


Summary Group Numpy #6



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TABLE OF CONTENTS

O1

12 April 2022

Data Cleansing,
Column Age, Column
Cabin, Column
Embarked

O2

13 April 2022

Data Cleansing,
Column SibSp, Column
Parch, Column Survived,
Column Sex

O3

14 April 2022

Explanatory Data
Analysis

12 April

2022

Data Cleansing, Column Age,
Column Cabin, Column Embarked



Data Cleansing

- ❑ Data Cleansing is a process that cleans data.
- ❑ The data is in the form of tabulus
- ❑ The dataset used is Titania data
- ❑ Numphy is a numerical calculation
- ❑ Data Understanding which is used to examine the data in order to identify problems in the data

Data Cleansing

Some required libraries:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
```

Data Cleansing

Import the data to be cleaned by entering the file into Google Colab

```
[21] from google.colab import files
files.upload()
```

Titanic.csv

Titanic.csv(application/vnd.ms-excel) - 61194 bytes, last modified: n/a - 100% done
Saving Titanic.csv to Titanic.csv
{'Titanic.csv': b'PassengerId,Survived,Pclass,Name,Sex,Age,SibSp,Parch

Data Cleansing

- ❑ `df.head` to display data that has been imported from the top
- ❑ `df.head(10)` indicates the top 10 inputted data
- ❑ `df.tail` to display the imported data from the bottom order

df.head()

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

df.info() is used to check the condition of data showing columns, missing values, and data types.

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 891 entries, 0 to 890  
Data columns (total 12 columns):  
#   Column             Non-Null Count  Dtype    
---  ---               
0   PassengerId         891 non-null    int64    
1   Survived            891 non-null    int64    
2   Pclass              891 non-null    int64    
3   Name                891 non-null    object    
4   Sex                 891 non-null    object    
5   Age                 714 non-null    float64   
6   SibSp               891 non-null    int64    
7   Parch               891 non-null    int64    
8   Ticket              891 non-null    object    
9   Fare                891 non-null    float64   
10  Cabin               204 non-null    object    
11  Embarked            889 non-null    object    
dtypes: float64(2), int64(5), object(5)  
memory usage: 83.7+ KB
```



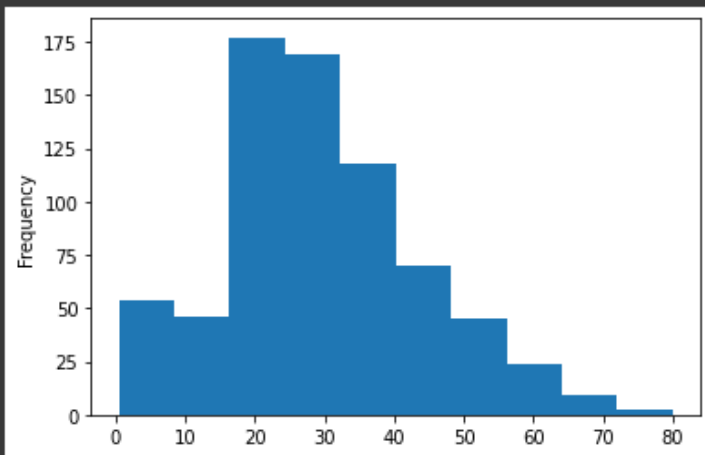
Column Age

Age conditions on imported data

Column Age

Displaying age data in the form of a histogram

```
df['Age'].plot(kind='hist');
```



Column Age

df.age.value_counts() to see the proportional age

```
[27] df.Age.value_counts()

24.00    30
22.00    27
18.00    26
19.00    25
28.00    25
..
36.50     1
55.50     1
0.92      1
23.50     1
74.00     1
Name: Age, Length: 88, dtype: int64
```

Column Age

- Column age has a skewness distribution so use the median
- If the column age distribution is normal, then use the mean



```
val = df.Age.median()  
df['Age'] = df.Age.fillna(val)
```

