import pandas as np In [6]: df = np.read csv('Copy of Copy of Salaries.csv.csv') In [8]: df Id EmployeeName **JobTitle** BasePay OvertimePay OtherPay Benefits TotalPay TotalPayBenefits Year Notes Agency Out[8]: **GENERAL** MANAGER-**NATHANIEL** San METROPOLITAN 167411.18 0.00 400184.25 NaN 567595.43 567595.43 2011 **FORD** Francisco **TRANSIT AUTHORITY CAPTAIN III** San 1 2 GARY JIMENEZ (POLICE 155966.02 245131.88 137811.38 NaN 538909.28 538909.28 2011 Francisco DEPARTMENT) CAPTAIN III **ALBERT** San 2 3 (POLICE 212739.13 106088.18 16452.60 NaN 335279.91 335279.91 2011 Francisco **PARDINI** DEPARTMENT) WIRE ROPE **CHRISTOPHER CABLE** 77916.00 56120.71 198306.90 NaN 332343.61 332343.61 2011 **CHONG MAINTENANCE MECHANIC DEPUTY CHIEF PATRICK** 5 **DEPARTMENT**, 134401.60 9737.00 182234.59 NaN 326373.19 326373.19 2011 **GARDNER** (FIRE DEPARTMENT) San 0.00 0.00 0.00 0.0 0.00 0.00 2014 **148649** 148650 Roy I Tillery Custodian Francisco San **148650** 148651 Not provided Not provided NaN NaN NaN NaN 0.00 0.00 2014 Francisco **148651** 148652 Not provided Not provided NaN NaN NaN 0.00 0.00 2014 NaN NaN Francisco

			ld	Emple	oyeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	TotalPay To	otalPayBene	efits Ye	ear Notes	Agency
	148	3652	148653	N	ot provided	Not provided	NaN	NaN	NaN	NaN	0.00	(0.00 20	14 NaN	San Francisco
	148	3653	148654		Joe Lopez	Counselor, Log Cabin Ranch	0.00	0.00	-618.13	0.0	-618.13	-618	8.13 20	14 NaN	San Francisco
	148	654	rows × 13	3 colur	mns										
	4														>
In [9]:	df	f.he	ad()												
Out[9]:		ld	Employee	Name	JobTi	tle BasePay	OvertimePa	y OtherPay	Benefits	TotalPay	TotalPayBene	efits Year	Notes	Agency	Status
	0	1	NATH <i>A</i>	ANIEL FORD	GENER MANAGE METROPOLIT TRANS AUTHORI	:R- AN 167411.18 SIT	0.0	00 400184.25	NaN	567595.43	567599	5.43 2011	NaN	San Francisco	NaN
	1	2	GARY JIM	ENEZ	CAPTAIN (POLI) DEPARTMEN	CE 155966.02	245131.8	38 137811.38	NaN	538909.28	538909	9.28 2011	NaN	San Francisco	NaN
	2	3		BERT RDINI	CAPTAIN (POLI) DEPARTMEN	CE 212739.13	106088.1	8 16452.60	NaN	335279.91	335279	9.91 2011	NaN	San Francisco	NaN
	3	4	CHRISTOI CH	PHER HONG	WIRE RO CAB MAINTENAN MECHAN	LE 77916.00	56120.7	71 198306.90	NaN	332343.61	332343	3.61 2011	NaN	San Francisco	NaN
	4	5		TRICK ONER	DEPUTY CHI DEPARTMEI (FII DEPARTMEN	OF NT, 134401.60 RE	9737.0	00 182234.59	NaN	326373.19	326373	3.19 2011	NaN	San Francisco	NaN
n [10]:	df	f.ta	il()												
Out[10]:			ld	Emple	oyeeName .	lobTitle Base	Pay Overtin	nePay OtherF	ay Benef	its TotalPa	y TotalPayBe	nefits Yea	ar Note	s Agend	y Status

		ld	EmployeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	TotalPay	TotalPayBenefits	Year	Notes	Agency	Status
	148649	148650	Roy I Tillery	Custodian	0.0	0.0	0.00	0.0	0.00	0.00	2014	NaN	San Francisco	NaN
	148650	148651	Not provided	Not provided	NaN	NaN	NaN	NaN	0.00	0.00	2014	NaN	San Francisco	NaN
	148651	148652	Not provided	Not provided	NaN	NaN	NaN	NaN	0.00	0.00	2014	NaN	San Francisco	NaN
	148652	148653	Not provided	Not provided	NaN	NaN	NaN	NaN	0.00	0.00	2014	NaN	San Francisco	NaN
	148653	148654	Joe Lopez	Counselor, Log Cabin Ranch	0.0	0.0	-618.13	0.0	-618.13	-618.13	2014	NaN	San Francisco	NaN
In [11]:	<pre>df.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 148654 entries, 0 to 148653</class></pre>													
	# C	olumns olumn	(total 13 co No	lumns): n-Null Cou	nt Dty	•								
	0 I 1 E 2 J 3 B 4 0 5 0 6 B 7 T 8 T 9 Y 10 N 11 A 12 S dtypes	d mployee obTitle asePay vertime therPay enefits otalPay ear otes gency tatus : float	Pay 14.	8654 non-n 8654 non-n 8654 non-n 8650 non-n 8650 non-n 2491 non-n 8654 non-n 8654 non-n non-null 8654 non-n	ull int ull obj ull flo ull flo ull flo ull flo ull flo ull flo ull obj	64 ect ect at64 at64 at64 at64 at64 at64 at64								
In [13]:	df.gr	oupby ('	Year')											

 $\verb"Out[13]: \verb"<pandas.core.groupby.generic.DataFrameGroupBy object at 0x0000000EDD0DA1A30> \\$

```
df.groupby('Year').mean()
In [14]:
                             BasePay OvertimePay
                                                     OtherPay
                                                                   Benefits
                                                                                TotalPay TotalPayBenefits Notes Status
Out[14]:
           Year
           2011
                 18080.0 63595.956517 4531.065429
                                                   3617.081926
                                                                       NaN 71744.103871
                                                                                            71744.103871
                                                                                                           NaN
                                                                                                                  NaN
                                                                                           100553.229232
                                                                                                                  NaN
           2012
                 54542.5 65436.406857
                                       5023.417824 3653.437583 26439.966967 74113.262265
                                                                                                           NaN
           2013
                 91728.5 69630.030216
                                       5281.641980
                                                   3819.969007
                                                               23829.076572 77611.443142
                                                                                           101440.519714
                                                                                                           NaN
                                                                                                                  NaN
          2014 129593.0 66564.421924
                                       5401.993737 3505.421251 24789.601756 75463.918140
                                                                                           100250.918884
                                                                                                           NaN
                                                                                                                  NaN
 In [ ]:
```