

Importing Libraries

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

Importing Data as csv file

```
In [ ]: deliveries_data = pd.read_csv(r'C:\Aabid Study\LEARNING DATA SCIENCE\Projects\IPL D
match_data = pd.read_csv(r'C:\Aabid Study\LEARNING DATA SCIENCE\Projects\IPL Data A
```

Total Number of Matches

```
In [ ]: match_data.shape[0]
```

```
Out[ ]: 816
```

All the Stadium

```
In [ ]: match_data['venue'].unique()
```

```
Out[ ]: array(['M Chinnaswamy Stadium',
 'Punjab Cricket Association Stadium, Mohali', 'Feroz Shah Kotla',
 'Wankhede Stadium', 'Eden Gardens', 'Sawai Mansingh Stadium',
 'Rajiv Gandhi International Stadium, Uppal',
 'MA Chidambaram Stadium, Chepauk', 'Dr DY Patil Sports Academy',
 'Newlands', "St George's Park", 'Kingsmead', 'SuperSport Park',
 'Buffalo Park', 'New Wanderers Stadium', 'De Beers Diamond Oval',
 'OUTsurance Oval', 'Brabourne Stadium',
 'Sardar Patel Stadium, Motera', 'Barabati Stadium',
 'Vidarbha Cricket Association Stadium, Jamtha',
 'Himachal Pradesh Cricket Association Stadium', 'Nehru Stadium',
 'Holkar Cricket Stadium',
 'Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium',
 'Subrata Roy Sahara Stadium',
 'Shaheed Veer Narayan Singh International Stadium',
 'JSCA International Stadium Complex', 'Sheikh Zayed Stadium',
 'Sharjah Cricket Stadium', 'Dubai International Cricket Stadium',
 'Maharashtra Cricket Association Stadium',
 'Punjab Cricket Association IS Bindra Stadium, Mohali',
 'Saurashtra Cricket Association Stadium', 'Green Park',
 'M.Chinnaswamy Stadium'], dtype=object)
```

All The City

```
In [ ]: match_data['city'].unique()
```

```
Out[ ]: array(['Bangalore', 'Chandigarh', 'Delhi', 'Mumbai', 'Kolkata', 'Jaipur',  
   'Hyderabad', 'Chennai', 'Cape Town', 'Port Elizabeth', 'Durban',  
   'Centurion', 'East London', 'Johannesburg', 'Kimberley',  
   'Bloemfontein', 'Ahmedabad', 'Cuttack', 'Nagpur', 'Dharamsala',  
   'Kochi', 'Indore', 'Visakhapatnam', 'Pune', 'Raipur', 'Ranchi',  
   'Abu Dhabi', 'nan', 'Rajkot', 'Kanpur', 'Bengaluru', 'Dubai',  
   'Sharjah'], dtype=object)
```

All the Teams

```
In [ ]: match_data['team1'].unique()
```

```
Out[ ]: array(['Royal Challengers Bangalore', 'Kings XI Punjab',  
   'Delhi Daredevils', 'Mumbai Indians', 'Kolkata Knight Riders',  
   'Rajasthan Royals', 'Deccan Chargers', 'Chennai Super Kings',  
   'Kochi Tuskers Kerala', 'Pune Warriors', 'Sunrisers Hyderabad',  
   'Gujarat Lions', 'Rising Pune Supergiants',  
   'Rising Pune Supergiant', 'Delhi Capitals'], dtype=object)
```

Maximum toss winner team

```
In [ ]: match_data['toss_winner'].value_counts().index[0]
```

```
Out[ ]: 'Mumbai Indians'
```

Most Player of the match

```
In [ ]: match_data['player_of_match'].value_counts().index[0]
```

```
Out[ ]: 'AB de Villiers'
```

