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```
# === DataFunctions.ipynb ===
1
2
  # Dependencies
3
  import pandas as pd
5
6
  # Save path to data set in a variable
7
  data file = "Resources/dataSet.csv"
8
9
10
11 # Use Pandas to read data
  data file pd = pd.read csv(data file)
  data file pd.head()
13
14
15
  # Display a statistical overview of the DataFrame
16
  data_file_pd.describe()
17
18
19
  # Reference a single column within a DataFrame
20
  data file pd["Amount"].head()
21
22
23
  # Reference multiple columns within a DataFrame
24
  data_file_pd[["Amount", "Gender"]].head()
25
26
27
  # The mean method averages the series
28
  average = data file pd["Amount"].mean()
29
30
  average
31
32
  # The sum method adds every entry in the series
  total = data file pd["Amount"].sum()
34
  total
35
36
37
  # The unique method shows every element of
38
  # the series that appears only once
39
  unique = data file pd["Last Name"].unique()
40
  unique
41
42
43
44 # The value_counts method counts unique values in a column
  count = data_file_pd["Gender"].value_counts()
```

DataFunctions.py Page 2/2 Saved: 11/30/18, 6:20:31 PM Printed for: Amanda Nguyen

```
count

description

count

description

description

description

# Calculations can also be performed on Series and

# added into DataFrames as new columns

thousands_of_dollars = data_file_pd["Amount"]/1000

data_file_pd["Thousands of Dollars"] = thousands_of_dollars

data_file_pd.head()

data_file_pd.head()
```