CAPSTONE PROJECT POWER BI

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Introducing The Art of Brewing

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Project Overview

This project leverages the Coffee Quality Institute (CQI) dataset to analyze factors that contribute to coffee quality, focusing on sensory evaluation, defects, and processing methods.

The goal is to understand the key determinants of coffee quality and their relationships with processing methods, origin regions, and defects.

The analysis aims to improve decision-making in coffee production and processing to enhance overall coffee quality.

Business Problem

Inconsistent coffee quality due to varying sensory attributes, processing methods, and defects challenges the coffee industry. Understanding these factors is crucial for improving quality control and meeting consumer expectations.

Objective

Sensory attributes Analysis
Defects Analysis
Analysis on Processing Methods and Origin of Regions

Sensory Attributes Aroma Flavor Country of Origin Aftertaste Lot Number Acidity Altitude Body Region **Balance** Number of Bags Uniformity Bag Weight Clean Cup In-Country Partner Sweetness Harvest Year **Grading Date** Variety Status **Processing Method** Overall

Defects

Quakers Color

Expiration

Total Cup Points Moisture Percentage Category One Defects

Category Two Defects

Dataset Overview

The dataset consists of Coffee Quality Institute (CQI) data consisting of 31 rows and 208 columns.

Approach Used

- Data Cleaning and Preprocessing
- Exploratory Data Analysis
- (EDA)Visualization

Tools & Methods

Tools: Power BI Desktop, Excel (for preparation).





