Pandas

import pandas as pd

import numpy as np import statements used for importing libraries

import matplotlib.pyplot as plt

data = pd.read\_csv("/Users/612798/Desktop/footfall/SepFootFallData.csv") – To read a csv file in pandas dataframe

df = pd.DataFrame(data) – To convert the data into a dataframe

A = df.loc[df['footfallCount'].isin([3,20])] – To make a view of the dataframe with the specified value

A.footfallCount.plot() – To plot the graph using a specific column of the table.

A.footfallCount.plot(figsize=(30,15)) – To change the size of the graph

del A – To delete the dataframe

print(os.listdir(os.getcwd())) – To show the directories present in the current directory.

grouped = df.groupby('index') – to get groupby of a column

print(A[['epochTime (N)']]) – to get a single column of the data frame

print(grouped.get\_group('CKC:S3:F11:O9V')) – to print the corresponding data for a particular group of the column

df.describe() – to get description of the data frame

df.groupby(["footfallCount", "index"]).size() – to group by the data in two columns of a data frame

df['footfallCount'].value\_counts() – to get the occurrences of a data in the dataframe

a = data['date'].astype(str).str[:9] – to truncate and store the value of a column into a new series

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IMP Formulae

* **import pandas as pd**
* **import numpy as np**
* **data = pd.read\_csv("/Users/612798/Desktop/footfall/SepFootFallData.csv")**
* **df = pd.DataFrame(data)**
* **data1 = pd.read\_csv("/Users/612798/Desktop/footfall/WeatherData.csv")**
* **df1 = pd.DataFrame(data1)**
* **data2 = pd.read\_csv("/Users/612798/Desktop/footfall/Rainfall.csv")**
* **df2 = pd.DataFrame(data2)**
* **s = df1[['data (L)']]**
* **x = s['data (L)'].str.contains('"Precip1hr" : { "M" : { "Imperial" : { "M" : { "Unit" : { "S" : "in" }, "UnitType" : { "N" : "1" }, "Value" : { "N" : "0" } } }, "Metric" : { "M" : { "Unit" : { "S" : "mm" }, "UnitType" : { "N" : "3" }, "Value" : { "N" : "0" } } } } }')**
* **y = pd.DataFrame(x\*1)**
* **y = y.join(df1.drop(columns = 'data (L)'))**
* **df['date'] = df['date'].map(lambda x: str(x)[:9])**
* **df.rename(columns = {'date':'Date'}, inplace = True)**
* **df3 = df.merge(df2, how = 'outer')**
* **cols = ['epoch', 'facility', 'index', 'Date']**
* **df3 = df3.drop(cols, axis = 1)**
* **df3.plot()**