KEEP DA RECEIPT

FINAL PROJECT

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Code Kentucky- Eastern

Data Analysis

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Project Plan Scope

I have hand recorded information into an excel spreadsheet. The data supplied are receipts collected by a client for 6 months. The client is seeking answers about how much money has been spent from August 2022 to February 2023

Questions

Total amount spent in 6 months

Top 5 stores where the money was spent

Top 2 used Payment methods

Top 3 items purchased at Top #1 store

Once all data is reviewed, these projections will show the spending habits, amounts, and how one retail organization can control the flow of this client's income.

https://github.com/NieshaThomas/Keep_da_reciept.py

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Statement of Work

- Work to be done will include,
  - Calculating sums
  - Creating new csv files
  - Data visualization using Matplotlib

- Feature that will be integrated into the project
  - PYTHON 3.11.2 64-bit
  - VS CODE
    https://code.visualstudio.com/sha/download?build=stable&os=win32-x64-user
  - Import pandas
    - pip install pandas
      - Installation — pandas 1.5.3 documentation (pydata.org)
  - Import csv
    - install csv python - Search (bing.com) - you don't need too
  - Import numpy
    - pip install numpy
      - NumPy - Installing NumPy
  - Import matplotlib as plt
    - python -m pip install -U matplotlib
      - Installation — Matplotlib 3.7.1 documentation

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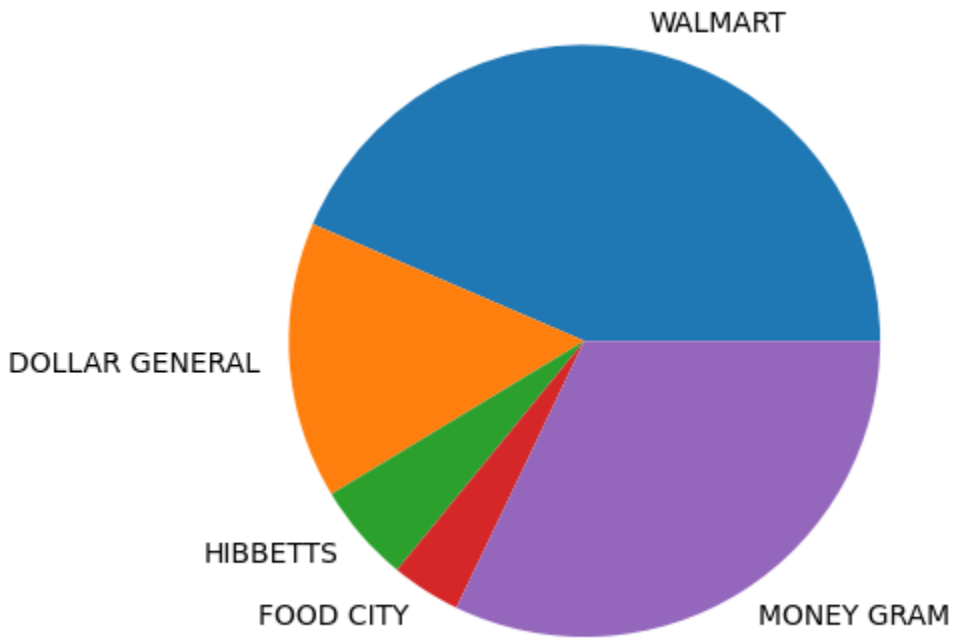
The amount of money spent at 18 store from August to February totaled out too:

$ 2699.36

The Top 5 stores and the amount of money spent totaled out too:

Walmart ..... $ 1345.72
Dollar General.....$ 467.00
Hibbetts.....$ 167.42
Food City.....$ 117.26
Money Gram.....$ 99.00