Column Age

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 891 entries, 0 to 890  
Data columns (total 12 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   PassengerId  891 non-null    int64  
1   Survived     891 non-null    int64  
2   Pclass       891 non-null    int64  
3   Name         891 non-null    object  
4   Sex          891 non-null    object  
5   Age          891 non-null    float64  
6   SibSp        891 non-null    int64  
7   Parch        891 non-null    int64  
8   Ticket       891 non-null    object  
9   Fare         891 non-null    float64  
10  Cabin        204 non-null    object  
11  Embarked     889 non-null    object  
dtypes: float64(2), int64(5), object(5)  
memory usage: 83.7+ KB
```

Column Cabin

```
df.Cabin.value_counts()
```

B96 B98	4
G6	4
C23 C25 C27	4
C22 C26	3
F33	3
..	..
E34	1
C7	1
C54	1
E36	1
C148	1

Name: Cabin, Length: 147, dtype: int64

```
[33] df.drop('Cabin', axis = 1, inplace = True)
```

```
[34] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 11 columns):
#   Column      Non-Null Count  Dtype
---  -
0   PassengerId  891 non-null    int64
1   Survived     891 non-null    int64
2   Pclass       891 non-null    int64
3   Name         891 non-null    object
4   Sex          891 non-null    object
5   Age         891 non-null    float64
6   SibSp        891 non-null    int64
```

There is null data in Cabin because the total number of data entries is 891 and Cabin is 204

The data cabin has many unique values so it's deleted

Column Cabin

- :Delete cabin data and display as follows:

```
[33] df.drop('Cabin', axis = 1, inplace = True)
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 891 entries, 0 to 890  
Data columns (total 11 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   PassengerId  891 non-null    int64  
1   Survived     891 non-null    int64  
2   Pclass       891 non-null    int64  
3   Name         891 non-null    object  
4   Sex          891 non-null    object  
5   Age          891 non-null    float64  
6   SibSp        891 non-null    int64  
7   Parch        891 non-null    int64  
8   Ticket       891 non-null    object  
9   Fare         891 non-null    float64  
10  Embarked     889 non-null    object  
dtypes: float64(2), int64(5), object(4)  
memory usage: 76.7+ KB
```


Column Embarked

- ❑ There is null data on Embarked because the total number of data entries is 891 and Embarked is 889
- ❑ Checking null data location
- ❑ Data column embarked in the form of categorical data

```
[37] df['Embarked'].value_counts()
```

```
S    644
```

```
C    168
```

```
Q     77
```

```
Name: Embarked, dtype: int64
```

```
▶ df.Embarked[df.Embarked.isnull()]
```

```
↳ 61    NaN
```

```
829    NaN
```

```
Name: Embarked, dtype: object
```

Column Embarked

- Perform imputation using the mode because the data is categoric. The mode of the Embarked column proportions is S because it occurs frequently.

```
[45] val = df.Embarked.mode().values[0]  
      df['Embarked'] = df.Embarked.fillna(val)
```

```
df['Embarked'].value_counts()
```

```
S    646  
C    168  
Q     77  
Name: Embarked, dtype: int64
```

13 April

2022

Data Cleansing



Column SibSp and Column Parch



Column SibSp

Column SibSp (Sibling Spouse) is a column that states the number of siblings or the number of partners carried by the passenger



Column Parch

Column Parch (Parent Children) means column which states the number of parents or the number of children carried by Passenger

Column SibSp and Column Parch

We will perform data manipulation. Manipulating here is not to change the value of the data but to make it easier for this data to be read by the machine. We will create a new column that displays whether they are alone or with family.

```
✓ [17] df['Alone']=df['SibSp']+df['Parch']  
0 d
```

```
✓ [18] df['Alone'][df['Alone']>0]='with family'  
0 d df['Alone'][df['Alone']==0]='without family'
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy  
"""Entry point for launching an IPython kernel.
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:2: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy
```

Column Survived and Column Sex

```
df.Sex[df['Survived']==1].value_counts()
female    233
male      109
Name: Sex, dtype: int64
```

Relation Between
Column Survived and
Column Sex

After created a new column. Now,
we will display the newest data.

