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In [ ]:
         2 | ## Pandas Cheat Sheet compiled by Paschal Chukwuemeka Amah.##
         1 #Create an empty dataframe with three columns
In [ ]:
         2 df = pd.DataFrame(columns = ["x", "y", "z"])
In [ ]:
         1 #Quick summary of a dataframe: number of columns and rows
           df.shape
In [ ]:
         1 #Import a comma seperated file
         2 | df = pd.read csv(filename.csv)
         3
         4 #Write a csv file
         5 pd.to_csv(filename.csv)
In [ ]:
         1 | #Import a space delimited file
           df = pd.read_csv("filename.txt", delim_whitespace=True)
In [ ]:
         1 #Import an excel file
         2 xls = pd.ExcelFile("file.extension")
         3
         4 #Peep the excel sheets
         5 xls.sheet_names
         6
         7 #Load a sheet
          df = xls.parse("sheetName")
In [ ]:
         1 #Write to excel
         2 from pandas import ExcelWriter
         3
         4 #Create a write object #Sample is the name of file written
         5 writer = ExcelWriter('sample.xlsx')
         6
         7 #Write to a sheet 'sheet1'
           df.to_excel(writer, 'Sheet1')
           writer.save()
         1 #Import a json file - especially one sourced from a social media like Twitte
In [ ]:
           df = pd.read jso("filename.json", lines = True, encoding = "utf-8")
In [ ]:
         2 | ## Clean up moves ##
           ####################
         1 #Remove non-characters from column
In [ ]:
           df['colName']= df['colName'](lambda x: x.replace('[^a-zA-Z]', ''))
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In [ ]:
          1 #Case conversion
          3 #Convert whole dataframe to TitleCase
            df = df.apply(lambda x: x.astype(str).str.title())
          4
          5
            #To Lower case
          6
          7
             df = df.apply(lambda x: x.astype(str).str.lower())
          8
          9
            #To UPPERCASE
             df = df.apply(lambda x: x.astype(str).str.upper())
         10
In [ ]:
          1 #Drop duplicates leaving first occurence
             df.drop duplicates(keep = 'first')
In [ ]:
          1 | #Replace parts of column content for all rows. Here, all items but the first
             df.loc[:,"colName"].map(lambda x: x.replace(x[4:], ''))
In [ ]:
             #Replace parts of column content for all rows. Here, first 9 items are replace
             df.loc[:,"colName"].map(lambda x: x.replace(x[:9], ''))
             #Replace parts of a column content for all rows. Here, all items but the firs
In [ ]:
             df.loc[:,"colName"].map(lambda x: x.replace(x[4:], '')+"abc")
In [ ]:
             #Remove whitespaces in a column for all rows
             df.loc[:,"colName"].map(lambda x: "".join(x.split()))
          1 #Merge two columns as str into a new column
In [ ]:
             df["NewColName"] = df["colName x"].map(str)+ df["colName y"].map(str)
In [ ]:
          1 #Pick only the first 11 columns for all rows
             df.iloc[:,:11]
             #Make a column of numbers from 0 to a particular range after importing numpy
In [ ]:
             df["NewCol"] = np.arange(0,len(df))
             #Sort a dataframe according to a column in descending order and reset the ind
In [ ]:
             df.sort values("colName", ascending = True).reset index(drop=True)
In [ ]:
             #Return parts of df that satisfy a condition in a column
          1
             df[df['colName'] criteria] # eg1 df[df['colName'] == 'lagos'] eg2 df[df['colN
          1 #Drop part of a dataframe tail - 8 here
In [ ]:
             df.drop(df.tail(8).index)
          1 #Drop part of a dataframe head - 8 here
In [ ]:
             df.drop(df.head(8).index)
          1 #For a column, replace x ie row with y for all rows, if str in row/line, else
In [ ]:
             df['colName'].map(lamba x: replace(x, y) if 'str' in x else x)
```