

1. USEFUL IMPORTANT STEPS

- Step-01 := Import useful library
- Step-02:= connect file to python
- Step-03:= removing unwanted values from the data
- Step-04:= understand basics of our data, EDA (i.e. data shape,data info,describe data,total columns name)
- Step-05:= Extract useful details from main column (i.e date column extract year and month, Address column extract city)

CLEANING DATA

- Cleaning data is most useful teams in data analysis removing unwanted stuff is helps us to improve data information accuracy
- So, finding first is there any NULL or NAN values in column or rows
- I have two main table for Analise our data
- (1) Match information data (2) ball to ball data
- Importing a useful library for analyze our data easily, in here I am using important libraries:
 - Numpy
 - Pandas
 - Matplotlib
 - Seaborn

- 1. HOW MANY MATCHES PLAYED IN SEASON 2022?
- 2. HOW MANY MATCHES PLAYED IN EACH STADIUM?
- Total 59 matches were played in this season

Dr DY Patil Sports Academy, Mumbai ------→ 18

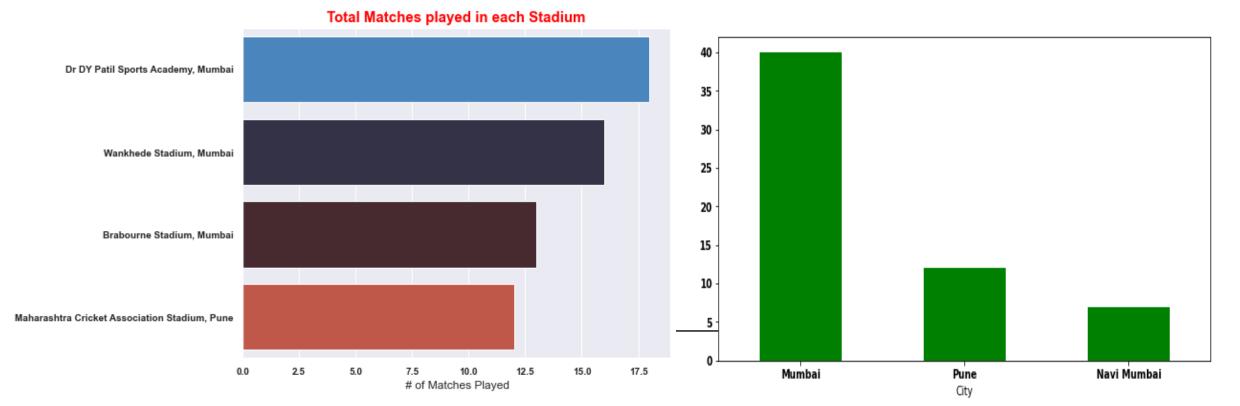
Wankhede Stadium, Mumbai ------→ 16

Brabourne Stadium, Mumbai ------ → 13

Maharashtra Cricket Association Stadium, Pune → 12

Most of the matched were played in Mumbai

Top Most matches played in Dy patil sports stadium

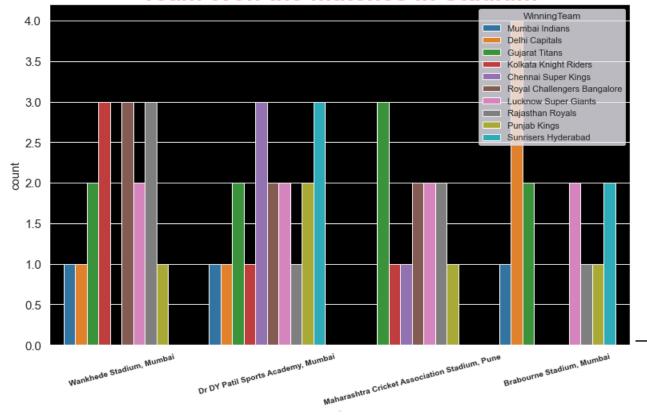


3. IN WHICH STADIUM, WHICH TEAM MOST OF THE MATCHES HAD WON

Delhi capitals most of times won in Brabourne stadium

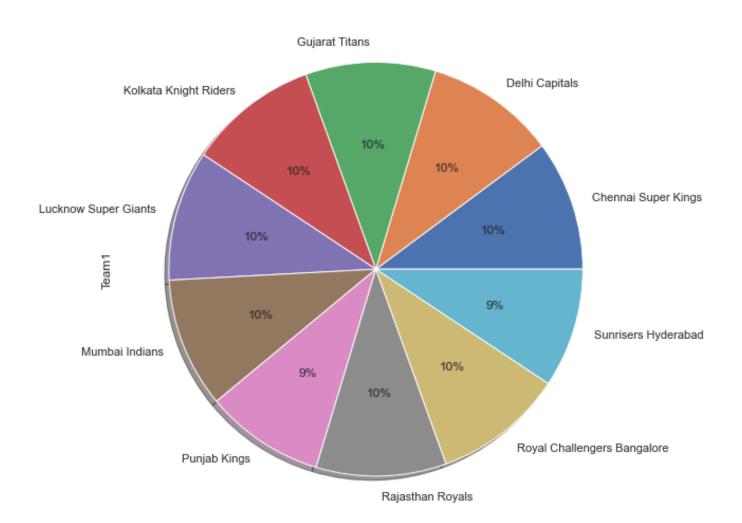
in Wankhede, 3 team had perform well (kkr,rcb,rr) compared to other stadiums

Team Won the matches in Stadium



	Venue	Winning Team	Won_Match
0	Brabourne Stadium, Mumba	i Delhi Capitals	4
1	Brabourne Stadium, Mumba	i Gujarat Titans	2
