

Pandas Slice01

November 21, 2016

```
In [2]: import pandas as pd
        s = pd.Series([1, 2, 3])
        s.loc['Animal'] = 'Bears'
        s
```

```
Out[2]: 0          1
        1          2
        2          3
        Animal    Bears
        dtype: object
```

```
In [3]: original_sports = pd.Series({
        'Archery' : 'Bhutan',
        'Golf' : 'Scotland',
        'Sumo' : 'Japan',
        'Taekwondo' : 'South Korea'
        })
        cricket_loving_countries = pd.Series(['Australia', 'Barbados', 'Pakistan',
        index = ['Cricket', 'Cricket', 'Cricket']
        all_countries = original_sports.append(cricket_loving_countries)
```

```
In [4]: original_sports
```

```
Out[4]: Archery          Bhutan
        Golf            Scotland
        Sumo             Japan
        Taekwondo       South Korea
        dtype: object
```

```
In [5]: cricket_loving_countries
```

```
Out[5]: Cricket    Australia
        Cricket    Barbados
        Cricket    Pakistan
        Cricket    England
        dtype: object
```

```
In [6]: import pandas as pd
        purchase_1 = pd.Series({'Name' : 'Chris',
```

```

        'Item Purchased' : 'Dog Food',
        'Cost' : 22.50})
purchase_2 = pd.Series({'Name' : 'Kevyn',
        'Item Purchased' : 'Kitty Litter',
        'Cost' : 2.50})
purchase_3 = pd.Series({'Name' : 'Vinod',
        'Item Purchased' : 'Bird Seed',
        'Cost' : 5.00})
df = pd.DataFrame([purchase_1, purchase_2, purchase_3], index = ['Store 1',
df.head()

Out[6]:
      Cost Item Purchased  Name
Store 1  22.5      Dog Food  Chris
Store 1   2.5    Kitty Litter  Kevyn
Store 2   5.0      Bird Seed  Vinod

In [7]: df.loc['Store 2']

Out[7]: Cost          5
Item Purchased    Bird Seed
Name             Vinod
Name: Store 2, dtype: object

In [8]: type(df.loc['Store 2'])

Out[8]: pandas.core.series.Series

In [9]: df.loc['Store 1']

Out[9]:
      Cost Item Purchased  Name
Store 1  22.5      Dog Food  Chris
Store 1   2.5    Kitty Litter  Kevyn

In [24]: # for the purchase records from the pet store,
# how would you get a list of all items which had been
# purchased regardless of where they might have been
# purchased, or by whom?

# my answer

df.iloc[:, 1]

Out[24]: Store 1      Dog Food
Store 1    Kitty Litter
Store 2      Bird Seed
Name: Item Purchased, dtype: object

In [23]: # tut answer
df = pd.DataFrame([purchase_1, purchase_2, purchase_3],
        index=['Store 1', 'Store 1', 'Store 2'])
df['Item Purchased']

```

```
Out[23]: Store 1      Dog Food  
         Store 1      Kitty Litter  
         Store 2      Bird Seed  
         Name: Item Purchased, dtype: object
```

```
In [ ]:
```