PANDAS CONTINUED - Assignment

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Read the dataset from the below link

• https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06 Stats/US Baby Names/US Baby Names right.csv (https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06 Stats/US Baby Names/US Baby Names right.csv)

```
In [1]: import pandas as pd
    df_US_Baby_Names=pd.read_csv('https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06_Stats/US_Baby_Names/US_Baby_Names_right.csv')
```

In [2]: df_US_Baby_Names.head(10)

Out[2]:

	Unnamed: 0	ld	Name	Year	Gender	State	Count
0	11349	11350	Emma	2004	F	AK	62
1	11350	11351	Madison	2004	F	AK	48
2	11351	11352	Hannah	2004	F	AK	46
3	11352	11353	Grace	2004	F	AK	44
4	11353	11354	Emily	2004	F	AK	41
5	11354	11355	Abigail	2004	F	AK	37
6	11355	11356	Olivia	2004	F	AK	33
7	11356	11357	Isabella	2004	F	AK	30
8	11357	11358	Alyssa	2004	F	AK	29
9	11358	11359	Sophia	2004	F	AK	28

Problem 1. Delete unnamed columns

Out[3]:

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	ld	Name	Year	Gender	State	Count
0	11350	Emma	2004	F	AK	62
1	11351	Madison	2004	F	AK	48
2	11352	Hannah	2004	F	AK	46
3	11353	Grace	2004	F	AK	44
4	11354	Emily	2004	F	AK	41
5	11355	Abigail	2004	F	AK	37
6	11356	Olivia	2004	F	AK	33
7	11357	Isabella	2004	F	AK	30
8	11358	Alyssa	2004	F	AK	29
9	11359	Sophia	2004	F	AK	28

Problem 2. Show the distribution of male and female

In [4]: df_US_Baby_Names.groupby(['Gender']).count()

Out[4]:

	ld	Name	Year	State	Count
Gender					
F	558846	558846	558846	558846	558846
М	457549	457549	457549	457549	457549

Problem 3. Show the top 5 most preferred names

```
In [6]: # Most count of the Name is considered as most preferred
# Sort the DataFrame based on the Count (descending) take top five rows

df_US_Baby_Names.sort_values(['Count'],ascending=[False]).head(5)
```

Out[6]:

	ld	Name	Year	Gender	State	Count
107416	678594	Daniel	2004	М	CA	4167
110097	681275	Daniel	2005	М	CA	3914
115739	686917	Daniel	2007	М	CA	3865
112872	684050	Daniel	2006	М	CA	3826
107417	678595	Anthony	2004	М	CA	3805

Problem 4. What is the median name occurence in the dataset

```
In [7]: # Median of the count
print('Median name occurence:\t',df_US_Baby_Names['Count'].median())

Median name occurence: 11.0
```

Problem 5. Distribution of male and female born count by states

 Out[8]:

		Id	Name	Year	Count
		Id	Name	rear	Count
State	Gender				
AK	F	2404	2404	2404	2404
	М	2587	2587	2587	2587
AL	F	9878	9878	9878	9878
	М	8419	8419	8419	8419
AR	F	7171	7171	7171	7171
	М	6475	6475	6475	6475
AZ	F	14518	14518	14518	14518
	М	10820	10820	10820	10820
CA	F	45144	45144	45144	45144
	М	31637	31637	31637	31637
со	F	11424	11424	11424	11424
	М	9183	9183	9183	9183
СТ	F	6575	6575	6575	6575
	М	5733	5733	5733	5733
DC	F	3053	3053	3053	3053
	М	3000	3000	3000	3000
DE	F	2549	2549	2549	2549
	М	2440	2440	2440	2440
FL	F	25781	25781	25781	25781
	М	20070	20070	20070	20070
GA	F	19385	19385	19385	19385
	М	15454	15454	15454	15454

		ld	Name	Year	Count
State	Gender				
н	F	3255	3255	3255	3255
	М	3546	3546	3546	3546
IA	F	7131	7131	7131	7131
	М	6307	6307	6307	6307
ID	F	4918	4918	4918	4918
	М	4833	4833	4833	4833
IL	F	21268	21268	21268	21268
	М	16828	16828	16828	16828
	•••				
ок	F	9519	9519	9519	9519
	М	8138	8138	8138	8138
OR	F	8604	8604	8604	8604
	М	7333	7333	7333	7333
PA	F	17480	17480	17480	17480
	М	14171	14171	14171	14171
RI	F	2558	2558	2558	2558
	М	2468	2468	2468	2468
sc	F	9465	9465	9465	9465
	М	8195	8195	8195	8195
SD	F	2838	2838	2838	2838
	М	2908	2908	2908	2908
TN	F	13063	13063	13063	13063

		ld	Name	Year	Count
State	Gender				
	М	10588	10588	10588	10588
TX	F	39760	39760	39760	39760
	М	27791	27791	27791	27791
UT	F	9515	9515	9515	9515
	М	8233	8233	8233	8233
VA	F	14759	14759	14759	14759
	М	11997	11997	11997	11997
VT	F	1398	1398	1398	1398
	М	1618	1618	1618	1618
WA	F	13329	13329	13329	13329
	М	11049	11049	11049	11049
wı	F	10549	10549	10549	10549
	М	8940	8940	8940	8940
wv	F	4305	4305	4305	4305
	М	3733	3733	3733	3733
WY	F	1456	1456	1456	1456
	М	1904	1904	1904	1904

102 rows × 4 columns