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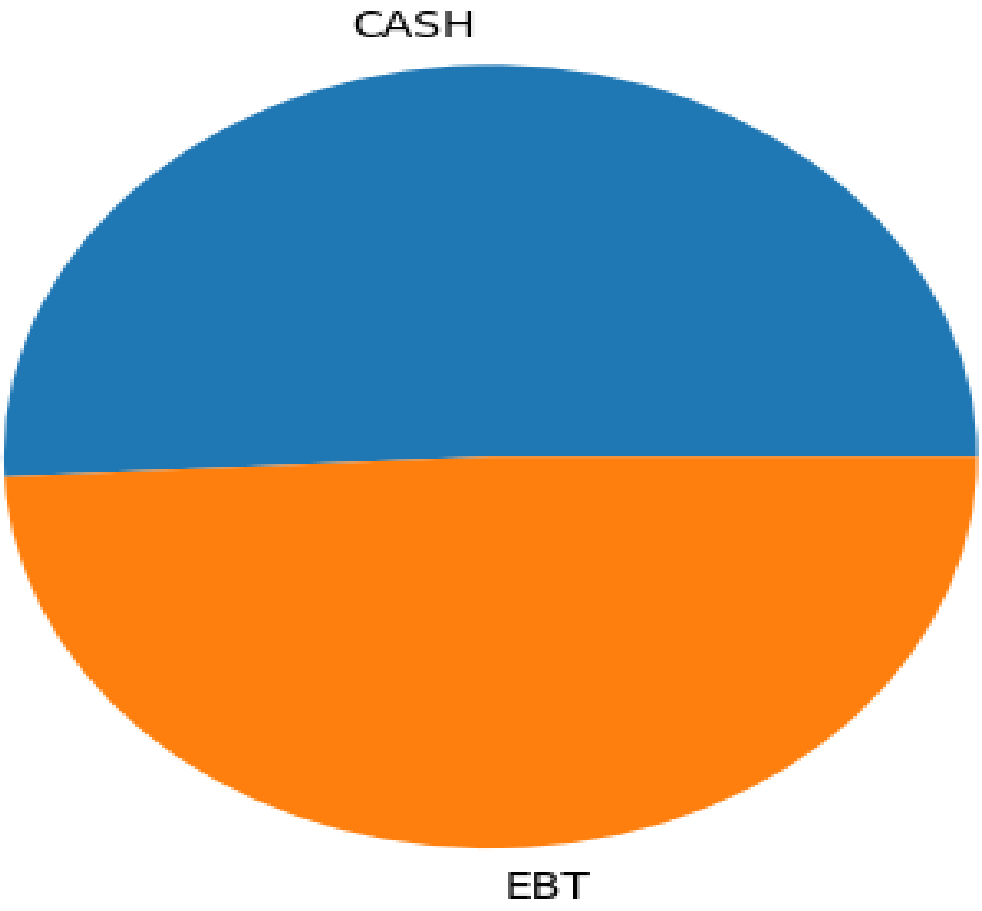
The Primary Payment Methods used and amounts paid

EBT…….$ 1327.71

CASH……..$ 1371.65



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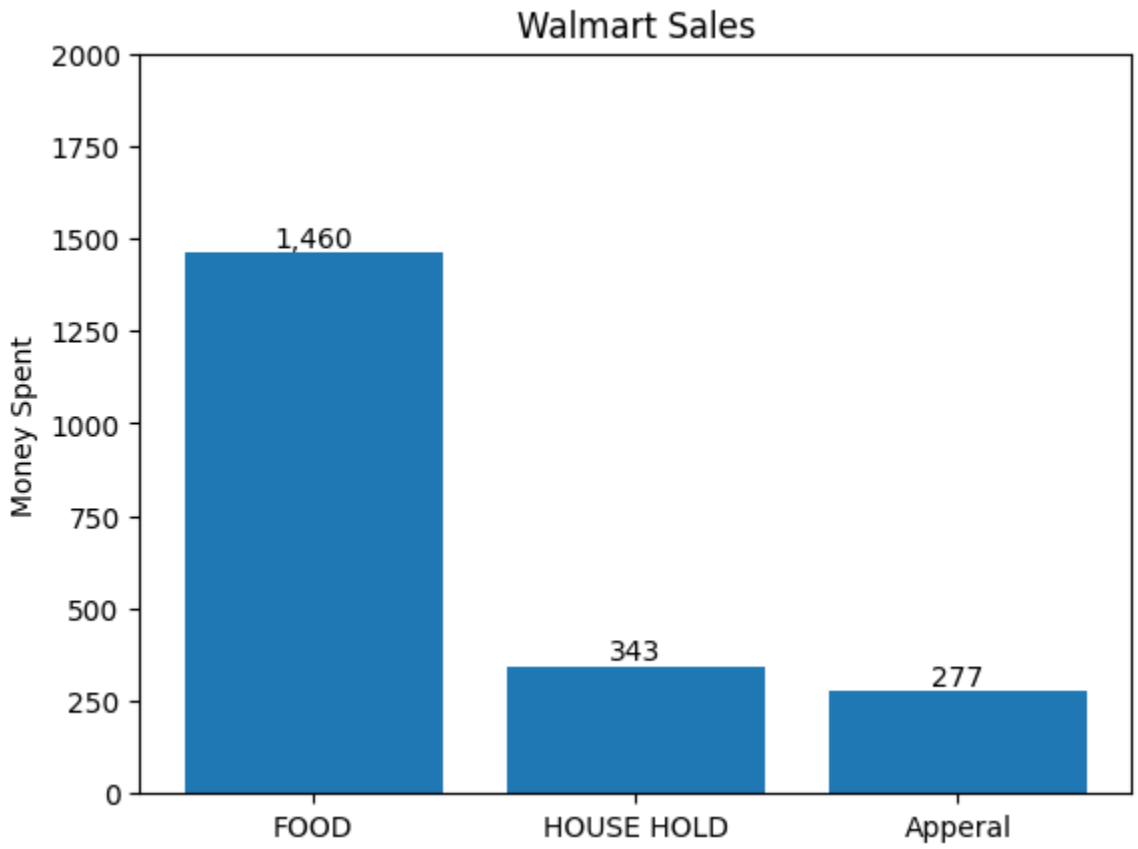
The Top #1 Store and the top 3 items purchased