Runs Scored By Virat Kohli

```
In [ ]: deliveries_data['batsman'].unique()
```

```
Out[ ]: array(['RT Ponting', 'BB McCullum', 'DJ Hussey', 'Mohammad Hafeez',  

   'SC Ganguly', 'CL White', 'MV Boucher', 'B Akhil', 'AA Noffke',  

   'P Kumar', 'Z Khan', 'SB Joshi', 'W Jaffer', 'JH Kallis',  

   'R Dravid', 'V Kohli', 'K Goel', 'MEK Hussey', 'JR Hopes',  

   'SK Raina', 'JDP Oram', 'S Badrinath', 'PA Patel', 'ML Hayden',  

   'MS Dhoni', 'KC Sangakkara', 'Yuvraj Singh', 'SM Katich',  

   'IK Pathan', 'T Kohli', 'YK Pathan', 'S Dhawan', 'G Gambhir',  

   'SK Warne', 'D Salunkhe', 'SK Trivedi', 'V Sehwag', 'SR Watson',  

   'M Kaif', 'DS Lehmann', 'RA Jadeja', 'M Rawat', 'L Ronchi',  

   'ST Jayasuriya', 'DJ Thorne', 'RV Uthappa', 'PR Shah',  

   'AM Nayar', 'SM Pollock', 'Harbhajan Singh', 'S Chanderpaul',  

   'LRPL Taylor', 'WP Saha', 'AS Yadav', 'A Symonds', 'SB Bangar',  

   'WPUJC Vaas', 'RP Singh', 'AC Gilchrist', 'Y Venugopal Rao',  

   'VVS Laxman', 'RG Sharma', 'SB Styris', 'LR Shukla', 'PP Chawla',  

   'Kamran Akmal', 'DPMD Jayawardene', 'S Sohal', 'B Lee', 'WA Mota',  

   'Shahid Afridi', 'DJ Bravo', 'A Nehra', 'MA Khote', 'GC Smith',  

   'Pankaj Singh', 'S Sreesanth', 'VRV Singh', 'SS Tiwary',  

   'RR Sarwan', 'DS Kulkarni', 'R Vinay Kumar', 'M Kartik',  

   'I Sharma', 'AB Agarkar', 'AM Rahane', 'TM Srivastava',  

   'Shoaib Malik', 'MK Tiwary', 'KD Karthik', 'R Bhatia',  

   'MF Maharoof', 'VY Mahesh', 'B Chipli', 'DW Steyn', 'DB Das',  

   'MK Pandey', 'HH Gibbs', 'DNT Zoysa', 'D Kalyankrishna',  

   'SE Marsh', 'SA Asnodkar', 'BJ Hodge', 'Sohail Tanvir',  

   'Salman Butt', 'Umar Gul', 'AB Dinda', 'AB de Villiers',  

   'SP Fleming', 'S Vidyut', 'JA Morkel', 'LPC Silva', 'DB Ravi Teja',  

   'Misbah-ul-Haq', 'PJ Sangwan', 'YV Takawale', 'RR Raje',  

   'Mohammad Asif', 'GD McGrath', 'Joginder Sharma', 'MS Gony',  

