5/15/23, 3:44 PM DataFrame

```
In [5]:
         import pandas as pd
         df = pd.DataFrame([{'product_id':23, 'name':'computer', 'wholesale_price': 500,
                 'retail_price':1000, 'sales':100},
                 {'product_id':96, 'name':'Python Cours', 'wholesale_price': 35,
                 'retail_price':75, 'sales':1000},
                 {'product_id':97, 'name':'Pandas Cours', 'wholesale_price': 35,
                 'retail_price':75, 'sales':500},
                 {'product_id':15, 'name':'banana', 'wholesale_price': 0.5,
                 'retail_price':1, 'sales':200},
                 {'product_id':87, 'name':'sandwich', 'wholesale_price': 3,
                 'retail_price':5, 'sales':300},
                 ])
         df
Out[5]:
           product_id
                            name wholesale_price retail_price sales
         0
                  23
                         computer
                                           500.0
                                                      1000
                                                             100
                      Python Cours
                                            35.0
                                                        75 1000
         2
                  97 Pandas Cours
                                                             500
                                            35.0
                                                        75
```

0.5

3.0

200

300

5

Out[7]: 110700.0

15

87

banana

sandwich

```
In [9]: df['current_net'] = [50000.0, 40000.0, 20000.0, 100.0, 600.00]

df

df['after_15'] = df['current_net'] * 0.85
df
```

ı	product_id	name	wholesale_price	retail_price	sales	current_net	after_15
0	23	computer	500.0	1000	100	50000.0	42500.0
1	96	Python Cours	35.0	75	1000	40000.0	34000.0
2	97	Pandas Cours	35.0	75	500	20000.0	17000.0
3	15	banana	0.5	1	200	100.0	85.0
4	87	sandwich	3.0	5	300	600.0	510.0
	0 1 2 3	 96 97 15 	 23 computer 96 Python Cours 97 Pandas Cours 15 banana 	0 23 computer 500.0 1 96 Python Cours 35.0 2 97 Pandas Cours 35.0 3 15 banana 0.5	0 23 computer 500.0 1000 1 96 Python Cours 35.0 75 2 97 Pandas Cours 35.0 75 3 15 banana 0.5 1	0 23 computer 500.0 1000 100 1 96 Python Cours 35.0 75 1000 2 97 Pandas Cours 35.0 75 500 3 15 banana 0.5 1 200	0 23 computer 500.0 1000 100 50000.0 1 96 Python Cours 35.0 75 1000 40000.0 2 97 Pandas Cours 35.0 75 500 20000.0 3 15 banana 0.5 1 200 100.0

```
In [10]: df['after_25'] = df['current_net'] * 0.75
df
```

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```
Out[10]:
                product id
                                 name wholesale_price retail_price sales current_net after_15 after_25
             0
                       23
                              computer
                                                  500.0
                                                              1000
                                                                     100
                                                                              50000.0
                                                                                       42500.0
                                                                                                 37500.0
                                Python
             1
                       96
                                                                    1000
                                                   35.0
                                                                75
                                                                              40000.0
                                                                                       34000.0
                                                                                                 30000.0
                                 Cours
                                Pandas
             2
                       97
                                                   35.0
                                                                75
                                                                     500
                                                                              20000.0
                                                                                       17000.0
                                                                                                 15000.0
                                 Cours
             3
                       15
                                                    0.5
                                                                 1
                                                                     200
                                                                                100.0
                                                                                          85.0
                                                                                                    75.0
                                banana
             4
                       87
                              sandwich
                                                    3.0
                                                                 5
                                                                     300
                                                                                         510.0
                                                                                                   450.0
                                                                                600.0
             df['after 20'] = df['current net'] * 0.8
 In [11]:
 Out[11]:
                               name wholesale_price retail_price sales current_net after_15 after_25
                product_id
                                                                                                       after
             0
                       23
                           computer
                                               500.0
                                                            1000
                                                                   100
                                                                            50000.0
                                                                                     42500.0
                                                                                              37500.0
                                                                                                        400C
                              Python
             1
                       96
                                                35.0
                                                                  1000
                                                                                              30000.0
                                                                                                        3200
                                                             75
                                                                           40000.0
                                                                                     34000.0
                               Cours
                              Pandas
             2
                       97
                                                                   500
                                                35.0
                                                              75
                                                                           20000.0
                                                                                     17000.0
                                                                                              15000.0
                                                                                                        1600
                               Cours
             3
                       15
                             banana
                                                 0.5
                                                               1
                                                                   200
                                                                              100.0
                                                                                        85.0
                                                                                                  75.0
                                                                                                           8
             4
                       87
                            sandwich
                                                 3.0
                                                               5
                                                                   300
                                                                              600.0
                                                                                       510.0
                                                                                                450.0
                                                                                                          48
4
             df [['after_15','after_25', 'after_25']].sum()
 In [13]:
            after 15
                          94095.0
 Out[13]:
             after 25
                          83025.0
             after 25
                          83025.0
            dtype: float64
             df['current_net'].sum()- df[['current_net','after_15','after_25', 'after_20']].sum
 In [15]:
            current net
                                  0.0
 Out[15]:
             after_15
                              16605.0
             after_25
                              27675.0
             after 20
                              22140.0
            dtype: float64
   In [ ]:
```