

Odin school



Capstone Project: Coffee Quality Analysis

Introduction:

1. Coffee :

2. Coffee Quality Institute:

3. Dataset:

- Originally 207 rows and 31 columns
- To ensure accurate and meaningful insights in the Power BI report, comprehensive data cleaning was performed. which involved removing inconsistencies, handling missing values, and standardizing the dataset, resulting in a refined dataset that supports reliable analysis and visualization



Important Features:

1. Sensory Evaluations:

- Coffee Quality Score depends upon 10 Total cup points like Aroma, flavor, Aftertaste, Sweetness etc.

2. Defects:

- Category One Defect - Visual inspection needed
- Category Two Defect - Tasting needed

3. Processing Method:

- Washed/Wet ,Natural/Dry Pulp Natural/Honey etc

4. Others:

- Country of Origin , Harvest Year , Variety , Region etc.





Sensory Attributes Analysis



Harvest Year

All

Country of Origin

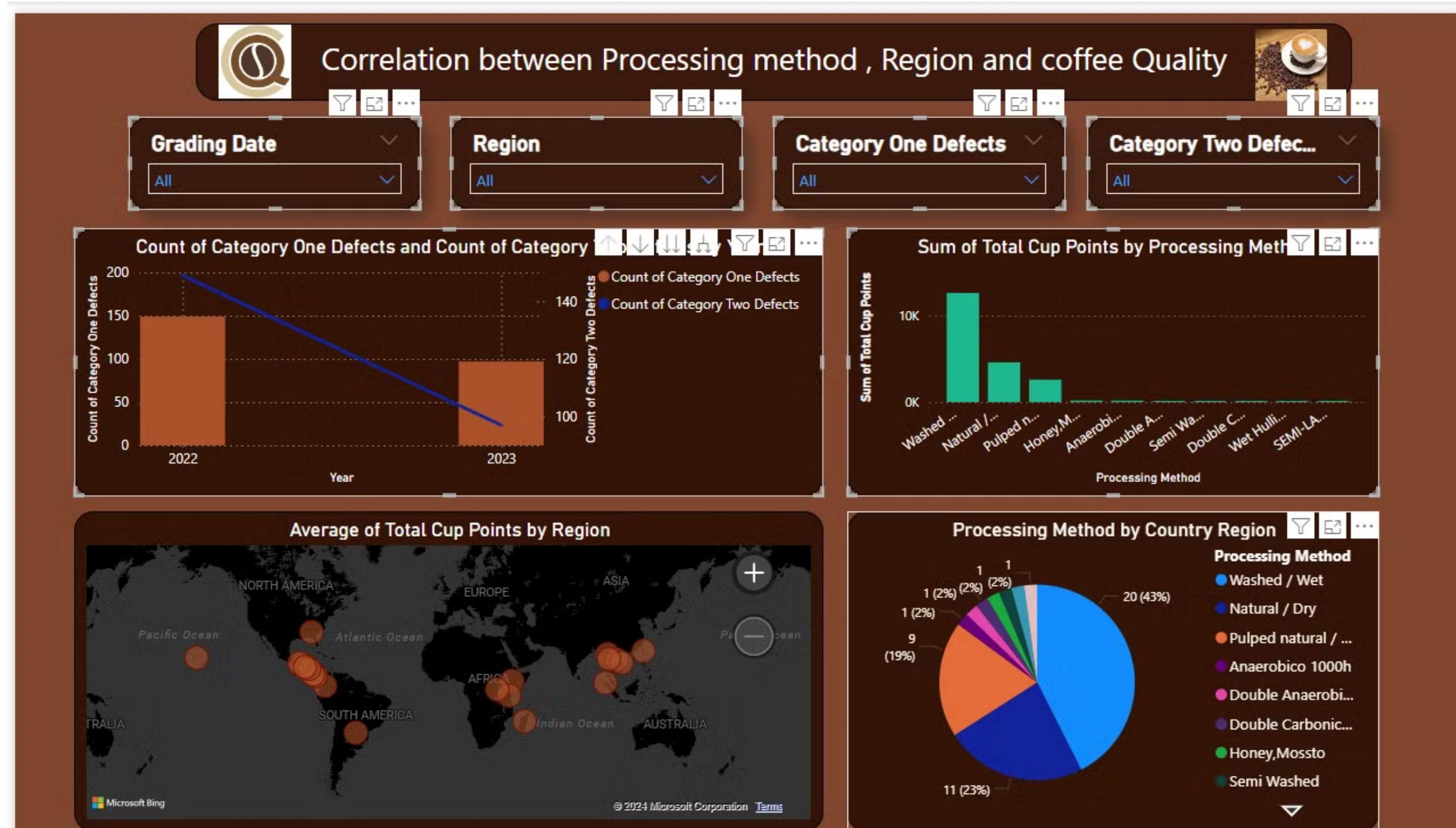
All

Processing Method

All



Processing Method	Average of Acidity	Average of Aroma	Average of Balance	Average of Body	Average of Flavor	Average of Uniformity
Double Anaerobic Washed	8.58	8.58	8.42	8.25	8.50	10.0
Honey,Mossto	8.25	8.33	7.92	7.92	8.33	10.0
Semi Washed	8.17	8.33	8.17	7.92	8.42	10.0
Double Carbonic Maceration / Natural	7.92	7.83	7.83	7.67	7.92	10.0
Wet Hulling	7.83	7.67	7.75	7.67	7.67	10.0
Washed / Wet	7.68	7.72	7.64	7.64	7.74	9.9
Natural / Dry	7.66	7.72	7.63	7.62	7.73	9.9
Pulped natural / honey	7.67	7.67	7.62	7.61	7.74	10.0
Anaerobico 1000h	7.67	7.67	7.58	7.58	7.67	10.0
SEMI-LAVADO	6.83	7.25	6.67	6.83	7.08	10.0
Total	7.69	7.72	7.64	7.64	7.74	9.9





