**DATA ANALYTICS** (Assignment - 4)

**(FIFA)**

import pandas as pd

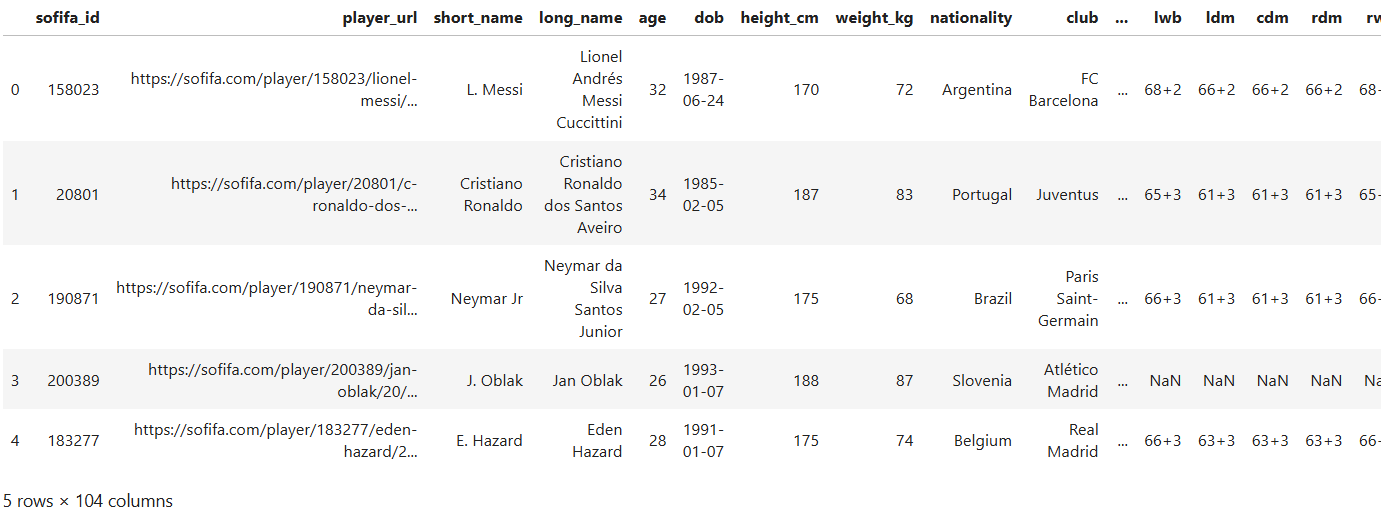
from matplotlib import pyplot as plt

import seaborn as sns

fifa=pd.read\_csv('players\_20.csv')

fifa.head()

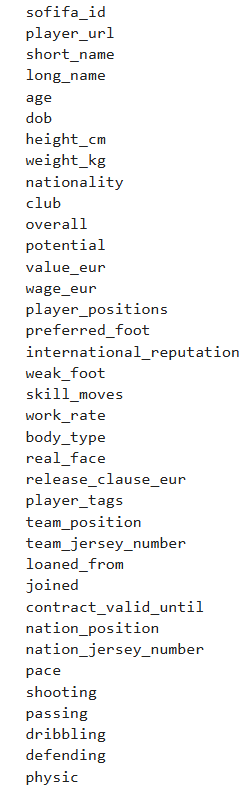
**Output:**

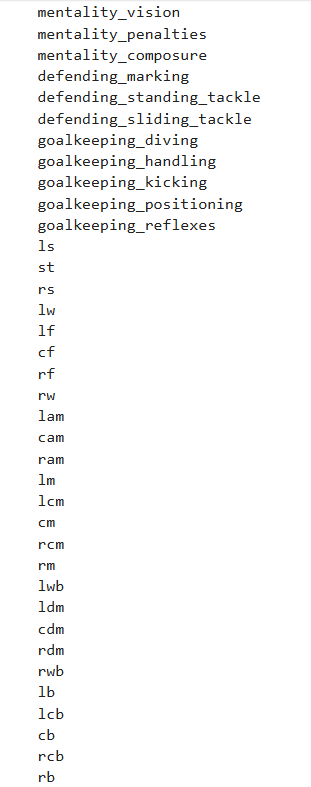
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for col in fifa.columns:

print(col)

