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

5. <u>Implementation/Output</u>
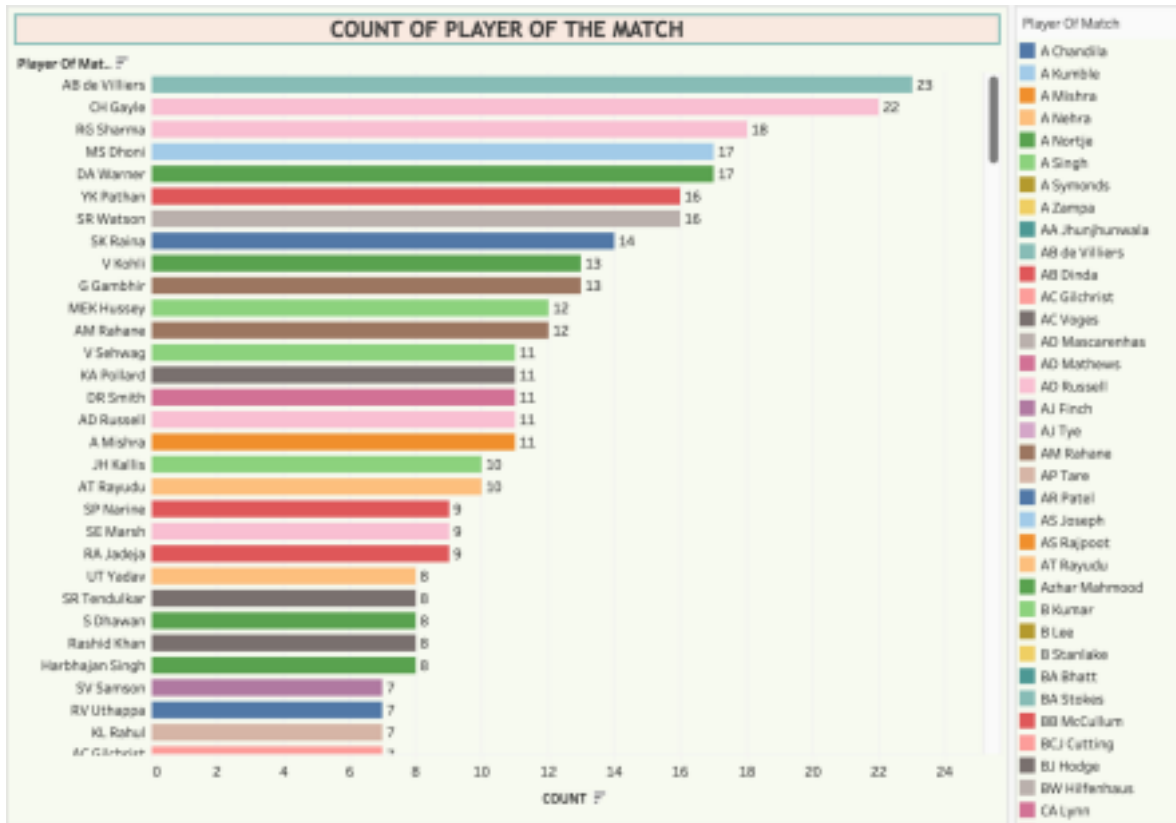
<u>Conclusion</u>: The sheet displays the number of times a player was awarded "Player of The Match ". AB de Villers was awarded the maximum number of times whereas there are several players that have never been awarded .

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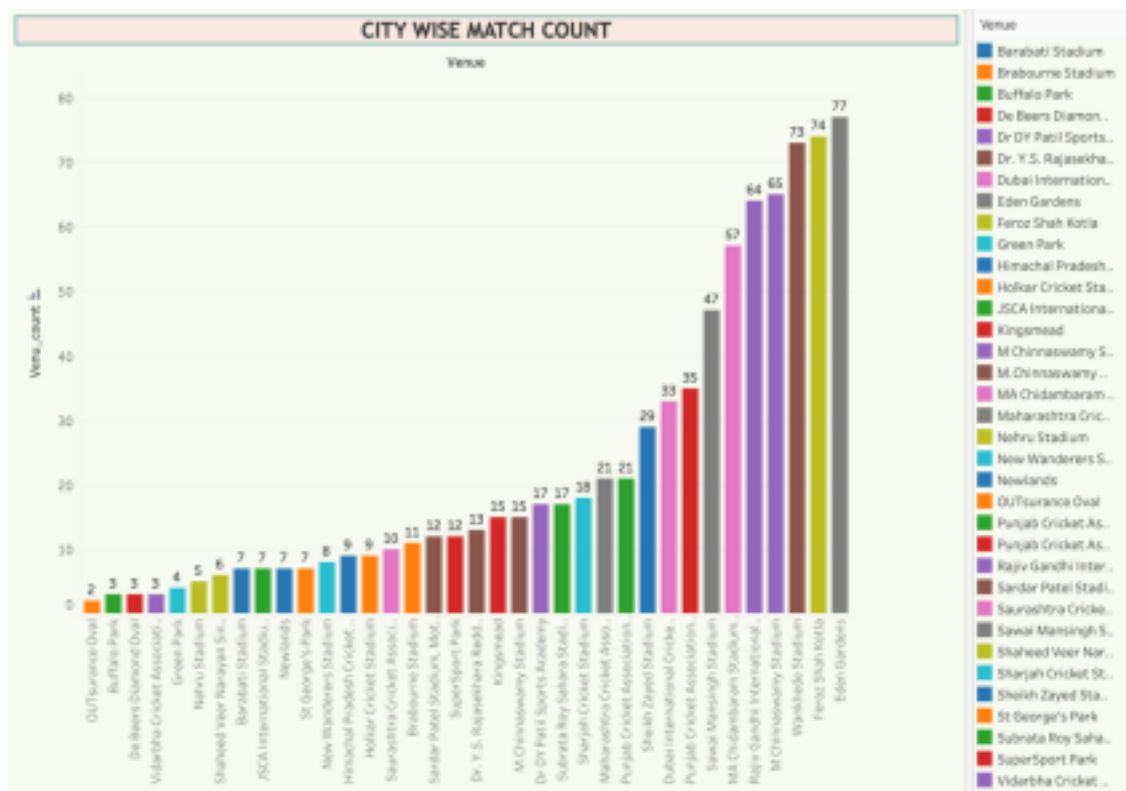
Conclusion: The sheet displays the number of matches played in a city's stadium . Eden Garden was the stadium where the maximum number of matches were played. OUTsurance Oval stadium as the stadium where the minimum number of matches were played.

MATCHES PLAYED OVER THE YEARS

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.
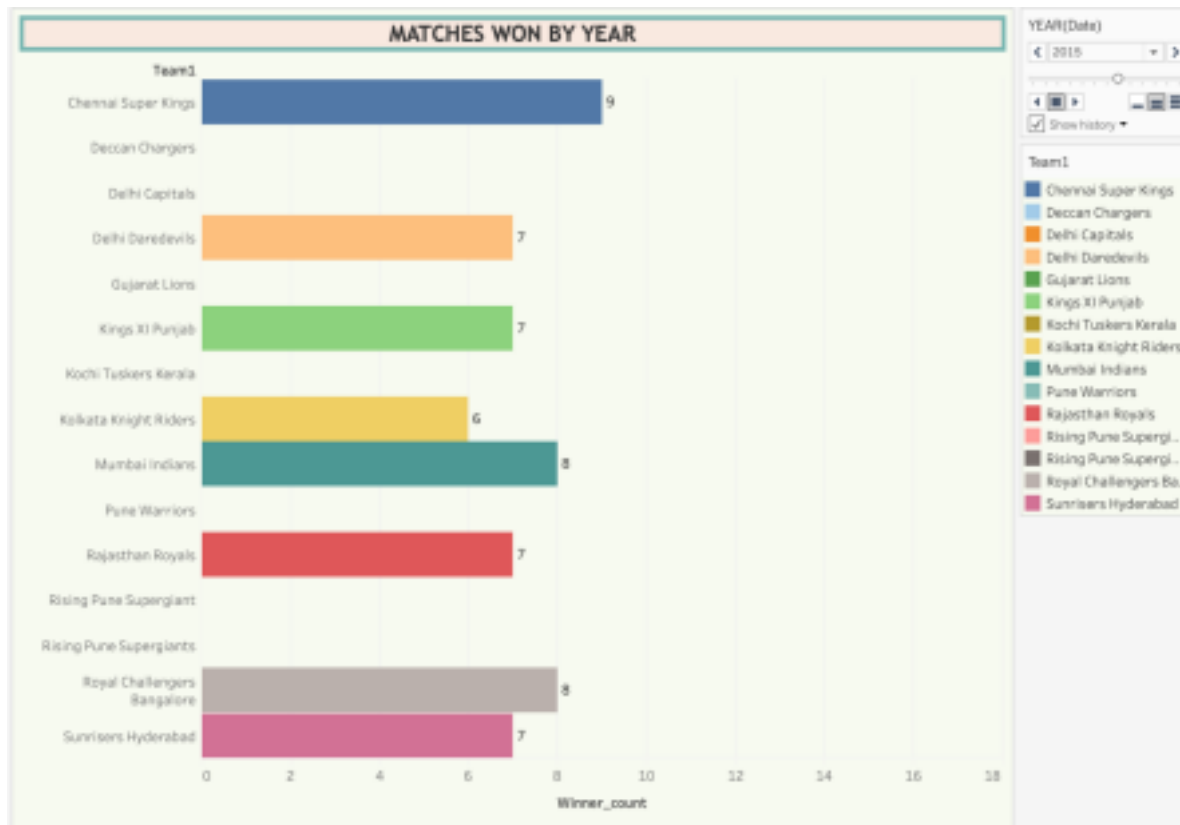
MATCHES WON BY YEAR

