In [127... #Top 5 richest people dataframe.head(7)

Out[127... Name **NetWorth Age Country/Territory** Source Industry Elon Tesla, 0 \$219,000,000,000 50 **United States** Automotive Musk SpaceX Jeff 1 \$171,000,000,000 58 United States Amazon Technology Bezos Bernard Fashion & Arnault \$158,000,000,000 73 France LVMH Retail & family Bill 3 United States \$129,000,000,000 66 Microsoft Technology Gates Warren Berkshire Finance & \$118,000,000,000 91 **United States** Buffett Hathaway Investments Larry 5 \$111,000,000,000 49 United States Google Technology Page Sergey \$107,000,000,000 United States 48 Google Technology Brin

In [154... #The bottom 5 richest people
 dataframe.tail()

Out[154		Name	NetWorth	Age	Country/Ter	ritory	Source	Indu			
	96	Vladimir Potanin	1.730000e+10	61		Russia	metals	Meta Mi			
	97	Harold Hamm & family	1.720000e+10	76	United	States	oil & gas	Ene			
	98	Sun Piaoyang	1.710000e+10	63		China	pharmaceuticals	Health			
	99	Luo Liguo & family	1.700000e+10	66		China	chemicals	Manufactu			
	100	Peter Woo	1.700000e+10	75	75 Hong Kong real estate		Real Es				
In [129	<pre>#Sorting people from youngest to oldest print(dataframe.sort_values(by='Age', ascending=True))</pre>										
:	59 14 24 65	Mar	Name ankman-Fried k Zuckerberg Zhang Yiming laume Pousaz	\$67, \$50,	NetWorth 000,000,000 300,000,000 000,000,000	Age 30 37 38 40	Country/Territory United States United States China Switzerland	; ;			

```
65
           Guillaume Pousaz
                                $23,000,000,000
                                                   40
                                                            Switzerland
85
       Yang Huiyan & family
                                $18,700,000,000
                                                   40
                                                                   China
. .
                                                  . . .
64
             Leonard Lauder
                                $23,100,000,000
                                                   89
                                                          United States
75
    Rupert Murdoch & family
                                                          United States
                                $20,800,000,000
                                                   91
4
             Warren Buffett
                                                          United States
                               $118,000,000,000
                                                   91
36
                 Li Ka-shing
                               $34,800,000,000
                                                   93
                                                              Hong Kong
               Lee Shau Kee
                                                   94
38
                                $32,600,000,000
                                                              Hong Kong
                                            Industry
                      Source
59
    cryptocurrency exchange
                               Finance & Investments
14
                    Facebook
                                          Technology
24
                      TikTok
                              Media & Entertainment
                              Finance & Investments
65
                     fintech
85
                 real estate
                                         Real Estate
64
               Estee Lauder
                                    Fashion & Retail
     newspapers, TV network
75
                              Media & Entertainment
4
         Berkshire Hathaway
                               Finance & Investments
36
                 diversified
                                         Diversified
38
                 real estate
                                         Real Estate
```

[101 rows x 6 columns]

