Pandas DataFrame value_counts()

The value_counts () function is used to obtain a DataFrame that contains unique value statistics. The payoff will be downhill so that the first thing becomes a recurring theme. By default, rows containing any NA values are omitted from the result. By default, the emerging Series will be in sequence so that the first thing becomes a recurring row.

DataFrame.value_counts(subset=None, normalize=False, sort=True, ascending=False)

Parameters:	subset list-like, optional Columns to use when counting unique combinations.
	normalize bool, default False Return proportions rather than frequencies.
	sortbool, default True Sort by frequencies.
	ascending bool, default False Sort in ascending order.

import numpy as np import pandas as pd

Example 1:

df = pd.DataFrame({'gender': ['male', 'female', 'female', 'male', 'male', 'female', np.nan]})
print(df)

gender		
0	male	
1	female	
2	female	
3	female	
4	male	
5	male	
6	NaN	

print(df.value_counts())

gender		
male	3	
female	3	

dtype: int64

Example 2:

print(df)

	num_legs	num_wings
parrot	2.0	2
cow	4.0	О
elephant	4.0	О
eagle	2.0	2
ant	6.0	О
unknown	NaN	0

print(df.value_counts())

	num_legs	num_wings
4.0	О	2
2.0	2	2
6.0	О	1

dtype: int64

#Example 3:

print(df.value_counts(ascending=True))

	num_legs	num_wings
6.0	О	1
2.0	2	2
4.0	О	2

dtype: int64

Thus, we can see that value_counts() is a handy tool, and we can do some interesting analysis with this single line of code.