```
[19] #menampilkan data terbaru
df.head()
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked	Alone
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S	with family
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C	with family
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S	without family
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S	with family
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S	without family



13 April 2022

Explanatory Data Analysis

import the required packages

```
[ ] #import package yang diperlukan  
  
import pandas as pd
```

☐ Create a data frame then load the dataset

☐ Here the dataset used is data Titanic.csv

```
[ ] #buat data frame kemudian load dataset nya  
#disini dataset yang digunakan adalah data Titanic.csv
```

```
from google.colab import files  
files.upload()
```

Pilih File Tidak ada file yang dipilih

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving Titanic.csv to Titanic.csv

```
{'Titanic.csv': b'PassengerId,Survived,Pclass,Name,Sex,Age,SibSp,Parch,Ticket,Fare,Cabin,Embarked\\r\\n1,0,3,"Braund, Mr. Owen Harris",male,22,1,0,A/5 21171,7.25,,S\\r\\n2,1,1,"Cumings,
```


Displays the database that has been loaded

```
[ ] df = pd.read_csv('Titanic.csv')
```

```
#tampilkan dataset yg sudah di load
```

```
df.head()
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

- ❑ pandas default index starts from zero
- ❑ while the dataset index of the PassengerId column starts from one
- ❑ then we will use the index dataset from column PassengerId

```
df = pd.read_csv('Titanic.csv', index_col=0)
```



```
df.head()
```



	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
PassengerId											
1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

- ❑ Checked data condition
- ❑ Int64Index displays the total number of data entered
- ❑ Non null count is the number of data entered that is not null
- ❑ Dtype is the data type of the column

- ❑ display the number of NaN from the dataset

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 891 entries, 1 to 891  
Data columns (total 11 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   Survived    891 non-null    int64  
1   Pclass      891 non-null    int64  
2   Name        891 non-null    object  
3   Sex         891 non-null    object  
4   Age         714 non-null    float64  
5   SibSp       891 non-null    int64  
6   Parch       891 non-null    int64  
7   Ticket      891 non-null    object  
8   Fare        891 non-null    float64  
9   Cabin       204 non-null    object  
10  Embarked    889 non-null    object  
dtypes: float64(2), int64(4), object(5)  
memory usage: 83.5+ KB
```

```
df.isnull().sum()
```

```
Survived    0  
Pclass      0  
Name        0  
Sex         0  
Age         177  
SibSp       0  
Parch       0  
Ticket      0  
Fare        0  
Cabin       687  
Embarked    2  
dtype: int64
```

Display calculations from column datasets of type integer or float

```
df.describe()
```

	Survived	Pclass	Age	SibSp	Parch	Fare
count	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
mean	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
std	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
min	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
25%	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
50%	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
75%	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
max	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

- ❑ Show any unique values in that column
- ❑ For example from column Sex

```
df.Sex.unique()
```

```
2
```

- ❑ Display the proportion of its unique data for the categorical data type

```
df.shape
```

```
(891, 11)
```

```
df.Sex.unique()
```

```
array(['male', 'female'], dtype=object)
```

- ❑ Display the number of unique values in that column

```
df.Sex.value_counts()
```

```
male      577  
female    314  
Name: Sex, dtype: int64
```

- ❑ Display the number of rows and the number of columns of the dataset

Drop duplicate data from dataset

```
df[df.duplicated()]
```

```
Survived  Pclass  Name  Sex  Age  SibSp  Parch  Ticket  Fare  Cabin  Embarked  
PassengerId
```

```
#drop data duplicate dari dataset
```

```
df.drop_duplicates()
```

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
3	1	3	Heikinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
4	1	1	Futelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S
...
887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	NaN	S
888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	S
889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500	NaN	S
890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	C
891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	NaN	Q

891 rows x 11 columns

Column Embarked

There is null data in the Column "Embarked". We can know this from the total number of data entries is 891, while in the Column "Embarked" there is 889. Therefore, we need to check where the data zero is

Then we can show the proportion of the Column "Embarked" to see if any data is categorical

```
[ ] df[df.Embarked.isnull()]
```

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
62	1	1	Icard, Miss. Amelie	female	38.0	0	0	113572	80.0	B28	NaN
830	1	1	Stone, Mrs. George Nelson (Martha Evelyn)	female	62.0	0	0	113572	80.0	B28	NaN

```
[ ] df.Embarked.value_counts()
```

```
S    644  
C    168  
Q     77  
Name: Embarked, dtype: int64
```