**Output:**

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fifa.shape

**Output:**

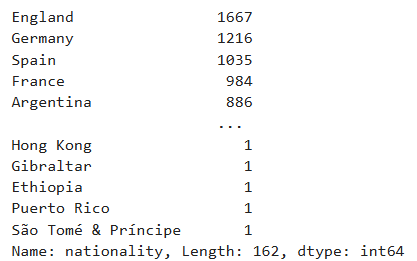


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1667/18278

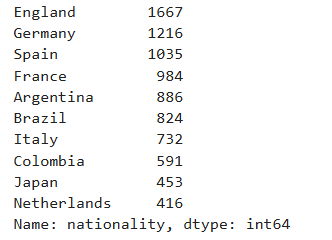
fifa['nationality'].value\_counts()

**Output:**



fifa['nationality'].value\_counts()[0:10]

**Output:**

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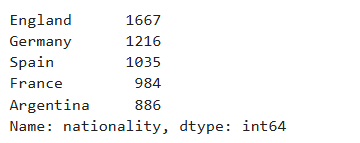
fifa['nationality'].value\_counts()[0:5].keys()

**Output:**

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fifa['nationality'].value\_counts()[0:5]

**Output:**

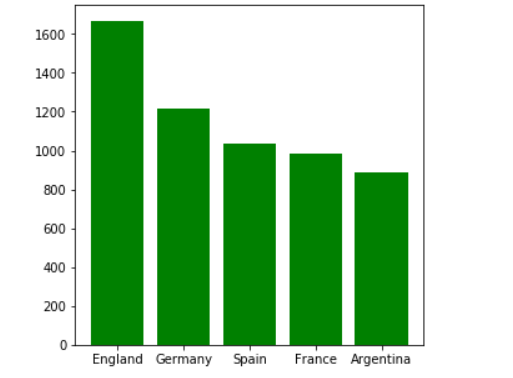


plt.figure(figsize=(5,5))

plt.bar(list(fifa['nationality'].value\_counts()[0:5].keys()),list(fifa['nationality'].value\_counts()[0:5]),color="g")

plt.show()

**Output:**



player\_salary = fifa[['short\_name','wage\_eur']]

player\_salary.head()

**Output:**

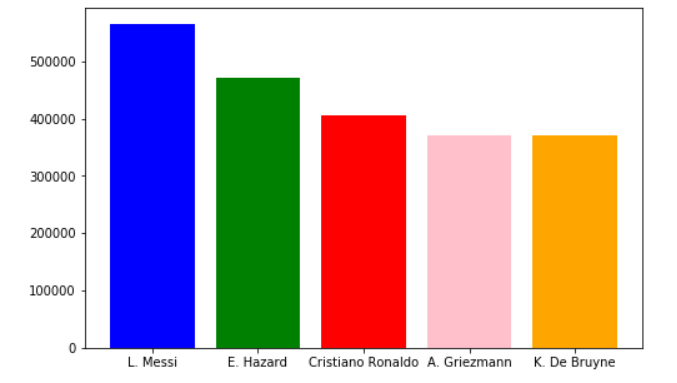


plt.figure(figsize=(8,5))

plt.bar(list(player\_salary['short\_name'])[0:5],list(player\_salary['wage\_eur'])[0:5],color=["blue","green","red","pink","orange"])

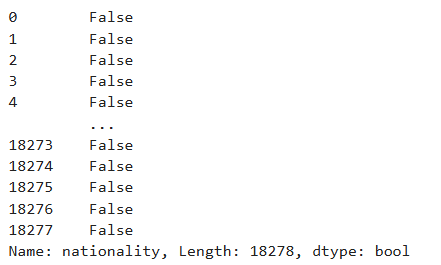
plt.show()

**Output:**

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fifa['nationality']=='Germany'

**Output:**

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**#Germany**

Germany=fifa[fifa['nationality']=='Germany']

