Project 2

Analytical Questions

- 1. Total Expenditure: What is the total expenditure over the given period?
- 2. **Expenditure by Category:** What is the total expenditure for each category?
- 3. Average Daily Expenditure: What is the average expenditure per day?
- 4. **Top Spending Items:** What are the top 5 items by total expenditure?
- 5. **Expenditure by Day:** How does expenditure vary by day of the week?
- 6. Time of Day Analysis: What are the peak times for spending?
- 7. **Expenditure by Social Context:** How does spending differ when alone versus with a friend?
- 8. **Item Frequency:** Which items are purchased most frequently?
- 9. **Expenditure Trends:** Are there any trends in spending over the month?
- 10. Category vs. Time: How does spending in different categories vary by time of day?

Visualization Questions

- 1. Expenditure Over Time: Create a line chart showing total daily expenditure.
- 2. **Expenditure by Category:** Create a bar chart showing expenditure across different categories.
- 3. **Top Spending Items:** Create a bar chart for the top 5 items by total expenditure.
- 4. **Expenditure by Day of the Week:** Create a bar chart showing average expenditure for each day of the week.
- 5. **Time of Day Analysis:** Create a heatmap showing expenditure by time of day and day of the week.
- 6. **Category Breakdown:** Create a pie chart showing the proportion of total expenditure for each category.
- 7. **Expenditure Distribution:** Create a histogram showing the distribution of transaction amounts.
- 8. **Expenditure by Social Context:** Create a bar chart comparing expenditure when alone versus with a friend.
- 9. **Item Purchase Frequency:** Create a bar chart showing the frequency of each item purchased.
- 10. **Daily Spending Trends:** Create a line chart showing cumulative expenditure over the month.
- 11. Correlation Matrix