RICHEST ATHLETES FROM 1990-2020

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IMPORTING THE DATA

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
```

[] df = pd.read_csv('Forbes Richest Atheletes (Forbes Richest Athletes 1990-2020).csv')

0	df									
•		S.NO	Name	Nationality	Current Rank	Previous Year	Rank	Sport	Year	earnings (\$ million)
	0	1	Mike Tyson	USA	1		NaN	boxing	1990	28.6
	1	2	Buster Douglas	USA	2		NaN	boxing	1990	26.0
	2	3	Sugar Ray Leonard	USA	3		NaN	boxing	1990	13.0
	3	4	Ayrton Senna	Brazil	4		NaN	auto racing	1990	10.0
	4	5	Alain Prost	France	5		NaN	auto racing	1990	9.0
	296	297	Stephen Curry	USA	6		9	Basketball	2020	74.4
	297	298	Kevin Durant	USA	7		10	Basketball	2020	63.9
	298	299	Tiger Woods	USA	8		11	Golf	2020	62.3

CLEANING THE DATA

0	df.isnull().sum()	
•	S.NO Name Nationality Current Rank Previous Year Rank Sport Year earnings (\$ million) dtype: int64	0 0 0 24 0 0

D	<pre>df=df.fillna('none') df.head(3)</pre>									
•		S.NO	Name	Nationality	Current Rank	Previous Year Rank	Sport	Year	earnings (\$ million)	
	0	1	Mike Tyson	USA	1	none	boxing	1990	28.6	
	1	2	Buster Douglas	USA	2	none	boxing	1990	26.0	
	2	3	Sugar Ray Leonard	USA	3	none	boxing	1990	13.0	

EXPLOTARY DATA ANALYSIS

df['Nationality'].value_counts()

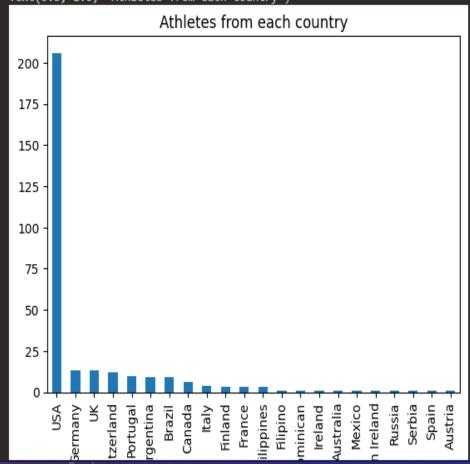
	225	
USA	206	
UK	13	
Germany	13	
Switzerland	12	
Portugal	10	
Brazil	9	
Argentina	9	
Canada	6	
Italy	4	
Finland	3	
France	3	
Philippines	3	
Russia	1	
Australia	1	
Dominican	1	
Austria	1	
Filipino	1	
Spain	1	
Serbia	1	
Northern Ireland	1	
Ireland	1	
Mexico	1	