Column Embarked

```
[ ] val = df.Embarked.mode().values[0]
    df['Embarked'] = df.Embarked.fillna(val)

[ ] df.Embarked.value_counts()

S    646
C    168
Q     77
Name: Embarked, dtype: int64
```

The imputation uses mode because the result we get from checking the data type of the Column "Embarked" is categoric data. And also from the proportion of Column "Embarked" data is data that appereas frequently, therefore we will use S as the mode

From the imputation, we get the proportion had changed. Before the data from S was 644, now the number of "Embarked" data is 646

Column Embarked

```
[ ] df.Embarked = df.Embarked.map({'S':0, 'C':1, 'Q':2})
```

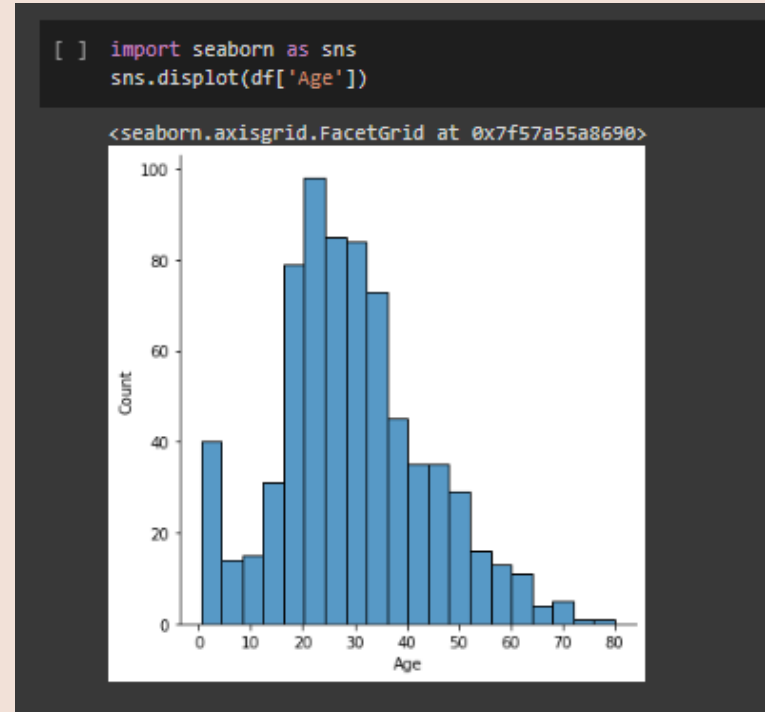
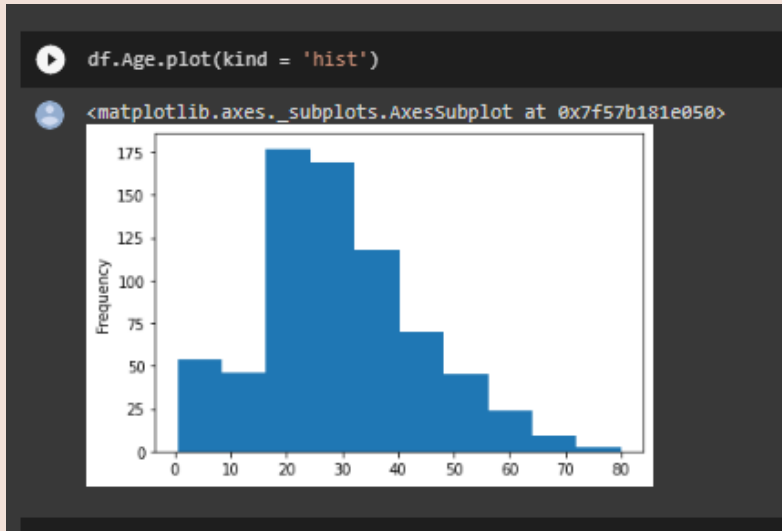
```
[ ] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 891 entries, 1 to 891
Data columns (total 11 columns):
#   Column      Non-Null Count  Dtype
---  ---
0   Survived    891 non-null    int64
1   Pclass      891 non-null    int64
2   Name        891 non-null    object
3   Sex         891 non-null    object
4   Age         714 non-null    float64
5   SibSp       891 non-null    int64
6   Parch       891 non-null    int64
7   Ticket      891 non-null    object
8   Fare        891 non-null    float64
9   Cabin       204 non-null    object
10  Embarked    891 non-null    int64
dtypes: float64(2), int64(5), object(4)
memory usage: 83.5+ KB
```

We have to change the Column “Embarked” data type to “Numerice” type so that we can facilitate the analysis process.