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

TOSS DECISION

Toss Decision	Chennai Super Ki..	Deccan Chargers	Delhi Capitals	Delhi Dare devils	Gujarat Lions	Kings XI Punjab	Kochi Tuskers ..	Kolkata Knight Ri..	Mumbai Indians	Pune Warriors	Rajasthan Royals	Rising Pune Su..	Rising Pune Su..	Roy Iler
bat	51	24	7	29	1	27	3	34	48	11	34		3	
field	46	19	13	51	14	58	5	64	58	9	53	6	4	
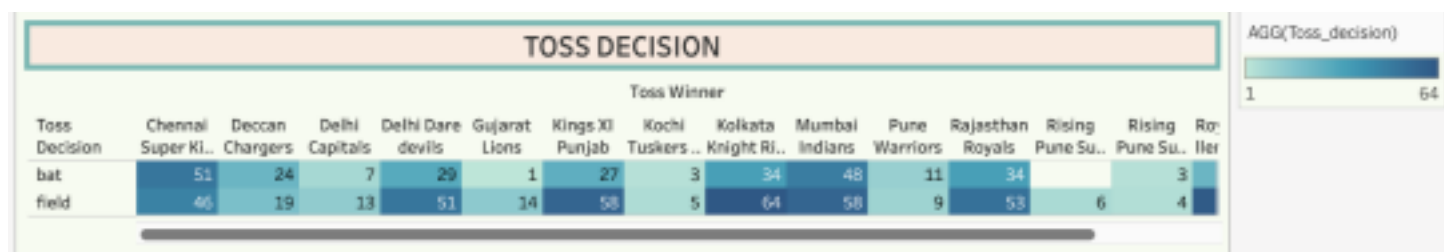
Conclusion: The sheet displays the toss decisions of each team . The number of times a team has decided to elect batting or fielding after winning a toss.
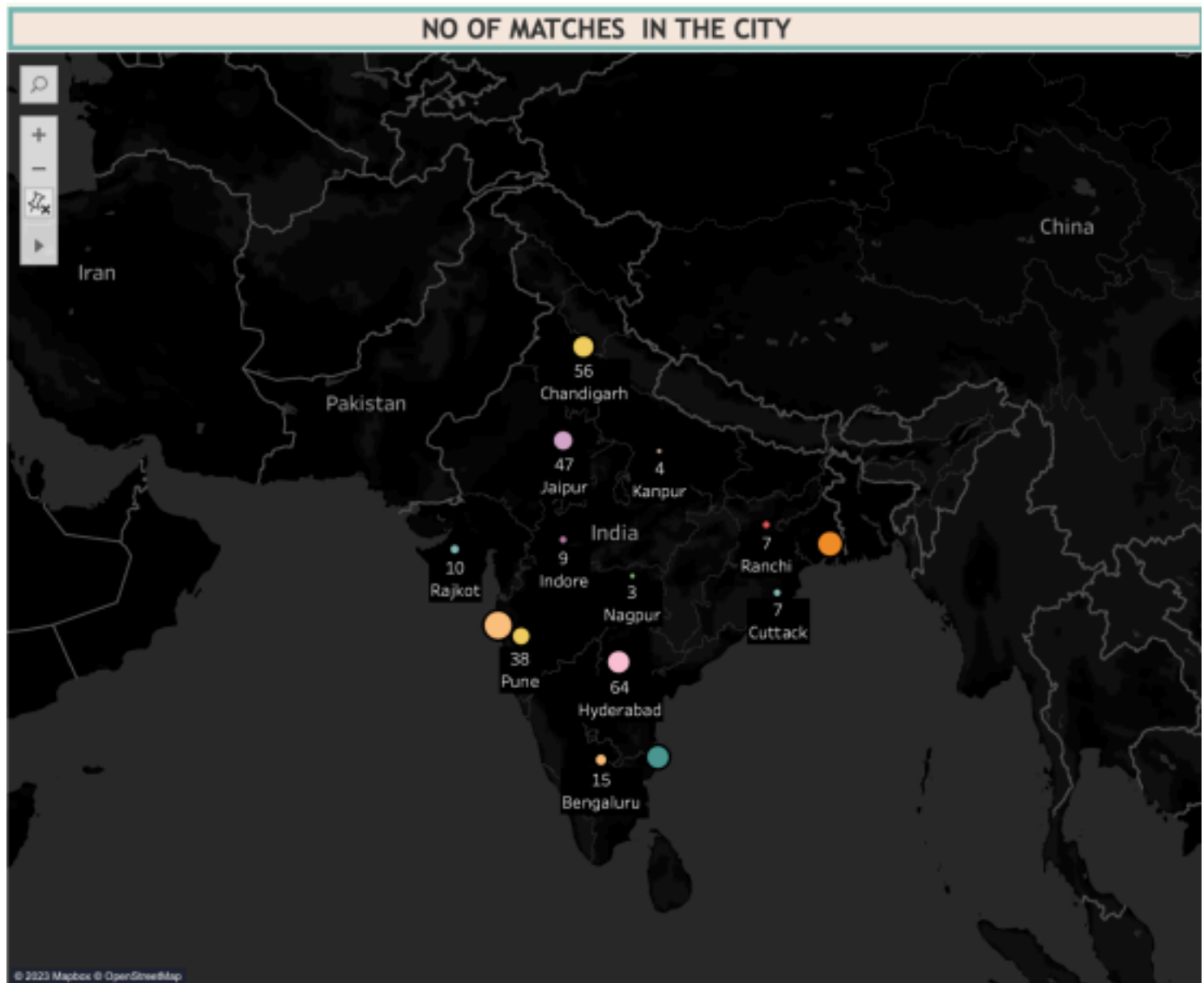
Conclusion: This sheet shows the geographical representation of the number of matches held in a city
. Chandigarh was the city where maximum number of matches were played .