Food……$ 1460.20

Apparel……$ 343.49

House Supply…… $ 277.00



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```
      # imports
      import csv
      import pandas as pd
      import matplotlib as plt
      data = pd.read_csv('FAMILY FINANCES SINCE 0801222.csv')
      data[data.columns[3]] = data[data.columns[3]].replace('[\$,]', '',
regex=True).astype(float)
      total = sum(data['AMOUNTS PAID'])
      print(total)
      df =
pd.read_csv(r'C:\Users\shede\OneDrive\Desktop\git\data_1_checks.py\ASSETS\
FAMILY FINANCES SINCE 0801222.csv')
      print(df)
      data = pd.read_csv('FAMILY FINANCES SINCE 0801222.csv')
      data[data.columns[3]] = data[data.columns[3]].replace('[\$,]', '',
regex=True).astype(float)
      total = sum(data['AMOUNTS PAID'])
      import matplotlib.pyplot as plt
      labels = 'WALMART', 'DOLLAR GENERAL', 'HIBBETTS', 'FOOD CITY',
'MONEY GRAM'
      sizes = [1345.72, 467.00, 167.42, 117.26, 99.00]
      fig, ax = plt.subplots()
      ax.pie(sizes, labels=labels)
      plt.show()
      df = pd.read_csv('pay_CASH.csv')
```

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```
      print(df)
      df = pd.read_csv('pay_EBT.csv')
      print(df)
      import matplotlib.pyplot as plt
      labels = 'CASH', 'EBT'
      sizes = [1371.65, 1327.71]
      fig, ax = plt.subplots()
      ax.pie(sizes, labels=labels)
      plt.show()
      df =
pd.read_csv(r'C:\Users\shede\OneDrive\Desktop\git\data_1_checks.py\ASSETS\
FAMILY FINANCES SINCE 0801222.csv')
      data = pd.read_csv('FAMILY FINANCES SINCE 0801222.csv')
      data[data.columns[3]] = data[data.columns[3]].replace('[\$,]', '',
regex=True).astype(float)
      total = sum(data['AMOUNTS PAID'])
      # wal total
      walmart_data = data.loc[(data['STORE NAME'] == 'WALMART')]
      Wal_total = sum(walmart_data['AMOUNTS PAID'])
      print(Wal_total)

      Item_names = ['FOOD', 'HOUSE HOLD', 'Apperal']
      Items_counts = [1460.20
      , 343.49, 277.00]

      fig, ax = plt.subplots()
      bar_container = ax.bar(Item_names, Items_counts)
      ax.set(ylabel='Money Spent', title='Walmart Sales', ylim=(0, 2000))
      ax.bar_label(bar_container, fmt='{:,.0f}')

      plt.show()
```

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