Overview of Dataset

207 Count of ID 22 Count of Country of Origin

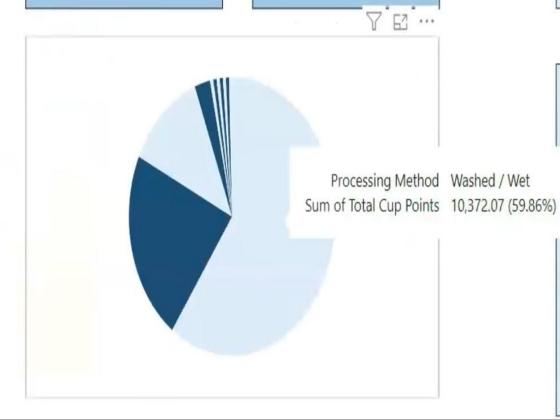
115 Count of Region

=> Types of Defects

Category 1 Defect Category 2 Defect

49 Count of Variety

11 Count of Processing Met...

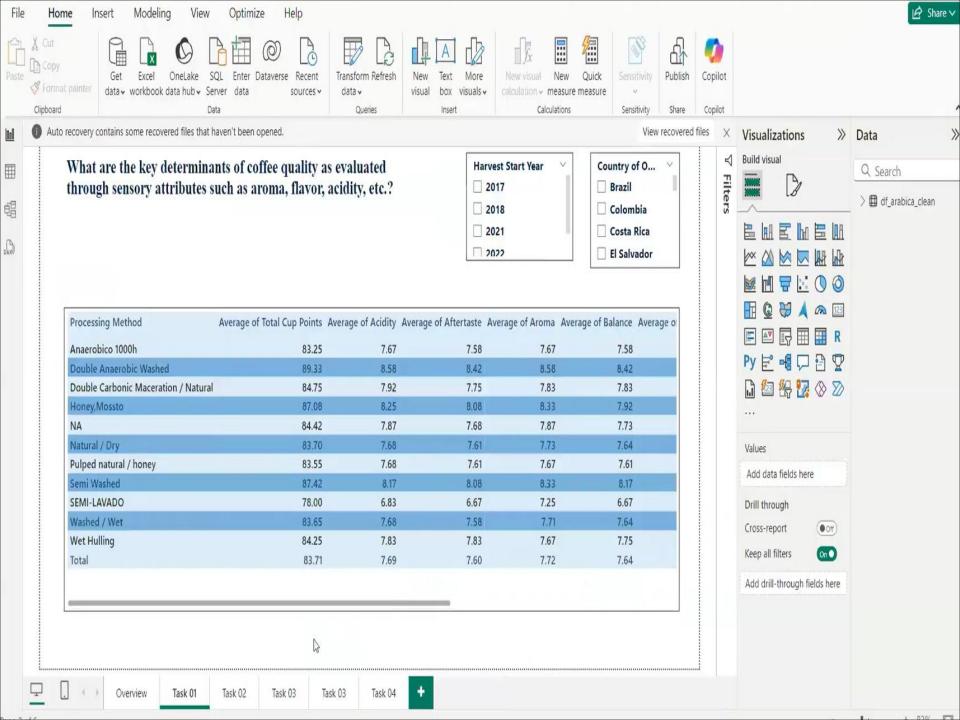


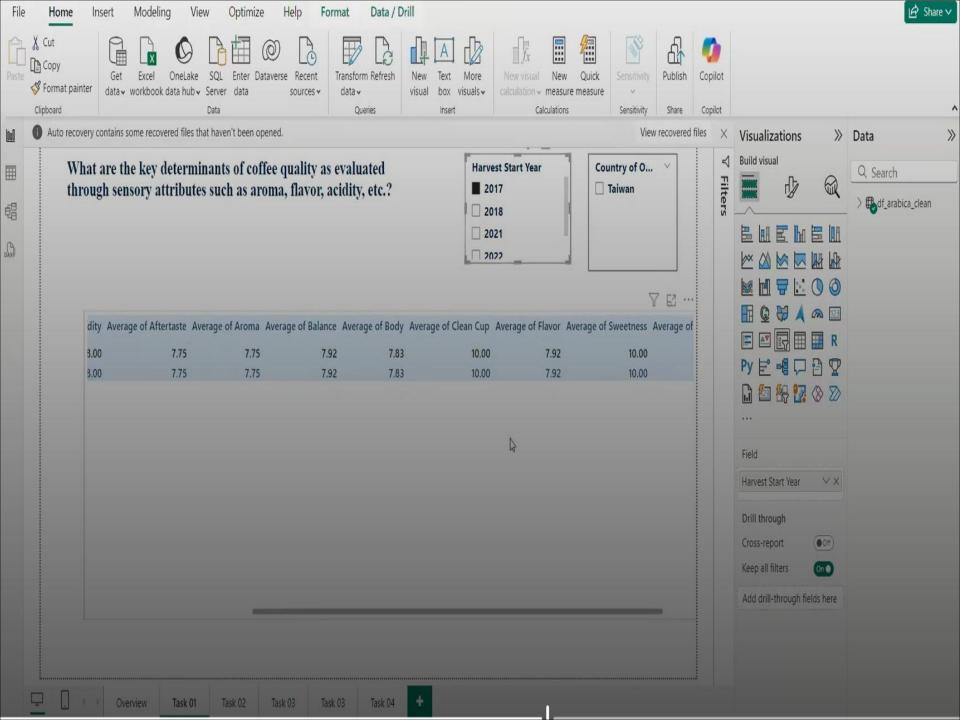
=> Sensory Attributes

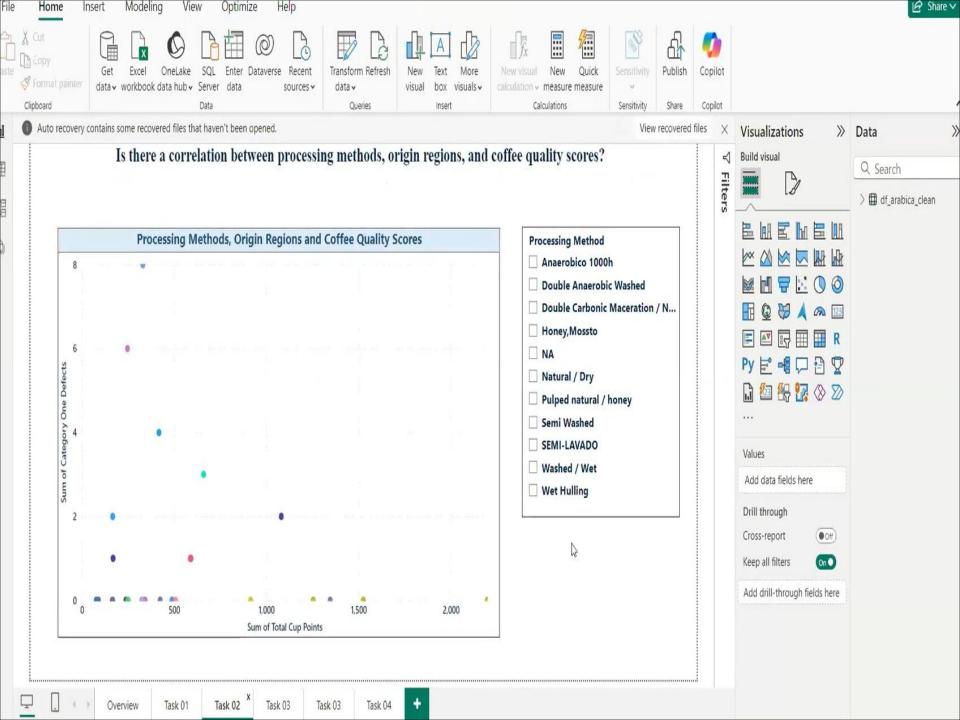
Acidity
ftertaste
roma
alance
Body
Clean Cup