)	df.groupby("Nati	ionalit	ty").co	ount()					
		S.NO	Name	Current Rank	Previous Year Rank	Sport	Year	earnings (\$ million)	
	Nationality								
	Argentina	9	9	9	9	9	9	9	
	Australia	1	1	1	1	1	1	1	
	Austria	1	1	1	1	1	1	1	
	Brazil	9	9	9	9	9	9	9	
	Canada	6	6	6	6	6	6	6	
	Dominican	1	1	1	1	1	1	1	
	Filipino	1	1	1	1	1	1	1	
	Finland	3	3	3	3	3	3	3	
	France	3	3	3	3	3	3	3	
	Germany	13	13	13	13	13	13	13	
	Ireland	1	1	1	1	1	1	1	
	Italy	4	4	4	4	4	4	4	

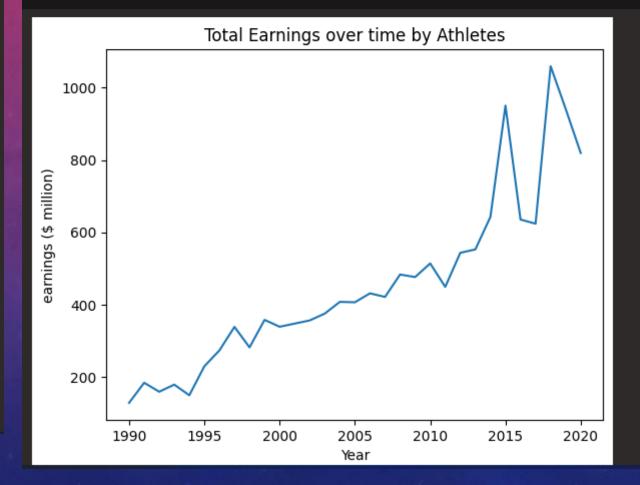
DATA ANALYSIS BY COUNTRY AND YEAR

df.groupby("Nationality")["S.NO"].count().sort_values(ascending=False).plot(kind='bar
plt.title("Athletes from each country")

Text(0.5, 1.0, 'Athletes from each country')

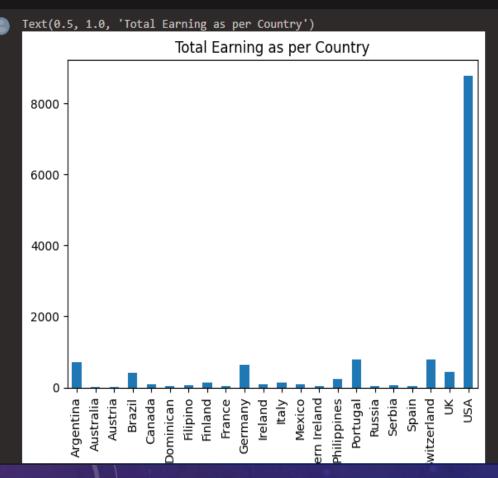


```
plt.plot(df.groupby("Year")["earnings ($ million)"].sum())
plt.xlabel('Year')
plt.ylabel('earnings ($ million)')
plt.title('Total Earnings over time by Athletes')
plt.show()
```

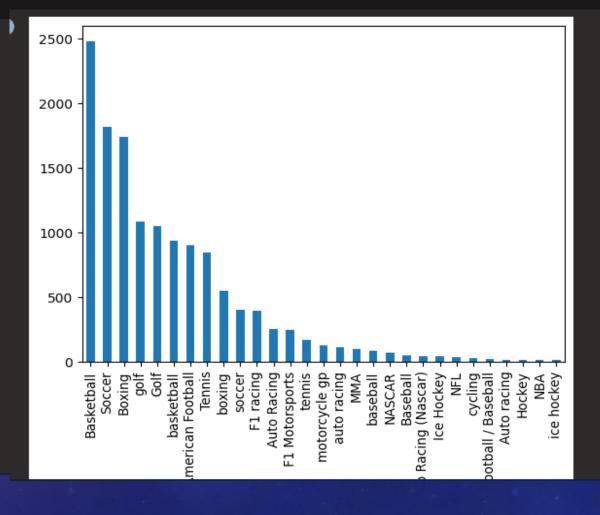


DATA ANALYSIS ON COUNTRY AND SPORTS

df.groupby("Nationality")["earnings (\$ million)"].sum().plot(kind="bar")
plt.title("Total Earning as per Country")



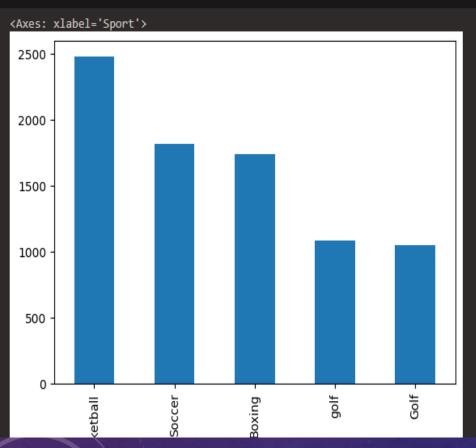
df.groupby("Sport")["earnings (\$ million)"].sum().sort_values(ascending = False).plot(kind="bar")
plt.show()



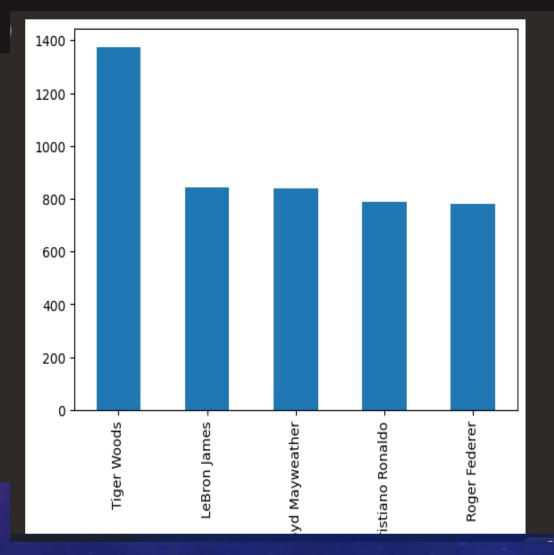
HIGHEST PAID SPORTS AND ATHLETES

df1=df.groupby("Sport")["earnings (\$ million)"].sum().sort_values(ascending = False)

Top 5 Highest Paid Sports
df1.head().plot(kind="bar")



df.groupby("Name")["earnings (\$ million)"].sum().sort_values(ascending=False).head().plot(kind="bar'
