

MINI PROJECT

EXPLORATORY DATA ANALYSIS [EDA]



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Problem Statement:

Take any dataset of your choice and apply Exploratory Data Analysis and make sure, you get 5 different conclusions/facts/analysis.

SOLUTION:

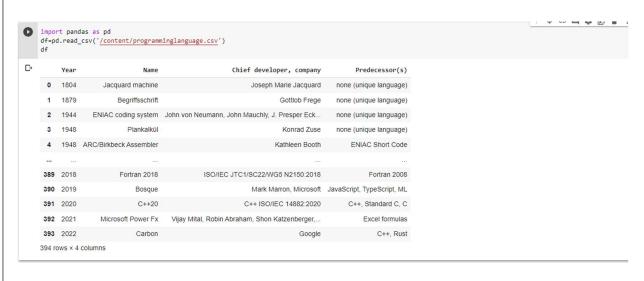
I took dataset from www.Kaggle.com, the data is about Programming Language that Includes S.no, Year, Chief Developer, etc.

I have to Apply Exploratory Data Analysis on this Data Set Then I performed so many things On that data, They are:

- > Import pandas to my data
- > Dataset shape
- Dataset size
- Dataset info
- Dataset sum
- Dataset Unique
- > Import Seaborn to my data
- > Count plot to Chief Developer
- Count Plot to Predecessors
- Count value to Chief Developer
- Count Value to Predecessors
- ➤ Moreover, I done group by for Chief Developer

I Performed above Furnished Analysis on my Dataset Successfully Without Errors.....

→ Import pandas to my data:



→ Dataset Shape:

→ Dataset Size:

```
df.size
□ 1576
```

→ Dataset info:

→ Dataset Sum:

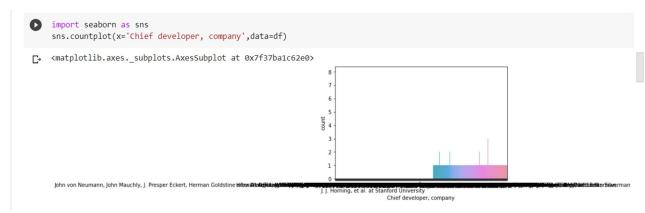
```
Year 0
Name 0
Chief developer, company 11
Predecessor(s) 37
dtype: int64
```

→ Dataset Unique:

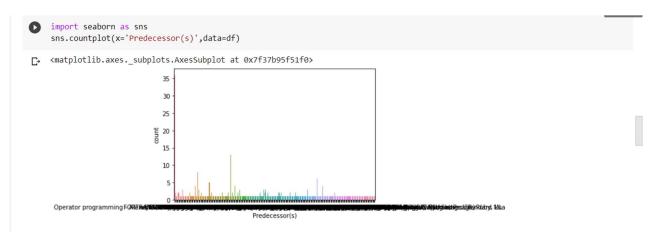
```
df.nunique()

Year 78
Name 393
Chief developer, company 335
Predecessor(s) 254
dtype: int64
```

→ Count plot to Chief Developer:



→ Count plot to Predecessors:



→ Count value to Chief Developer:

```
IBM 8
Microsoft 8
Apple Computer 5
Google 3
Allen Newell, Cliff Shaw, Herbert A. Simon 3
Brian Kernighan 1
Allan Ballard, Paul Whaley at the University of British Columbia 1
Arvind and Gostelow, University of California, Irvine 1
James S. Miller, Benjamin M. Brosgol et al. at Intermetrics 1
Vijay Mital, Robin Abraham, Shon Katzenberger, Darryl Rubin, Microsoft 1
Name: Chief developer, company, Length: 335, dtype: int64
```

→ Count value to Predecessors:

→ Group by for Chief Developer:

df.groupby('Chief developer, company').size()

•	Chief developer, company	
	ABB	1
	ACM/GAMM	1
	ANSI/ISO Standard C++	1
	ANSI/MIL-STD-1815A unchanged	1
	ARA and Ada Europe (ISO/IEC 8652:2012)	1
	Yukihiro Matsumoto	1
	Yves Caseau	1
	Zoltan Somogyi at University of Melbourne	1
	designed by Intermetrics for NASA	1
	many people at Apple Computer	1
	Length: 335, dtype: int64	

thank