import numpy as np
import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

df = pd.read_csv('Matches.csv')

df.head()

	id	city	date	player_of_match	venue	neutral_venue	team1	team2	toss_
0	335982	Bangalore	2008- 04-18	BB McCullum	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Kolkata Knight Riders	Chal Ba
1	335983	Chandigarh	2008- 04-19	MEK Hussey	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Chennai Super Kings	C Supe
2	335984	Delhi	2008- 04-19	MF Maharoof	Feroz Shah Kotla	0	Delhi Daredevils	Rajasthan Royals	Ra
3	335985	Mumbai	2008- 04-20	MV Boucher	Wankhede Stadium	0	Mumbai Indians	Royal Challengers Bangalore	1
4	335986	Kolkata	2008- 04-20	DJ Hussey	Eden Gardens	0	Kolkata Knight Riders	Deccan Chargers	Cl

df.head(-5)

	id	city	date	player_of_match	venue	neutral_venue	team1	team2	to
0	335982	Bangalore	2008- 04-18	BB McCullum	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Kolkata Knight Riders	C
1	335983	Chandigarh	2008- 04-19	MEK Hussey	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Chennai Super Kings	S
2	335984	Delhi	2008- 04-19	MF Maharoof	Feroz Shah Kotla	0	Delhi Daredevils	Rajasthan Royals	
3	335985	Mumbai	2008- 04-20	MV Boucher	Wankhede Stadium	0	Mumbai Indians	Royal Challengers Bangalore	
4	335986	Kolkata	2008- 04-20	DJ Hussey	Eden Gardens	0	Kolkata Knight Riders	Deccan Chargers	
		***			***		***	***	
806	1216542	Dubai	2020- 10-08	JM Bairstow	Dubai International Cricket Stadium	0	Sunrisers Hyderabad	Kings XI Punjab	
807	1216543	Dubai	2020- 10-14	A Nortje	Dubai International Cricket Stadium	0	Delhi Capitals	Rajasthan Royals	
808	1216544	Dubai	2020- 10-25	RD Gaikwad	Dubai International Cricket Stadium	0	Royal Challengers Bangalore	Chennai Super Kings	C
809	1216545	Abu Dhabi	2020- 09-26	Shubman Gill	Sheikh Zayed Stadium	0	Sunrisers Hyderabad	Kolkata Knight Riders	
810	1216546	Dubai	2020- 10-20	S Dhawan	Dubai International Cricket Stadium	0	Delhi Capitals	Kings XI Punjab	

811 rows × 17 columns

df.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 816 entries, 0 to 815 Data columns (total 17 columns): # Column Non-Null Count Dtype ---816 non-null int64 0 id 1 city 803 non-null object 2 date 816 non-null object 3 player_of_match 812 non-null object 816 non-null object venue 5 neutral_venue 816 non-null int64 816 non-null object 6 team1 team2 816 non-null object 816 non-null 8 toss_winner object toss_decision 816 non-null 9 object 10 winner 812 non-null object 11 result 812 non-null object 12 result_margin 799 non-null float64 13 eliminator 812 non-null object 14 method 19 non-null object 15 umpire1 816 non-null object 16 umpire2 816 non-null object dtypes: float64(1), int64(2), object(14) memory usage: 108.5+ KB

df.drop(['method'] , axis = 1, inplace = True)

