PROJECT REPORT

TITLE : Forbes_2022_billionaires
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BATCH :01

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ABOUT PROJECT

Wealthiest Individuals: The list identifies and ranks individuals based on their estimated net worth. It includes business magnates, entrepreneurs, investors, and heirs to family fortunes.

Net Worth: Forbes provides an estimated net worth for each billionaire, calculated by considering their assets, investments, and other financial holdings.

Source of Wealth: The list details the primary source of wealth for each billionaire, whether it's from technology, finance, manufacturing, real estate, or other industries.

DETAILS OF DATA

Philanthropy: Forbes often mentions the philanthropic efforts and charitable contributions made by billionaires, showcasing their involvement in various causes.
Notable Individuals: The list may feature profiles or stories of noteworthy billionaires, providing insights into their backgrounds, business success, and personal lives.
Nationality and Residence: Forbes typically includes information about the nationality of each billionaire and where they reside.

TOOLS USED

- NumPy
- Pandas
- PowerBI
- Power Query

MAIN KPI”s

Data Accuracy: Ensure the accuracy of the data you collect or analyze from the Forbes 2022 billionaires list, as any inaccuracies can affect the quality and credibility of your project. KPIs might include the percentage of accurate data points, error rates, or data validation checks.

Coverage: Measure the completeness of your coverage by tracking the number of billionaires included in your project compared to the total number on Forbes' list. This KPI helps ensure that you've included all relevant data.

Data Presentation: Assess the effectiveness of your data presentation by monitoring user engagement metrics such as pageviews, time spent on the project, and click-through rates on interactive elements or infographics.

User Satisfaction: Collect feedback from users or stakeholders to gauge their satisfaction with the project. This can include surveys, user ratings, or qualitative feedback on the project's utility and usability.

SCREENSHOTS Python Code Screenshots

Forbes_2022_billionaires list analysis

In [1]:
```
#importing Libraries
import numpy as np
import pandas as pd
```

In [2]:
```
#Read the csv file
df = pd.read_csv('Forbes_2022_billionaires.csv')
df
```

Out[2]:

	Unnamed: 0	rank	personName	age	finalWorth(million USD)	year	month	category	source	country	...	organization	selfMade	gender	Year of birth	title	pl
0	0	1	Elon Musk	50	219000	2022	4	Automotive	Tesla, SpaceX	United States	...	Tesla	True	M	1971	CEO	
1	1	2	Jeff Bezos	58	171000	2022	4	Technology	Amazon	United States	...	Amazon	True	M	1964	Entrepre	
2	2	3	Bernard Arnault & family	73	158000	2022	4	Fashion & Retail	LVMH	France	...	LVMH Moët Hennessy Louis Vuitton	False	M	1949	Chai and	
3	3	4	Bill Gates	66	129000	2022	4	Technology	Microsoft	United States	...	Bill & Melinda Gates Foundation	True	M	1955	Cofo	
4	4	5	Warren Buffett	91	118000	2022	4	Finance & Investments	Berkshire Hathaway	United States	...	Berkshire Hathaway	True	M	1930		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
2663	2663	2578	Zhang Yuqiang	66	1000	2022	4	Manufacturing	Fiberglass	China	...	Other	True	M	1955		
2664	2664	2578	Zhou Ruxin	59	1000	2022	4	Technology	Navigation	China	...	Other	True	M	1963		
2665	2665	2578	Wen Zhou & family	57	1000	2022	4	Manufacturing	chemicals	China	...	Other	True	M	1965		
2666	2666	2578	Zhou Yifeng & family	43	1000	2022	4	Energy	liquefied petroleum gas	China	...	Other	True	F	1978	Inv	
2667	2667	2578	Zhuang Kuilong & family	59	1000	2022	4	Manufacturing	polyester	China	...	Other	True	M	1962		

2668 rows × 23 columns

In [3]:
```
#viewing first 3 rows
df.head(3)
```

Out[3]:

	Unnamed: 0	rank	personName	age	finalWorth(million USD)	year	month	category	source	country	...	organization	selfMade	gender	Year of birth	title	pl
0	0	1	Elon Musk	50	219000	2022	4	Automotive	Tesla, SpaceX	United States	...	Tesla	True	M	1971	CEO	
1	1	2	Jeff Bezos	58	171000	2022	4	Technology	Amazon	United States	...	Amazon	True	M	1964	Entrepreneur	
2	2	3	Bernard Arnault & family	73	158000	2022	4	Fashion & Retail	LVMH	France	...	LVMH Moët Hennessy Louis Vuitton	False	M	1949	Chairman and CEO	

3 rows × 23 columns

In [4]:
```
#viewing last 3 rows
df.tail(3)
```

Out[4]:

	Unnamed: 0	rank	personName	age	finalWorth(million USD)	year	month	category	source	country	...	organization	selfMade	gender	Year of birth	title
2665	2665	2578	Wen Zhou & family	57	1000	2022	4	Manufacturing	chemicals	China	...	Other	True	M	1965	CEO
2666	2666	2578	Zhou Yifeng & family	43	1000	2022	4	Energy	liquefied petroleum gas	China	...	Other	True	F	1978	Investor
2667	2667	2578	Zhuang Kuilong & family	59	1000	2022	4	Manufacturing	polyester	China	...	Other	True	M	1962	CEO

3 rows × 23 columns

In [5]:
```
#Total size of rows and columns
df.shape
```

Out[5]: (2668, 23)

In [6]:
```
#Column data types in the table
df.dtypes
```

Out[6]:
```
Unnamed: 0                int64
rank                      int64
personName               object
age                       int64
finalWorth(million USD)   int64
year                      int64
month                     int64
category                 object
source                   object
country                  object
state                    object
city                     object
countryOfCitizenship     object
organization             object
selfMade                   bool
```

SCREENSHOTS Python Code Screenshots

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2668 entries, 0 to 2667
Data columns (total 23 columns):
 #   Column                    Non-Null Count  Dtype
---  ------                    --------------  -----
 0   Unnamed: 0                2668 non-null   int64
 1   rank                      2668 non-null   int64
 2   personName                2668 non-null   object
 3   age                       2668 non-null   int64
 4   finalWorth(million USD)   2668 non-null   int64
 5   year                      2668 non-null   int64
 6   month                     2668 non-null   int64
 7   category                  2668 non-null   object
 8   source                    2668 non-null   object
 9   country                   2668 non-null   object
 10  state                     2668 non-null   object
 11  city                      2668 non-null   object
 12  countryOfCitizenship      2668 non-null   object
 13  organization              2668 non-null   object
 14  selfMade                  2668 non-null   bool
 15  gender                    2668 non-null   object
 16  Year of birth             2668 non-null   int64
 17  title                     2668 non-null   object
 18  philanthropyScore         2668 non-null   int64
 19  residenceMsa              2668 non-null   object
 20  numberOfSiblings          2668 non-null   int64
 21  bio                       2668 non-null   object
 22  about                     2668 non-null   object
dtypes: bool(1), int64(9), object(13)
memory usage: 461.3+ KB
```

In [8]:
```
#Null values in the columns
df.isnull().sum()
```

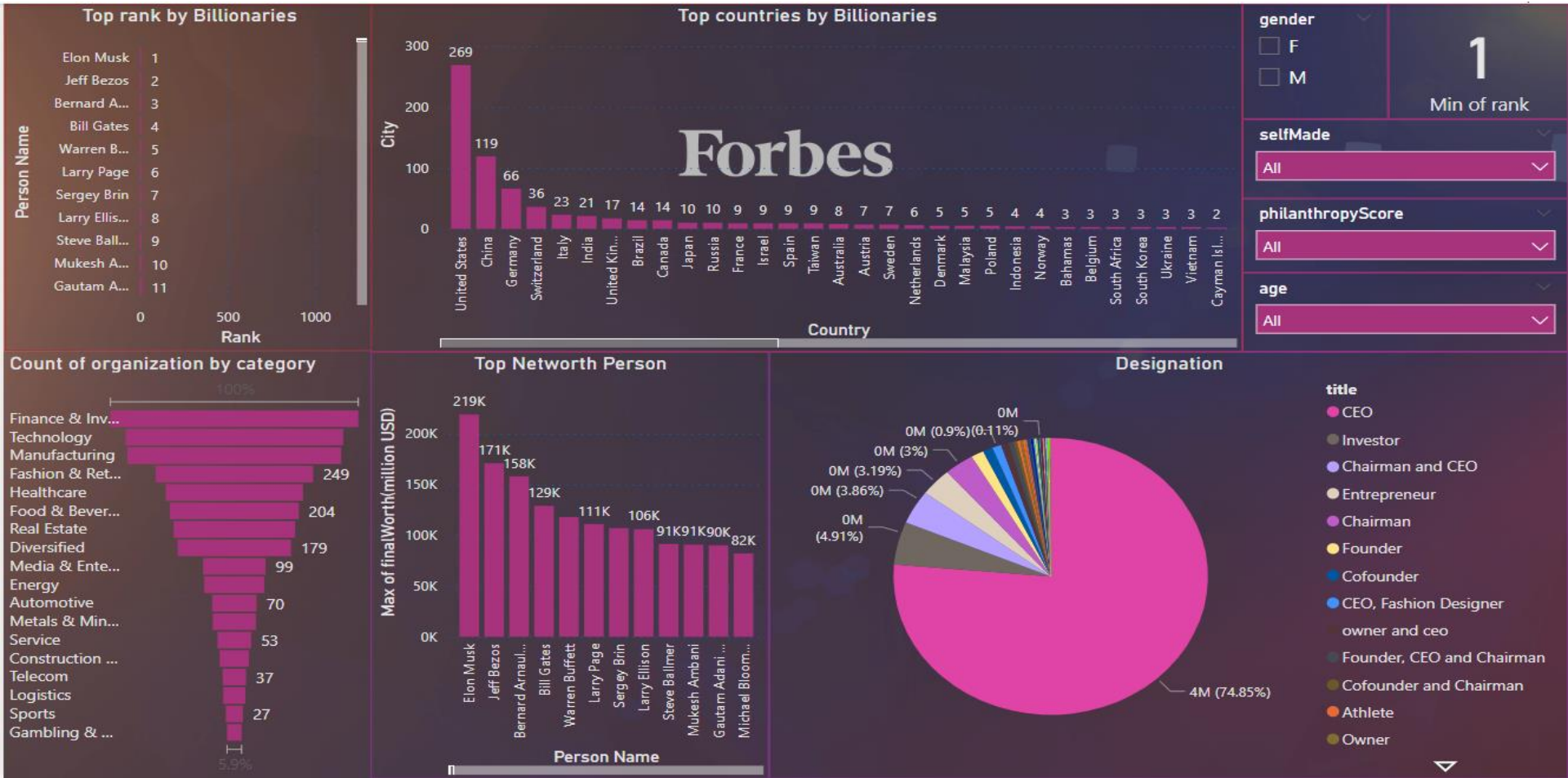
Out[8]:
```
Unnamed: 0                0
rank                      0
personName                0
age                       0
finalWorth(million USD)   0
year                      0
month                     0
category                  0
source                    0
country                   0
state                     0
city                      0
countryOfCitizenship      0
organization              0
selfMade                  0
gender                    0
Year of birth             0
title                     0
philanthropyScore         0
residenceMsa              0
numberOfSiblings          0
bio                       0
about                     0
dtype: int64
```

In [9]:
```
#Describe the column
df.describe().T
```

Out[9]:

	count	mean	std	min	25%	50%	75%	max
Unnamed: 0	2668.0	1333.500000	770.329583	0.0	666.75	1333.5	2000.25	2667.0
rank	2668.0	1302.919040	747.807782	1.0	665.00	1292.0	1929.00	2578.0
age	2668.0	64.234633	13.407366	19.0	55.00	64.0	74.00	100.0
finalWorth(million USD)	2668.0	4762.237631	10539.901828	1000.0	1500.00	2400.0	4300.00	219000.0
year	2668.0	2022.000000	0.000000	2022.0	2022.00	2022.0	2022.00	2022.0
month	2668.0	4.000000	0.000000	4.0	4.00	4.0	4.00	4.0
Year of birth	2668.0	1957.141679	13.426895	1921.0	1947.00	1957.0	1966.00	2002.0
philanthropyScore	2668.0	1.978636	0.377360	1.0	2.00	2.0	2.00	5.0
numberOfSiblings	2668.0	0.130060	0.712487	0.0	0.00	0.0	0.00	14.0

MY DESIGN PowerBI



CONCLUSION

Forbes 2022 Billionaires

In this project, we have analyzed and presented data from Forbes' 2022 billionaires list, providing valuable insights into the world's wealthiest individuals and their respective sources of wealth. Our goal was to create a comprehensive and informative resource for users interested in understanding the financial landscape of the world's billionaires.

Key Findings:

Wealth Distribution: We found that the world's billionaires represent a wide range of industries, including technology, finance, manufacturing, and real estate. The list showcases the diversity of sources of wealth across the globe.