   'M Muralitharan', 'M Ntini', 'DT Patil', 'A Kumble', 'S Anirudha',  

   'MM Patel', 'CK Kapugedera', 'A Chopra', 'T Taibu', 'J Arunkumar',  

   'PP Ojha', 'SP Goswami', 'SR Tendulkar', 'U Kaul', 'Niraj Patel',  

   'AD Mascarenhas', 'TM Dilshan', 'A Mishra', 'LA Pomersbach',  

   'Iqbal Abdulla', 'Younis Khan', 'PM Sarvesh Kumar',  

   'DP Vijaykumar', 'Shoaib Akhtar', 'Abdur Razzak', 'H Das',  

   'DR Smith', 'SD Chitnis', 'CRD Fernando', 'VS Yeligati',  

   'L Balaji', 'A Mukund', 'RR Powar', 'JP Duminy', 'A Flintoff',  

   'T Thushara', 'KP Pietersen', 'JD Ryder', 'T Henderson',  

   'Kamran Khan', 'RS Bopara', 'MC Henriques', 'CH Gayle',  

   'R Bishnoi', 'KV Sharma', 'FH Edwards', 'AS Raut', 'PC Valthaty',  

   'RJ Quiney', 'Yashpal Singh', 'M Manhas', 'AA Bilakhia',  

   'AN Ghosh', 'BAW Mendis', 'DL Vettori', 'MN van Wyk',  

   'RE van der Merwe', 'TL Suman', 'Shoaib Ahmed', 'GR Napier',  

   'KP Appanna', 'LA Carseldine', 'NV Ojha', 'SM Harwood', 'M Vijay',  

   'DA Warner', 'SB Jakati', 'RJ Harris', 'D du Preez', 'M Morkel',  

   'AD Mathews', 'SL Malinga', 'C Nanda', 'J Botha',  

   'Mashrafe Mortaza', 'A Singh', 'GJ Bailey', 'AB McDonald',  

   'Y Nagar', 'SS Shaikh', 'R Ashwin', 'Mohammad Ashraful',  

   'Jaskaran Singh', 'Anirudh Singh', 'CA Pujara', 'OA Shah',  

   'AP Tare', 'AT Rayudu', 'R Sathish', 'R McLaren',  

   'AA Jhunjhunwala', 'P Dogra', 'A Uniyal', 'MS Bisla', 'YA Abdulla',  

   'EJG Morgan', 'JM Kemp', 'S Tyagi', 'RS Gavaskar', 'SE Bond',  

   'S Ladda', 'DP Nannes', 'KA Pollard', 'DR Martyn', 'S Narwal',  

   'MJ Lumb', 'Bipul Sharma', 'AB Barath', 'FY Fazal', 'AC Voges',  

   'MD Mishra', 'UT Yadav', 'J Theron', 'SJ Srivastava', 'R Sharma',  

   'Mandeep Singh', 'KM Jadhav', 'SW Tait', 'KB Arun Karthik',  

   'KAJ Roach', 'PD Collingwood', 'CK Langeveldt', 'VS Malik',  

   'A Mithun', 'AP Dole', 'AN Ahmed', 'RS Sodhi', 'DE Bollinger',
```