Column Age

There is null data in the Column "Age" because the total number of data entries is 891, while the Column "Age" returns 714



Column Age

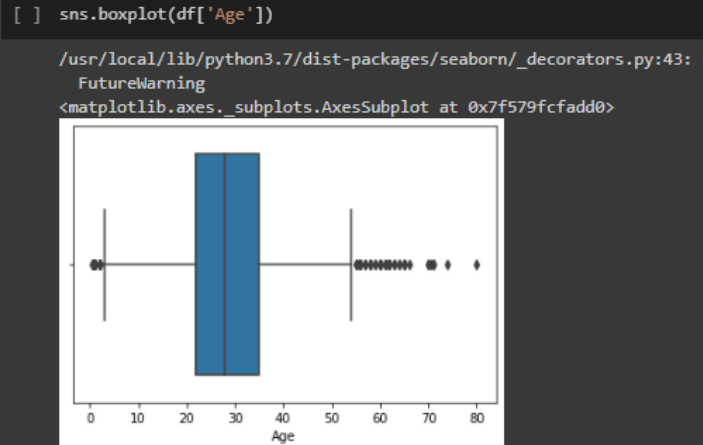
We can use Median to calculate the Column "Age". This is because the Column "Age" has a skewed distribution

```
[ ] val = df.Age.median()
df['Age'] = df.Age.fillna(val)

[ ] df.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 891 entries, 1 to 891
Data columns (total 11 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Survived    891 non-null    int64
1   Pclass      891 non-null    int64
2   Name        891 non-null    object
3   Sex         891 non-null    object
4   Age         891 non-null    float64
5   SibSp       891 non-null    int64
6   Parch       891 non-null    int64
7   Ticket      891 non-null    object
8   Fare        891 non-null    float64
9   Cabin       204 non-null    object
10  Embarked    891 non-null    int64
dtypes: float64(2), int64(5), object(4)
memory usage: 83.5+ KB
```

This the visualization



Column Cabin

```
[ ] df.Cabin.value_counts()
```

```
B96 B98      4
G6           4
C23 C25 C27   4
C22 C26       3
F33          3
..          ..
E34          1
C7           1
C54          1
E36          1
C148         1
```

```
Name: Cabin, Length: 147, dtype: int64
```

```
[ ] df.drop('Cabin',axis = 1, inplace = True)
```

Because Column "Ticket" has too many unique data and the information their give us is not give us many informative to find out "Survived Data". Then we can delete the Column "Ticket"

There is null data in the Column "Cabin". We can know this from the total number of data enteries 891, while in Column "Cabin" there are 204

```
[ ] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 891 entries, 1 to 891
Data columns (total 10 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Survived    891 non-null    int64
1   Pclass      891 non-null    int64
2   Name        891 non-null    object
3   Sex         891 non-null    object
4   Age         891 non-null    float64
5   SibSp       891 non-null    int64
6   Parch       891 non-null    int64
7   Ticket      891 non-null    object
8   Fare        891 non-null    float64
9   Embarked    891 non-null    int64
dtypes: float64(2), int64(5), object(3)
memory usage: 76.6+ KB
```

Column Name

Because Column "Name" has too many unique data and the information they give us is not give us many informative to find out "Survived Data". Then we can delete the Column "Name"

```
[ ] df.drop('Name',axis = 1, inplace = True)
```

```
[ ] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 891 entries, 1 to 891  
Data columns (total 9 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   Survived    891 non-null    int64  
1   Pclass      891 non-null    int64  
2   Sex         891 non-null    object  
3   Age         891 non-null    float64  
4   SibSp       891 non-null    int64  
5   Parch       891 non-null    int64  
6   Ticket      891 non-null    object  
7   Fare        891 non-null    float64  
8   Embarked    891 non-null    int64  
dtypes: float64(2), int64(5), object(2)  
memory usage: 69.6+ KB
```

