Read the dataset from the below link

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

Questions:

- 1. Delete unnamed columns
- 2. Show the distribution of male and female
- 3. Show the top 5 most preferred names
- 4. What is the median name occurence in the dataset
- 5. Distribution of male and female born count by states

In [1]:

```
import pandas as pd
import io
import requests
```

In [6]:

```
url="https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06_Stats/US_Baby_
s=requests.get(url).content
df=pd.read_csv(io.StringIO(s.decode('utf-8')))
```

In [7]:

type(df)

Out[7]:

pandas.core.frame.DataFrame

In [8]:

df.head()

Out[8]:

	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

```
In [9]:
```

```
df.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1016395 entries, 0 to 1016394

Data columns (total 7 columns):

Unnamed: 0 1016395 non-null int64
Id 1016395 non-null int64
Name 1016395 non-null object
Year 1016395 non-null int64
Gender 1016395 non-null object
State 1016395 non-null object
Count 1016395 non-null int64

dtypes: int64(4), object(3)
memory usage: 54.3+ MB

1. Delete unnamed columns

```
In [12]:
```

```
In [15]:
```

```
\tt df.drop(df.columns[df.columns.str.contains('unnamed', case = False)], axis = 1, inplace = True)
```

In [16]:

```
df.head()
```

Out[16]:

	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

2. Show the distribution of male and female

```
In [33]:
```

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

Out[33]:

F 558846 M 457549

Name: Gender, dtype: int64

3. Show the top 5 most preferred names

```
In [59]:
```

```
df['Name'].value_counts().head(5)
```

Out[59]:

Riley 1112 Avery 1080 Jordan 1073 Peyton 1064 Hayden 1049

Name: Name, dtype: int64

In [62]:

```
top5=df['Name'].value_counts().head(5).index.values
```

In [63]:

```
for i in top5:
    print(i)
```

Riley

Avery

Jordan

Peyton

Hayden

4. What is the median name occurence in the dataset

In [64]:

df.head()

Out[64]:

	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

```
In [65]:
```

df.Name.describe()

Out[65]:

count 1016395 unique 17632 top Riley freq 1112

Name: Name, dtype: object

In [74]:

df['Name'].value_counts().median()

Out[74]:

8.0

5. Distribution of male and female born count by states

In [75]:

df.head()

Out[75]:

	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

In [95]:

```
df.groupby(['State','Gender'])['Count'].sum()
```

Out[95]:

State	Gender	
AK	F	26250
	М	37399
AL	F	215308
	М	260114
AR	F	129712
	М	162947
ΑZ	F	368567
	М	439691
CA	F	2414063
	M	2670584
CO	F	260805
	M	313425
СТ	F	141350
	M	171397
DC	F	35276
	М	47228
DE	F	31312
J_	M	41748
FL	F	915422
	M	1060957
GA	F	549637
G/1	M	635531
HI	F	37279
	M	53127
IA	F	144764
17	M	174009
ID	F	72808
10	M	94320
IL	F	695312
TL	M	791679
	m	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
OK	F	184967
	М	228613
OR	F	172111
	М	209445
PA	F	593382
	М	682709
RI	F	35560
	М	47939
SC	F	197917
	М	237442
SD	F	34104
	М	45443
TN	F	336487
	М	398615
TX	F	1786281
	М	2005394
UT	F	202892
	M	245324
VA	F	405503
	M	466873
VT	F	15079
٠.	M	21353
WA	F	334944
	-	33.317

	М	395377
WI	F	264921
	М	311758
WV	F	73800
	М	93557
WY	F	14107
	М	21912

Name: Count, dtype: int64