'S Sriram', 'B Sumanth', 'C Madan', 'AG Paunikar', 'MR Marsh',
'AJ Finch', 'STR Binny', 'Harmeet Singh', 'IR Jaggi',
'DT Christian', 'MA Agarwal', 'RV Gomez', 'AUK Pathan',
'UBT Chand', 'DJ Jacobs', 'NJ Rimmington', 'Sunny Singh',
'AL Menaria', 'WD Parnell', 'JJ van der Wath', 'R Ninan',
'S Aravind', 'MS Wade', 'TD Paine', 'JEC Franklin', 'SB Wagh',
'AC Thomas', 'Shakib Al Hasan', 'DH Yagnik', 'S Randiv',
'BJ Haddin', 'NLTC Perera', 'NL McCullum', 'JE Taylor',
'J Syed Mohammad', 'RN ten Doeschate', 'TR Birt', 'AG Murtaza',
'Harpreet Singh', 'M Klinger', 'AC Blizzard', 'I Malhotra',
'L Ablish', 'CA Ingram', 'S Nadeem', 'P Parameswaran',
'CJ Ferguson', 'VR Aaron', 'AA Chavan', 'ND Doshi', 'B Kumar',
'Y Gnaneswara Rao', 'S Rana', 'BA Bhatt', 'F du Plessis',
'RE Levi', 'GJ Maxwell', 'SPD Smith', 'SA Yadav', 'MN Samuels',
'KK Cooper', 'JP Faulkner', 'HV Patel', 'DAJ Bracewell',
'DJ Harris', 'Ankit Sharma', 'SP Narine', 'GB Hogg', 'RR Bhatkal',
'CJ McKay', 'N Saini', 'DA Miller', 'Azhar Mahmood', 'P Negi',
'RJ Peterson', 'KMDN Kulasekara', 'A Ashish Reddy',
'V Pratap Singh', 'BB Samantray', 'MJ Clarke', 'Gurkeerat Singh',
'AP Majumdar', 'PA Reddy', 'K Upadhyay', 'P Awana', 'AD Russell',
'A Chandila', 'CA Lynn', 'Sunny Gupta', 'MC Juneja', 'KK Nair',
'GH Vihari', 'R Shukla', 'MDKJ Perera', 'AS Rajpoot', 'B Laughlin',
'M Vohra', 'JD Unadkat', 'Mohammed Shami', 'BMAJ Mendis',
'R Rampaul', 'CH Morris', 'SV Samson', 'SMSM Senanayake',
'BJ Rohrer', 'KL Rahul', 'Q de Kock', 'R Dhawan', 'MG Johnson',
'LJ Wright', 'IC Pandey', 'CM Gautam', 'X Thalaivan Sargunam',
'DJG Sammy', 'KW Richardson', 'MM Sharma', 'UA Birla',
'Parvez Rasool', 'Sandeep Sharma', 'S Kaul', 'Sachin Baby',
'PV Tambe', 'NM Coulter-Nile', 'CJ Anderson', 'NJ Maddinson',
'AR Patel', 'JJ Bumrah', 'JDS Neesham', 'TG Southee', 'MA Starc',
'BR Dunk', 'RR Rossouw', 'Shivam Sharma', 'YS Chahal',
'LMP Simmons', 'VH Zol', 'Imran Tahir', 'BCJ Cutting',
'BE Hendricks', 'S Gopal', 'M de Lange', 'R Tewatia', 'JO Holder',
'Karanveer Singh', 'SS Iyer', 'DJ Hooda', 'Anureet Singh',
'KS Williamson', 'SA Abbott', 'J Suchith', 'RG More', 'D Wiese',
'HH Pandya', 'SN Khan', 'MJ McClenaghan', 'DJ Muthuswami',
'PJ Cummins', 'SN Thakur', 'JC Buttler', 'CR Brathwaite',
'MP Stoinis', 'Ishan Kishan', 'C Munro', 'P Sahu', 'KH Pandya',
'AD Nath', 'MJ Guptill', 'KJ Abbott', 'TM Head', 'M Ashwin',
'NS Naik', 'RR Pant', 'SW Billings', 'KC Cariappa',
'PSP Handscomb', 'Swapnil Singh', 'J Yadav', 'UT Khawaja',
'HM Amla', 'F Behardien', 'A Zampa', 'BB Sran', 'N Rana',
'S Kaushik', 'ER Dwivedi', 'CJ Jordan', 'A Choudhary', 'TS Mills',
