IPL - 2022 Analysis

In [92]:
```
# importing the required libraries

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

In [91]:
```
# loaded the dataset

data = pd.read_csv('IPL 2022.csv.csv')
```

In [86]:
```
data.head(2)
```

Out[86]:

	match_id	date	venue	team1	team2	stage	toss_winner	toss_decision	t
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	

Number of matches won by each team in ipl 2022

In [95]:
```
figure = px.bar(
    x = data["match_winner"].value_counts().index,
    y = data["match_winner"].value_counts(),
    color = data["match_winner"].value_counts().index,
    title = "Number of matches won by each team"
)
figure.show()
```

In [93]:
```
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 = ['#cdb4db','#a2d2ff']

chart = go.Figure(data=[go.Pie(labels = label,
                               values = counts)]
)
chart.update_layout(title_text = "Number of matches won by defending or chasing"
chart.update_traces(hoverinfo = 'label+percent',
                    textinfo = 'value',
                    textfont_size = 30,
                    marker = dict(
                        colors = colors, line = dict(color = 'black', width = 3)
chart.show()
```

In [20]:
```
figure = px.bar(
    x =  data["best_bowling"].value_counts().index,
    y = data["best_bowling"].value_counts(),
    color = data["best_bowling"].value_counts(),
    title = "Best Blowers in IPL 2022"
)
