```
In [1]: # Import the necessary libraries
        import pandas as pd
In [2]: # Import the dataset from this address.
        url = 'https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06_Stats/US_Baby_Names/US_Baby_Na
        mes right.csv'
        # Assign it to a variable called baby_names
        baby_names = pd.read_csv(url, index_col = 0 , parse_dates = [0])
        baby_names.info()
        <class 'pandas.core.frame.DataFrame'>
        Int64Index: 1016395 entries, 11349 to 5647425
        Data columns (total 6 columns):
        Id
                  1016395 non-null int64
                  1016395 non-null object
        Name
                  1016395 non-null int64
        Year
        Gender
                 1016395 non-null object
        State 1016395 non-null object
                 1016395 non-null int64
        Count
        dtypes: int64(3), object(3)
        memory usage: 54.3+ MB
```

In [3]: # See the first 10 entries
baby\_names.head(10)

Out[3]:

	ld	Name	Year	Gender	State	Count
11349	11350	Emma	2004	F	AK	62
11350	11351	Madison	2004	F	AK	48
11351	11352	Hannah	2004	F	AK	46
11352	11353	Grace	2004	F	AK	44
11353	11354	Emily	2004	F	AK	41
11354	11355	Abigail	2004	F	AK	37
11355	11356	Olivia	2004	F	AK	33
11356	11357	Isabella	2004	F	AK	30
11357	11358	Alyssa	2004	F	AK	29
11358	11359	Sophia	2004	F	AK	28

In [4]: #Delete the column 'Id' as there are no unnaned columns.

# deletes Unnamed: 0
del baby\_names['Id']
baby\_names.head()

Out[4]:

	Name	Year	Gender	State	Count
11349	Emma	2004	F	AK	62
11350	Madison	2004	F	AK	48
11351	Hannah	2004	F	AK	46
11352	Grace	2004	F	AK	44
11353	Emily	2004	F	AK	41

In [5]: #Show the distribution of male and female
 print(baby\_names.groupby("Gender")['Gender'].size())

## Gender

F 558846 M 457549

Name: Gender, dtype: int64

In [6]: #Group the dataset by name and assign to names
 # group the data
 names = baby\_names.groupby("Name").sum()

# print the first 5 observations
 names.head()

# print the size of the dataset
 print(names.shape)

# sort it from the biggest value to the smallest one
 names.sort\_values("Count", ascending = 0).head()

(17632, 2)

## Out[6]:

	Year	Count
Name		
Jacob	1141099	242874
Emma	1137085	214852
Michael	1161152	214405
Ethan	1139091	209277
Isabella	1137090	204798

In [7]: #4. What is the median name occurrence
 names[names.Count == names.Count.median()]

Out[7]:

	Year	Count
Name		
Aishani	14078	49
Alara	16079	49
Alysse	16057	49
Ameir	16086	49
Anely	16071	49
Antonina	18081	49
Aveline	12065	49
Aziah	16073	49
Baily	16064	49
Caleah	18106	49
Carlota	14077	49
Cristine	14042	49
Dahlila	14063	49
Darvin	16078	49
Deante	18064	49
Deserae	18061	49
Devean	8019	49
Elizah	16063	49
Emmaly	16075	49
Emmanuela	18074	49
Envy	16070	49
Esli	16059	49

	Year	Count
Name		
Fay	16072	49
Gurshaan	14070	49
Hareem	14090	49
lven	14062	49
Jaice	16098	49
Jaiyana	14068	49
Jamiracle	18091	49
Jelissa	16070	49
Kyndle	16082	49
Kynsley	14084	49
Leylanie	16070	49
Maisha	14047	49
Malillany	14087	49
Mariann	16060	49
Marquell	16053	49
Maurilio	16058	49
Mckynzie	14068	49
Mehdi	16070	49
Nabeel	18070	49
Nalleli	16058	49
Nassir	16058	49
Nazier	16061	49

	Year	Count
Name		
Nishant	16050	49
Rebecka	16061	49
Reghan	18073	49
Ridwan	16082	49
Riot	16104	49
Rubin	16055	49
Ryatt	16103	49
Sameera	18083	49
Sanjuanita	10035	49
Shalyn	18061	49
Skylie	16086	49
Sriram	14054	49
Trinton	16069	49
Vita	14075	49
Yoni	16060	49
Zuleima	14050	49

66 rows × 2 columns

In [8]: #5. Distribution of male and female born count by states
 state\_babies = baby\_names.groupby(["State", "Gender"]).size().sort\_values(ascending=False).reset\_index(name=
 'Count')
 state\_babies

Out[8]:

	I	I	I
	State	Gender	Count
0	CA	F	45144
1	TX	F	39760
2	CA	М	31637
3	NY	F	28158
4	TX	М	27791
5	FL	F	25781
6	NY	М	22585
7	IL	F	21268
8	FL	М	20070
9	GA	F	19385
10	ОН	F	18143
11	PA	F	17480
12	NC	F	17357
13	IL	М	16828
14	МІ	F	16038
15	GA	М	15454
16	NJ	F	15041
17	VA	F	14759
18	AZ	F	14518
19	ОН	М	14318
20	PA	М	14171
21	NC	М	13530
22	WA	F	13329

	State	Gender	Count
23	МІ	М	13243
24	TN	F	13063
25	IN	F	13056
26	NJ	М	12274
27	VA	М	11997
28	МО	F	11948
29	СО	F	11424
		•••	
72	NE	М	5029
73	NM	М	4966
74	ID	F	4918
75	ID	М	4833
76	WV	F	4305
77	wv	М	3733
78	ні	М	3546
79	ні	F	3255
80	DC	F	3053
81	DC	М	3000
82	МТ	М	2986
83	ME	F	2976
84	NH	F	2957
85	SD	М	2908
86	SD	F	2838
87	ME	М	2777

			_
	State	Gender	Count
88	МТ	F	2690
89	NH	М	2659
90	AK	М	2587
91	ND	М	2581
92	RI	F	2558
93	DE	F	2549
94	RI	М	2468
95	DE	М	2440
96	AK	F	2404
97	ND	F	2399
98	WY	М	1904
99	VT	М	1618
100	WY	F	1456
101	VT	F	1398

102 rows × 3 columns