df

	id	city	date	player_of_match	venue	neutral_venue	team1	team2	to
0	335982	Bangalore	2008- 04-18	BB McCullum	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Kolkata Knight Riders	C
1	335983	Chandigarh	2008- 04-19	MEK Hussey	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Chennai Super Kings	S
2	335984	Delhi	2008- 04-19	MF Maharoof	Feroz Shah Kotla	0	Delhi Daredevils	Rajasthan Royals	
3	335985	Mumbai	2008- 04-20	MV Boucher	Wankhede Stadium	0	Mumbai Indians	Royal Challengers Bangalore	
4	335986	Kolkata	2008- 04-20	DJ Hussey	Eden Gardens	0	Kolkata Knight Riders	Deccan Chargers	
811	1216547	Dubai	2020- 09-28	AB de Villiers	Dubai International Cricket Stadium	0	Royal Challengers Bangalore	Mumbai Indians	
812	1237177	Dubai	2020- 11-05	JJ Bumrah	Dubai International Cricket Stadium	0	Mumbai Indians	Delhi Capitals	
813	1237178	Abu Dhabi	2020- 11-06	KS Williamson	Sheikh Zayed Stadium	0	Royal Challengers Bangalore	Sunrisers Hyderabad	
814	1237180	Abu Dhabi	2020- 11-08	MP Stoinis	Sheikh Zayed Stadium	0	Delhi Capitals	Sunrisers Hyderabad	
815	1237181	Dubai	2020- 11-10	TA Boult	Dubai International Cricket Stadium	0	Delhi Capitals	Mumbai Indians	

816 rows × 16 columns

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 816 entries, 0 to 815
Data columns (total 16 columns):
Column Non-Null Count Dtype

https://colab.research.google.com/drive/1WcEgoIUU_PzugJ_jsVmiqf_Q6aTuDggC#printMode=true

```
0 id
                    816 non-null
                                     int64
 1
    city
                     803 non-null
                                     object
                    816 non-null
 2
    date
                                     object
 3
    player_of_match 812 non-null
                                     object
                    816 non-null
                                     object
 4
    venue
 5
    neutral_venue
                    816 non-null
                                     int64
             816 non-null
                                     object
 6
    team1
    team2
                                     object
    toss_winner
 8
                    816 non-null
                                     object
    toss_decision 816 non-null
 9
                                     object
             812 non-null
812 non-null
 10 winner
                                     object
 11 result
                                     object
                   799 non-null
812 non-null
 12 result_margin
                                     float64
13 eliminator
                                     object
 14 umpire1
                    816 non-null
                                     object
15 umpire2
                    816 non-null
                                     obiect
dtypes: float64(1), int64(2), object(13) memory usage: 102.1+ KB
```

Most wins in IPL

```
MostWins = pd.DataFrame({"winner" : df['winner']})
```

MostWins.head()

winner Modern Kolkata Knight Riders Chennai Super Kings Delhi Daredevils Royal Challengers Bangalore Kolkata Knight Riders

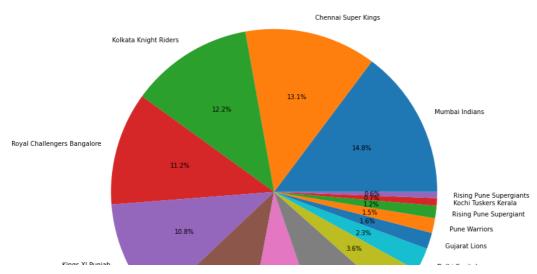
count_wins = MostWins.value_counts()

count_wins

```
winner
Mumbai Indians
                                 120
Chennai Super Kings
                                 106
Kolkata Knight Riders
                                  99
Royal Challengers Bangalore
                                  91
Kings XI Punjab
                                  88
Rajasthan Royals
                                  81
Delhi Daredevils
                                  67
Sunrisers Hyderabad
Deccan Chargers
                                  29
Delhi Capitals
Gujarat Lions
                                  13
Pune Warriors
                                  12
Rising Pune Supergiant
Kochi Tuskers Kerala
                                  10
                                   6
Rising Pune Supergiants
dtype: int64
```

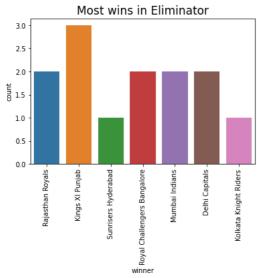
```
labels=[X[0] for X in count_wins.keys()]
bar,ax = plt.subplots(figsize=(18,12))
ax = plt.pie(x = count_wins,autopct = "%.1f%%" , labels=labels)
plt.title("Most wins in IPL",fontsize=15)
plt.show()
```

