In [1]:

```
#Creating a Data Frame from a Dict of Series
import pandas as pd
dict1 = {
           'one' : pd.Series([1,2,3], index = ['a','b','c']),
           'two' : pd.Series([1,2,3], index = ['a','b','c'])
        }
df = pd.DataFrame(dict1)
df
```

Out[1]:

	one	two
a	1	1
b	2	2
c	3	3

In [2]:

```
#set index for the DataFrame
pd.DataFrame(dict1, index = ['d','b','a'])
```

Out[2]:

	one	two
d	NaN	NaN
b	2.0	2.0
a	1.0	1.0

In [3]:

```
df
```

Out[3]:

	one	two
a	1	1
b	2	2
c	3	3

In [4]:

```
#control label apperance for the DataFrame
pd.DataFrame(dict1, index =['d','b','a'], columns = ['two','one'])
```

Out[4]:

	two	one
d	NaN	NaN
b	2.0	2.0
a	1.0	1.0

Creating DataFrames from a list of Dicts

In [7]:

```
data2 = [{'A': 1, 'B': 2}, {'A': 5, 'B':10 , 'C' : 20}]
pd.DataFrame(data2)
```

Out[7]:

	A	B	C
0	1	2	NaN
1	5	10	20.0

In [8]:

```
pd.DataFrame(data2, index = ['First','Second'])
```

Out[8]:

	A	B	C
First	1	2	NaN
Second	5	10	20.0

In [9]:

```
pd.DataFrame(data2, columns = ['A','B'])
```

Out[9]:

	A	B
0	1	2
1	5	10

In [11]:

```
df
```

Out[11]:

	one	two
a	1	1
b	2	2
c	3	3

In [12]:

```
df['three'] = df['one'] * df['two']
```

In [13]:

```
print(df['three'])
```

```
a    1
b    4
c    9
Name: three, dtype: int64
```

In [15]:

```
df['Filler'] = 'HCT'
df['Slice']  = df['one']
df
```

Out[15]:

	one	two	three	Filler	Slice
a	1	1	1	HCT	1
b	2	2	4	HCT	2
c	3	3	9	HCT	3

In [19]:

```
del df['Slice']
```

In [20]:

```
df
```

Out[20]:

	one	two	three	Filler
a	1	1	1	HCT
b	2	2	4	HCT
c	3	3	9	HCT

In [21]:

```
df.insert(1,'mid',df['one'])
```

In [22]:

```
df
```

Out[22]:

	one	mid	two	three	Filler
a	1	1	1	1	HCT
b	2	2	2	4	HCT
c	3	3	3	9	HCT

In [ ]:

```

```