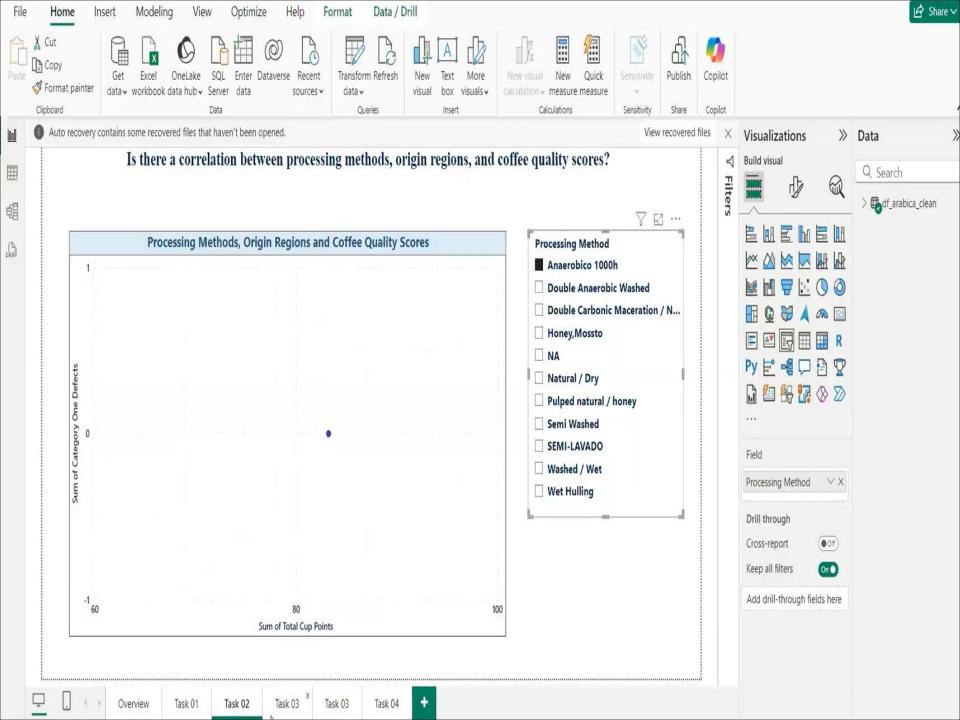
Sweetness

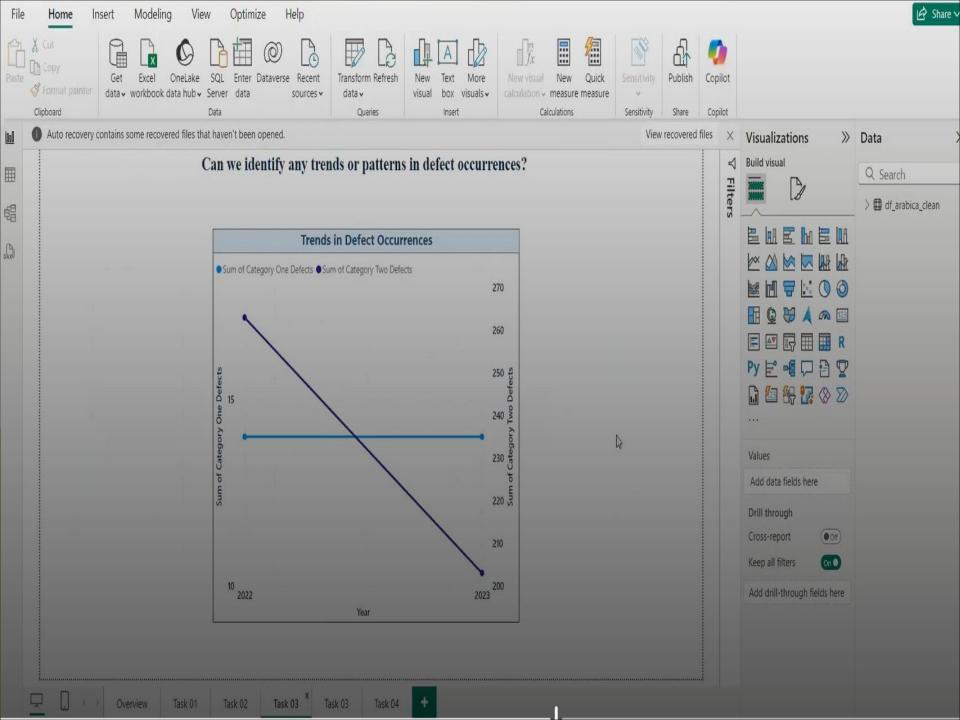