Most wins in IPL



```
sns.countplot(df['winner'][df['eliminator']=='Y'], data=df)
plt.title("Most wins in Eliminator" ,fontsize = 17)
plt.xticks(rotation=90)
plt.show()
```

 $/usr/local/lib/python 3.7/dist-packages/seaborn/_decorators.py: 43: Future Warning: Pass the following variety of the f$

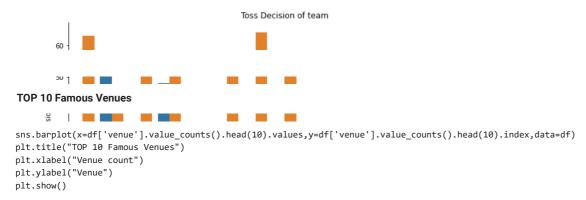


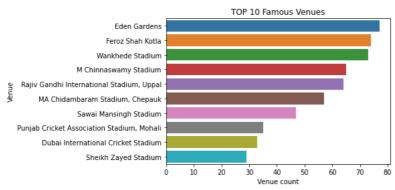
Win/Lose according to toss decision

decision_making

	Toss Winner	Decision	Times
0	Royal Challengers Bangalore	bat	24
1	Royal Challengers Bangalore	field	63
2	Chennai Super Kings	bat	51
3	Chennai Super Kings	field	46
4	Rajasthan Royals	bat	34
5	Rajasthan Royals	field	53
6	Mumbai Indians	bat	48
7	Mumbai Indians	field	58
8	Deccan Chargers	bat	24
9	Deccan Chargers	field	19
10	Kings XI Punjab	bat	27
11	Kings XI Punjab	field	58
12	Kolkata Knight Riders	bat	34
13	Kolkata Knight Riders	field	64
14	Delhi Daredevils	bat	29
15	Delhi Daredevils	field	51
16	Kochi Tuskers Kerala	bat	3
17	Kochi Tuskers Kerala	field	5
18	Pune Warriors	bat	11
19	Pune Warriors	field	9
20	Sunrisers Hyderabad	bat	24
21	Sunrisers Hyderabad	field	33
22	Gujarat Lions	bat	1
23	Gujarat Lions	field	14
24	Rising Pune Supergiants	bat	3
25	Rising Pune Supergiants	field	4
26	Rising Pune Supergiant	bat	0
27	Rising Pune Supergiant	field	6
28	Delhi Capitals	bat	7

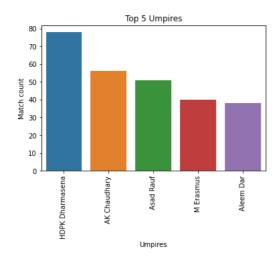
sns.catplot(x='Toss Winner' , y='Times' , hue="Decision", data=decision_making, kind='bar' ,height=5, aspect=2)
plt.xticks(rotation=90)
plt.title("Toss Decision of team")
plt.xlabel("IPL Teams")
plt.ylabel("Toss Decision")
plt.show()



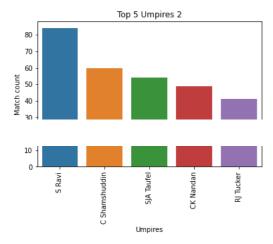


Top 5 Umpires

```
sns.barplot(x=df['umpire1'].value_counts().head(5).index,y=df['umpire1'].value_counts().head(5).values ,data=df)
plt.xticks(rotation=90)
plt.xlabel("Umpires")
plt.ylabel("Match count")
plt.title("Top 5 Umpires")
plt.show()
```



```
sns.barplot(x=df['umpire2'].value_counts().head(5).index,y=df['umpire2'].value_counts().head(5).values ,data=df)
plt.xticks(rotation=90)
plt.xlabel("Umpires")
plt.ylabel("Match count")
plt.title("Top 5 Umpires 2")
plt.show()
```



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