Question 1

Id EmployeeName ... Agency Status

0 1 Nathaniel Ford ... San Francisco NaN

1 2 Gary Jimenez ... San Francisco NaN

2 3 Albert Pardini ... San Francisco NaN

3 4 Christopher Chong ... San Francisco NaN

4 5 Patrick Gardner ... San Francisco NaN

[5 rows x 13 columns]

Question 2

<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 148049 non-null object

4 OvertimePay 148654 non-null object

5 OtherPay 148654 non-null object

6 Benefits 112495 non-null object

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 38119 non-null object

dtypes: float64(3), int64(2), object(8)

memory usage: 14.7+ MB

Question 3

Average base pay for first 10000 Employees: $112,236.76

Question 4

Maximum of all total pay benefits: $567,595.43

Question 5

Joseph Driscoll's title is: Captain, Fire Suppression

Question 6

Joseph Driscoll's total pay with benefits is: $270,324.91

Question 7

The person with the highest pay is: Nathaniel Ford at $567,595.43

Question 8

The person with the lowest pay is: Joe Lopez at $-618.13

It is odd that they have a negative pay.

Question 9

Average pay for all employees in 2011: $71,744.1

Average pay for all employees in 2012: $74,113.26

Average pay for all employees in 2013: $77,611.44

Average pay for all employees in 2014: $75,463.92

Question 10

Number of unique job titles: 1637

Question 11

Top 7 most common job titles:

Number 1: Transit Operator

Number 2: Special Nurse

Number 3: Registered Nurse

Number 4: Custodian

Number 5: Firefighter

Number 6: Recreation Leader

Number 7: Deputy Sheriff

Question 12

Number of job titles in 2013 with only one holder: 202

Question 13

Number of people with Chief in their title: 627

Question 14

Pearson correlation coefficient between job title length and pay is: -0.03688

This shows no correlation.