Defect Analysis



Total Cup Points

78.00

84.95

Category One Defects

All

Category Two Defects

All

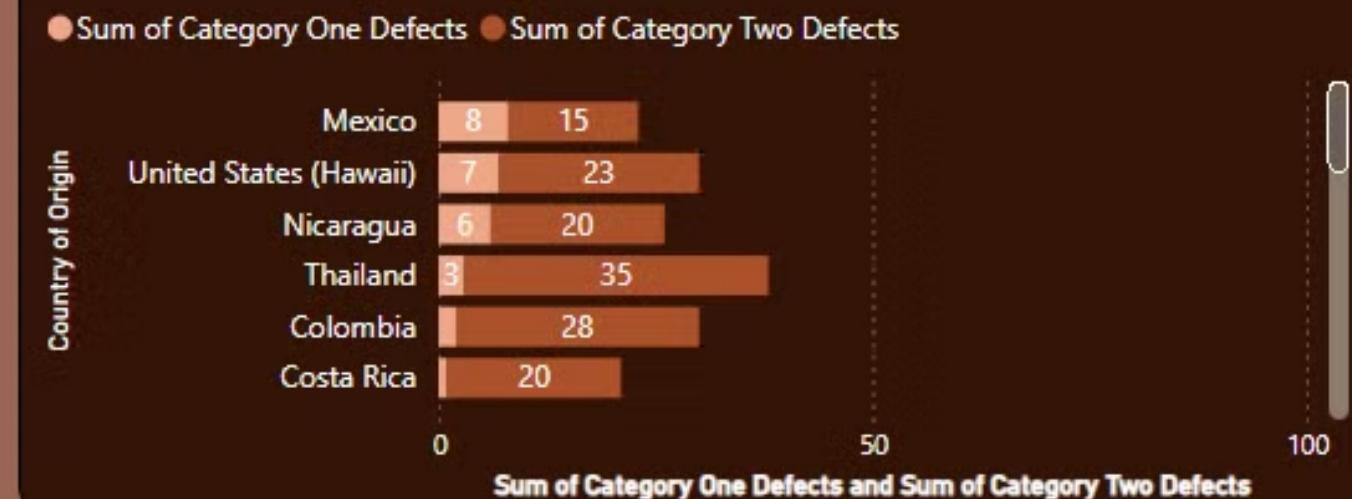
Country of Origin

All

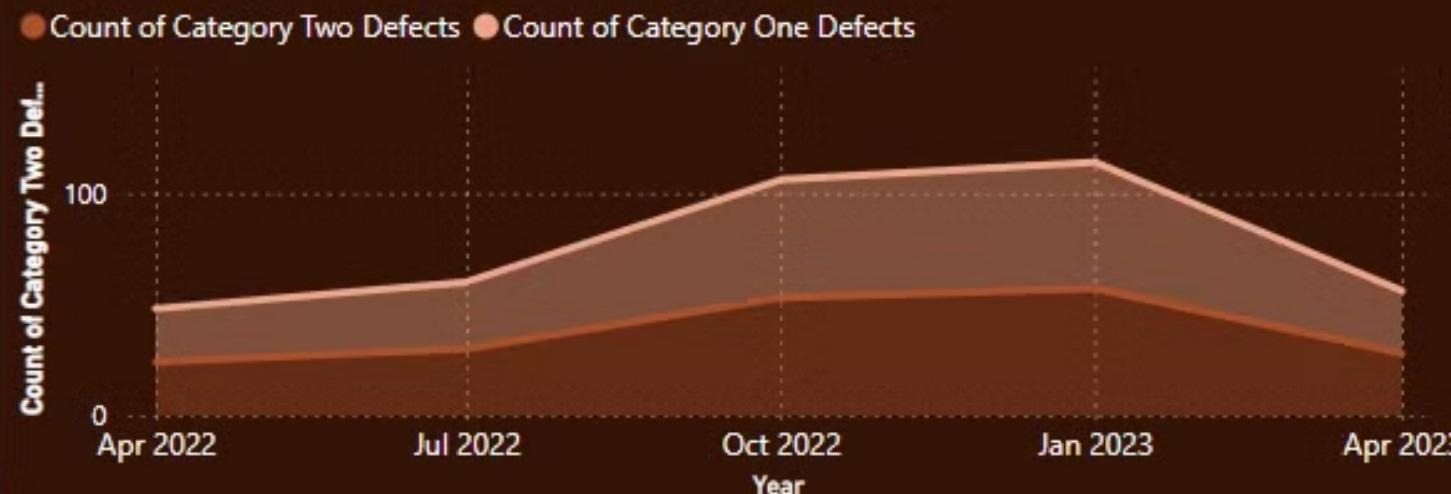
