Assignment

Consider the bakery dataset:

$BreadBasket_DMS.csv$

Using the enclosed script "transactions_from_bakery.py" we have added a few extra fields (such as period: night, morning, afternoon, evening). The expanded dataset is in file

$BreadBasket_DMS_output.csv$

You will write a Python script to read this data into Pandas and then write additional code to answer the following questions. Round your answers to 2 decimal digits

Questions:

- 1. what is the busiest (in terms of number of transactions)?
 - (a) hour
 - (b) day of the week
 - (c) period
- 2. what is the most profitable time (in terms of revenue)?
 - (a) hour
 - (b) day of the week

- (c) period
- 3. what is the most and least popular item?
- 4. assume one barrista can handle 50 transactions per day. How many barristas do you need for each day of the week?
- 5. divide all items in 3 groups (drinks, food, unknown). What is the average price of a drink and a food item?
- 6. does this coffee shop make more money from selling drinks or from selling food?
- 7. what are the top 5 most popular items for each day of the week? does this list stays the same from day to day?
- 8. what are the bottom 5 least popular items for each day of the week? does this list stays the same from day to day?
- 9. how many drinks are there per transaction?