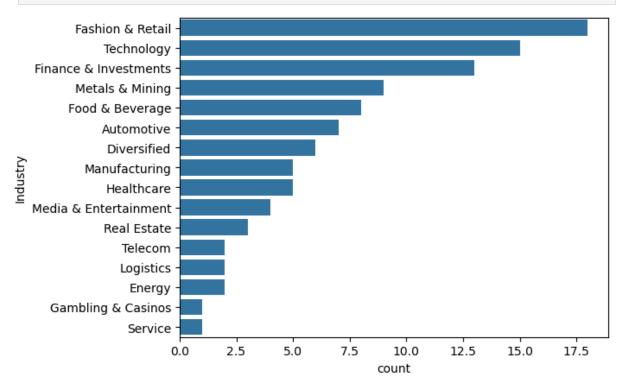
```
In [130... #details of people standing at position 50 to 55 using iloc
    print(dataframe.iloc[50:55,:])
    print(dataframe.loc[:4, ['Name', 'Age']])
```

```
NetWorth Age Country/Territory \
                                     Name
        50
                      Dietrich Mateschitz $27,400,000,000
                                                            77
                                                                          Austria
        51 Leonardo Del Vecchio & family $27,300,000,000
                                                             86
                                                                            Italy
                              Ken Griffin $27,200,000,000
        52
                                                             53
                                                                    United States
        53
                   Tadashi Yanai & family $26,100,000,000
                                                             73
                                                                            Japan
                         William Lei Ding $25,200,000,000
        54
                                                             50
                                                                            China
                    Source
                                         Industry
        50
                  Red Bull
                                 Food & Beverage
                               Fashion & Retail
        51
                eyeglasses
        52
               hedge funds Finance & Investments
        53
            fashion retail
                               Fashion & Retail
        54
              online games
                                       Technology
                               Name Age
        0
                          Elon Musk
                                      50
        1
                         Jeff Bezos
                                      58
        2 Bernard Arnault & family
                                      73
        3
                         Bill Gates
                                      66
                     Warren Buffett
                                      91
In [131... #To check if the data is cleaned. this checks missing values
         dataframe.isnull().sum()
Out[131...
         Name
                              0
         NetWorth
                              0
         Age
                              0
         Country/Territory
                              0
         Source
                              0
                              0
         Industry
         dtype: int64
In [132... #Summary of statistical data
         dataframe.describe()
Out[132...
                       Age
         count 101.000000
                 67.118812
         mean
                 13.892651
            std
           min
                 30.000000
           25%
                 57.000000
           50%
                 67.000000
                 77.000000
           75%
                 94.000000
           max
In [133... dataframe.nlargest(1, 'Age')
```

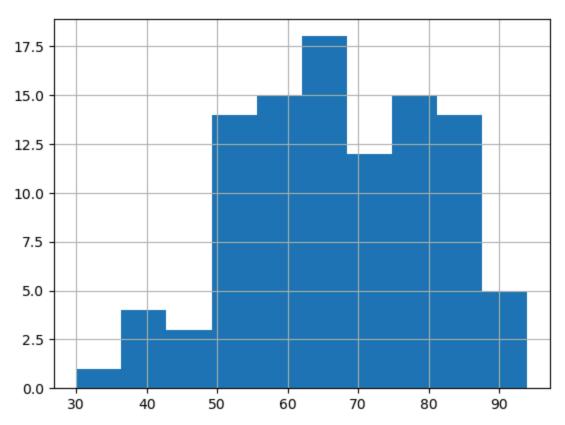
```
NetWorth Age Country/Territory
Out[133...
                 Name
                                                                Source
                                                                         Industry
              Lee Shau
                                                                   real
                                                                             Real
         38
                        $32,600,000,000
                                         94
                                                    Hong Kong
                                                                           Estate
                   Kee
                                                                 estate
In [134... dataframe.nsmallest(1, 'Age')
                            NetWorth Age Country/Territory
Out[134...
                Name
                                                                   Source
                                                                              Indust
                  Sam
                                                 United States cryptocurrency
                                                                              Finance
         59 Bankman- $24,000,000,000
                                        30
                                                                  exchange Investmer
                 Fried
In [135... #information of dataset
         dataframe.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 101 entries, 0 to 100
        Data columns (total 6 columns):
            Column
                               Non-Null Count Dtype
                               -----
        --- -----
                                               ----
         0
            Name
                               101 non-null
                                               object
         1 NetWorth
                               101 non-null
                                               object
         2
                               101 non-null
                                               int64
           Age
            Country/Territory 101 non-null
                                               object
                               101 non-null
            Source
                                               object
         5
            Industry
                               101 non-null
                                               object
        dtypes: int64(1), object(5)
        memory usage: 4.9+ KB
In [136... #get a randomly selected row, column, or both from a dataset
         dataframe.sample()
Out[136...
              Name
                           NetWorth Age Country/Territory
                                                               Source
                                                                         Industry
               Elon
                                                                 Tesla,
         0
                     $219,000,000,000
                                       50
                                               United States
                                                                       Automotive
                                                               SpaceX
               Musk
In [137... #To view columns of the
         dataframe.columns
Out[137... Index(['Name', 'NetWorth', 'Age', 'Country/Territory', 'Source', 'Industr
         y'], dtype='object')
In [138... #The value counts() function in pandas is used to count the occurrences of e
         print(dataframe.value counts())
```

Name	NetWorth	Age	Country/Territory	Source
Industry				
Abigail Johnson	\$21,200,000,000	60	United States	money manage
ment Finan	ce & Investments	1		
Alain Wertheimer	\$31,200,000,000	73	France	Chanel
Fashion & Retail	1			
Alice Walton	\$65,300,000,000	72	United States	Walmart
Fashion & Retail	1			
Amancio Ortega	\$59,600,000,000	86	Spain	Zara
Fashion & Retail	1			
Andrew Forrest	\$17,800,000,000	60	Australia	mining
Metals & Mining	1			
II.	+110 000 000 000	0.1	Hadrad Chara	Danilaria de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición de la composición de la composición dela composición de la
Warren Buffett	1 - / / /		United States	Berkshire Ha
thaway Finan		1	CL :	1.
William Lei Ding		50	China	online games
Technology	1	4.0	CL :	
Yang Huiyan & family		40	China	real estate
Real Estate	1	20	CL :	T' T
Zhang Yiming		38	China	TikTok
Media & Entertainment		67	Ch. i	la a companya a compan
Zhong Shanshan		67	China	beverages, p
harmaceuticals Food	•	1		
Name: count, Length:	101, dtype: int64			

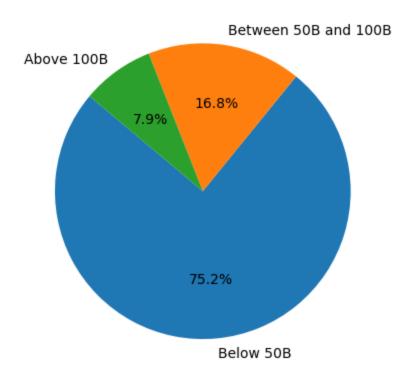
In [139... #The below bargraph represents which industry has
 sns.countplot(dataframe["Industry"] , order=dataframe["Industry"].value_cour
 plt.show()



76 17 8



```
In [141... | #for pie chart
        # Preprocess the data
        #Setting regex=False disables regular expression syntax and treats the patter
         dataframe['NetWorth'] = dataframe['NetWorth'].astype(str)
        dataframe['NetWorth'] = dataframe['NetWorth'].str.replace('$', '', regex=Fal
         dataframe['NetWorth'] = dataframe['NetWorth'].str.replace(',', '', regex=Fal
         filtered df1 = dataframe[(dataframe['NetWorth'] >= 0) & (dataframe['NetWorth']
         net worth1 = filtered df1['NetWorth'].shape[0]
         print(net worth1)
         net_worth2 = filtered_df2['NetWorth'].shape[0]
         print(net worth2)
         filtered df3 = dataframe[(dataframe['NetWorth'] >= 1000000000000)]
         net worth3 = filtered df3['NetWorth'].shape[0]
         print(net worth3)
        labels = ['Below 50B', 'Between 50B and 100B', 'Above 100B']
        values = [net worth1,net worth2,net worth3]
        plt.pie(values, labels=labels, autopct='%1.1f%%', startangle=140)
```



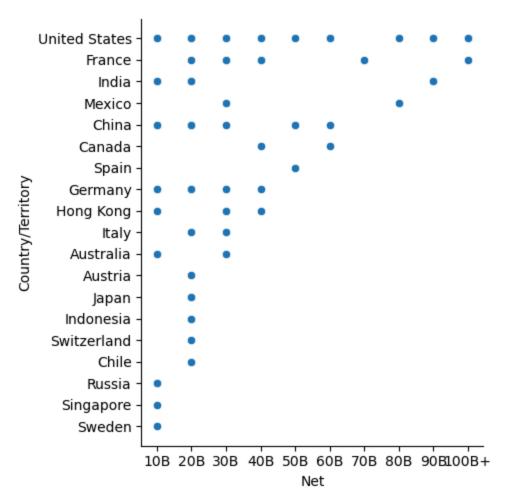
```
In [142... dataframe.fillna(value={'Column1': 'DefaultValue', 'Column2': 0}, inplace=Tr
    print(dataframe.head())
```

```
Name
                               NetWorth Age Country/Territory \
                                                 United States
0
                 Elon Musk 2.190000e+11
                                          50
                Jeff Bezos 1.710000e+11
                                                 United States
1
                                          58
2 Bernard Arnault & family 1.580000e+11
                                         73
                                                       France
                                          66
91
3
                Bill Gates 1.290000e+11
                                                 United States
4
            Warren Buffett 1.180000e+11
                                          91
                                                 United States
              Source
                                  Industry
0
       Tesla, SpaceX
                                Automotive
1
              Amazon
                                Technology
2
                LVMH
                           Fashion & Retail
3
           Microsoft
                                Technology
4 Berkshire Hathaway Finance & Investments
```

```
In [143... # Count the number of billionaires per country/territory
    country_distribution = dataframe['Country/Territory'].value_counts()
    country_distribution
```

```
Out[143... Country/Territory
         United States
                          37
         China
                          18
         France
                          7
         India
                          7
                          7
         Germany
         Hong Kong
                         4
         Japan
                          3
         Italy
                          2
         Canada
                          2
                          2
         Australia
                          2
         Mexico
                          2
         Russia
                          2
         Indonesia
         Spain
                          1
         Austria
                          1
                         1
         Switzerland
         Chile
                          1
         Singapore
                         1
         Sweden
                          1
         Name: count, dtype: int64
In [145... # relationg graph of networth vs country
         bins = [0, 10e9, 20e9, 30e9, 40e9, 50e9, 60e9, 70e9, 80e9, 90e9, 100e9, df['
         labels = ['0B', '10B', '20B', '30B', '40B', '50B', '60B', '70B', '80B', '90E
         df['Net'] = pd.cut(df['NetWorth'], bins=bins, labels=labels, right=False)
         sns.relplot(x="Net", y="Country/Territory", data=df)
         plt.figure(figsize=(300, 8))
```

plt.show()



<Figure size 30000x800 with 0 Axes>

```
In [152... # barh graph

df_grouped = df['Industry'].value_counts().reset_index()
    df_grouped.columns = ['Industry', 'Count']

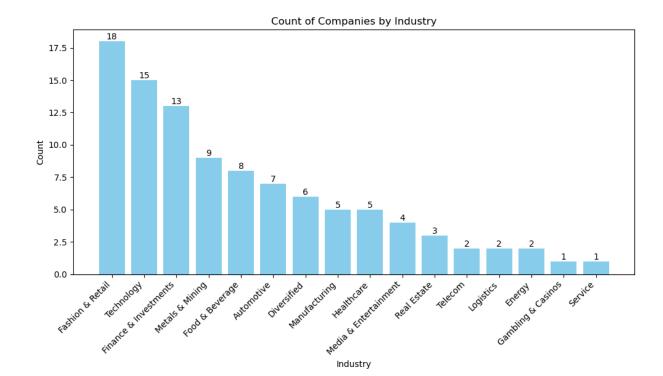
plt.figure(figsize=(10, 6))
    bars = plt.bar(df_grouped['Industry'], df_grouped['Count'], color='skyblue')

plt.title('Count of Companies by Industry')
    plt.xlabel('Industry')
    plt.ylabel('Count')

for index, value in enumerate(df_grouped['Count']):
        plt.text(index, value, str(value), ha='center', va='bottom')

plt.xticks(rotation=45, ha='right')

plt.tight_layout()
    plt.show()
```



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