Count of Category Two Defects and Count of Category One Defects by Total Cup Points



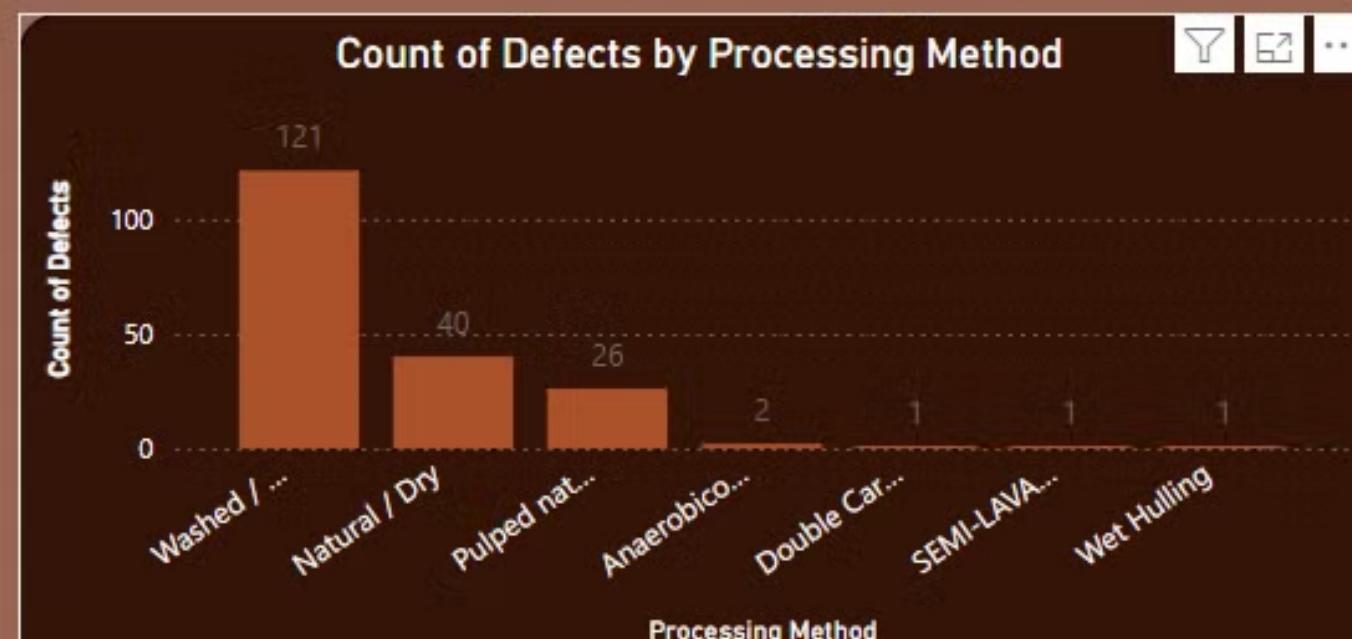
Sum of Category One Defects and Sum of Category Two Defects by Country of Origin



