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Premier League data Plotted using APis

Using an api from football-data.org, with auth token: de27c6f949e040418ee4fcb5206ca657 I have plotted data from that api, getting tables and sorting them

```
import requests
url = "https://api.football-data.org/v4/competitions/PL/matches"
headers = {"X-Auth-Token": "de27c6f949e040418ee4fcb5206ca657"}
response = requests.get(url, headers=headers)

if response.status_code == 200:
    data = response.json()
else:
    print(f"Error: {response.status_code}, {response.text}")
In []: import pandas as pd
df = pd.DataFrame(data['matches'])

df
```

Selecting the name of a team alone from the "homeTeam" data

```
In [ ]: df['home_team_name'] = df['homeTeam'].apply(lambda x: x['name'] if isinstance(x, di
    df['away_team_name'] = df['awayTeam'].apply(lambda x: x['name'] if isinstance(x, di
    df['home_goals'] = df['score'].apply(lambda x: x['fullTime']['home'] if isinstance(
    df['away_goals'] = df['score'].apply(lambda x: x['fullTime']['away'] if isinstance(
    df['utcDate'] = pd.to_datetime(df['utcDate'])

# Format as 'Day, Month Date, Year - HH:MM AM/PM'
    df['match_date'] = df['utcDate'].dt.strftime('%A, %B %d, %Y - %I:%M %p')
```

Plotting the matches in order of most recent

```
In [ ]: df_pl = df[df['status'] == 'FINISHED'].copy()

df_pl = df_pl[['home_team_name', 'status', 'away_team_name', 'home_goals', 'away_goal

df_pl['match_date'] = pd.to_datetime(df_pl['match_date'], format='%A, %B %d, %Y - %df_pl = df_pl.sort_values(by='match_date', ascending=False)

df_pl.head(10)
```

To Get Standings

to get the top 10 on the Premier League table

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