In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [2]:
```
df = pd.read_csv("IPL 2022.csv")
df
```

Out[2]:

	match_id	date	venue	team1	team2	stage	toss_winner	toss_decision	first
0	1	March 26,2022	Wankhede Stadium, Mumbai	Chennai	Kolkata	Group	Kolkata	Field	
1	2	March 27,2022	Brabourne Stadium, Mumbai	Delhi	Mumbai	Group	Delhi	Field	
2	3	March 27,2022	Dr DY Patil Sports Academy, Mumbai	Banglore	Punjab	Group	Punjab	Field	
3	4	March 28,2022	Wankhede Stadium, Mumbai	Gujarat	Lucknow	Group	Gujarat	Field	
4	5	March 29,2022	Maharashtra Cricket Association Stadium,Pune	Hyderabad	Rajasthan	Group	Hyderabad	Field	
...	...	...	...	...	...	...	...	...	
69	70	May 22,2022	Wankhede Stadium, Mumbai	Hyderabad	Punjab	Group	Hyderabad	Bat	
70	71	May 24,2022	Eden Gardens, Kolkata	Gujarat	Rajasthan	Playoff	Gujarat	Field	
71	72	May 25,2022	Eden Gardens, Kolkata	Banglore	Lucknow	Playoff	Lucknow	Field	
72	73	May 27,2022	Narendra Modi Stadium, Ahmedabad	Banglore	Rajasthan	Playoff	Rajasthan	Field	
73	74	May 29,2022	Narendra Modi Stadium, Ahmedabad	Gujarat	Rajasthan	Final	Rajasthan	Bat	

74 rows × 20 columns

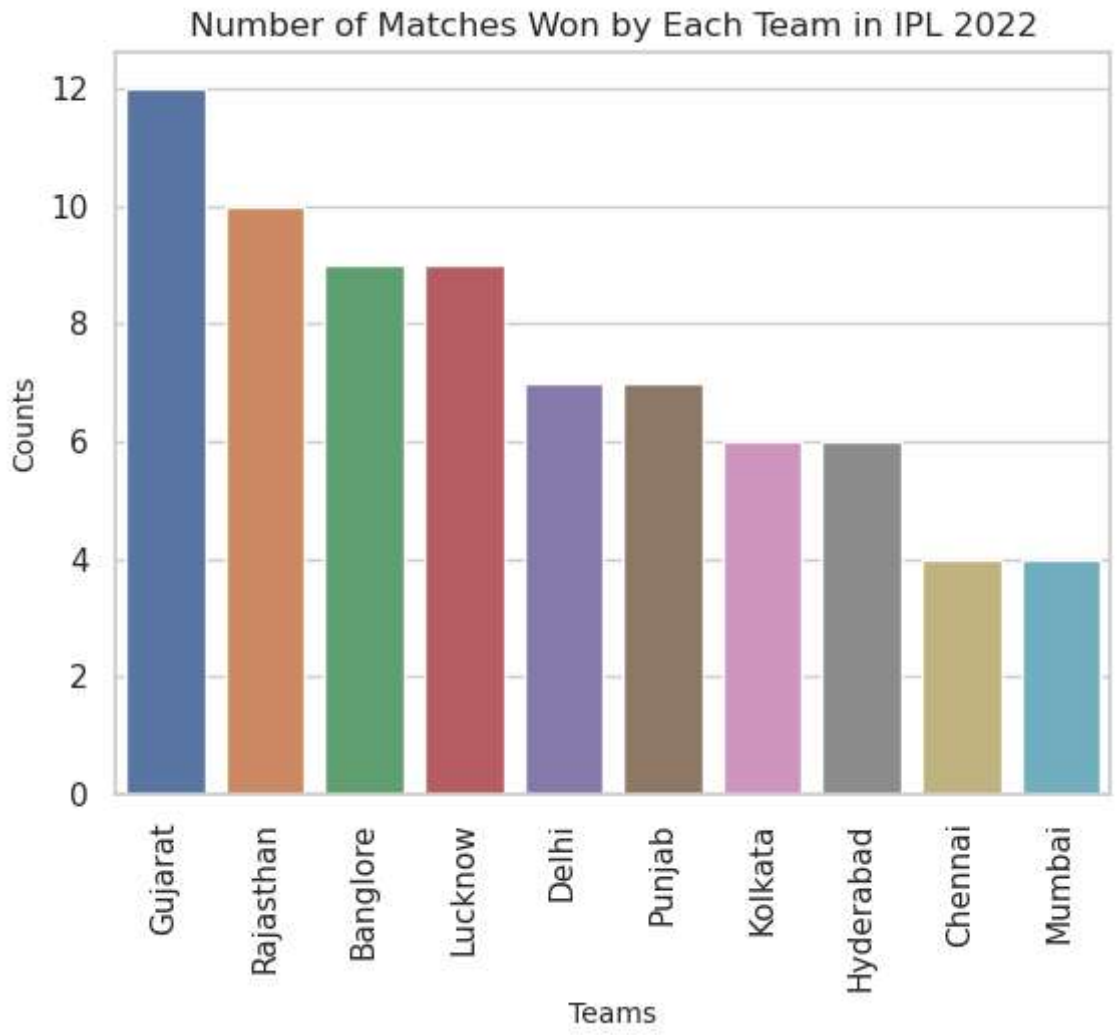
In [3]:
```
#Number of matches won by each team in IPL 2022
```

In [4]:
```
match_won = df["match_winner"].value_counts()
print(match_won)
```

```
Gujarat      12
Rajasthan    10
Banglore      9
Lucknow       9
Delhi         7
Punjab        7
Kolkata       6
Hyderabad     6
Chennai       4
Mumbai        4
Name: match_winner, dtype: int64
```

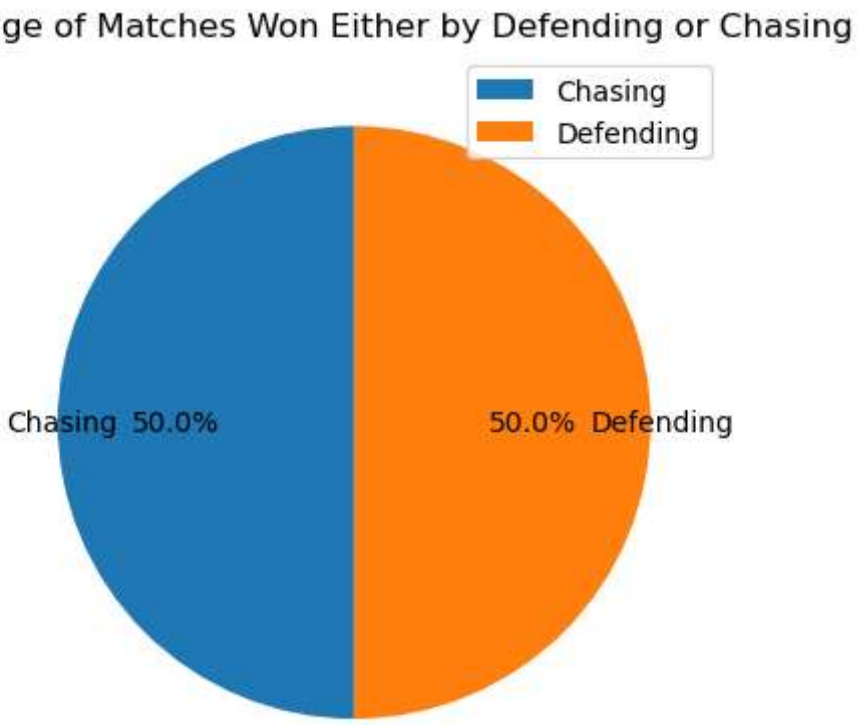
In [5]:
```
#Bar Graph showing Number of Matches Won by each team in IPL 2022
```

In [23]:
```
sns.barplot(x = match_won.index, y = match_won.values)
plt.title("Number of Matches Won by Each Team in IPL 2022")
plt.xticks(rotation = 90)
plt.xlabel("Teams", fontsize = 10)
plt.ylabel("Counts", fontsize = 10)
plt.show()
```



In [7]:
```
#Pie Plot Showing percentage of matches won while defending or chasing
```

In [8]:
```
df["won_by"] = df["won_by"].map({"Wickets" :"Chasing", "Runs" : "Defending"})

won_by = df["won_by"].value_counts()
label = won_by.index
counts = won_by.values



plt.title("Percentage of Matches Won Either by Defending or Chasing")



plt.pie(counts, labels = label, autopct = "%0.1f%%",  labeldistance = 0.8, startang

plt.legend()

plt.show()
```



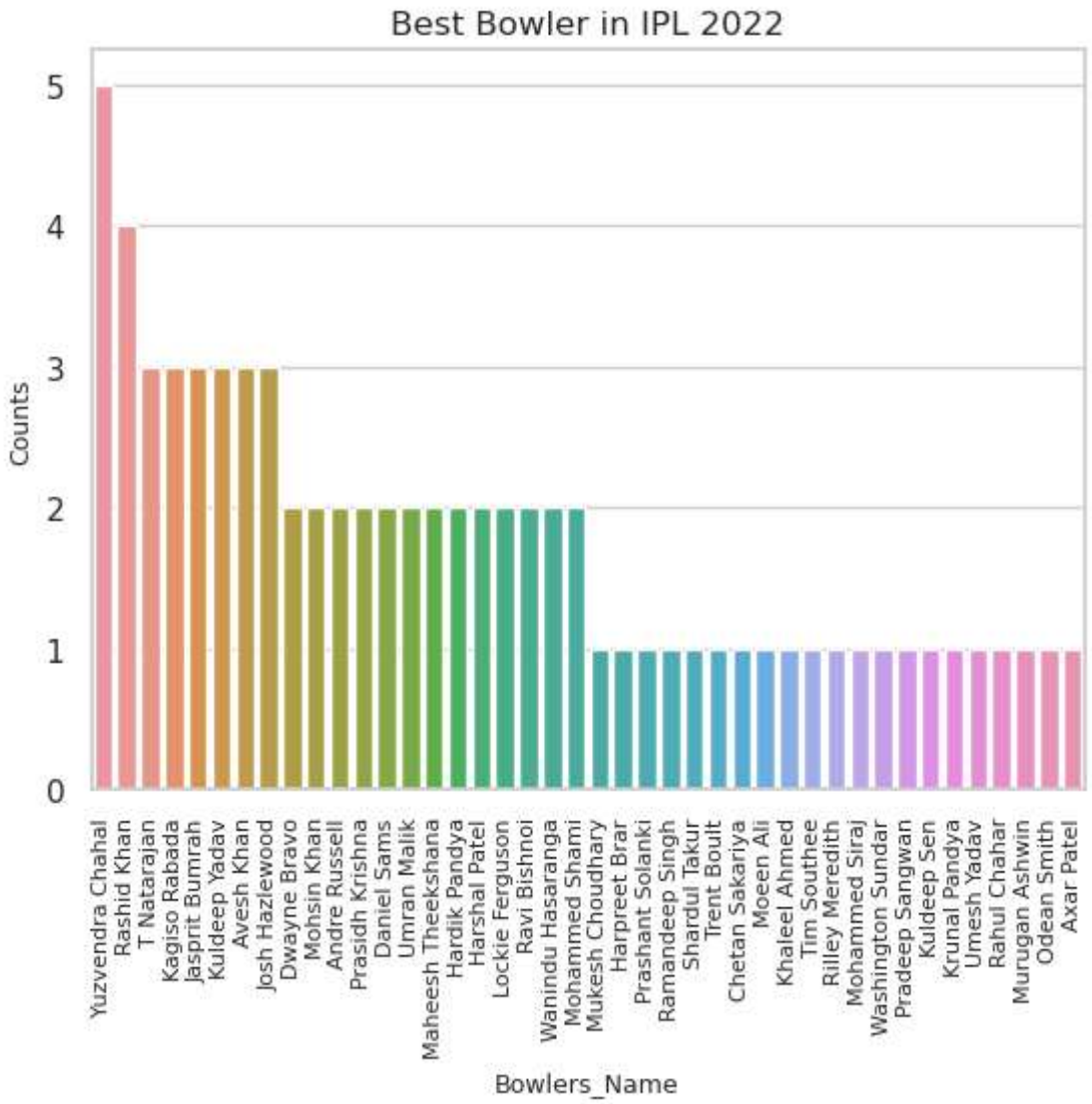
In [ ]:
```
#Best Bowler in IPL 2022
```

In [10]:
```
best_bowler = df["best_bowling"].value_counts()
print(best_bowler)
```

```
Yuzvendra Chahal      5
Rashid Khan           4
T Natarajan           3
Kagiso Rabada         3
Jasprit Bumrah        3
Kuldeep Yadav         3
Avesh Khan            3
Josh Hazlewood        3
Dwayne Bravo          2
Mohsin Khan           2
Andre Russell         2
Prasidh Krishna       2
Daniel Sams           2
Umran Malik           2
Maheesh Theekshana    2
Hardik Pandya         2
Harshal Patel         2
Lockie Ferguson       2
Ravi Bishnoi          2
Wanindu Hasaranga     2
Mohammed Shami        2
Mukesh Choudhary      1
Harpreet Brar         1
Prashant Solanki      1
Ramandeep Singh       1
Shardul Takur         1
Trent Boult           1
Chetan Sakariya       1
Moeen Ali             1
Khaleel Ahmed         1
Tim Southee           1
Rilley Meredith       1
Mohammed Siraj        1
Washington Sundar     1
Pradeep Sangwan       1
Kuldeep Sen           1
Krunal Pandya         1
Umesh Yadav           1
Rahul Chahar          1
Murugan Ashwin        1
Odean Smith           1
Axar Patel            1
Name: best_bowling, dtype: int64
```

In [11]:
```
#Bar Graph showing best bowler in IPL 2022
```

In [21]:
```
sns.barplot(x = best_bowler.index , y = best_bowler.values)
plt.title("Best Bowler in IPL 2022")
plt.xticks(rotation = 90, fontsize = 8)
plt.ylabel("Counts", fontsize = 9)
plt.xlabel("Bowlers_Name", fontsize = 9)
plt.show()
```



In [ ]:
```
#Player of the Match
```

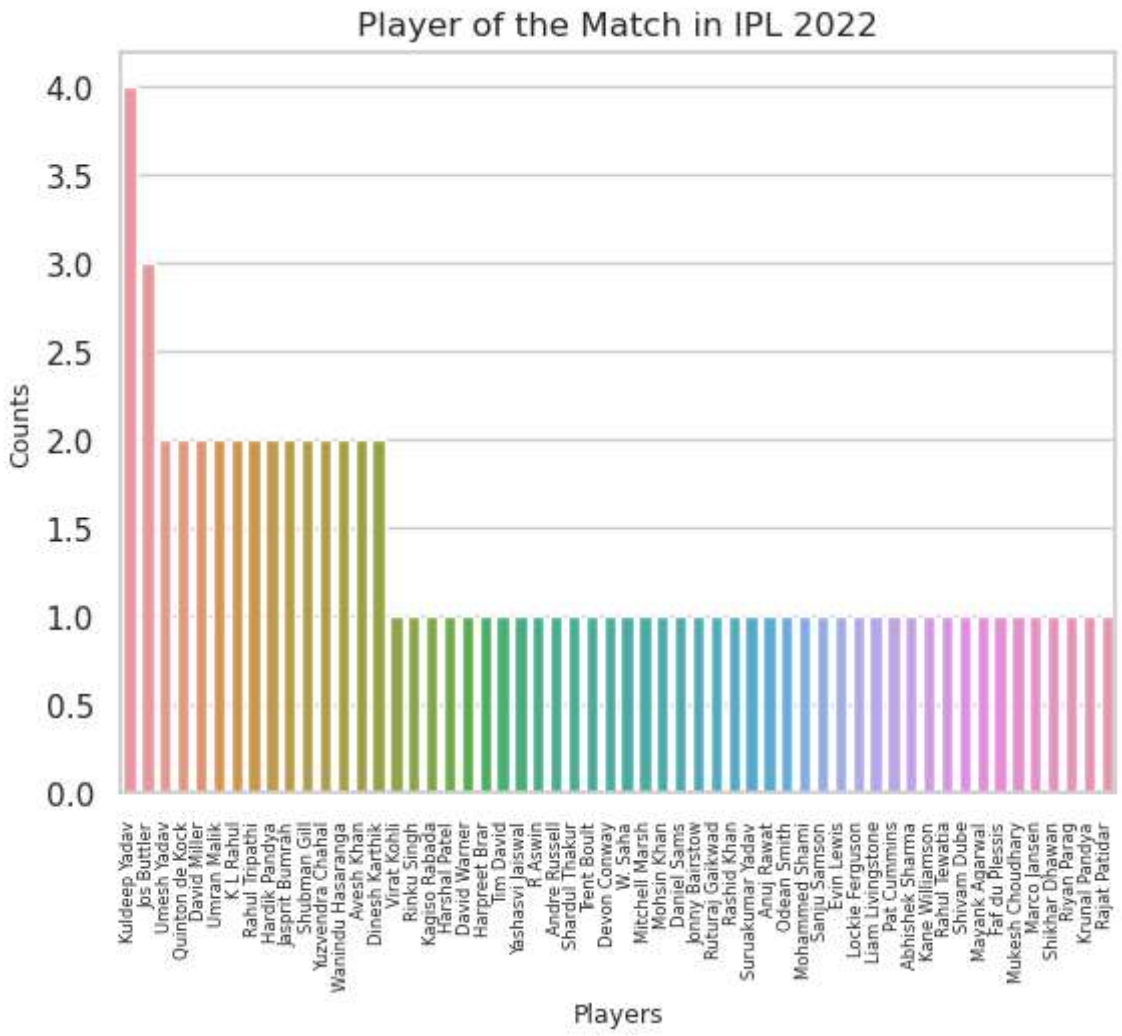
In [24]:
```
player_of_the_match = df["player_of_the_match"].value_counts()
print(player_of_the_match)
```