NEUTRAL VENUES

Pie chart of Neutral Venues:
- 3 Sunrisers Hyderabad
- 14 Chennai Super Kings
- 10 Deccan Chargers
- 0 Delhi Capitals
- 11 Delhi Daredevils
- 0 Gujarat Lions
- 8 Kings XI Punjab
- 7 Kolkata Knight Riders
- 3 Mumbai Indians
- 0 Rising Pune Supergiants
- 18 Royal Challengers Bangalore
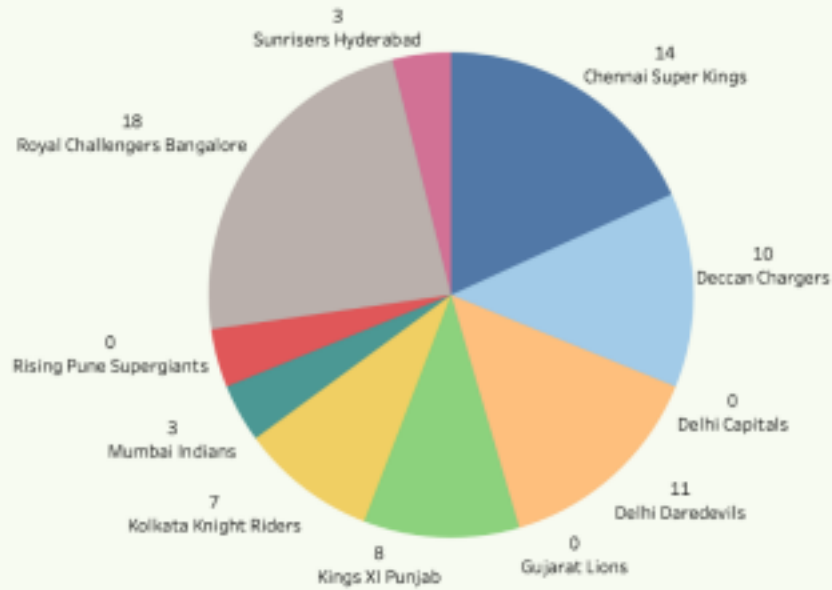
Conclusion: The Sheet displays the number of matches played by each team at a neutral venue
. (A venue that is neither a home venue nor an away venue).
 Royal Challengers Bangalore played the most amount of matched at neutral venue.

