	US - Baby Names
	Introduction:
	We are going to use a subset of US Baby Names from Kaggle.
	In the file it will be names from 2004 until 2014 Stop 1. Import the pocossary libraries
In [1]:	Step 1. Import the necessary libraries import pandas as pd
	Step 2. Import the dataset from this address. Step 3. Assign it to a variable called baby_names.
In [2]:	baby_names = pd.read_csv('https://raw.githubusercontent.com/guipsamora/pandas_exercises/master/06_Stats/US_Baby_Names/US_Baby_Names_right.csv')
	<pre>baby_names.info() <class 'pandas.core.frame.dataframe'=""></class></pre>
	RangeIndex: 1016395 entries, 0 to 1016394 Data columns (total 7 columns): # Column Non-Null Count Dtype
	0 Unnamed: 0 1016395 non-null int64 1 Id 1016395 non-null int64
	2 Name 1016395 non-null object 3 Year 1016395 non-null int64 4 Gender 1016395 non-null object
	5 State 1016395 non-null object 6 Count 1016395 non-null int64 dtypes: int64(4), object(3)
	memory usage: 54.3+ MB Step 4. See the first 10 entries
In [3]:	baby_names.head(10)
Out[3]:	Unnamed: 0 Id 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
In [4]:	Step 5. Delete the column 'Unnamed: 0' and 'Id' baby_names.drop(["Unnamed: 0", "Id"], axis =1, inplace=True)
	baby_names
Out[4]:	Name Year Gender State Count 0 Emma 2004 F AK 62
	1 Madison 2004 F AK 48 2 Hannah 2004 F AK 46
	3 Grace 2004 F AK 44 4 Emily 2004 F AK 41
	1016391 Spencer 2014 M WY 5
	1016392 Tyce 2014 M WY 5 1016393 Victor 2014 M WY 5
	1016394 Waylon 2014 M WY 5 1016395 rows × 5 columns
	Step 6. Is there more male or female names in the dataset?
In [5]:	baby_names.groupby("Gender").count()
Out[5]:	Name Year State Count
	Gender F 558846 558846 558846 558846
	M 457549 457549 457549 457549
In [6]:	baby_names['Gender'].value_counts()
Out[6]:	F 558846 M 457549 Name: Gender, dtype: int64
	Step 7. Group the dataset by name and assign to names
In [7]:	baby_names.groupby("Name").sum()
Out[7]:	Year Count Name
	Aaban 4027 12 Aadan 8039 23
	Aadarsh 2009 5
	Aaden 393963 3426 Aadhav 2014 6
	Zyra 14085 42
	Zyren 2013 6
	Zyria 20089 59 Zyriah 18087 58
	17632 rows × 2 columns
	Step 8. How many different names exist in the dataset?
In [8]:	<pre>baby_names["Name"].nunique()</pre>
Out[8]:	
In [9]:	Step 9. What is the name with most occurrences? baby_names["Name"].value_counts().sort_values(ascending=False)
Out[9]:	Riley 1112
	Avery 1080 Jordan 1073 Peyton 1064 Hayden 1049
	Man 1 Cordale 1
	Kenson 1 Lofton 1 Augustas 1
	Name: Name, Length: 17632, dtype: int64 Step 10. How many different names have the least occurrences?
In [10]:	baby_names["Name"].value_counts().sort_values(ascending=True)
Out[10]:	Augustas 1 Lofton 1
	Kenson 1 Cordale 1 Man 1
	Hayden 1049 Peyton 1064 Jordan 1073
	Avery 1080 Riley 1112 Name: Name, Length: 17632, dtype: int64
	Step 11. What is the median name occurrence?
In [11]:	<pre>baby_names.Count == baby_names.Count.median()]</pre>
Out[11]:	Name Year Gender State Count
	71 Makayla 2004 F AK 11 72 Maria 2004 F AK 11
	73 Mary 2004 F AK 11 74 Michelle 2004 F AK 11
	259 Alexandra 2005 F AK 11
	1016276 Christopher 2014 M WY 11 1016277 Corbin 2014 M WY 11
	1016278 Gavin 2014 M WY 11 1016279 Greyson 2014 M WY 11
	1016280 Isaiah 2014 M WY 11
	Step 12. What is the standard deviation of names?
In [12]:	Step 12. What is the standard deviation of names? baby_names["Count"].std()
Out[12]:	97.39734648625934
	Step 13. Get a summary with the mean, min, max, std and quartiles.
In [13]:	<pre>baby_names.describe()</pre>
Out[13]:	Year Count count 1.016395e+06 1.016395e+06
	mean 2.009053e+03 3.485012e+01
	std 3.138293e+00 9.739735e+01 min 2.004000e+03 5.000000e+00
	25% 2.006000e+03 7.000000e+00 50% 2.009000e+03 1.100000e+01
	75% 2.012000e+03 2.600000e+01 max 2.014000e+03 4.167000e+03