Count of Category Two Defects and Count of Category One Defects by Year and Quarter



Count of Defects by Processing Method





Factors Impacting on Quality of Coffee



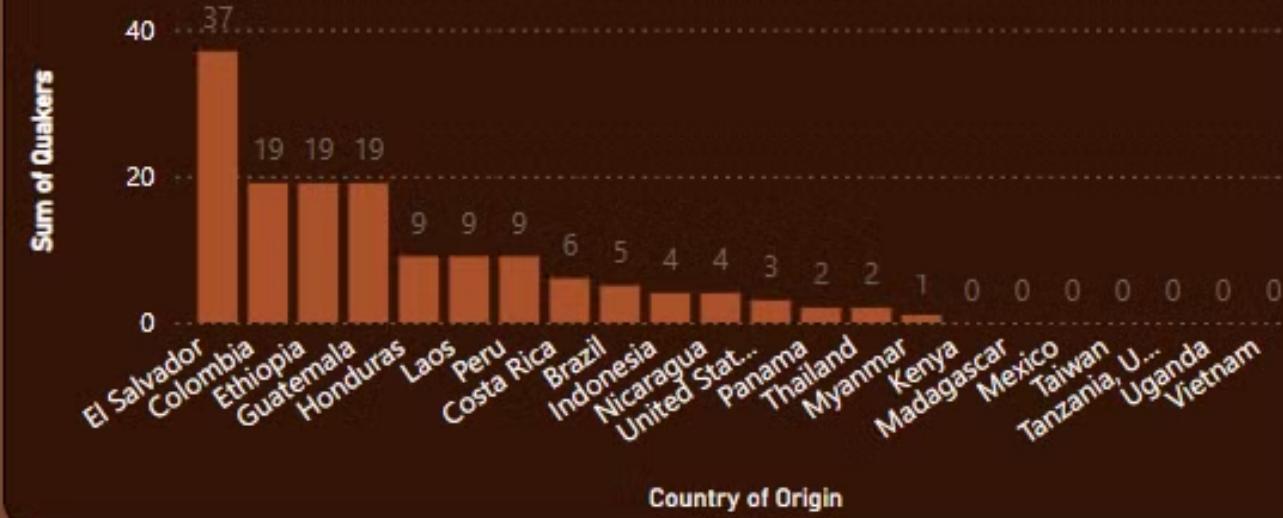
Quakers

All

Country of Origin

All

Sum of Quakers by Country of Origin



Quality score by Country



Distribution of Variety by Country of Origin

- Country of Origin
- Colombia
 - Taiwan
 - Brazil
 - Guatemala
 - Thailand
 - Honduras
 - Nicaragua
 - El Salvador
 - Mexico
 - United States (Hawaii)
 - Costa Rica
 - Ethiopia
 - Indonesia
 - Panama
 - Kenya
 - Laos
 - Peru



Try Pitch



Want to make a presentation like this one?

Start with a fully customizable template, create a beautiful deck in minutes, then easily share it with anyone.

[Create a presentation \(It's free\)](#)