```
>>> import pandas as pd
>>> persondict = {'person':['Bob','Alice','Steve'],'age':[32,24,64],'weight':[128,86,95]}
>>> persontable=pd.DataFrame(persondict, columns=['person','age','weight'])
>>> persontable
  person  age  weight
0  Bob    32    128
1  Alice  24     86
2  Steve  64     95
>>> persontable = persontable.set_index('person')
>>> persontable
        age  weight
person
Bob      32    128
Alice    24     86
Steve    64     95

>>> result = persontable.stack()
>>> result
person
Bob     age        32
        weight    128
Alice   age        24
        weight     86
Steve   age        64
        weight     95
dtype: int64

>>> personall = result.reset_index()
>>> personall
  person  level_1    0
0  Bob      age    32
1  Bob    weight  128
2  Alice    age    24
3  Alice  weight   86
4  Steve    age    64
5  Steve  weight   95
>>> personall.columns=['person','attribute','value']
>>> personall
  person  attribute  value
0  Bob       age      32
1  Bob     weight    128
2  Alice     age      24
3  Alice   weight     86
4  Steve     age      64
5  Steve   weight     95
>>> result.unstack()
        age  weight
person
Bob      32    128
Alice    24     86
Steve    64     95
>>> personall.pivot('person','attribute','value')
attribute  age  weight
```

```
person
Alice     24     86
Bob       32     128
Steve     64     95
```