Column Sex

```
[ ] df.Sex = df.Sex.map({'male':0, 'female':1})
```

```
[ ] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 891 entries, 1 to 891  
Data columns (total 9 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   Survived    891 non-null    int64  
1   Pclass      891 non-null    int64  
2   Sex         891 non-null    int64  
3   Age         891 non-null    float64  
4   SibSp       891 non-null    int64  
5   Parch       891 non-null    int64  
6   Ticket      891 non-null    object  
7   Fare        891 non-null    float64  
8   Embarked    891 non-null    int64  
dtypes: float64(2), int64(6), object(1)  
memory usage: 69.6+ KB
```

We have to change the Column "Sex" data type to "Numerice" type so that we can facilitate the analysis process

Column Ticket

Because Column "Ticket" has too many unique data and the information they give us is not give us many informative to find out "Survived Data". Then we can delete the Column "Ticket"

```
[ ] df.drop('Ticket', axis = 1, inplace = True)
```

```
[ ] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 891 entries, 1 to 891
Data columns (total 8 columns):
#   Column      Non-Null Count  Dtype
---  ---
0   Survived    891 non-null    int64
1   Pclass      891 non-null    int64
2   Sex         891 non-null    int64
3   Age         891 non-null    float64
4   SibSp       891 non-null    int64
5   Parch       891 non-null    int64
6   Fare        891 non-null    float64
7   Embarked    891 non-null    int64
dtypes: float64(2), int64(6)
memory usage: 62.6 KB
```

Survived Data Visualization

```
[ ] import matplotlib.pyplot as plt
    %matplotlib inline

    import seaborn as sns
```

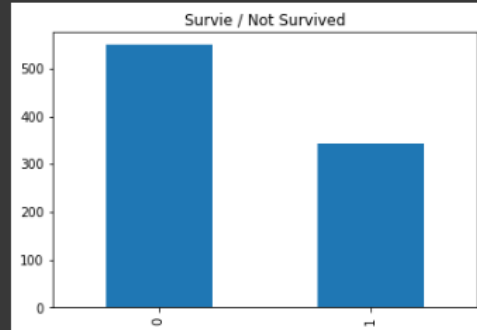
Display the proportion of
Survived Data for visualization
them

import the required packages

```
[ ] df.Survived.value_counts()

0    549
1    342
Name: Survived, dtype: int64
```

```
[ ] df.Survived.value_counts().plot(kind = 'bar');
plt.title('Survive / Not Survived');
```



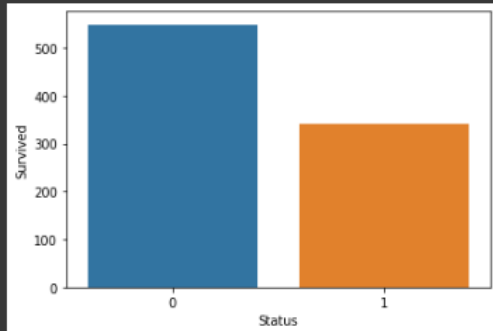
Survived Data Visualization

Create data frame from the Column
Survived

```
[ ] df_survived = pd.DataFrame(df.Survived.value_counts())
```

```
[ ] df_survived['Status']=[0,1]
```

```
[ ] sns.barplot(x='Status', y= 'Survived', data= df_survived);
```

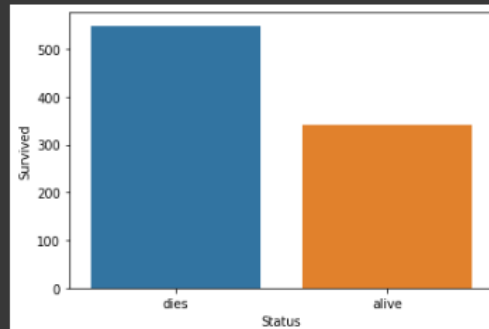


Change the status description

```
[ ] df_survived2 = pd.DataFrame(df.Survived.value_counts())  
df_survived2['Status']=['dies','alive']  
df_survived2
```

	Survived	Status
0	549	dies
1	342	alive

```
[ ] sns.barplot(x='Status', y= 'Survived', data = df_survived2 );
```



Thank
You