2	Brabourne Stadium, Mumba	i Lucknow Super Giants	2
3	Brabourne Stadium, Mumba	i Mumbai Indians	1
4	Brabourne Stadium, Mumba	i Punjab Kings	1
5	Brabourne Stadium, Mumba	i Rajasthan Royals	1
6	Brabourne Stadium, Mumba	i Sunrisers Hyderabad	2
7	Dr DY Patil Sports Academy, Mumba	i Chennai Super Kings	3
8	Dr DY Patil Sports Academy, Mumba	i Delhi Capitals	1
9	Dr DY Patil Sports Academy, Mumba	i Gujarat Titans	2
10	Dr DY Patil Sports Academy, Mumba	i Kolkata Knight Riders	1
11	Dr DY Patil Sports Academy, Mumba	Lucknow Super Giants	2
12	Dr DY Patil Sports Academy, Mumba	i Mumbai Indians	1
13	Dr DY Patil Sports Academy, Mumba	i Punjab Kings	2
14	Dr DY Patil Sports Academy, Mumba	i Rajasthan Royals	1
15	Dr DY Patil Sports Academy, Mumba	i Royal Challengers Bangalore	2
16	Dr DY Patil Sports Academy, Mumba	Sunrisers Hyderabad	3
17	Maharashtra Cricket Association Stadium, Pune	Chennai Super Kings	1
18	Maharashtra Cricket Association Stadium, Pune	Gujarat Titans	3
19	Maharashtra Cricket Association Stadium, Pune	e Kolkata Knight Riders	1
20	Maharashtra Cricket Association Stadium, Pune	Lucknow Super Giants	2
21	Maharashtra Cricket Association Stadium, Pune	Punjab Kings	1
22	Maharashtra Cricket Association Stadium, Pune	Rajasthan Royals	2
23	Maharashtra Cricket Association Stadium, Pune	Royal Challengers Bangalore	2
24	Wankhede Stadium, Mumba	i Delhi Capitals	1
25	Wankhede Stadium, Mumba	•	2
26	Wankhede Stadium, Mumba	i Kolkata Knight Riders	3
27	Wankhede Stadium, Mumba	i Lucknow Super Giants	2
28	Wankhede Stadium, Mumba		1
29	Wankhede Stadium, Mumba	i Punjab Kings	1
30	Wankhede Stadium, Mumba	i Rajasthan Royals	3
31	Wankhede Stadium, Mumba	i Royal Challengers Bangalore	3

