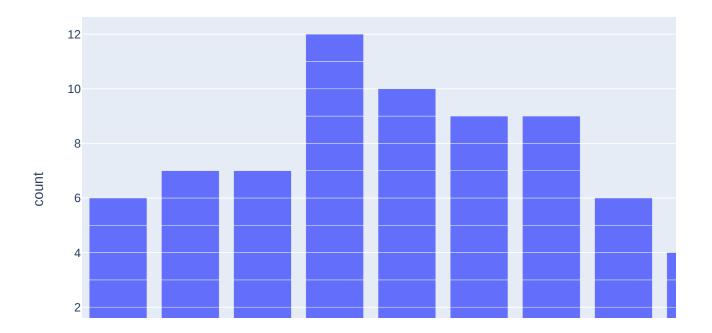
```
import pandas as pd
In [1]:
        import plotly.express as px
        import plotly.graph_objects as go
        data = pd.read_csv("IPL 2022.csv")
        print(data.head())
           match_id
                               date
                                                                             venue
                  1 March 26,2022
        0
                                                         Wankhede Stadium, Mumbai
        1
                  2 March 27,2022
                                                        Brabourne Stadium, Mumbai
        2
                  3 March 27,2022
                                               Dr DY Patil Sports Academy, Mumbai
        3
                  4 March 28,2022
                                                         Wankhede Stadium, Mumbai
        4
                  5 March 29,2022 Maharashtra Cricket Association Stadium, Pune
               team1
                           team2 stage toss_winner toss_decision first_ings_score
             Chennai
        0
                        Kolkata Group
                                            Kolkata
                                                            Field
                                                                                 131
                                              Delhi
        1
               Delhi
                                                            Field
                                                                                 177
                        Mumbai Group
        2
                                                                                 205
            Banglore
                         Punjab Group
                                             Punjab
                                                            Field
        3
             Gujarat
                        Lucknow Group
                                            Gujarat
                                                            Field
                                                                                 158
           Hyderabad Rajasthan Group
                                          Hyderabad
                                                                                 210
                                                            Field
           first_ings_wkts
                            second_ings_score
                                                second_ings_wkts match_winner
                                                                                 won_by
        0
                          5
                                           133
                                                               4
                                                                       Kolkata Wickets
                          5
        1
                                           179
                                                               6
                                                                         Delhi Wickets
        2
                          2
                                           208
                                                               5
                                                                       Punjab
                                                                               Wickets
        3
                          6
                                                               5
                                           161
                                                                       Gujarat
                                                                               Wickets
        4
                                           149
                                                                     Rajasthan
           margin player_of_the_match
                                            top_scorer highscore
                                                                        best_bowling
        0
                6
                          Umesh Yadav
                                              MS Dhoni
                                                                        Dwayne Bravo
        1
                4
                        Kuldeep Yadav
                                          Ishan Kishan
                                                               81
                                                                       Kuldeep Yadav
                                                               88
        2
                5
                          Odean Smith Faf du Plessis
                                                                     Mohammed Siraj
        3
                5
                                                               55
                       Mohammed Shami
                                          Deepak Hooda
                                                                     Mohammed Shami
                          Sanju Samson
                                         Aiden Markram
                                                               57 Yuzvendra Chahal
          best_bowling_figure
        0
                        3 - - 20
                        3--18
        1
        2
                        2 - - 59
        3
                        3 - - 25
                        3--22
```

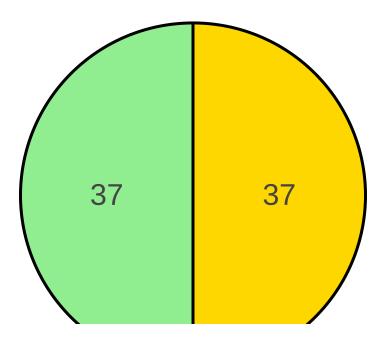
The dataset contains all the information needed to summarize the story of IPL 2022 so far. So let's start by looking at the number of matches won by each team in IPL 2022:





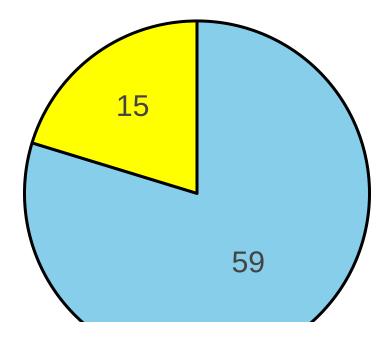
So, currently, Gujrat is leading the tournament by winning eight matches. It is an achievement as a new team for Gujrat in IPL. Now let's see how most of the teams win. Here we will analyze whether most of the teams win by defending (batting first) or chasing (batting second):