plt.show()



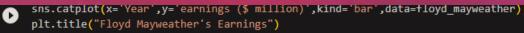
TOP 10 HIGHEST PAID ATHLETES IN A YEAR

#Top 10 highest paid Athletes (1990-2020)
top_ten=df.sort_values('earnings (\$ million)',ascending=False).head(10)
top_ten

	S.NO	Name	Nationality	Current Rank	Previous Year Rank	Sport	Year	earnings (\$ million)
241	242	Floyd Mayweather	USA	1	1	Boxing	2015	300.0
271	272	Floyd Mayweather	USA	1	>100	Boxing	2018	285.0
242	243	Manny Pacquiao	Philippines	2	11	Boxing	2015	160.0
281	282	Lionel Messi	Argentina	1	2	Soccer	2019	127.0
171	172	Tiger Woods	USA	1	1	golf	2008	115.0
272	273	Lionel Messi	Argentina	2	3	Soccer	2018	111.0
181	182	Tiger Woods	USA	1	1	golf	2009	110.0
282	283	Cristiano Ronaldo	Portugal	2	3	Soccer	2019	109.0
273	274	Cristiano Ronaldo	Portugal	3	1	Soccer	2018	108.0
291	292	Roger Federer	Switzerland	1	5	Tennis	2020	106.3

DATA OF FLOYD EVERY YEAR

HIGHEST PAID ATHLETE FROM 1990-2020





total_earnings_atheletes =	<pre>pd.DataFrame(df.grou</pre>	pby("Name")["earnings (\$ mil	lion)"].sum()
total_earnings_atheletes.s	sort_values(by='earnin	gs (\$ million)',ascending=Fa	lse)
	earnings (\$ million)		
Name			
Tiger Woods	1373.8		
LeBron James	844.8		
Floyd Mayweather	840.0		
Cristiano Ronaldo	787.1		
Roger Federer	781.1		
Cecil Fielder	12.7		
Michael Moorer	12.1		
Donovan "Razor" Ruddock	10.2		

8.5

8.5

Greg Norman

Monica Seles

DATA OF TIGER WOODS EVERY YEAR

```
sns.catplot(x='Year',y='earnings ($ million)',kind='bar',data=tiger_woods)
plt.title("Tiger Woods's Earnings")
plt.xticks(rotation=90)
plt.show()
```