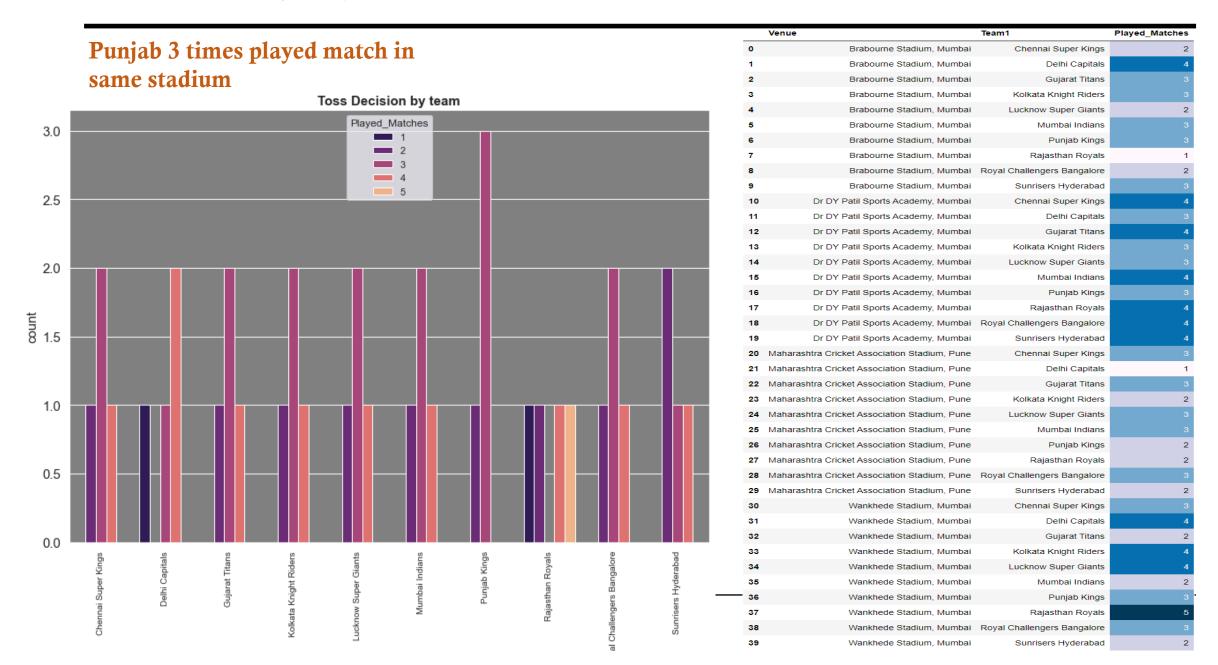
4. HOW MANY MATCHES WERE PLAYED BY EACH TEAM?



Overall all team played around equal matches

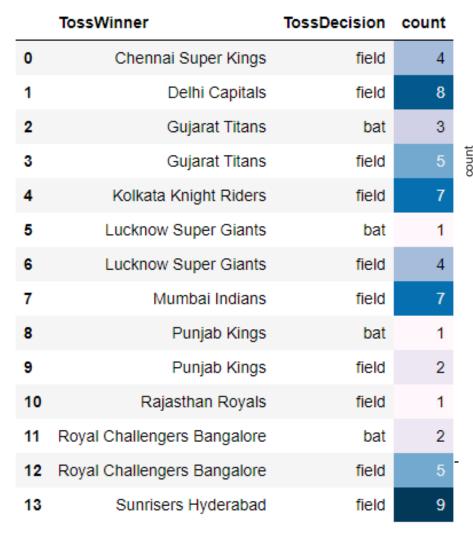
Team1	
Chennai Super Kings	12
Delhi Capitals	12
Gujarat Titans	12
Kolkata Knight Riders	12
Lucknow Super Giants	12
Mumbai Indians	12
Punjab Kings	11
Rajasthan Royals	12
Royal Challengers Bangalore	12
Sunrisers Hyderabad	11