'BA Stokes', 'JJ Roy', 'Vishnu Vinod', 'Basil Thampi', 'CR Woakes',
'RA Tripathi', 'DL Chahar', 'V Shankar', 'Rashid Khan',
'LH Ferguson', 'RD Chahar', 'C de Grandhomme', 'AF Milne',
'S Badree', 'Mohammad Nabi', 'AJ Tye', 'K Rabada', 'Kuldeep Yadav',
'Washington Sundar', 'DM Bravo', 'AR Bawne', 'SP Jackson',
'Ankit Soni', 'TA Boult', 'E Lewis', 'MA Wood', 'RK Singh',
'DJM Short', 'K Gowtham', 'TK Curran', 'M Markande', 'B Stanlake',
'Mujeeb Ur Rahman', 'A Dananjaya', 'Shivam Mavi', 'Shubman Gill',
'Mohammed Siraj', 'H Klaasen', 'RK Bhui', 'JC Archer', 'PP Shaw',
'LE Plunkett', 'Mustafizur Rahman', 'AD Hales', 'MK Lomror',
'DR Shorey', 'MM Ali', 'M Prasidh Krishna', 'P Chopra',
'JPR Scantlebury-Searles', 'Abhishek Sharma', 'IS Sodhi',
'SO Hetmyer', 'S Dube', 'NA Saini', 'JM Bairstow', 'Rasikh Salam',

```
'KMA Paul', 'N Pooran', 'P Ray Barman', 'S Lamichhane',
'SM Curran', 'GC Viljoen', 'Avesh Khan', 'HF Gurney', 'SD Lad',
'AS Joseph', 'MJ Santner', 'R Parag', 'JL Denly', 'LS Livingstone',
'KK Ahmed', 'AJ Turner', 'SE Rutherford', 'Harpreet Brar',
'Y Prithvi Raj', 'P Simran Singh', 'JL Pattinson', 'A Nortje',
'T Banton', 'D Padikkal', 'YBK Jaiswal', 'RD Gaikwad',
'TU Deshpande', 'Abdul Samad', 'PK Garg', 'JR Philippe',
'Kartik Tyagi', 'CV Varun', 'KL Nagarkoti', 'I Udana',
'Ravi Bishnoi', 'Shahbaz Ahmed', 'AT Carey', 'N Jagadeesan',
'T Natarajan', 'P Dubey', 'SS Cottrell', 'Arshdeep Singh',
'DR Sams'], dtype=object)
```

```
In [ ]: filt = deleveries_data['batsman']=='V Kohli'
```

```
In [ ]: df_kholi = deleveries_data[filt]
```

```
In [ ]: df_kholi['dismissal_kind'].value_counts()
```

```
Out[ ]: dismissal_kind
caught              105
bowled               30
run out              15
lbw                  7
stumped               3
caught and bowled      3
Name: count, dtype: int64
```

```
In [ ]: len(df_kholi[df_kholi['batsman_runs']==1])
```

```
Out[ ]: 1919
```

```
In [ ]: len(df_kholi[df_kholi['batsman_runs']==2])*2
```

```
Out[ ]: 692
```

```
In [ ]: len(df_kholi[df_kholi['batsman_runs']==3])*3
```

```
Out[ ]: 39
```

```
In [ ]: len(df_kholi[df_kholi['batsman_runs']==4])*4
```

```
Out[ ]: 2016
```

```
In [ ]: len(df_kholi[df_kholi['batsman_runs']==6])*6
```

```
Out[ ]: 1212
```

```
In [ ]: import plotly.express as px
import plotly.graph_objs as go
from plotly.offline import init_notebook_mode, plot, iplot
init_notebook_mode(connected=True)
```

```
In [ ]: values=[1919,692,39,2016,1212]
labels=[1,2,3,4,6]
trace = go.Pie(labels=labels, values=values, hole=0.3)
data = [trace]
fig = go.Figure(data = data)
```

```
In [ ]: fig.show()
```



