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In [1]: ## How to create Pivot table using a Pandas DataFrame
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In [2]: def Kickstarter_Example_97():
print()
print(format('How to create Pivot table using a Pandas DataFrame','^82'))
import warnings
warnings.filterwarnings("ignore")
# load libraries
import pandas as pd
# Create dataframe
raw_data = {'regiment': ['Nighthawks', 'Nighthawks', 'Nighthawks', 'Nighthawks',
                        'Dragoons', 'Dragoons', 'Dragoons', 'Dragoons',
                        'Scouts', 'Scouts', 'Scouts', 'Scouts'],
            'company': ['1st', '1st', '2nd', '2nd', '1st', '1st', '2nd',
                       '2nd', '1st', '1st', '2nd', '2nd'],
            'TestScore': [4, 24, 31, 2, 3, 4, 24, 31, 2, 3, 2, 3]}
df = pd.DataFrame(raw_data, columns = ['regiment', 'company', 'TestScore'])
print(); print(df)
# Create a pivot table of group means, by company and regiment
df1 = pd.pivot_table(df, index=['regiment', 'company'], aggfunc='mean')
print(); print(df1)
# Create a pivot table of group score counts, by company and regimnests
df2 = df.pivot_table(index=['regiment', 'company'], aggfunc='count')
print(); print(df2)
# Create a pivot table of group score max, by company and regimnests
df3 = df.pivot_table(index=['regiment', 'company'], aggfunc='max')
print(); print(df3)
# Create a pivot table of group score min, by company and regimnests
df4 = df.pivot_table(index=['regiment', 'company'], aggfunc='min')
print(); print(df4)
Kickstarter_Example_97()
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*****How to create Pivot table using a Pandas DataFrame*****

	regiment	company	TestScore
0	Nighthawks	1st	4
1	Nighthawks	1st	24
2	Nighthawks	2nd	31
3	Nighthawks	2nd	2
4	Dragoons	1st	3
5	Dragoons	1st	4
6	Dragoons	2nd	24
7	Dragoons	2nd	31
8	Scouts	1st	2
9	Scouts	1st	3
10	Scouts	2nd	2
11	Scouts	2nd	3

		TestScore
regiment	company	
Dragoons	1st	3.5
	2nd	27.5
Nighthawks	1st	14.0
	2nd	16.5
Scouts	1st	2.5
	2nd	2.5

		TestScore
regiment	company	
Dragoons	1st	2
	2nd	2
Nighthawks	1st	2
	2nd	2
Scouts	1st	2
	2nd	2

		TestScore
regiment	company	
Dragoons	1st	4
	2nd	31
Nighthawks	1st	24
	2nd	31
Scouts	1st	3
	2nd	3

		TestScore
regiment	company	
Dragoons	1st	3
	2nd	24
Nighthawks	1st	4
	2nd	2
Scouts	1st	2
	2nd	2

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In [ ]:
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