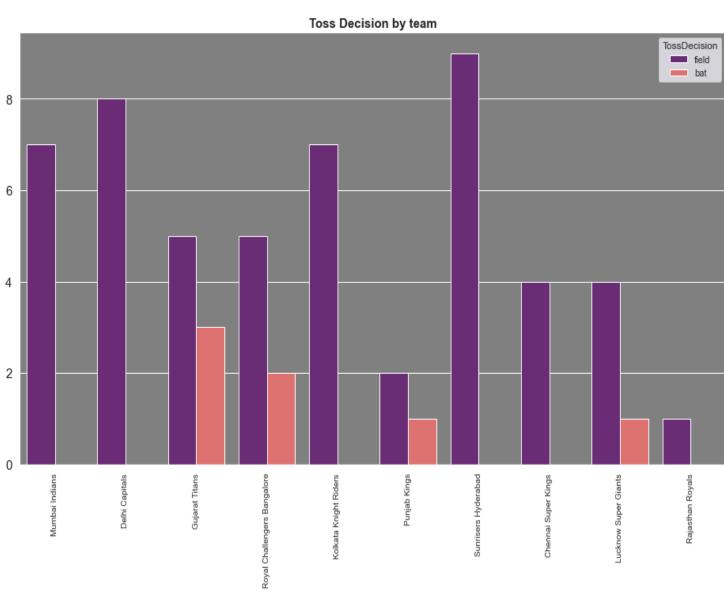
5. IN WHICH STADIUM HOW MANY MATCHES WERE PLAYED BY EACH TEAM?



Q6. TOSS DECISION BY TEAM

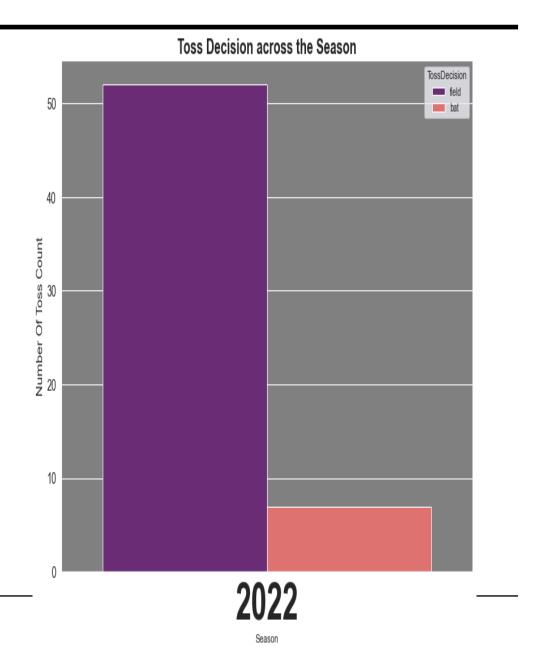
In the Most of cases team chose field first Hyderabad won the toss most





Q7. WHAT IS THE TOSS DECISION IN THIS SEASON?

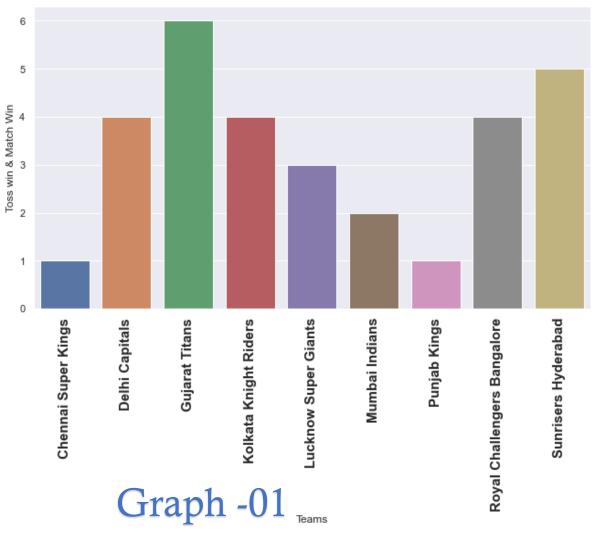
In season 2022, Most of the team chose ball first