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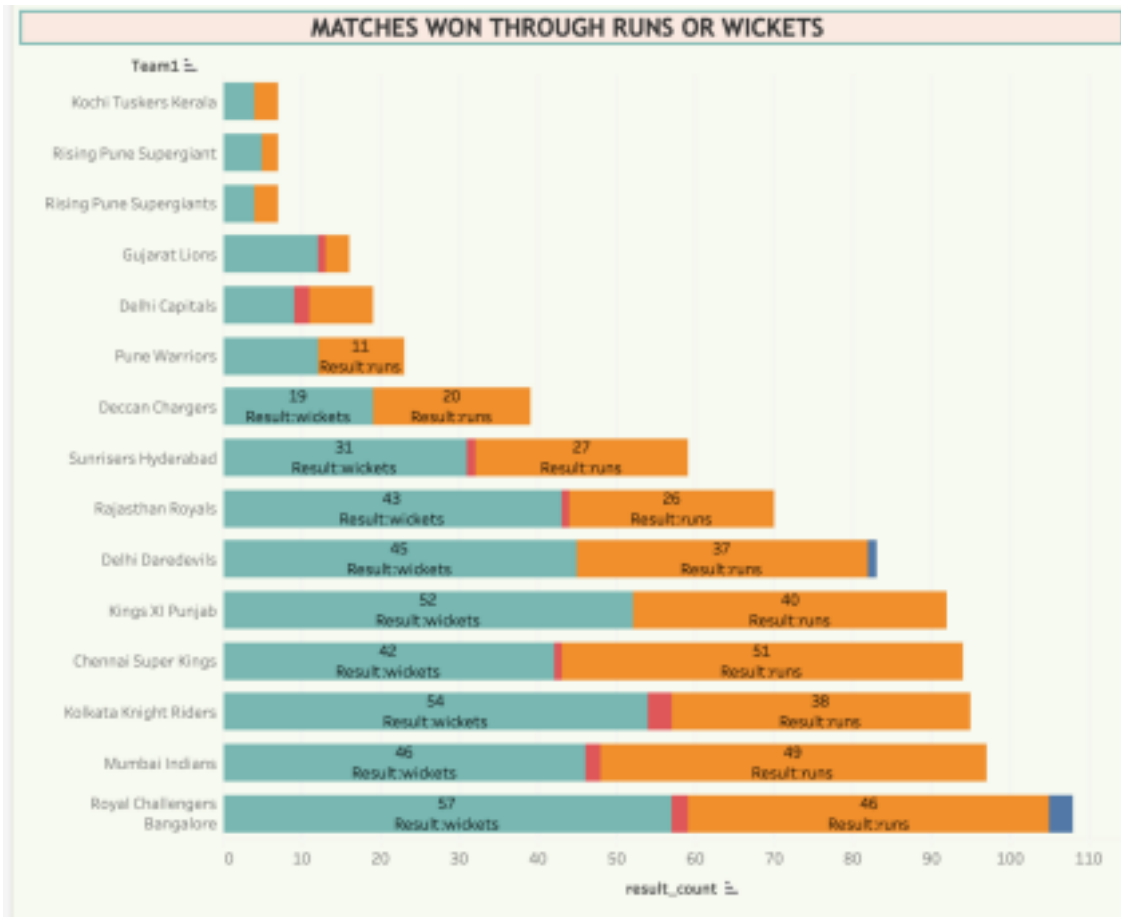
Conclusion: The sheet displays the way in which a match has been won by a team , that is match won by wickets or match won by runs and their respective number.

