

In [11]: `from scipy import stats`

```
print('close : ' ,stats.mode(ds['close']))
print('open : ' ,stats.mode(ds['open']))
print('high : ' ,stats.mode(ds['high']))
print('low : ' ,stats.mode(ds['low']))
print('volume : ' ,stats.mode(ds['volume']))
```

```
close : ModeResult(mode=array([10.599]), count=array([7]))
open : ModeResult(mode=array([10.039]), count=array([7]))
high : ModeResult(mode=array([23.5]), count=array([9]))
low : ModeResult(mode=array([10.18]), count=array([10]))
volume : ModeResult(mode=array([0.]), count=array([2]))
```

In [15]: `print('max close : ' ,max(ds["close"]) , ' min close : ',min(ds["close"]))`
`print('max open : ' ,max(ds["open"]) , ' min open : ',min(ds["open"]))`
`print('max high : ' ,max(ds["high"]) , ' min high : ',min(ds["high"]))`
`print('max low : ' ,max(ds["low"]) , ' min low : ',min(ds["low"]))`

```
max close : 129.329 min close : 6.935
max open : 129.475 min open : 6.93
max high : 133.837 min high : 6.983
max low : 122.825 min low : 6.813
```

In [23]: `closeCut = pd.cut(ds["close"], [6, 30.5, 55, 79.5, 104,129.5])`
`openCut = pd.cut(ds["open"], [6, 30.5, 55, 79.5, 104,129.5])`
`highCut = pd.cut(ds["high"], [6, 30.5, 55, 79.5, 104,134])`
`lowCut = pd.cut(ds["low"], [6, 30.5, 55, 79.5, 104,123])`
`ds.pivot_table('close', [closeCut])`

Out[23]:

	low
low	
(6.0, 30.5]	15.105072
(30.5, 55.0]	41.644451
(55.0, 79.5]	63.634550
(79.5, 104.0]	89.043132
(104.0, 123.0]	116.264250

In [24]: `ds.pivot_table('open', [openCut])`

Out[24]:

	open
open	
(6.0, 30.5]	15.239225
(30.5, 55.0]	42.118813
(55.0, 79.5]	64.009181
(79.5, 104.0]	90.123898
(104.0, 129.5]	120.769500

```
In [25]: ds.pivot_table('high', [highCut])
```

```
Out[25]:
```

	high
high	

high	
(6.0, 30.5]	15.369888
(30.5, 55.0]	42.551143
(55.0, 79.5]	64.122808
(79.5, 104.0]	91.044156
(104.0, 134.0]	122.977714

```
In [26]: ds.pivot_table('low', [lowCut])
```

```
Out[26]:
```

	low
low	

low	
(6.0, 30.5]	15.105072
(30.5, 55.0]	41.644451
(55.0, 79.5]	63.634550
(79.5, 104.0]	89.043132
(104.0, 123.0]	116.264250