Toss Decisions per year

```
In [ ]: match_data['Season'] = pd.to_datetime(match_data['date']).dt.year
```

```
In [ ]: match_data.groupby(['Season', 'toss_decision']).size()
```

```
Out[ ]: Season  toss_decision
2008    bat        26
          field      32
2009    bat        35
          field      22
2010    bat        39
          field      21
2011    bat        25
          field      48
2012    bat        37
          field      37
2013    bat        45
          field      31
2014    bat        19
          field      41
2015    bat        25
          field      34
2016    bat        11
          field      49
2017    bat        11
          field      48
2018    bat        10
          field      50
2019    bat        10
          field      50
2020    bat        27
          field      33
dtype: int64
```

```
In [ ]: type(match_data.groupby(['Season', 'toss_decision']).size())
```

```
Out[ ]: pandas.core.series.Series
```

```
In [ ]: season_toss_count_df = match_data.groupby(['Season', 'toss_decision']).size().reset_
```

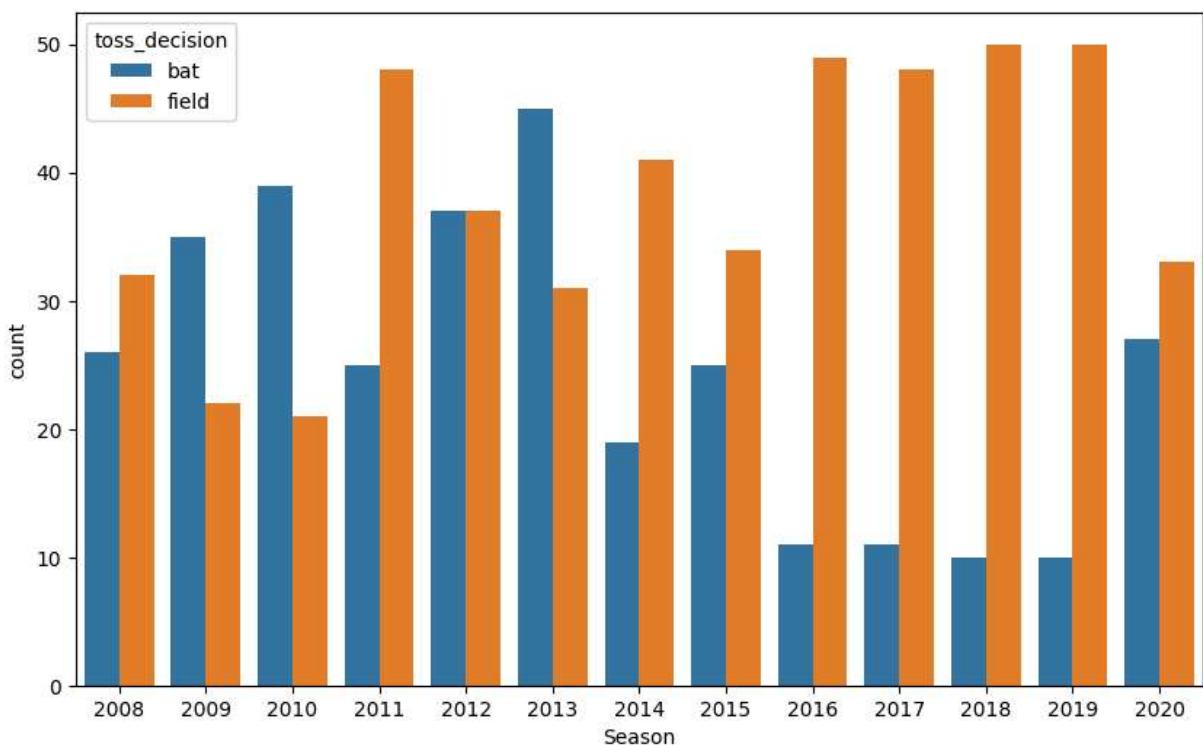
```
In [ ]: season_toss_count_df
```

Out[]:

	Season	toss_decision	count
0	2008	bat	26
1	2008	field	32
2	2009	bat	35
3	2009	field	22
4	2010	bat	39
5	2010	field	21
6	2011	bat	25
7	2011	field	48
8	2012	bat	37
9	2012	field	37
10	2013	bat	45
11	2013	field	31
12	2014	bat	19
13	2014	field	41
14	2015	bat	25
15	2015	field	34
16	2016	bat	11
17	2016	field	49
18	2017	bat	11
19	2017	field	48
20	2018	bat	10
21	2018	field	50
22	2019	bat	10
23	2019	field	50
24	2020	bat	27
25	2020	field	33

In []: `plt.figure(figsize=(10,6))
sns.barplot(x= 'Season', y = 'count', hue='toss_decision',data=season_toss_count_df)`

Out[]: <Axes: xlabel='Season', ylabel='count'>



Q Does winning toss implies winning game?

```
In [ ]: match_data['toss_win_game_win'] = np.where(match_data['toss_winner']==match_data['w
In [ ]: match_data['toss_win_game_win'].value_counts()
Out[ ]: toss_win_game_win
Yes      418
No      398
Name: count, dtype: int64
In [ ]: match_data['toss_win_game_win'].value_counts().index
Out[ ]: Index(['Yes', 'No'], dtype='object', name='toss_win_game_win')
In [ ]: match_data['toss_win_game_win'].value_counts().values
Out[ ]: array([418, 398])
In [ ]: values=match_data['toss_win_game_win'].value_counts().values
labels=match_data['toss_win_game_win'].value_counts().index
trace = go.Pie(labels=labels, values=values, hole=0.3)
data = [trace]
fig = go.Figure(data = data)
fig.update_traces(hoverinfo='label+percent', textinfo='label+percent')
```