figure.update_xaxes(title_text = "Player Names")
figure.show()
```

In [41]:
```
figure = px.bar(
    x = data["player_of_the_match"].value_counts().index,
    y = data["player_of_the_match"].value_counts(),
    color = data["player_of_the_match"].value_counts().index
    title = "Most Player of the Match titles"
)
figure.show()
```

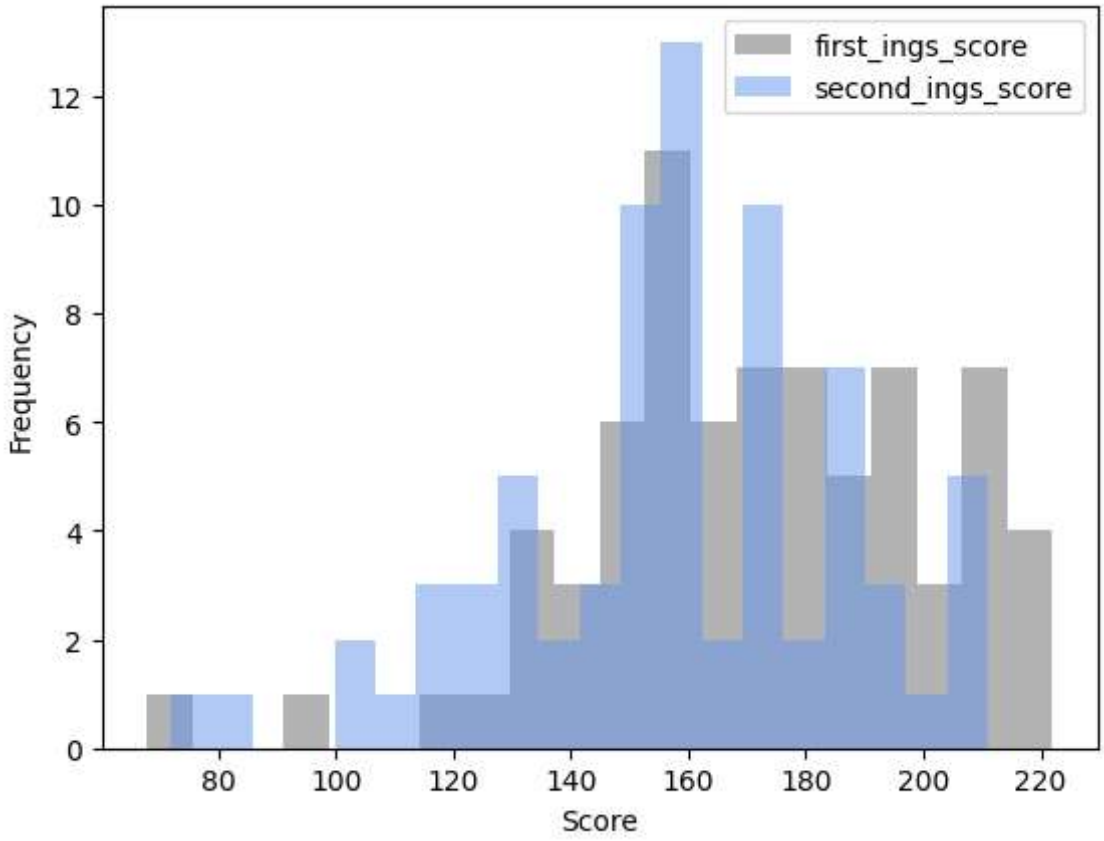
Top run scorer in IPL 2022

In [96]:
```
figure = px.bar(
    data,
    x = data["top_scorer"],
    y = data["highscore"],
    color = data["highscore"],
    title = "Top Run Scorer's"
)
figure.show()
```

In [45]:
```
import matplotlib.pyplot as plt
import seaborn as sns
```

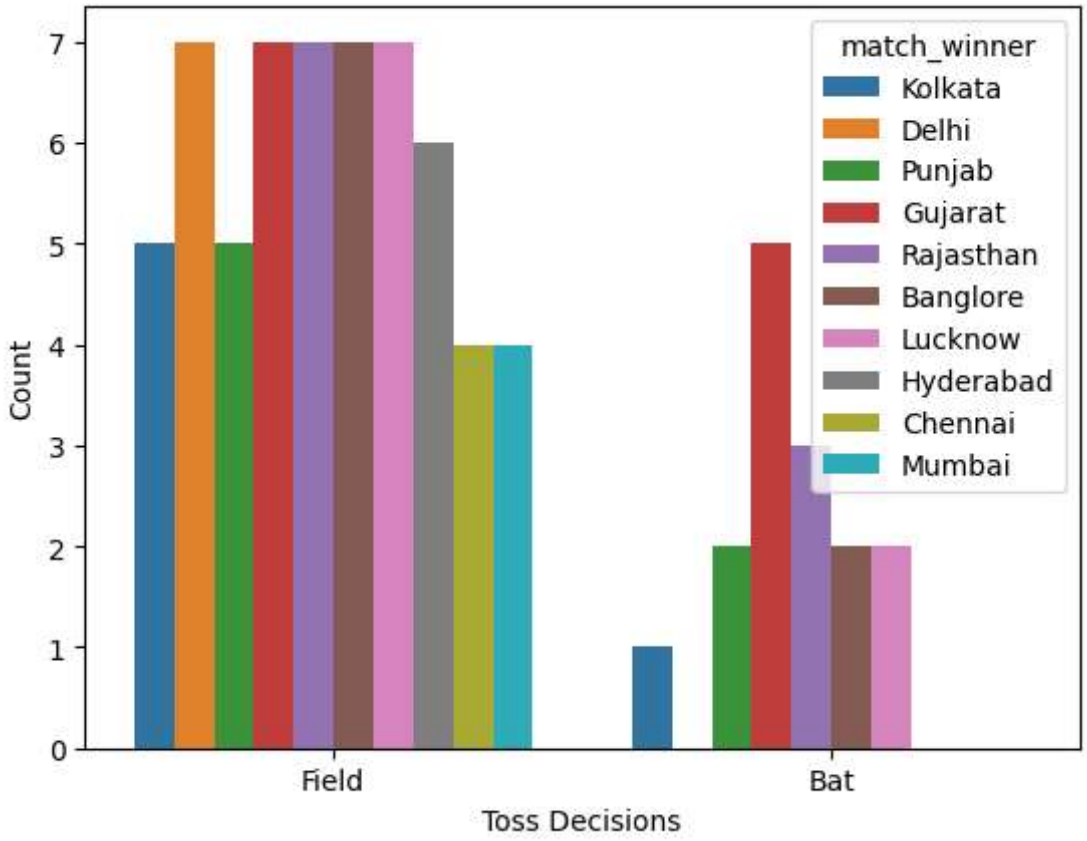
Distribution of score among first innings and second innings score

In [46]:
```
figure = plt.hist(
    data["first_ings_score"],
    bins = 20,
    color = "dimgray",
    alpha=0.5,
    label = "first_ings_score"
)
plt.hist(
    data["second_ings_score"],
    bins = 20,
    color = "cornflowerblue",
    alpha=0.5,
    label = "second_ings_score"
)
plt.xlabel("Score")
plt.ylabel("Frequency")
plt.legend()
plt.show()
```



Toss Analysis

In [98]:
```
sns.countplot(
    x = "toss_decision",
    data = data,
    hue = "match_winner"
)
plt.xlabel("Toss Decisions")
plt.ylabel("Count")
plt.show()
```


match_winner
Kolkata
Delhi
Punjab
Gujarat
Rajasthan
Banglore
Lucknow
Hyderabad
Chennai
Mumbai
Count
0
1
2
3
4
5
6
7
Field
Bat
Toss Decisions

In [ ]: