Name: -Surshan

Bansude

PRN:-202401110043

Roll no:-CS7-38

Dataset:-WordNet

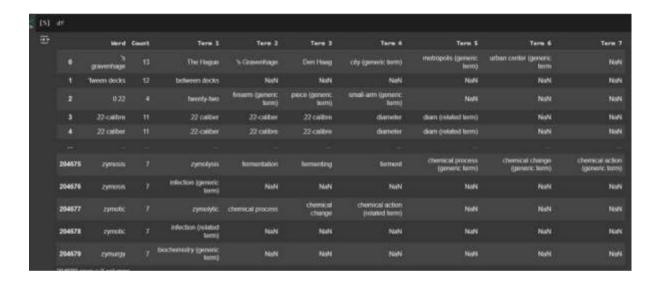
1. Display 1st five rows of the data set



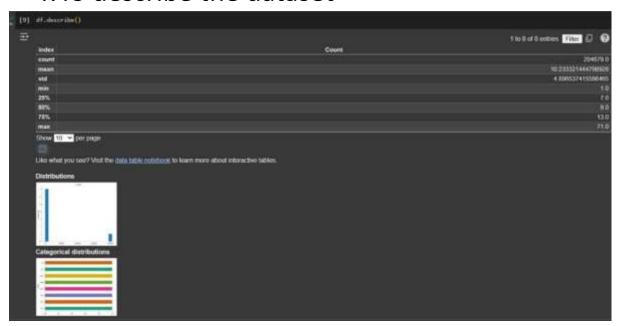
2. Display last 5 rows of the data set



3. Easytoanalyze, filter, and visualize large datasets.



4. To describe the dataset



5. To display information about dataset

```
(11] df.info()

Cclass 'pandas.core.frame.DataFrame'>
Index: 204679 entries, 0 to 204679

Data columns (total 9 columns):
    # Column Non-Wull Count Dtype

    **Ount 204674 non-null object
    **Corm 1 204679 non-null int64
    **Z Term 1 204679 non-null object
    **J Term 2 178804 non-null object
    **J Term 3 140133 non-null object
    **Term 4 93700 non-null object
    **Term 4 93700 non-null object
    **Term 5 60820 non-null object
    **Term 6 38155 non-null object
    **Term 7 24151 non-null object
    **MB

**MB**

**Term 6 36156 Non-null object
    **Term 7 24151 non-null object
    **MB

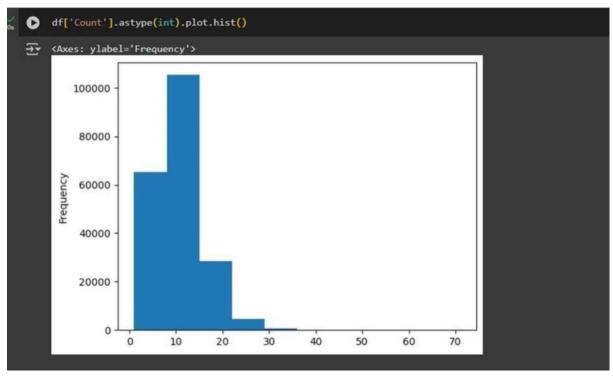
**MB**

**Term 7 24151 non-null object
    **MB**

**Term 8 0 88156 Non-null object
    **MB**

**Term 9 0 88156 Non-null object
    **Term 9 0 88156 Non-null object
```

6. Distribution of count values



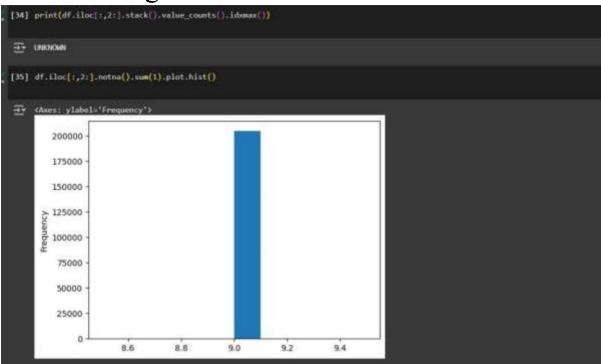
7. Tocleanthedatabyremovingmissing

translation

```
[6] df.dropna(subset=['Term 1'], inplace=True)
print(df[['Word', 'Term 1']].head())

Term 1
0 's gravenhage The Hague
1 'tween decks between decks
2 0.22 twenty-two
3 .22-calibre .22 caliber
4 .22 caliber .22-caliber
```

- 8. Find the most common value in the columns
- 9. Toplotahistogramshowinghowmanynon missings entries each row



10. Tofindthecellthathasshortesttextlength

11. Tofindrowswherethereisonly0-1 nonnull value

- 1 2. Display first 5 rows of the columns
 - countshowmanytimesthelWordIcolumn has duplicate entries.

```
[24] print(df[['Word','Term 2']].head())

Word Term 2
0 's gravenhage 's Gravenhage
1 'tween decks UNKNOWN
2 0.22 firearm (generic term)
3 .22-calibre .22-caliber
4 .22 caliber .22 calibre

[25] print(df['Word'].duplicated().sum())

58888
```

14. countsthenumberofmissing(NaN) values in each column **5**.

countshowmanyrowshaveallvalues missing across the selected columns

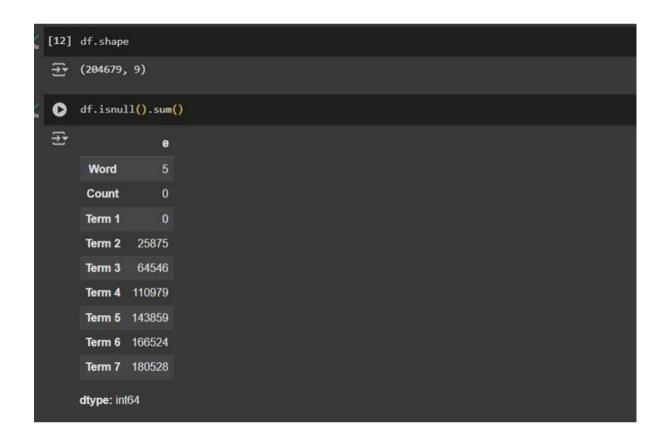
6.randomlyinspecting5wordsandtheir related terms



7.returns the shape of the DataFrame 8.checks for missing values

```
[28] print((df.iloc[:,2:].isna().all(1)).sum())

= 0
```



9.calculates the length of each string in the Word column.

```
[29] print(df.loc[df['Word'].str.len().idxmax(), 'Word'])

Dlood-oxygenation level dependent functional magnetic resonance imaging
```

20. selectsallcolumnsstartingfromthe3rd column onward