Code & Output

EX 6.3

Code:

```
# Julia Cuellar
# DSC 550
# Final project
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
# Display pizza place data
def read file():
   pizza = pd.read csv('pizzaplace.csv')
   pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
   pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
   print('Pizza data:\n', pizza.head(5))
# Display described, summarized, and length of pizza place data
def des sum len():
   pizza = pd.read csv('pizzaplace.csv')
   pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
   pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
    print('Described pizza data:\n', pizza.describe())
    print('Summarized pizza data:\n', pizza.describe(include=['0']))
    print('Length of pizza data:\n', len(pizza))
# Display bar chart of pizza name
def showBar Pname():
    pizza = pd.read csv('pizzaplace.csv')
   pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
   pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
   pizza['name'].value counts().plot(kind='barh').invert yaxis()
   plt.title('Pizza name')
   plt.show()
# Display bar chart of pizza size
def showBar Psize():
   pizza = pd.read csv('pizzaplace.csv')
   pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
   pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
   pizza['size'].value counts().plot(kind='barh')
   plt.title('Pizza size')
   plt.show()
# Display pie chart of pizza type
def showPie Ptype():
    pizza = pd.read csv('pizzaplace.csv')
```

```
pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
    plt.pie(pizza['type'].value counts(), autopct=lambda p: f'{p:.2f}%',
labels=['classic', 'supreme', 'veggie',
'chicken'])
    plt.title('Pizza type')
    plt.show()
# Display boxplot of pizza price
def showBoxplot Pprice():
    pizza = pd.read csv('pizzaplace.csv')
    pizza.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
   pizza.drop(['num', 'id', 'date'], axis=1, inplace=True)
    sns.boxplot(pizza['price'])
    plt.title('Pizza price')
    plt.show()
if name == " main ":
    read file()
    des_sum_len()
    showBar Pname()
    showBar Psize()
    showPie Ptype()
    showBoxplot Pprice()
```

Output:

Pizza data:

time name size type price

0 11:38:36 hawaiian M classic 13.25

1 11:57:40 classic_dlx M classic 16.00

2 11:57:40 mexicana M veggie 16.00

3 11:57:40 thai_ckn L chicken 20.75

4 11:57:40 five_cheese L veggie 18.50

Described pizza data:

price

count 49574.000000

mean 16.497762

std 3.621954

min 9.750000

25% 12.750000

50% 16.500000

75% 20.250000

max 35.950000

Summarized pizza data:

time name size type

count 49574 49574 49574 49574

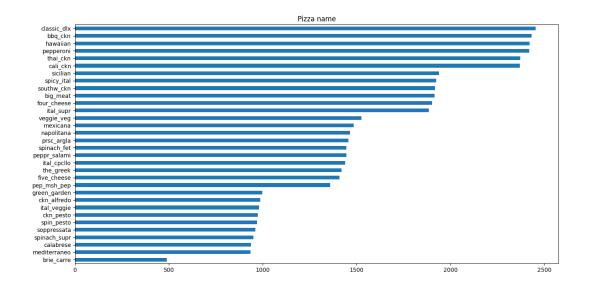
unique 16382 32 5 4

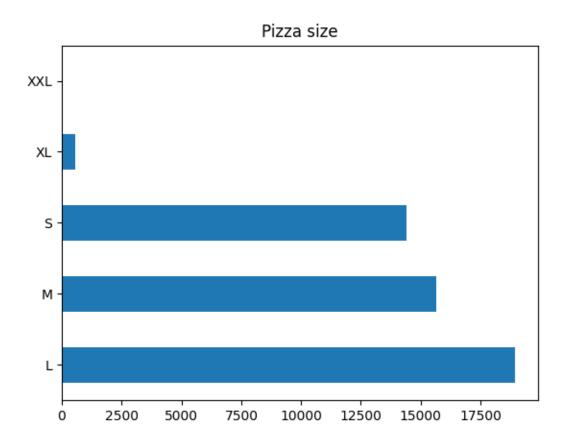
top 12:25:12 classic_dlx L classic

freq 28 2453 18956 14888

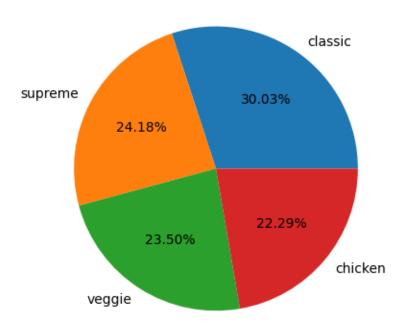
Length of pizza data:

49574









Pizza price