Kuldeep Yadav	4
Jos Buttler	3
Umesh Yadav	2
Quinton de Kock	2
David Miller	2
Umran Malik	2
K L Rahul	2
Rahul Tripathi	2
Hardik Pandya	2
Jasprit Bumrah	2
Shubman Gill	2
Yuzvendra Chahal	2
Wanindu Hasaranga	2
Avesh Khan	2
Dinesh Karthik	2
Virat Kohli	1
Rinku Singh	1
Kagiso Rabada	1
Harshal Patel	1
David Warner	1
Harpreet Brar	1
Tim David	1
Yashasvi Jaiswal	1
R Aswin	1
Andre Russell	1
Shardul Thakur	1
Trent Boult	1
Devon Conway	1
W. Saha	1
Mitchell Marsh	1
Mohsin Khan	1
Daniel Sams	1
Jonny Bairstow	1
Ruturaj Gaikwad	1
Rashid Khan	1
Suruakumar Yadav	1
Anuj Rawat	1
Odean Smith	1
Mohammed Shami	1
Sanju Samson	1
Evin Lewis	1
Lockie Ferguson	1
Liam Livingstone	1
Pat Cummins	1
Abhishek Sharma	1
Kane Williamson	1
Rahul Tewatia	1
Shivam Dube	1
Mayank Agarwal	1
Faf du Plessis	1
Mukesh Choudhary	1
Marco Jansen	1
Shikhar Dhawan	1
Riyan Parag	1
Krunal Pandya	1

```
Rajat Patidar        1
Name: player_of_the_match, dtype: int64
```

