| Statistica | Untitled | Untitle

```
Statistical
                      Ů
                                                          ①
                                                                                                default ▼
                                                                                  FINISHED ▷ ♯ 圓 �
   %python
   from pandas import Series, DataFrame
   import numpy as np, pandas as pd
   df = DataFrame([[1.4,np.nan],[7.1,-4.5],
                   [np.nan, np.nan], [0.75, -1.3]],
                   index=['a','b','c','d'],
                   columns=['one','two'])
  Took 3 sec. Last updated by anonymous at February 23 2017, 6:45:12 PM.
                                                                                  FINISHED ▷ 光 圓 ��
   %python
   df
   df.sum()
   df.sum(axis=1)
   df.mean(axis=1,skipna=False)
   df.idxmax()
   df.describe()
   obj = Series(['a', 'a', 'b', 'c'] * 4)
   obj
      one two
    1.40 NaN
     7.10 - 4.5
      NaN NaN
     0.75 - 1.3
  d
         9.25
  one
        -5.80
  two
  dtype: float64
       1.40
  b
       2.60
       0.00
  C
      -0.55
  dtype: float64
         NaN
       1.300
  b
         NaN
  d
      -0.275
  4+vna. t1va+61
  Took 0 sec. Last updated by anonymous at February 23 2017, 6:45:50 PM.
                                                                                  FINISHED ▷ 💥 🗐 🕸
   %python
```

%python
obj.describe()

count 16
unique 3
top a
freq 8
dtype: object

Took 0 sec. Last updated by anonymous at February 23 2017, 6:46:33 PM.

```
Zeppelin
```

```
FINISHED ▷ 🐰 🗐 🐯
  %python
Stadin Sild Careader i in 1881 to data de Med
                                                    Û
                                                            ②
                                                                                                   default ▼
   from pylab import *
   from pandas.io.data import *
  all_data = {}
  for ticker in ['AAPL','IBM','MSFT','GOOG']:
     all_data[ticker] = web.get_data_yahoo(ticker)
 Took 2 sec. Last updated by anonymous at February 23 2017, 6:50:40 PM.
                                                                                    FINISHED ▷ 端 圓 儉
  %python
   price = DataFrame({tic: data['Adj Close']
       for tic, data in all_data.items()})
  volume = DataFrame({tic: data['Volume']
       for tic, data in all_data.items()})
  returns = price.pct_change()
 Took 0 sec. Last updated by anonymous at February 23 2017, 6:51:07 PM.
                                                                                    FINISHED ▷ 光 圓 ۞
  %python
  returns.tail()
   returns.MSFT.corr(returns.IBM)
  returns.MSFT.cov(returns.IBM)
  returns.corr()
  returns.cov()
   returns.corrwith(returns.IBM)
  returns.corrwith(volume)
                   AAPL
                              GOOG
                                          IBM
                                                    MSFT
 Date
 2017-02-15 0.003629 -0.001792 0.008605 -0.000619
 2017-02-16 -0.001181 0.006325 -0.001376 -0.000155
 2017-02-17 0.002734 0.004744 -0.004189 0.001550
 2017-02-21 0.007221 0.004335 -0.002269 -0.002012
 2017-02-22 0.002999 -0.001082 0.004937 -0.002016
 0.49515377802280919
 8.5977652563835427e-05
            AAPL
                       GOOG
                                   IBM
                                             MSFT
 AAPL
       1.000000 0.409541 0.381549
                                         0.388972
 GOOG 0.409541 1.000000 0.402872
                                         0.470820
 IBM
        0.381549 0.402872 1.000000
                                         0.495154
 MSFT
        0.388972
                   0.470820 0.495154
                                         1.000000
            AAPL
                       GOOG
                                   IBM
                                             MSFT
 AAPL
        0.000270 0.000105 0.000075
                                         0.000093
 GOOG
        0.000105
                   0.000244
                              0.000075
                                         0.000107
        a aaaa75
                   A AAAA75
                             \alpha \alpha\alpha\alpha144
                                         \alpha \alpha\alpha\alpha\alpha\alpha\alpha
 Took 0 sec. Last updated by anonymous at February 23 2017, 6:51:35 PM.
```

READY ▷ 牂 圓 ��