### 82.09 set\_index() 和 reset\_index()

# set\_index()

官方定义:

使用一个或多个现有列设置索引, *默认情况下生成一个新对象* 

DataFrame.set\_index(keys, drop=True, append=False, inplace=False, verify\_integrity=False)

drop:默认为true,表示是否删除列作为新索引。

append: 是否增加列到原来的索引上。

inplace: 是否创建一个新的dataframe

Parameters: keys: column label or list of column labels / arrays

drop: boolean, default True

Delete columns to be used as the new index

append: boolean, default False

Whether to append columns to existing index

inplace: boolean, default False

Modify the DataFrame in place (do not create a new object)

verify\_integrity: boolean, default False

Check the new index for duplicates. Otherwise defer the check until necessary.

Setting to False will improve the performance of this method

Returns: dataframe : DataFrame

单索引:

```
In [307]: data
Out[307]:
    a   b   c   d
0 bar  one   z  1.0
1 bar  two   y  2.0
2 foo  one   x  3.0
3 foo  two   w  4.0

In [308]: indexed1 = data.set_index('c')

In [309]: indexed1
Out[309]:
    a   b   d
c
z bar  one  1.0
y bar  two  2.0
x  foo  one  3.0
w  foo  two  4.0
```

#### 复合索引:

## reset\_index()

### 知道了set\_index()后,再看reset\_index()。

reset\_index可以还原索引,从新变为默认的整型索引 DataFrame.reset\_index(level=None, drop=False, inplace=False, col\_level=0, col\_fill=")

level控制了具体要还原的那个等级的索引

drop为False则索引列会被还原为普通列,否则会丢失

DataFrame.reset\_index(level=None, drop=False, inplace=False, col\_level=0, col\_fill=")

http://pandas.pydata.org/pandasdocs/stable/generated/pandas.DataFrame.reset\_index.html

#### 示例:

```
In [3]: df1
Out[3]:
0 -0.127085 -0.538321  0.641609 -0.020957  0.003503
2 -0.239710 1.235562 0.917208 -0.964571 -1.120331
# reset index,原行索引作为一列保留,列名为index
In [4]: df2 = df1.reset_index()
In [5]: df2
Out[5]:
  index
                  1
                         2 3
   0 -0.127085 -0.538321  0.641609 -0.020957  0.003503
    2 -0.239710 1.235562 0.917208 -0.964571 -1.120331
1
2
```

```
https://github.com/Bifzivkar/Boutique-Travel-Services-
Predict/blob/master/feature/3_extract_feature.py 57
```

count\_1 = orderHistory\_1.groupby(orderHistory\_1.userid)['orderid'].count().reset\_index()