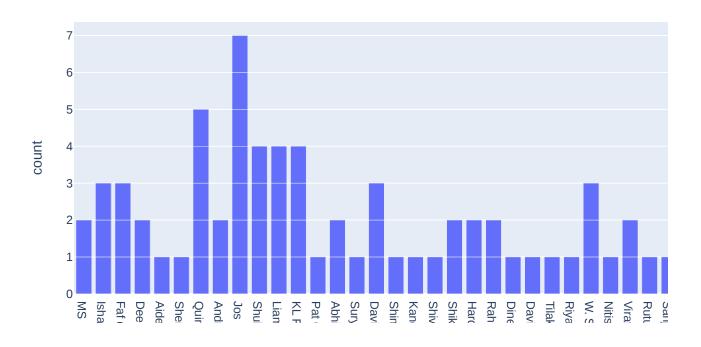


So, currently, 24 matches are won while chasing the target, and 22 matches are won while defending the target. Now let's see what most teams prefer (batting or fielding) after winning the toss:

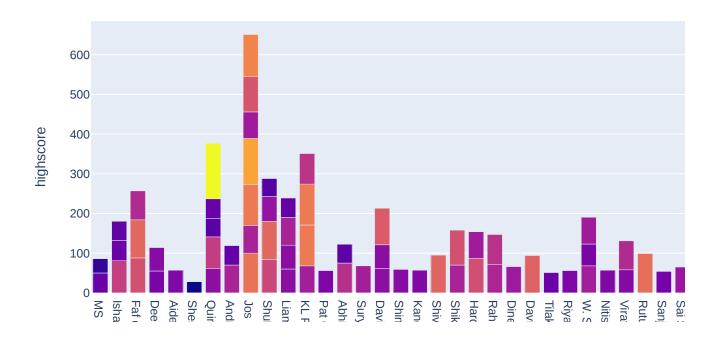
Toss Decision



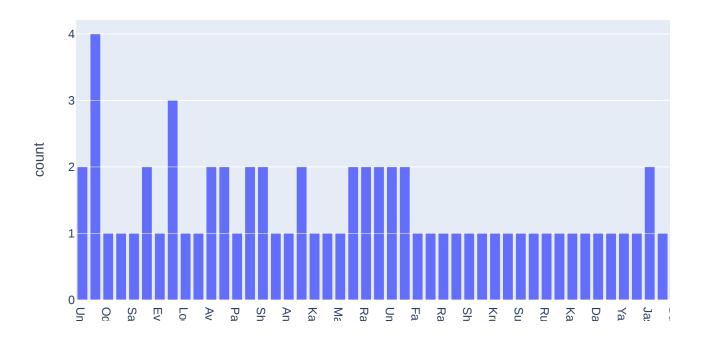
Thus, most captains choose to field after winning the toss. So far, in 43 games, captains have chosen to field first, and in just three games, the captains have chosen to bat first. Now let's see the top scorers of most IPL 2022 matches:



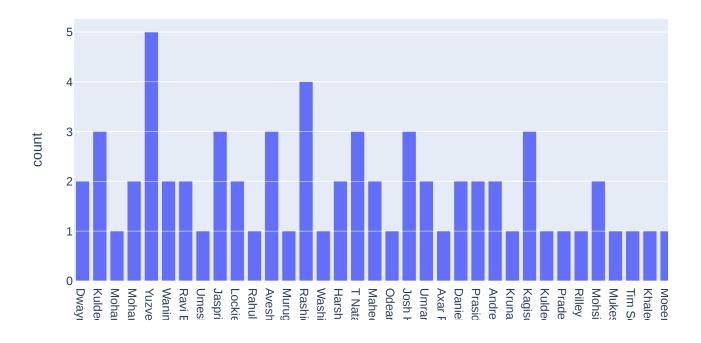
Currently, Jos Buttler has been a top scorer in 5 matches. He is looking in great touch. Let's analyze it deeply by including the runs scored by the top scorers:



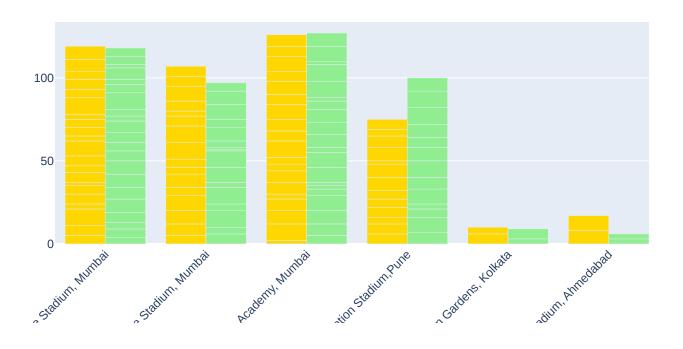
So till now, Jos Buttler has scored three centuries, and KL Rahul has scored two centuries. Now let's have a look at the most player of the match awards till now in IPL 2022:



So Kuldeep Yadav is leading in the list of players of the match awards with four matches. It is a great tournament for Kuldeep Yadav this year. Now let's have a look at the bowlers with the best bowling figures in most of the matches:



You can see Yuzvendra Chahal having the best bowling figures in four matches. So this is a great tournament for Yuzvendra Chahal this year too. Now let's have a look at whether most of the wickets fall while setting the target or while chasing the target:

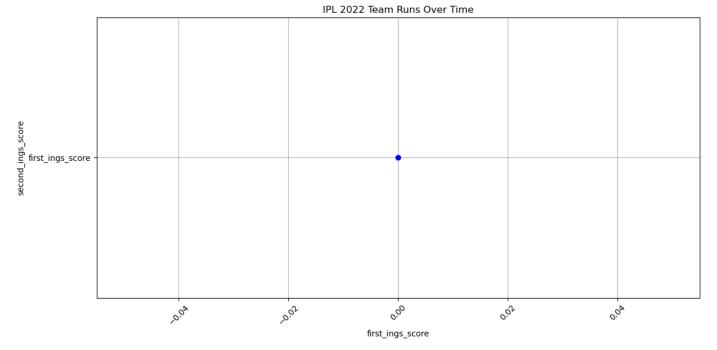


So in the Wankhede Stadium in Mumbai and MCA Stadium in Pune, most wickets fall while chasing the target. And in the other two stadiums, most wickets fall while setting the target. So this is how you can analyze and summarize the story of IPL 2022 using Python.

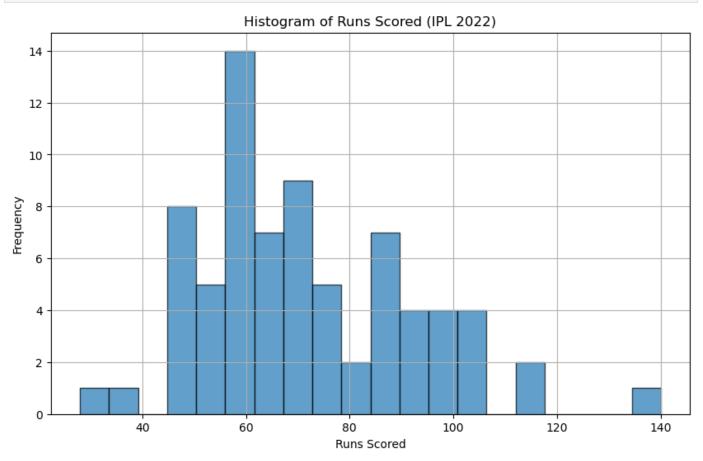
```
In [10]: import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd

In [11]: plt.figure(figsize=(12, 6))
plt.plot( 'first_ings_score', marker='o', linestyle='-', color='b')
plt.title('IPL 2022 Team Runs Over Time')
plt.xlabel('first_ings_score')
plt.ylabel('second_ings_score')
plt.ylabel('second_ings_score')
plt.xticks(rotation=45)
plt.grid(True)

plt.tight_layout()
plt.show()
```



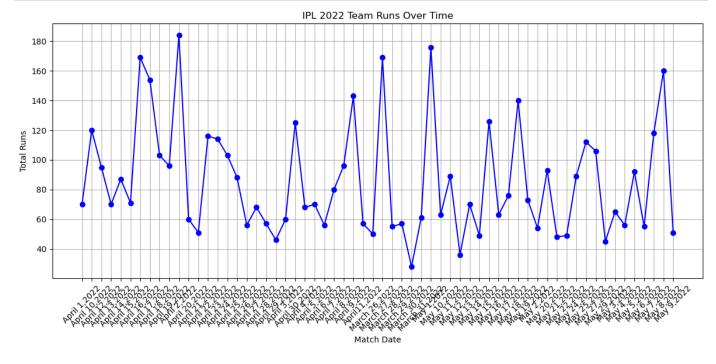
```
In [12]: runs_scored = data['highscore']
In [13]: plt.figure(figsize=(10, 6))
    plt.hist(runs_scored, bins=20, edgecolor='k', alpha=0.7) # bins determine the number of
    plt.title('Histogram of Runs Scored (IPL 2022)')
    plt.xlabel('Runs Scored')
    plt.ylabel('Frequency')
    plt.grid(True)
    plt.show()
```



```
In [14]: team_runs = data.groupby('date')['highscore'].sum()
```

```
In [15]: plt.figure(figsize=(12, 6))
  plt.plot(team_runs.index, team_runs.values, marker='o', linestyle='-', color='b')
  plt.title('IPL 2022 Team Runs Over Time')
  plt.xlabel('Match Date')
  plt.ylabel('Total Runs')
  plt.xticks(rotation=45)
  plt.grid(True)

plt.tight_layout()
  plt.show()
```



```
In [ ]:

In [ ]:
```