feb16 poornima

```
%pyspark
from pandas import Series, DataFrame
import pandas as pd

Took O sec. Last updated by anonymous at February 16 2017, 7:22:28 PM.
```

```
%pyspark
obj.values
obj.index
obj2 = Series([4, 7, -5, 3], index=['d', 'b', 'a', 'c'])
obj2
obj2.index
obj2['a']
obj2['d'] = 6

Took 0 sec. Last updated by anonymous at February 16 2017, 7:25:02 PM.
```

```
%pyspark
import numpy as np
np.exp(obj2)
'b' in obj2
'e' in obj2
```

FINISHED

```
sdata = {'Ohio': 35000, 'Texas': 71000, 'Oregon': 16000, 'Utah': 5000}
 obj3 = Series(sdata)
 obi3
 states = ['California', 'Ohio', 'Oregon', 'Texas']
 obj4 = Series(sdata, index=states)
 obj4
California
                   NaN
Ohio
               35000.0
0regon
               16000.0
Texas
               71000.0
dtype: float64
Took 0 sec. Last updated by anonymous at February 16 2017, 7:25:32 PM.
```

```
%pyspark
                                                                                                  FINISHED
 pd.isnull(obj4)
 pd.notnull(obj4)
 obj4.isnull()
 obj3
 obi4
 obj3 + obj4
 obj4.name = 'population'
 obj4.index.name = 'state'
 obj.index = ['Bob', 'Steve', 'Jeff', 'Ryan']
 obj
Bob
          4
          7
Steve
Jeff
         -5
Ryan
          3
dtype: int64
Took 0 sec. Last updated by anonymous at February 16 2017, 7:25:53 PM.
```

```
%pyspark
frame2
frame2.columns
frame2['state']
frame2.year
frame2.ix['three']
frame2['debt'] = 16.5
frame2
frame2['debt'] = np.arange(5.)
```

```
frame2
       year
               state pop
                            debt
       2000
                Ohio 1.5
                              0.0
one
two
       2001
                Ohio 1.7
                              1.0
three 2002
                Ohio 3.6
                              2.0
       2001 Nevada 2.4
                              3.0
four
five
       2002 Nevada 2.9
                             4.0
Took 0 sec. Last updated by anonymous at February 16 2017, 7:26:21 PM.
```

```
%pyspark
val = Series([-1.2, -1.5, -1.7], index=['two', 'four', 'five'])
frame2['debt'] = val
frame2
frame2['eastern'] = frame2.state == 'Ohio'
frame2
del frame2['eastern']
frame2.columns
Index([u'year', u'state', u'pop', u'debt'], dtype='object')
Took 0 sec. Last updated by anonymous at February 16 2017, 7:26:37 PM.
```

```
%pyspark
                                                                                               FINISHED
 pop = {'Nevada': {2001: 2.4, 2002: 2.9},
         'Ohio': {2000: 1.5, 2001: 1.7, 2002: 3.6}}
 frame3 = DataFrame(pop)
 frame3
 frame3.T
 pdata = {'Ohio': frame3['Ohio'][:-1],
          'Nevada': frame3['Nevada'][:2]}
 DataFrame(pdata)
      Nevada Ohio
2000
         NaN
                1.5
2001
          2.4
                1.7
Took 1 sec. Last updated by anonymous at February 16 2017, 7:26:50 PM.
```

%pyspark

READY