Uniformity

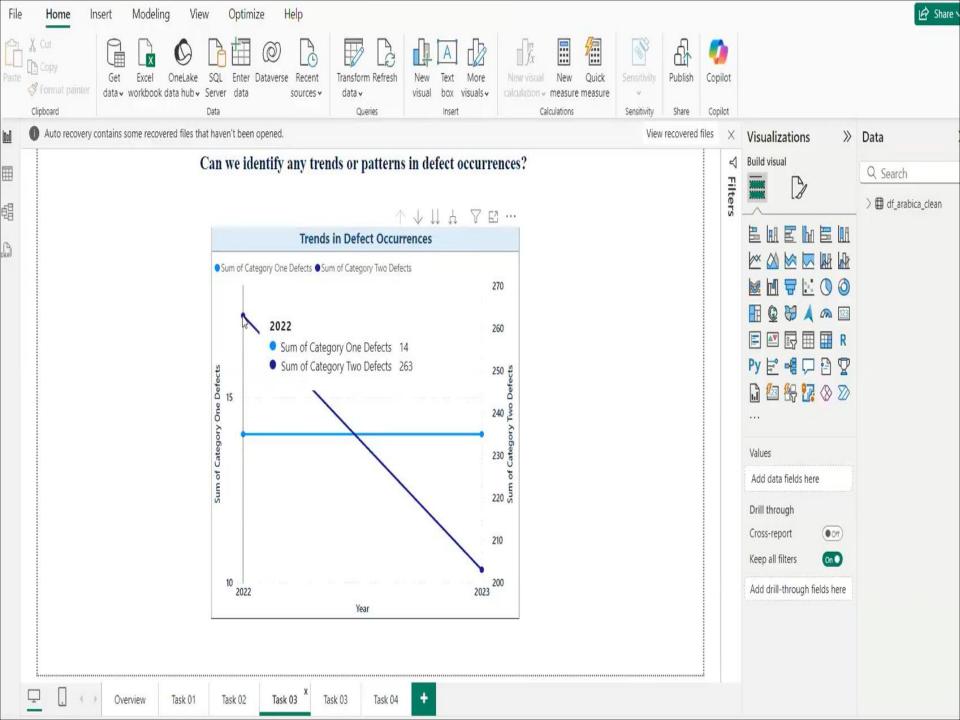


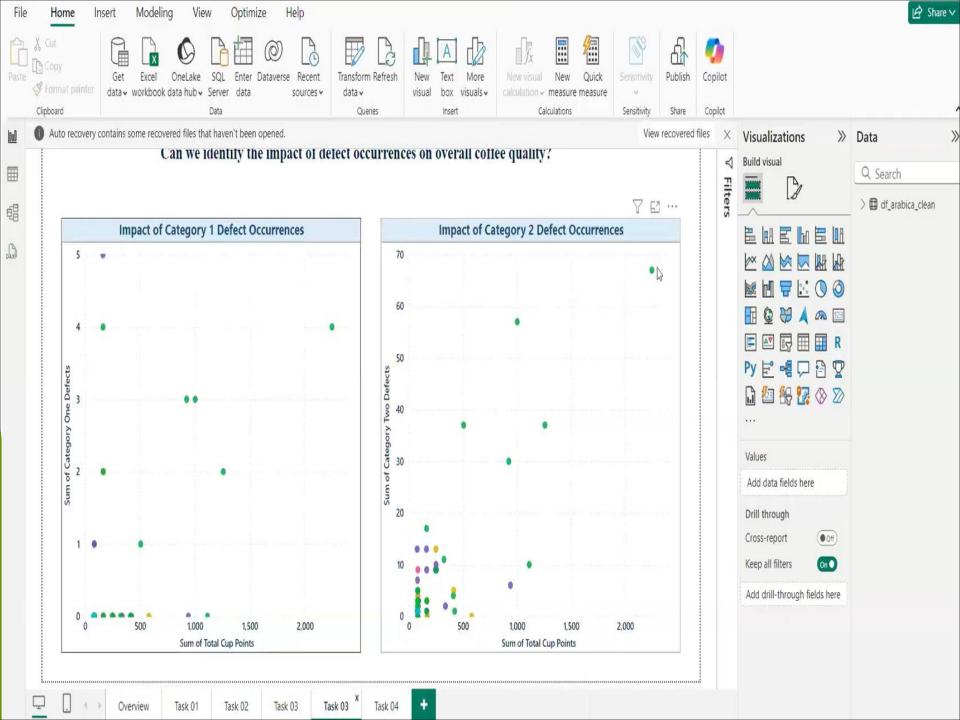


