Example_Chapter8

October 26, 2021

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[1]: import pandas as pd
     import random
     from random import sample
[2]: # simple example
     list1 = [1, 2, 3, 4, 5]
     print(sample(list1,3))
    [1, 3, 5]
[3]: Hotels=["Aloha Kai", "Captiva", "Palm Tree", "Sea Shell", "Anchor Down",
             "Casa del Mar", "Radisson", "Silver Beach", "Banana Bay", "Coconuts",
             "Ramada", "Sunset Beach", "Banyan⊔
      →Tree", "Diplomat", "Sandpiper", "Tradewinds",
             "Beach Castle", "Holiday Inn", "Sea Castle", "Tropical Breeze", "Best
      ⇔Western","Lime Tree",
             "Sea Club", "Tropical Shores", "Cabana", "Outrigger", "Sea Grape", "Veranda"]
[4]: print(sample(Hotels,4))
    ['Outrigger', 'Tropical Breeze', 'Palm Tree', 'Banana Bay']
[5]: # What about if you read the data from a CSV file?
     Hotels=pd.read_csv("Hotels.csv")
     Hotels.head(5)
[5]:
        ID
                    Name
     0
               Aloha Kai
        2
             Anchor Down
     1
     2
       3
            Banana Bay
     3
        4
             Banyan Tree
         5 Beach Castle
[6]: # Try this: print(sample(Hotels["Name"],4)). It will give you an error.
     → Hotels["Name"] needs to be a list or set.
     # sample(Hotels["Name"],4)
[7]: print(sample(list(Hotels["Name"]),4))
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['Sea Castle', 'Tropical Breeze', 'Casa del Mar', 'Radisson']

[8]: print(sample(set(Hotels["Name"]),4))

['Veranda', 'Silver Beach', 'Outrigger', 'Beach Castle']

[9]: random.seed(a=36)
    print(sample(set(Hotels["Name"]),4))

['Sea Club', 'Sea Shell', 'Ramada', 'Tropical Shores']

[10]: random.seed(a=36)
    print(sample(set(Hotels["Name"]),4))

['Sea Club', 'Sea Shell', 'Ramada', 'Tropical Shores']

[]:
```