Q8. WINNING THE MATCH AFTER TOSS

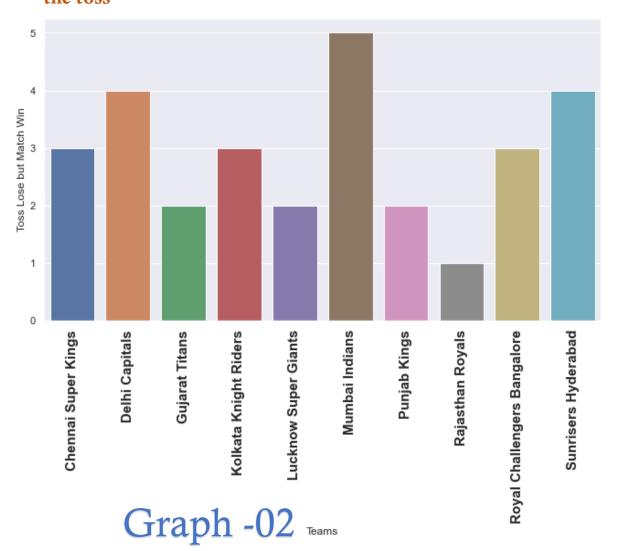
Graph-01 represents, Team win the match after won the toss

We can predict that if GT won the toss,50% chances to win the match compared to other team

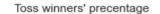


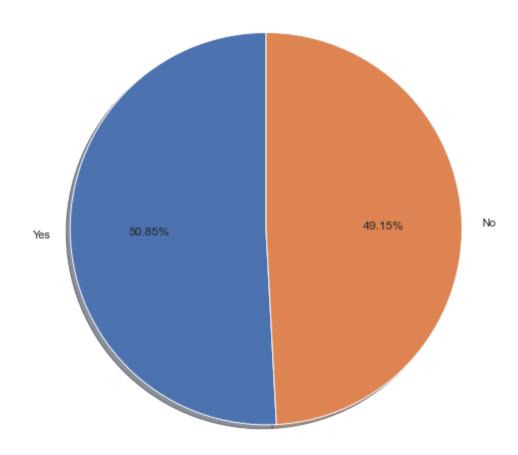
Graph-02 represents, Team win the match after lose the toss

Most of cases ,MI won the matches 5 times even they lost the toss



Avg 50%-50% ratio, if any team won or lost the toss





Q10. (I) WON THE MATCH WITH BIGGEST MARGIN

(II) WON THE MATCH WITH BIGGEST WICKETS

Chennai Super King has won the match with biggest margin

	WinningTeam	Margin
2	Chennai Super Kings	91

Out of the 10 team only 2 team has won the match without drop any wicket

	Winning Team	Margin
9	Sunrisers Hyderabad	9
11	Delhi Capitals	9

Q11. HOW MANY SUPER-OVER PLAYED IN THIS SEASON? IF ANY SUPER OVER THAN WHO HAD WON?

In this season, between two innings one team won the match

There is no such a case for match tie

$$Super-over = 0$$

Q12. WHICH PLAYER MOST OF TIMES MAN OF MATCH IN THIS SEASON?

Most of the times Kuldeep Yadav won the man of the match

```
Player_of_Match
Kuldeep Yadav 4
Name: Player_of_Match, dtype: int64
```

Q13. THE LOWEST TOTAL DEFENDED AND HIGHEST TOTAL CHASED BY EACH TEAM

Lucknow Team won the match for chasing big score in the Brabourne stadium

match_i	id date	venue	team1	team2	stage	toss_winner	toss_decision	first_ings_score	first_ings_wkts	second_ings_score	second_ings_wkts	match_winner	won_by mar	gin play	yer_of_the_match top_scorer	highscore	best_bowling	best_bowling_figure
6	7 March 31,2022	Brabourne Stadium, Mumbai	Chennai	Lucknow	Group	Lucknow	Field	210	7	211	4	Lucknow	Wickets	6	Evin Lewis Quinton de Kock	61	Ravi Bishnoi	224