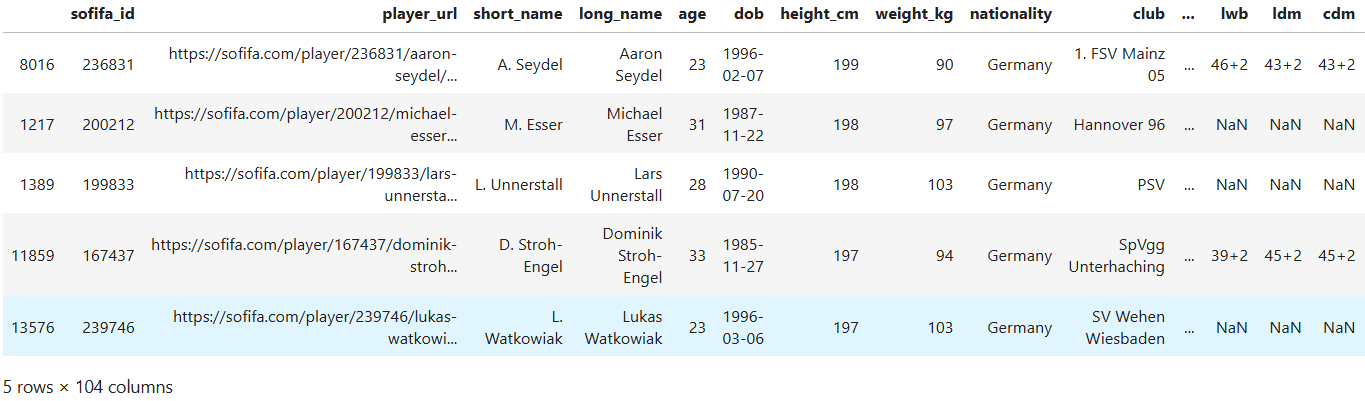
Germany.head(10)

**Output:**



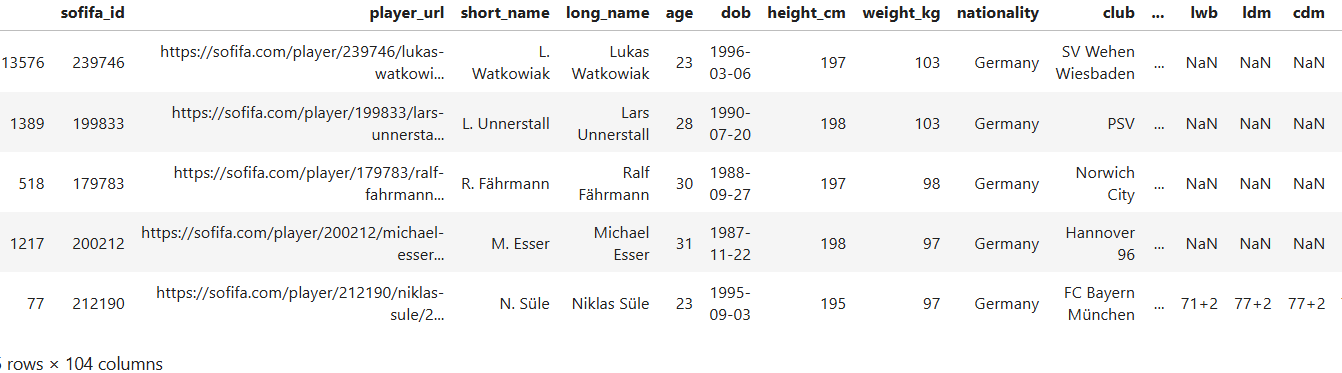
Germany.sort\_values(by=['height\_cm'],ascending=False).head()

**Output:**



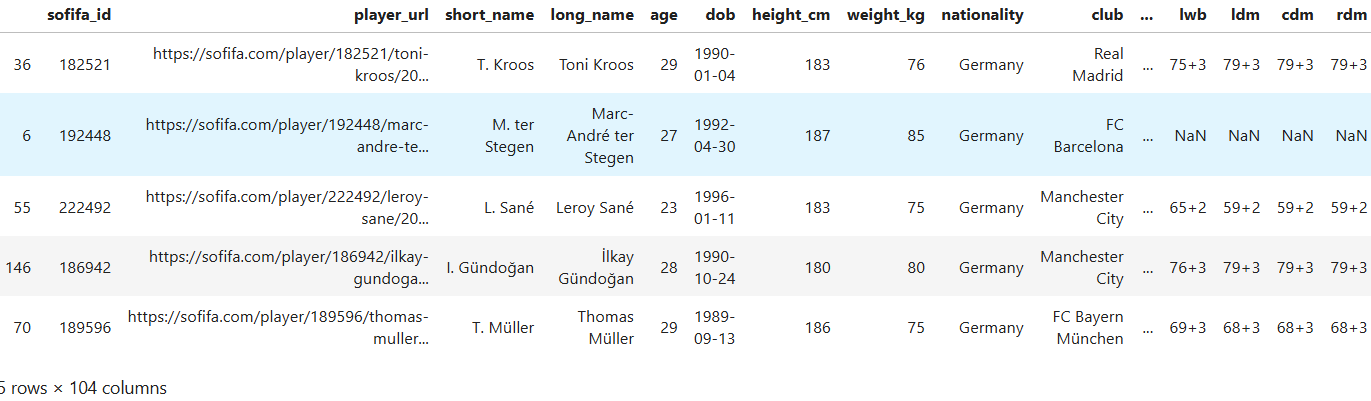
Germany.sort\_values(by=['weight\_kg'],ascending=False).head()