6. Dashboards

TOSS DECISION

Toss Decision	Chennai Super Ki..	Deccan Chargers	Delhi Capitals	Delhi Dare devils	Gujarat Lions	Kings XI Punjab	Kochi Tuskers...	Kolkata Knight Ri..	Mumbai Indians	Pune Warriors	Rajasthan Royals	Rising Pune Su..	Rising Pune Su..	Royal Cha llengers...	Sunrisers Hyderab..
bat	51	24	7	29	1	27	3	34	40	11	34		3	24	24
field	46	19	13	51	14	58	5	64	58	9	53	6	4	63	33
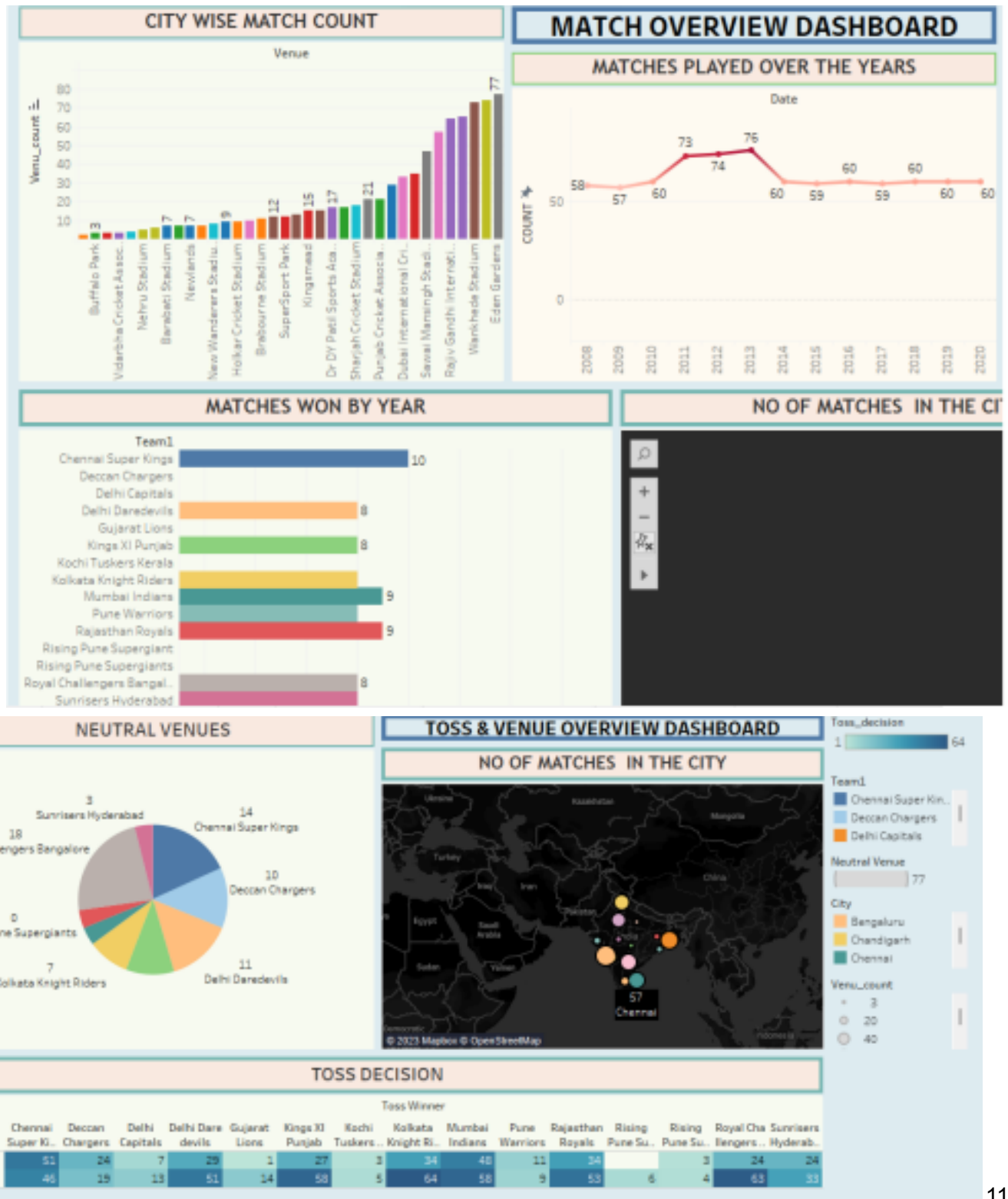
7. Conclusion/Future scope

- 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 .