

**** Import pandas as pd.****

In [6]:

**** Read Salaries.csv as a dataframe called sal.****

In [7]:

**** Check the head of the DataFrame. ****

In [8]:

Out[8]:

	Id	EmployeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	TotalPay
0	1	NATHANIEL FORD	GENERAL MANAGER-METROPOLITAN TRANSIT AUTHORITY	167411.18	0.00	400184.25	NaN	567595.43
1	2	GARY JIMENEZ	CAPTAIN III (POLICE DEPARTMENT)	155966.02	245131.88	137811.38	NaN	538909.28
2	3	ALBERT PARDINI	CAPTAIN III (POLICE DEPARTMENT)	212739.13	106088.18	16452.60	NaN	335279.91
3	4	CHRISTOPHER CHONG	WIRE ROPE CABLE MAINTENANCE MECHANIC	77916.00	56120.71	198306.90	NaN	332343.61
4	5	PATRICK GARDNER	DEPUTY CHIEF OF DEPARTMENT, (FIRE DEPARTMENT)	134401.60	9737.00	182234.59	NaN	326373.19

**** Use the .info() method to find out how many entries there are.****

In [9]:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148654 entries, 0 to 148653
Data columns (total 13 columns):
Id                148654 non-null int64
EmployeeName      148654 non-null object
JobTitle          148654 non-null object
BasePay           148045 non-null float64
OvertimePay       148650 non-null float64
OtherPay          148650 non-null float64
Benefits          112491 non-null float64
TotalPay          148654 non-null float64
TotalPayBenefits  148654 non-null float64
Year              148654 non-null int64
Notes             0 non-null float64
Agency           148654 non-null object
Status            0 non-null float64
dtypes: float64(8), int64(2), object(3)
memory usage: 14.7+ MB
```

What is the average BasePay ?

In [10]:

Out[10]: 66325.44884050643

**** What is the highest amount of OvertimePay in the dataset ? ****

In [11]:

Out[11]: 245131.88

**** What is the job title of JOSEPH DRISCOLL ? Note: Use all caps, otherwise you may get an answer that doesn't match up (there is also a lowercase Joseph Driscoll). ****

In [12]:

Out[12]: 24 CAPTAIN, FIRE SUPPRESSION
Name: JobTitle, dtype: object

**** How much does JOSEPH DRISCOLL make (including benefits)? ****

In [13]:

Out[13]: 24 270324.91
Name: TotalPayBenefits, dtype: float64

**** What is the name of highest paid person (including benefits)?****

In [14]:

Out[14]:

	Id	EmployeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	TotalPa
0	1	NATHANIEL FORD	GENERAL MANAGER-METROPOLITAN TRANSIT AUTHORITY	167411.18	0.0	400184.25	NaN	567595.4

** What is the name of lowest paid person (including benefits)? Do you notice something strange about how much he or she is paid? **

In [15]:

Out[15]:

	Id	EmployeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	Total
148653	148654	Joe Lopez	Counselor, Log Cabin Ranch	0.0	0.0	-618.13	0.0	-618

** What was the average (mean) BasePay of all employees per year? (2011-2014) ? **

In [16]:

Out[16]:

```
Year
2011    63595.956517
2012    65436.406857
2013    69630.030216
2014    66564.421924
Name: BasePay, dtype: float64
```

** How many unique job titles are there? **

In [17]:

Out[17]: 2159

** What are the top 5 most common jobs? **

In [18]:

Out[18]:

```
Transit Operator    7036
Special Nurse       4389
Registered Nurse    3736
Public Svc Aide-Public Works  2518
Police Officer 3    2421
Name: JobTitle, dtype: int64
```

** How many Job Titles were represented by only one person in 2013? (e.g. Job Titles with only one occurrence in 2013?) **

In [19]:

Out[19]: 202

** How many people have the word Chief in their job title? (This is pretty tricky) **

In [20]:

In [21]:

Out[21]: 477

** Bonus: Is there a correlation between length of the Job Title string and Salary? **

In [22]:

In [23]:

Out[23]:

	title_len	TotalPayBenefits
title_len	1.000000	-0.036878
TotalPayBenefits	-0.036878	1.000000