**Output:**



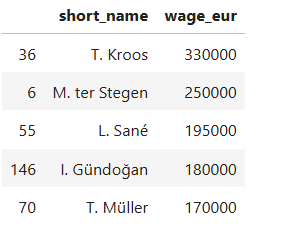
Germany.sort\_values(by=['wage\_eur'],ascending=False).head()

**Output:**



Germany[['short\_name','wage\_eur']].sort\_values(by=['wage\_eur'],ascending=False).head()

**Output:**



**#Shooting**

Player\_shooting= fifa[['short\_name','shooting']]

player\_shooting.sort\_values(by=['shooting'],ascending=False).head()

**Output:**

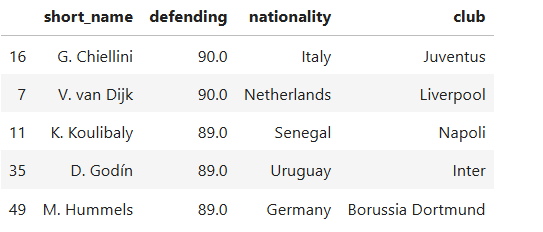


**#defending**

player\_defending= fifa[['short\_name','defending','nationality','club']]

player\_defending.sort\_values(by=['defending'],ascending=False).head()

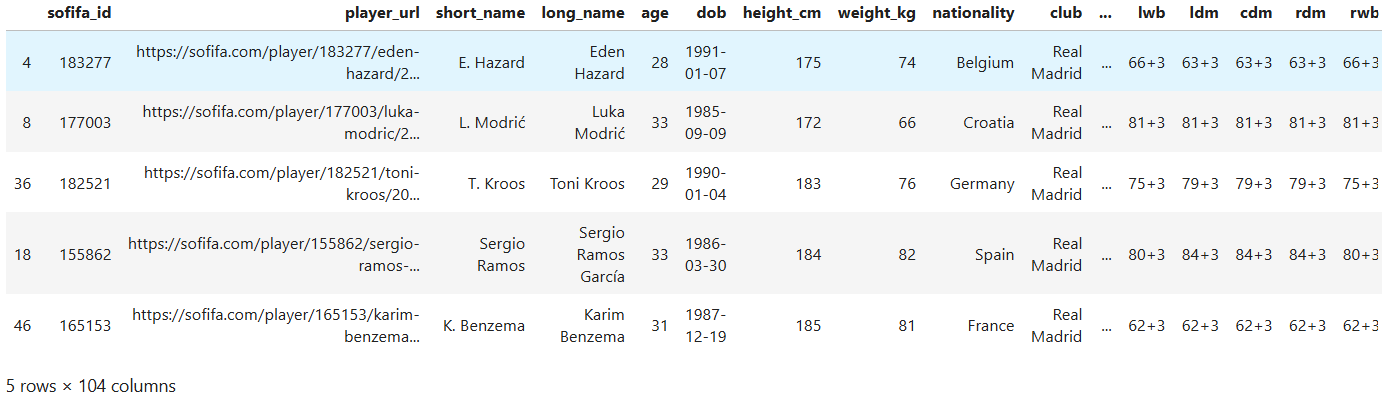
**Output:**



real\_madrid=fifa[fifa['club']=='Real Madrid']