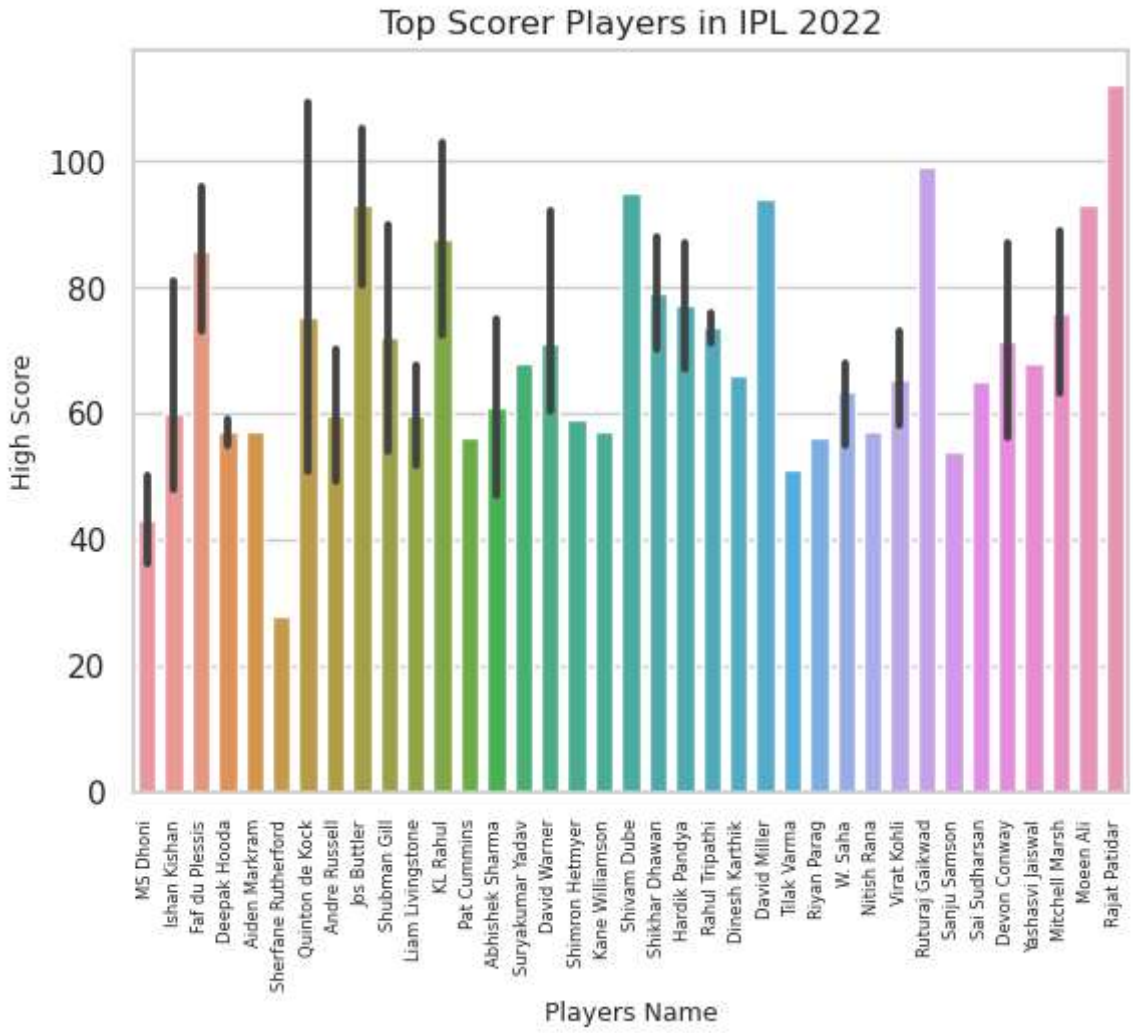
In [ ]:
```
#Bar Graph showing player of the match in IPL 2022
```

In [31]:
```
sns.barplot(x = player_of_the_match.index , y = player_of_the_match.values, width =
plt.title("Player of the Match in IPL 2022")
plt.xticks(rotation = 90, fontsize = 6)
plt.ylabel("Counts", fontsize = 9)
plt.xlabel("Players", fontsize = 9)
plt.show()
```



In [ ]:
```
#Bar Graph showing Top Scorer Players in IPL 2022
```

In [33]:
```
sns.barplot(x = df.top_scorer , y = df.highscore, width = 0.7)
plt.title("Top Scorer Players in IPL 2022")
plt.xticks(rotation = 90, fontsize = 6)
plt.ylabel("High Score", fontsize = 9)
plt.xlabel("Players Name", fontsize = 9)
plt.show()
```


Top Scorer Players in IPL 2022
High Score
0
20
40
60
80
100
MS Dhoni
Ishan Kishan
Faf du Plessis
Deepak Hooda
Aiden Markram
Sherfane Rutherford
Quinton de Kock
Andre Russell
Jos Buttler
Shubman Gill
Liam Livingstone
KL Rahul
Pat Cummins
Abhishek Sharma
Suryakumar Yadav
David Warner
Shimron Hetmyer
Kane Williamson
Shivam Dube
Shikhar Dhawan
Hardik Pandya
Rahul Tripathi
Dinesh Karthik
David Miller
Tilak Varma
Riyan Parag
W. Saha
Nitish Rana
Virat Kohli
Ruturaj Gaikwad
Sanju Samson
Sai Sudharsan
Devon Conway
Yashasvi Jaiswal
Mitchell Marsh
Moeen Ali
Rajat Patidar
Players Name