Number of times team have won the tournament

```
In [ ]: match_data['Season'].unique()
```

```
Out[ ]: array([2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020], dtype=int32)
```

```
In [ ]: df_2018 = match_data[match_data['Season']==2018]
```

```
In [ ]: df_2018['winner'].tail(1).values[0]
```

```
Out[ ]: 'Chennai Super Kings'
```

```
In [ ]: winner_team = {}
for year in sorted(match_data['Season'].unique()):
    current_year_df = match_data[match_data['Season'] == year]
    winner_team[year] = current_year_df['winner'].tail(1).values[0]
```

```
In [ ]: winner_team
```

```
Out[ ]: {np.int32(2008): 'Rajasthan Royals',
         np.int32(2009): 'Deccan Chargers',
         np.int32(2010): 'Chennai Super Kings',
         np.int32(2011): 'Chennai Super Kings',
         np.int32(2012): 'Kolkata Knight Riders',
         np.int32(2013): 'Mumbai Indians',
         np.int32(2014): 'Kolkata Knight Riders',
         np.int32(2015): 'Mumbai Indians',
         np.int32(2016): 'Sunrisers Hyderabad',
         np.int32(2017): 'Mumbai Indians',
         np.int32(2018): 'Chennai Super Kings',
         np.int32(2019): 'Mumbai Indians',
         np.int32(2020): 'Mumbai Indians'}
```

```
In [ ]: from collections import Counter
Counter(winner_team.values())
```

```
Out[ ]: Counter({'Mumbai Indians': 5,
                  'Chennai Super Kings': 3,
                  'Kolkata Knight Riders': 2,
                  'Rajasthan Royals': 1,
                  'Deccan Chargers': 1,
                  'Sunrisers Hyderabad': 1})
```

Most number of wins

```
In [ ]: matches_played = match_data['team1'].value_counts() + match_data['team2'].value_counts()
```

```
In [ ]: type(matches_played)
```

```
Out[ ]: pandas.core.series.Series
```

```
In [ ]: matches_played_df = matches_played.to_frame().reset_index()
```

```
In [ ]: matches_played_df.columns = ['team_name', 'Matches_played']
```

```
In [ ]: matches_played_df
```

Out[]:

	team_name	Matches_played
0	Chennai Super Kings	178
1	Deccan Chargers	75
2	Delhi Capitals	33
3	Delhi Daredevils	161
4	Gujarat Lions	30
5	Kings XI Punjab	190
6	Kochi Tuskers Kerala	14
7	Kolkata Knight Riders	192
8	Mumbai Indians	203
9	Pune Warriors	46
10	Rajasthan Royals	161
11	Rising Pune Supergiant	16
12	Rising Pune Supergiants	14
13	Royal Challengers Bangalore	195
14	Sunrisers Hyderabad	124

```
In [ ]: wins = pd.DataFrame(match_data['winner'].value_counts()).reset_index()
```

```
In [ ]: wins.columns = ['team_name', 'Wins']
```

```
In [ ]: wins
```

Out[]:

	team_name	Wins
0	Mumbai Indians	120
1	Chennai Super Kings	106
2	Kolkata Knight Riders	99
3	Royal Challengers Bangalore	91
4	Kings XI Punjab	88
5	Rajasthan Royals	81
6	Delhi Daredevils	67
7	Sunrisers Hyderabad	66
8	Deccan Chargers	29
9	Delhi Capitals	19
10	Gujarat Lions	13
11	Pune Warriors	12
12	Rising Pune Supergiant	10
13	Kochi Tuskers Kerala	6
14	Rising Pune Supergiants	5

In []: played = matches_played_df.merge(wins, on = 'team_name', how='inner')

In []: played

Out[]:

	team_name	Matches_played	Wins
0	Chennai Super Kings	178	106
1	Deccan Chargers	75	29
2	Delhi Capitals	33	19
3	Delhi Daredevils	161	67
4	Gujarat Lions	30	13
5	Kings XI Punjab	190	88
6	Kochi Tuskers Kerala	14	6
7	Kolkata Knight Riders	192	99
8	Mumbai Indians	203	120
9	Pune Warriors	46	12
10	Rajasthan Royals	161	81
11	Rising Pune Supergiant	16	10
12	Rising Pune Supergiants	14	5
13	Royal Challengers Bangalore	195	91
14	Sunrisers Hyderabad	124	66

In []:

```
import plotly.graph_objects as go

trace1 = go.Bar(
    x = played['team_name'],
    y = played['Matches_played'],
    name = 'Total Matches'
)
trace2 = go.Bar(
    x = played['team_name'],
    y = played['Wins'],
    name = 'Matches won'
)
data = [trace1, trace2]

fig = go.Figure(data=data)
fig.show()
```