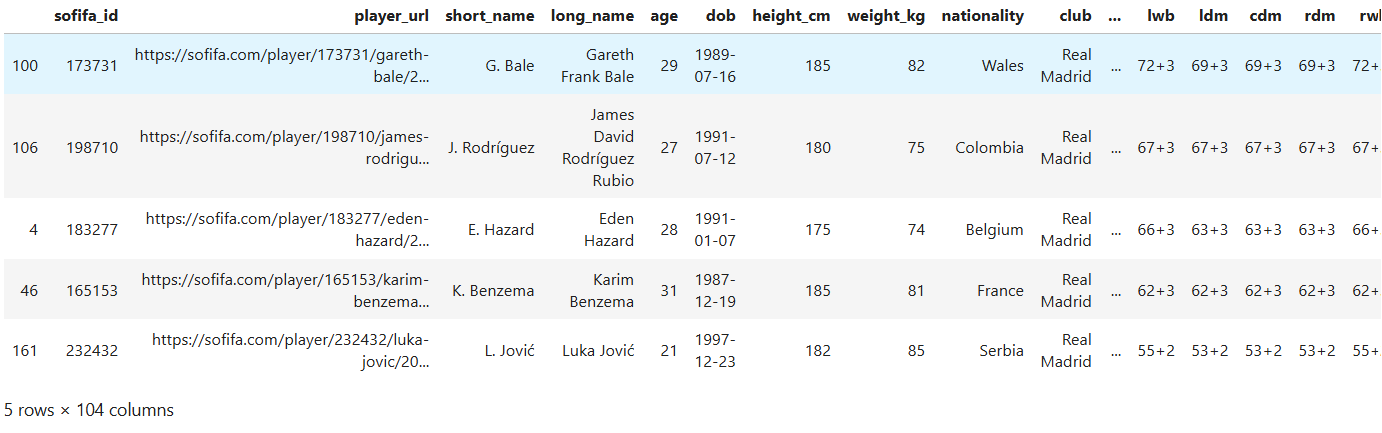
real\_madrid.sort\_values(by=['wage\_eur'],ascending=False).head()

**Output:**



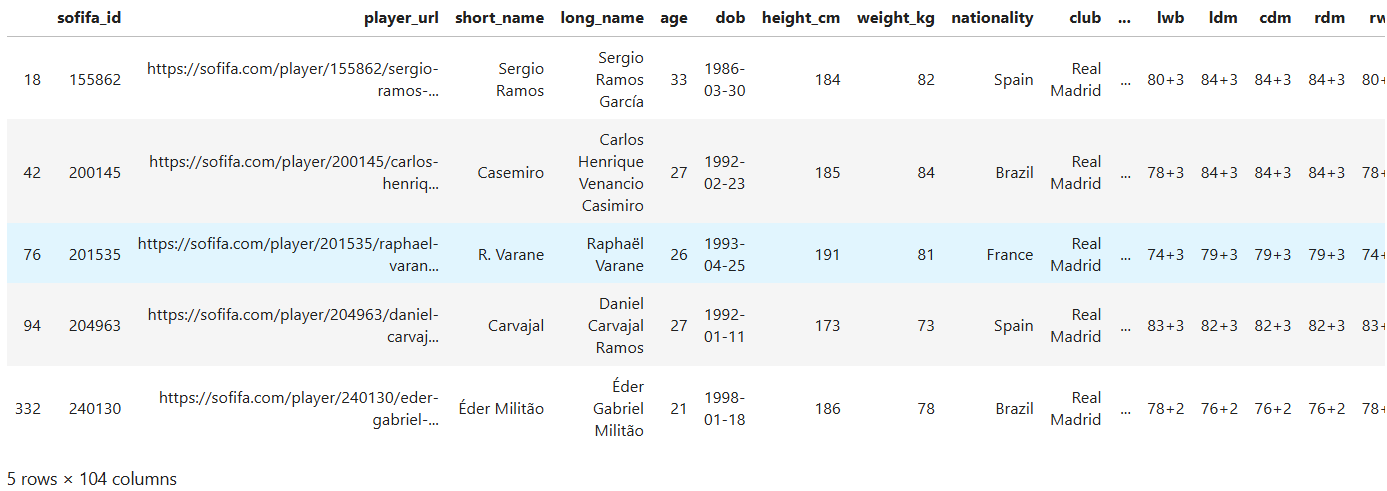
real\_madrid.sort\_values(by=['shooting'],ascending=False).head()

**Output:**



real\_madrid.sort\_values(by=['defending'],ascending=False).head()

**Output:**

****

real\_madrid['nationality'].value\_counts()

**Output:**

