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In [ ]: Nurshanov Dias IT3-2208
        6 lab
        python
In [1]: #1 Exercise
        import pandas as pd
        df_bronze = pd.read_csv('Summer Olympic medals/Bronze.csv')
        df silver = pd.read csv('Summer Olympic medals/Silver.csv')
        df_gold = pd.read_csv('Summer Olympic medals/Gold.csv')
        df_gold.head(5)
           NOC
Out[1]:
                      Country
                                Total
        0 USA
                   United States 2088.0
        1 URS
                   Soviet Union
                                838 0
        2 GBR United Kingdom
                                498.0
           FRA
                                378.0
        3
                        France
                                407.0
        4 GER
                      Germany
In [2]: #2 exercise
        weather_2 = pd.read_csv('Week_6/weather2.csv')
        temps_f = weather_2[['Min TemperatureF', 'Mean TemperatureF', 'Max TemperatureF']]
        print('temps f\n', temps f.head(5))
        temps_c = (temps_f - 32) * 5 / 9
        print('temps c\n', temps c.head(5))
        temps_c.columns = temps_c.columns.str.replace('F','C')
        print(temps_c.head(5))
       temps f
           Min TemperatureF Mean TemperatureF Max TemperatureF
                         21
                                             28
                                                                32
       1
                         17
                                             21
                                                                25
       2
                         16
                                             24
                                                                32
       3
                         27
                                             28
                                                                30
       4
                         25
                                             30
       temps c
           Min TemperatureF Mean TemperatureF Max TemperatureF
       0
                  -6.111111
                                     -2.22222
                                                         0.000000
       1
                  -8.333333
                                     -6.111111
                                                         -3.888889
       2
                  -8.888889
                                     -4.44444
                                                         0.000000
       3
                  -2.777778
                                      -2.222222
                                                         -1.111111
       4
                 -3.888889
                                     -1.111111
                                                         1.111111
          Min TemperatureC Mean TemperatureC Max TemperatureC
       0
                  -6.111111
                                     -2.22222
                                                         0 000000
       1
                  -8.333333
                                      -6.111111
                                                         -3.888889
       2
                 -8.888889
                                     -4.44444
                                                         0.000000
                  -2.777778
                                     -2.222222
                                                         -1.111111
       4
                  -3.888889
                                     -1.111111
                                                         1.111111
In [3]: #Read the files 'sales-jan-2015.csv', 'sales-feb-2015.csv' and 'sales-mar-2015.csv' into the DataFrames jan, fel
        #Use parse_dates=True and index_col='Date'.
        #Extract the 'Units' column of jan, feb, and mar to create the Series jan_units, feb_units, and mar_units respe
        #Construct the Series quarter1 by appending feb_units to jan_units and then appending mar_units to the result. (
        #Verify that quarter1 has the individual Series stacked vertically. To do this:
        #Print the slice containing rows from jan 27, 2015 to feb 2, 2015.
        #Print the slice containing rows from feb 26, 2015 to mar 7, 2015.
        #Compute and print the total number of units sold from the Series quarter1.
        feb = pd.read_csv('Sales/sales-feb-2015.csv', parse_dates=['Date'], index_col='Date')
        jan = pd.read_csv('Sales/sales-jan-2015.csv', parse_dates=['Date'], index_col='Date')
mar = pd.read_csv('Sales/sales-mar-2015.csv', parse_dates=['Date'], index_col='Date')
        jan_units = jan['Units']
        feb units = feb['Units']
        mar units = mar['Units']
        quarter1= jan_units._append(feb_units)._append(mar_units)
        quarter1.head(5)
        quarter1.info()
        quarter1 = quarter1.sort index()
        print(quarter1.loc['2015-01-27':'2015-02-02'].head(5))
        print()
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print(quarter1.loc['2015-02-26':'2015-03-07'].head(5))
         print()
        print(quarter1.sum())
       <class 'pandas.core.series.Series'>
       DatetimeIndex: 60 entries, 2015-01-21 19:13:21 to 2015-03-13 16:25:24
       Series name: Units
       Non-Null Count Dtype
       60 non-null
                        int64
       dtypes: int64(1)
       memory usage: 960.0 bytes
       2015-01-27 07:11:55
       2015-02-02 08:33:01
                               3
       2015-02-02 20:54:49
                                 9
       Name: Units, dtype: int64
       Date
       2015-02-26 08:57:45
                                 4
       2015-02-26 08:58:51
                                1
       2015-03-06 02:03:56
                                17
       2015-03-06 10:11:45
                                17
       Name: Units, dtype: int64
       642
In [4]: df_bronze = pd.read_csv('Summer Olympic medals/Bronze.csv')
df_silver = pd.read_csv('Summer Olympic medals/Silver.csv')
         df_gold = pd.read_csv('Summer Olympic medals/Gold.csv')
         medal_list = [df_bronze, df_silver, df_gold]
         medals = pd.concat(medal_list, keys=['Bronze', 'Silver', 'Gold'], axis=1, join='inner')
         medals
Out[4]:
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:		Bronze		Bronze	Silver			Gold		
		NOC	Country	Total	NOC	Country	Total	NOC	Country	Total
	0	USA	United States	1052.0	USA	United States	1195.0	USA	United States	2088.0
	1	URS	Soviet Union	584.0	URS	Soviet Union	627.0	URS	Soviet Union	838.0
	2	GBR	United Kingdom	505.0	GBR	United Kingdom	591.0	GBR	United Kingdom	498.0
	3	FRA	France	475.0	FRA	France	461.0	FRA	France	378.0
	4	GER	Germany	454.0	GER	Germany	350.0	GER	Germany	407.0
	133	SEN	Senegal	NaN	SEN	Senegal	1.0	SEN	Senegal	NaN
	134	SUD	Sudan	NaN	SUD	Sudan	1.0	SUD	Sudan	NaN
	135	TGA	Tonga	NaN	TGA	Tonga	1.0	TGA	Tonga	NaN
	136	BDI	Burundi	NaN	BDI	Burundi	NaN	BDI	Burundi	1.0
	137	UAE	United Arab Emirates	NaN	UAE	United Arab Emirates	NaN	UAE	United Arab Emirates	1.0

138 rows × 9 columns

In []:

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