

HW4 - Salaries - 題目

- 使用 salaries file
- 寫下各題程式碼
- 上傳 ipynb file

** Import pandas as pd.**

In [1]:

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

In [2]:

2. Check the head of the DataFrame.

In [3]:

Out[3]:

	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

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

In [4]:



```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148654 entries, 0 to 148653
Data columns (total 13 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Id                    148654 non-null  int64
1   EmployeeName         148654 non-null  object
2   JobTitle              148654 non-null  object
3   BasePay               148045 non-null  float64
4   OvertimePay           148650 non-null  float64
5   OtherPay              148650 non-null  float64
6   Benefits              112491 non-null  float64
7   TotalPay              148654 non-null  float64
8   TotalPayBenefits      148654 non-null  float64
9   Year                  148654 non-null  int64
10  Notes                  0 non-null       float64
11  Agency                148654 non-null  object
12  Status                 0 non-null       float64
dtypes: float64(8), int64(2), object(3)
memory usage: 14.7+ MB
```

4. What is the average BasePay ?

In [5]:



Out[5]:

66325.44884050643

5. What is the highest amount of OvertimePay in the dataset ?

In [6]:



Out[6]:

245131.88

6. What is the job title of JOSEPH DRISCOLL ? 註: 只考慮大寫JOSEPH DRISCOLL · 不考慮Joseph Driscoll.

In [7]:



Out[7]:

```
24    CAPTAIN, FIRE SUPPRESSION
Name: JobTitle, dtype: object
```

7. How much does JOSEPH DRISCOLL make (including benefits)?

In [8]:



Out[8]:

```
24    270324.91
Name: TotalPayBenefits, dtype: float64
```

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

In [9]:



Out[9]:

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

9. How many unique job titles are there?

In [10]:



Out[10]:

```
2159
```

10. What are the top 5 most common jobs?

In [11]:



Out[11]:

Transit Operator	7036
Special Nurse	4389
Registered Nurse	3736
Public Svc Aide-Public Works	2518
Police Officer 3	2421

Name: JobTitle, dtype: int64