

ipl data Analysis Project

In [21]:

```
import pandas as pd
import plotly.express as px
import plotly.graph_objects as go;
```

In [22]:

```
data=pd.read_csv(("C:\\Users\\alamm\\Downloads\\IPL 2022.csv.csv"))
```

In [23]:

```
data
```

Out[23]:

	match_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	margin	player_of_the_match	top_scorer	highscore	best_bowling	best_bowling_figure	
	0	1	March 26,2022	Wankhede Stadium, Mumbai	Chennai	Kolkata	Group	Kolkata	Field	131	5	133	4	Kolkata	Wickets	6	Umesh Yadav	MS Dhoni	50	Dwayne Bravo	3--20
	1	2	March 27,2022	Brabourne Stadium, Mumbai	Delhi	Mumbai	Group	Delhi	Field	177	5	179	6	Delhi	Wickets	4	Kuldeep Yadav	Ishan Kishan	81	Kuldeep Yadav	3--18
	2	3	March 27,2022	Dr DY Patil Sports Academy, Mumbai	Banglore	Punjab	Group	Punjab	Field	205	2	208	5	Punjab	Wickets	5	Odean Smith	Faf du Plessis	88	Mohammed Siraj	2--59
	3	4	March 28,2022	Wankhede Stadium, Mumbai	Gujarat	Lucknow	Group	Gujarat	Field	158	6	161	5	Gujarat	Wickets	5	Mohammed Shami	Deepak Hooda	55	Mohammed Shami	3--25
	4	5	March 29,2022	Maharashtra Cricket Association Stadium,Pune	Hyderabad	Rajasthan	Group	Hyderabad	Field	210	6	149	7	Rajasthan	Runs	61	Sanju Samson	Aiden Markram	57	Yuzvendra Chahal	3--22
...
	69	70	May 22,2022	Wankhede Stadium, Mumbai	Hyderabad	Punjab	Group	Hyderabad	Bat	157	8	160	5	Punjab	Wickets	5	Harpreet Brar	Liam Livingstone	49	Harpreet Brar	3--26
	70	71	May 24,2022	Eden Gardens, Kolkata	Gujarat	Rajasthan	Playoff	Gujarat	Field	188	6	191	3	Gujarat	Wickets	7	David Miller	Jos Buttler	89	Hardik Pandya	1--14
	71	72	May 25,2022	Eden Gardens, Kolkata	Banglore	Lucknow	Playoff	Lucknow	Field	207	4	193	6	Banglore	Runs	14	Rajat Patidar	Rajat Patidar	112	Josh Hazlewood	3--43
	72	73	May 27,2022	Narendra Modi Stadium, Ahmedabad	Banglore	Rajasthan	Playoff	Rajasthan	Field	157	8	161	3	Rajasthan	Wickets	7	Jos Buttler	Jos Buttler	106	Prasidh Krishna	3--22
	73	74	May 29,2022	Narendra Modi Stadium, Ahmedabad	Gujarat	Rajasthan	Final	Rajasthan	Bat	130	9	133	3	Gujarat	Wickets	7	Hardik Pandya	Shubman Gill	45	Hardik Pandya	3--17

74 rows × 20 columns

Number of matches won by each tean in ipl 2022

In [24]:

```
figure=px.bar(data,x=data['match_winner'], title="Number of Matches won in ipl 2022")
figure.show()
```

In [25]:

```
data['won_by']=data['won_by'].map({'Wickets':'Chasing','Runs':'Defending'})
won_by=data['won_by'].value_counts()
label=won_by.index
counts=won_by.values
colors=['red','lightgreen']
fig=go.Figure(data=[go.Pie(labels=label,values=counts)])
fig.update_layout(title_text="Number of matches won by defending or chasing")
fig.update_traces(hoverinfo='label+percent',textinfo='value',textfont_size=30,marker=dict(colors=colors,line=dict(color='black',width=3)))
```

In [26]:

```
figure=px.bar(data,x=data['best_bowling'],title='Best Bowler in IPL 2022')
figure.show()
```

In [30]:

```
figure=px.bar(data,x=['player_of_the_match'],title='Most Player of the Match Award in IPL 2022')
figure.show()
```

top Scorer in IPL 2022

In [32]:

```
figure=px.bar(data,x=data['top_scorer'],y=data['highscore'],color=data['highscore'],title="Top Scorers in IPL 2022")
figure.show()
```

In [33]:

```
figure=px.bar(data,x=['toss_winner'],title='Most team toss winner in ipl 2022')
figure.show()
```

In []: