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BATCH: E4

assignment5-eds

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```python
[ ]: import pandas as pd
     import matplotlib.pyplot as plt

     # Read the CSV file into a pandas DataFrame
     data = pd.read_csv('/content/coffee.csv')

     # . Bar Chart - Number of bags for each country of origin
     country_bags = data.groupby('Country of Origin')['Number of Bags'].sum()
     plt.bar(country_bags.index, country_bags.values)
     plt.xlabel('Country of Origin')
     plt.ylabel('Number of Bags')
     plt.title('Number of Bags for each Country of Origin')
     plt.xticks(rotation=45)
     plt.show()


     # . Line Chart - Change in aroma rating over the dataset
     plt.plot(data['Aroma'])
     plt.xlabel('Data Point')
     plt.ylabel('Aroma Rating')
     plt.title('Change in Aroma Rating over the Dataset')
     plt.show()

     # . Scatter Plot - Relationship between flavor and acidity ratings
     plt.scatter(data['Flavor'], data['Acidity'])
     plt.xlabel('Flavor Rating')
     plt.ylabel('Acidity Rating')
     plt.title('Relationship between Flavor and Acidity Ratings')
     plt.show()

     # . Histogram - Distribution of aftertaste ratings
     plt.hist(data['Aftertaste'], bins=10)
     plt.xlabel('Aftertaste Rating')
     plt.ylabel('Frequency')
     plt.title('Distribution of Aftertaste Ratings')
     plt.show()
```
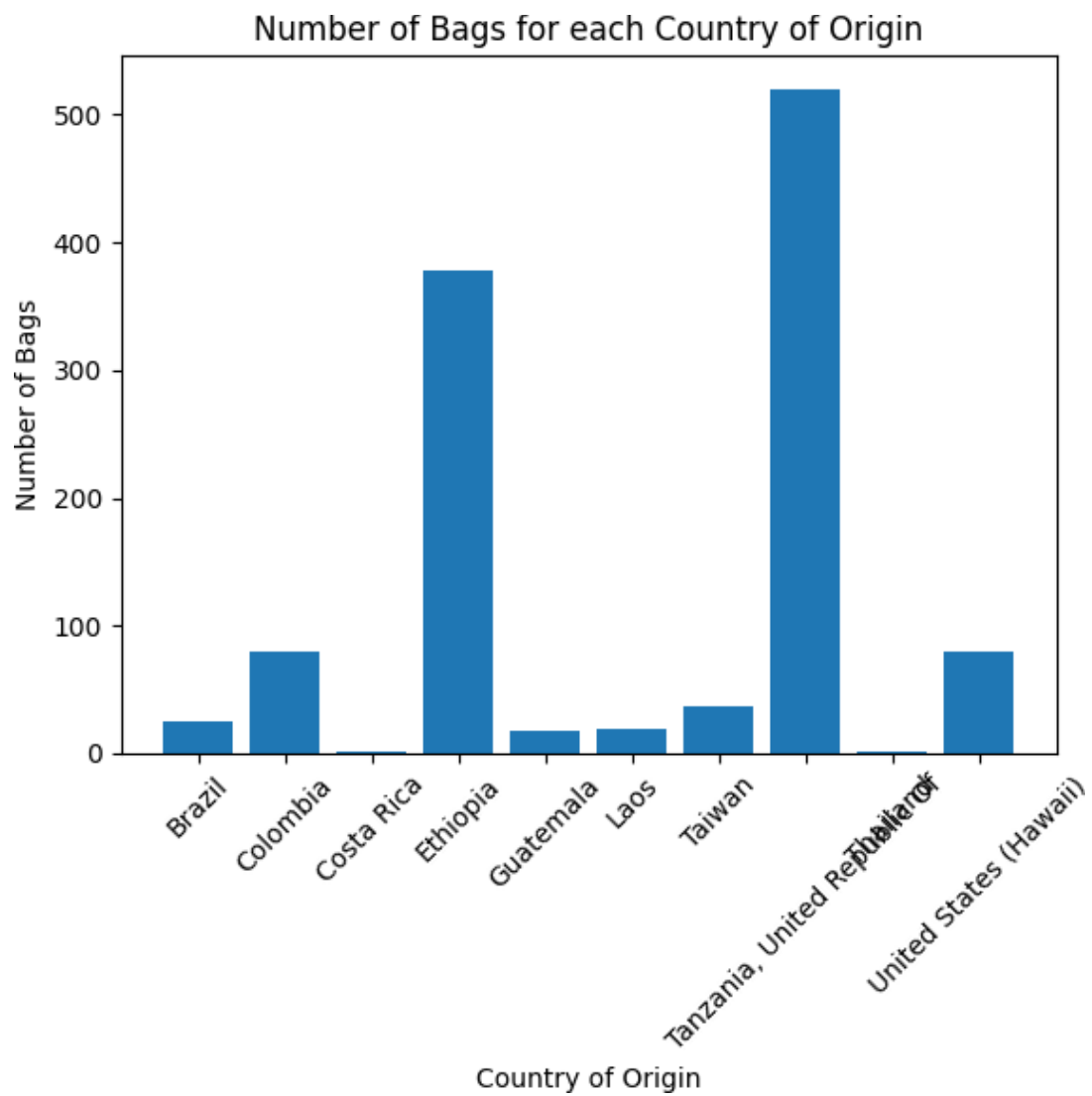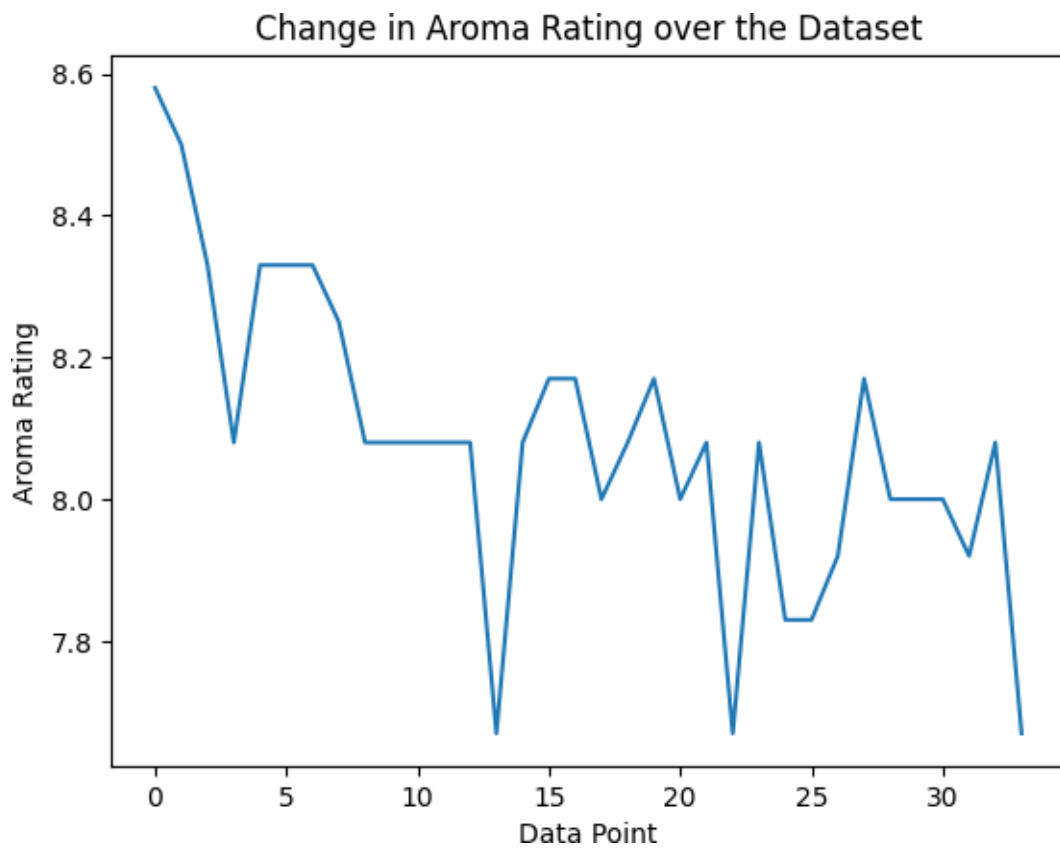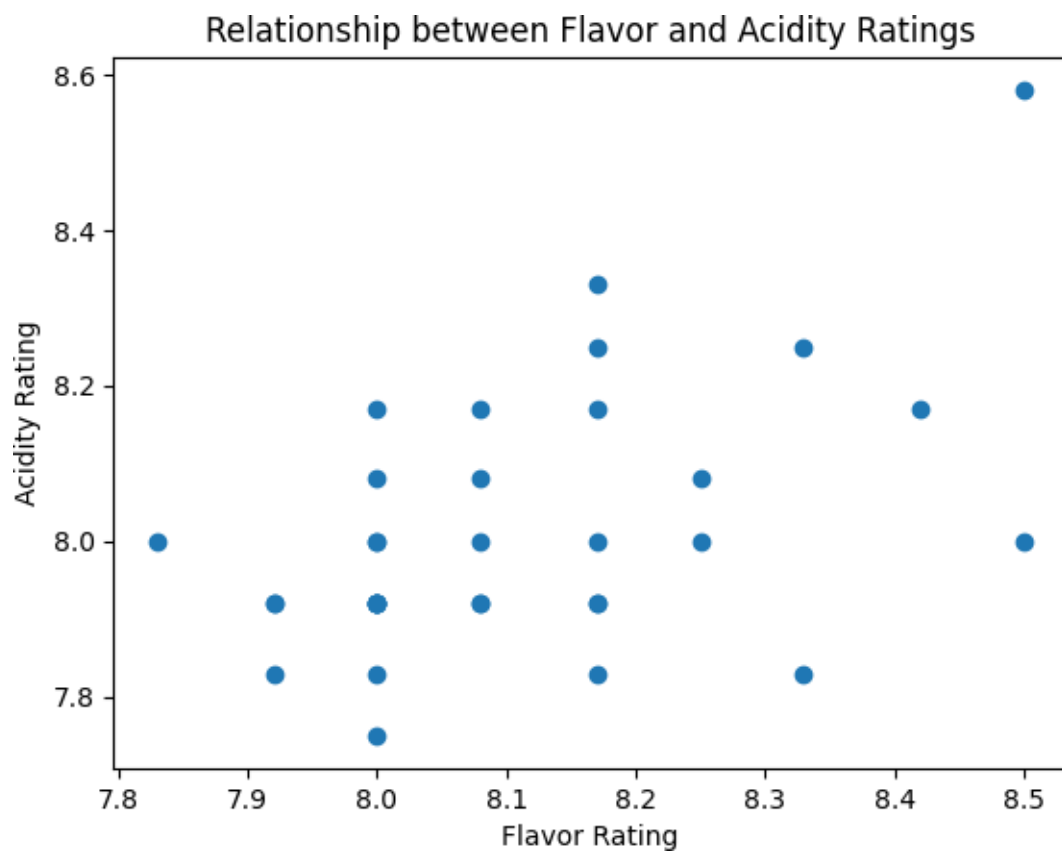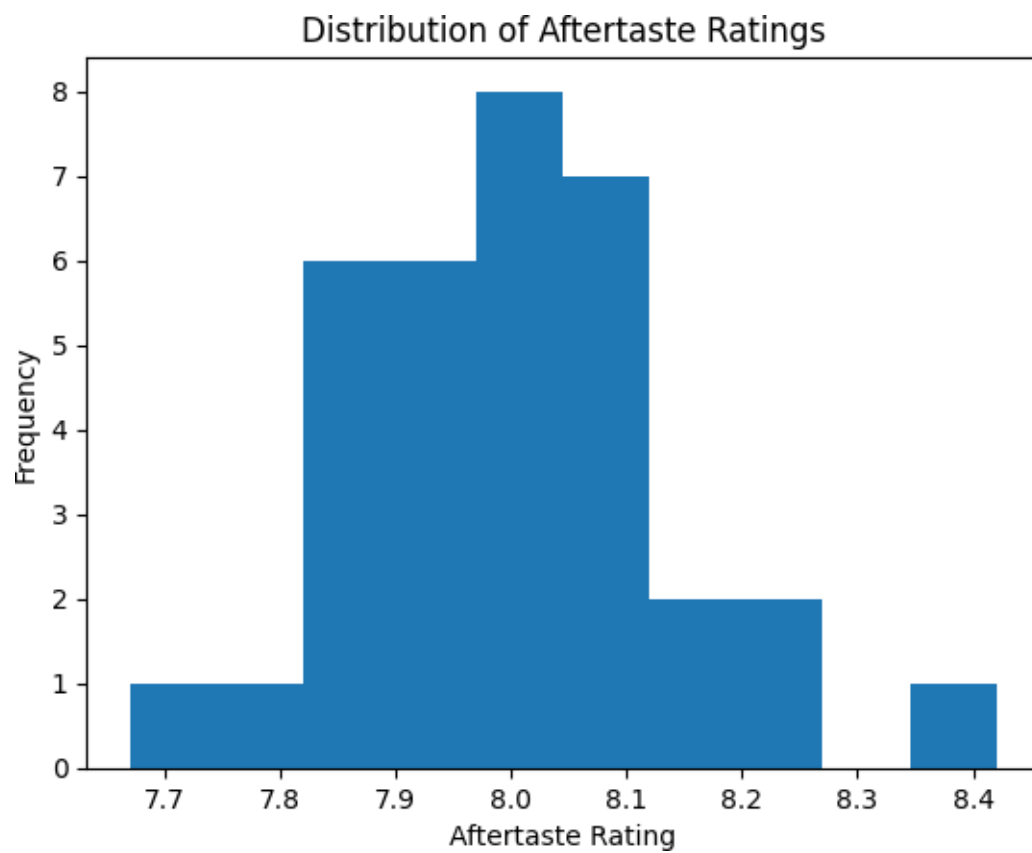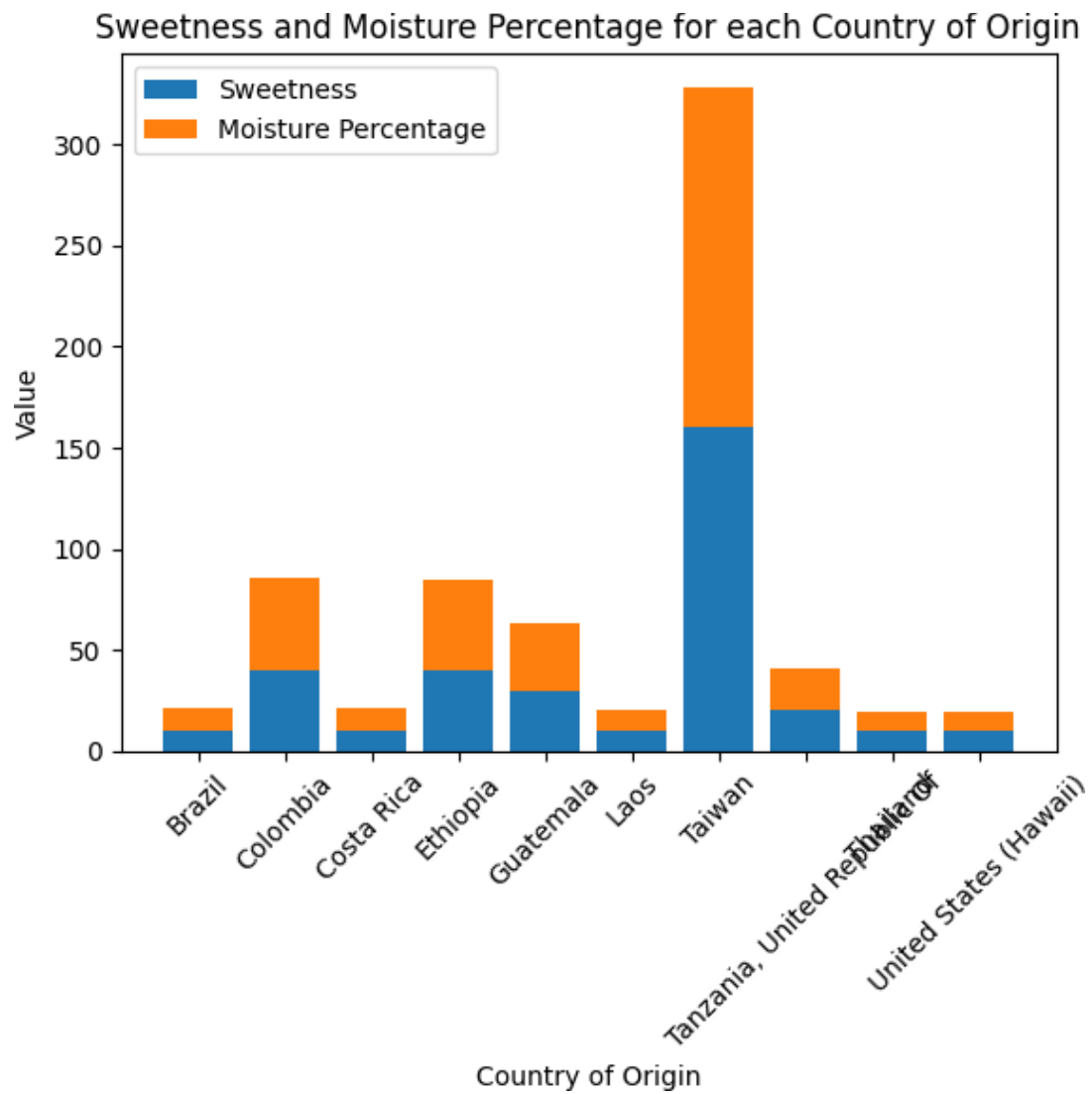
```python
# . Stacked Bar Chart - Sweetness and moisture percentage for each country of
 ↪origin
sweetness = data.groupby("Country of Origin")["Sweetness"].sum()
moisture = data.groupby("Country of Origin")["Moisture Percentage"].sum()
plt.bar(sweetness.index, sweetness.values, label="Sweetness")
plt.bar(moisture.index, moisture.values, bottom=sweetness.values,
 ↪label="Moisture Percentage")
plt.xlabel("Country of Origin")
plt.ylabel("Value")
plt.title("Sweetness and Moisture Percentage for each Country of Origin")
plt.xticks(rotation=45)
plt.legend()
plt.show()
```

Number of Bags for each Country of Origin

Change in Aroma Rating over the Dataset

Relationship between Flavor and Acidity Ratings

Distribution of Aftertaste Ratings

Sweetness and Moisture Percentage for each Country of Origin

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