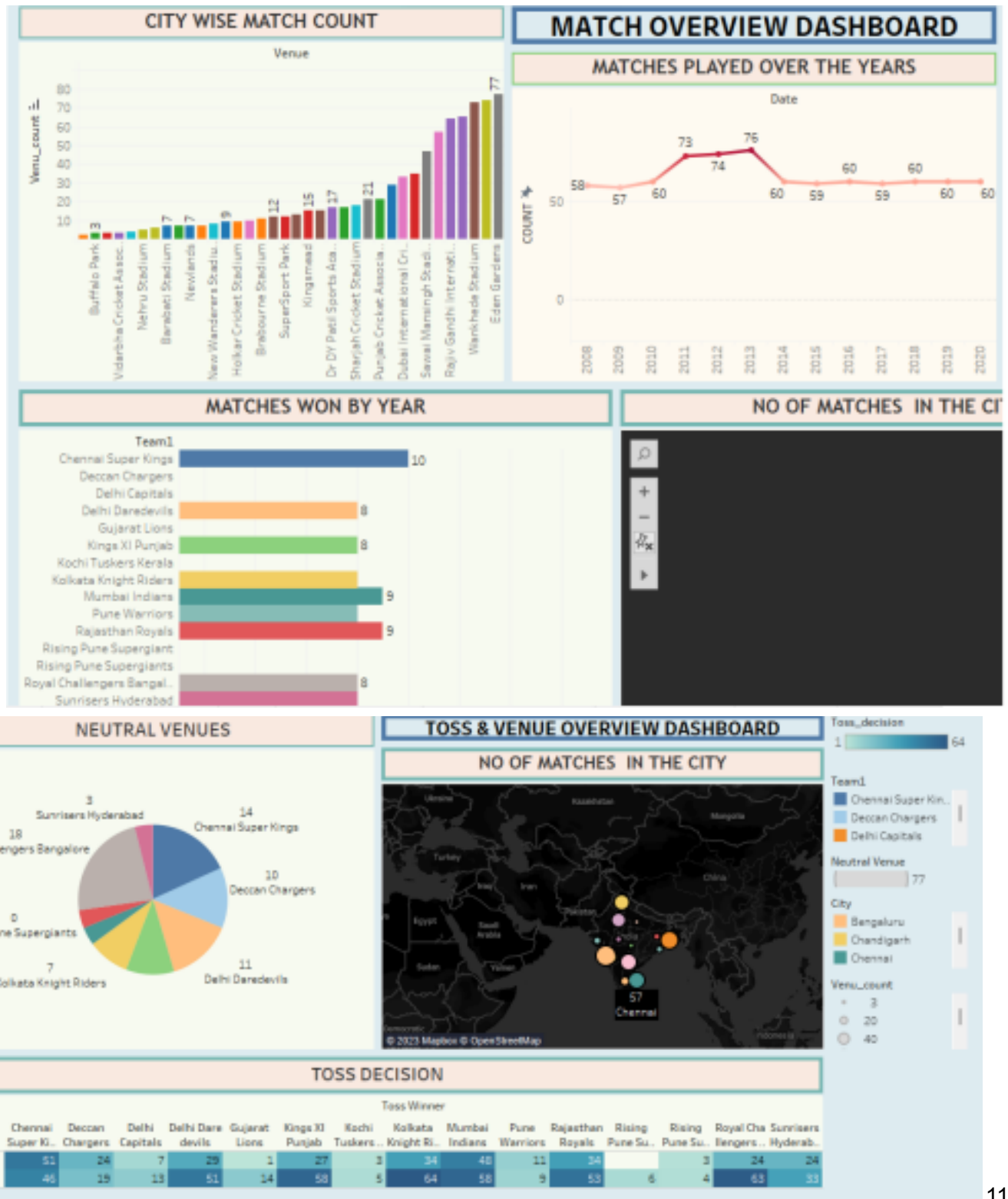


Conclusion: The Sheet displays the number of matches played by each team at a neutral venue . (A venue that is neither a home venue nor an away venue).
Royal Challengers Bangalore played the most amount of matched at neutral venue.



Conclusion: The sheet displays the way in which a match has been won by a team , that is match won by wickets or match won by runs and their respective number.

6. Dashboards



7. Conclusion/Future scope

- The following data gave us an insight on which player has been the man of the match for the most time- so that the player can be kept in consideration for further tournament and increase the chance of winning.
- We got to know that the most winning team in IPL and therefore can help us in future prediction that which team can go in semifinals or finals.
- We also got to know the matches won through runs and wicket so through this we can get to know the potential that what factor of their team are strong- batsmen or bowler. • This data can be further used by an analyst to benefit their respective team. • These visualizations can also be used by the planners of the league .
- These visualizations can be used by coaches and owners to plan the kind of players required in a team .