Lucknow Team has not chassed minimum score in the tournament

match	_id date	venue	teami	teamz Stage	ross_winner	toss_decision	IIISt_IIIgS_Score	IIIst_ings_wkts s	econd_ings_score	second_ings_wkts	match_winner	won_by	margin	player_ol_the_match_top_score	r nighscor	e pest_powling	pest_powing_rigure
56	57 May 10,2022	Maharashtra Cricket Association Stadium,Pune	Lucknow	Gujarat Group	Gujarat	Bat	144	4	82	10	Gujarat	Runs	62	Shubman Gill Shubman	Gill 6	3 Rashid Khan	424

	overs	total_run
0	18	1122
1	19	1060

Q15. MOST SIXES AND MOST FOUR BY INDIVIDUAL AND TEAMS

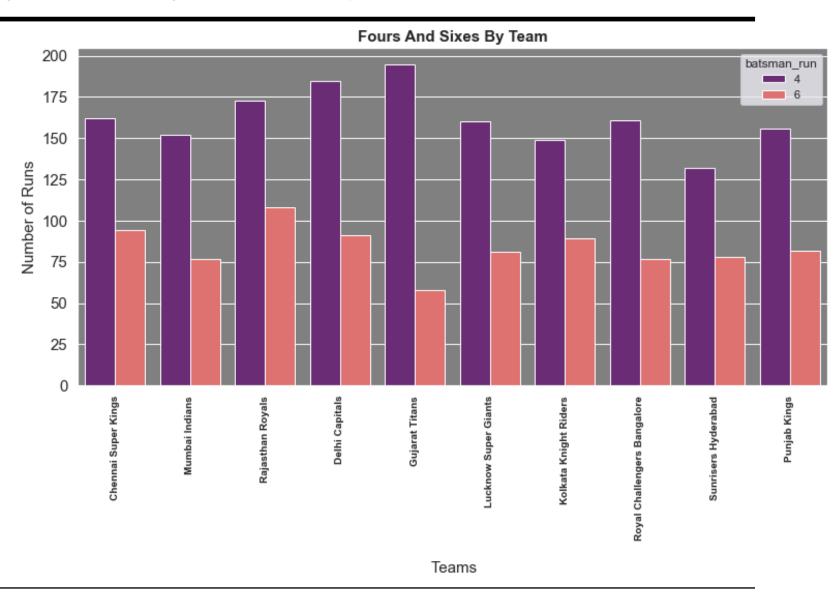
Buttler hits many sixe and fours in this tournament

batter	count	sum	batter	count	sum
JC Buttler	57	228	JC Buttler	37	222

Total sixes in tournament = 835

Total Fours in tournament = 1625

Almost double fours smashed in this tournament



Q16. > 50 SCORE BY PLAYER AND > 100 SCORE BY PLAYER

	batter	MatchNumber	total_run
0	JC Buttler	34	117
1	KL Rahul	37	111
2	JC Buttler	30	108
3	KL Rahul	26	108
4	JC Buttler	9	103
95	VR Iyer	14	52
96	DJ Hooda	12	51
97	S Dube	7	51
98	MS Dhoni	1	51
99	AD Russell	25	51

100 rows × 3 columns

Score > 50

	batter	MatchNumber	total_run
0	JC Buttler	34	117
1	KL Rahul	37	111
2	JC Buttler	30	108
3	KL Rahul	26	108
4	JC Buttler	9	103
5	S Dube	22	102
6	F du Plessis	3	102
7	DA Warner	50	101
8	RD Gaikwad	46	101

Score > 100

Q17. HIGHEST RUN SCORER IN POWER PLAY AND DEATH OVERS

	MatchNumber	innings	total_run
0	32	2	81

MatchNumber innings total_run

0 40 2 25

Power Play score

Last Over score

THANK YOU