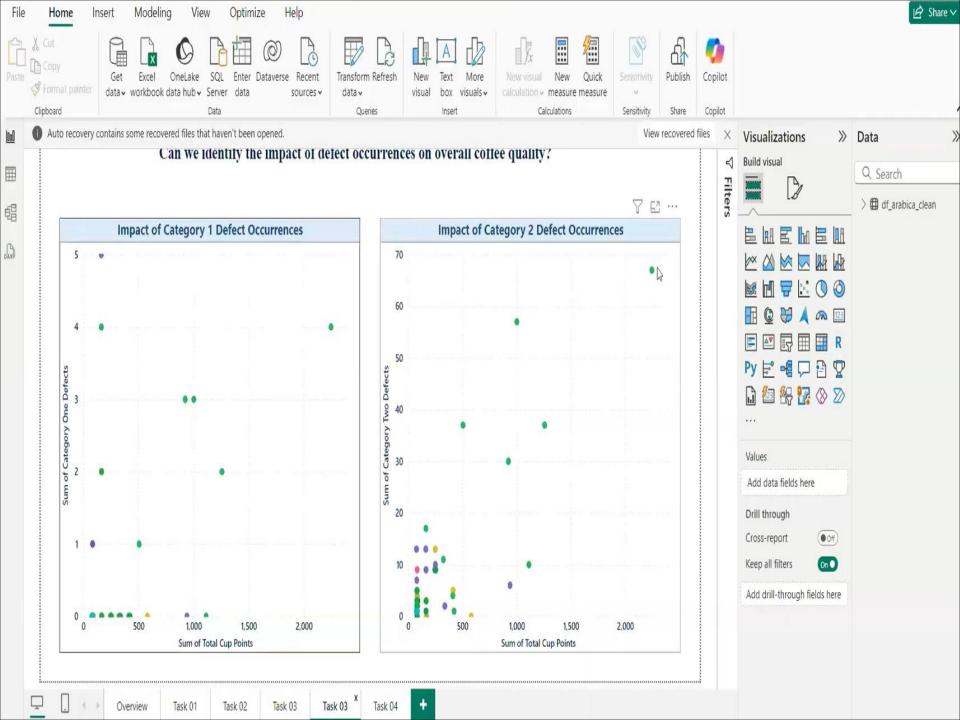


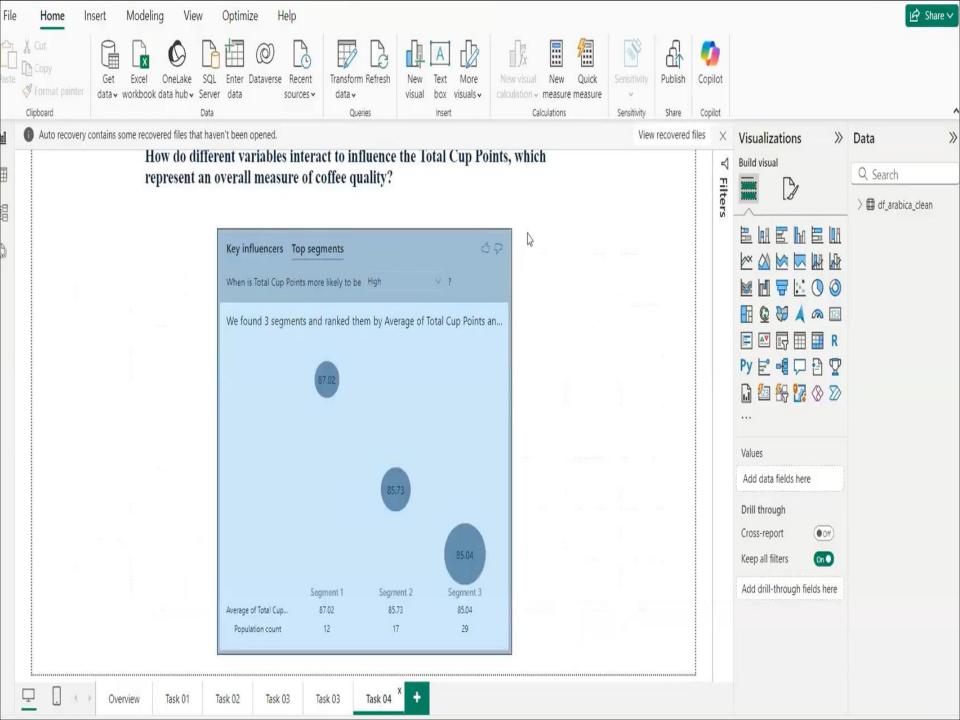


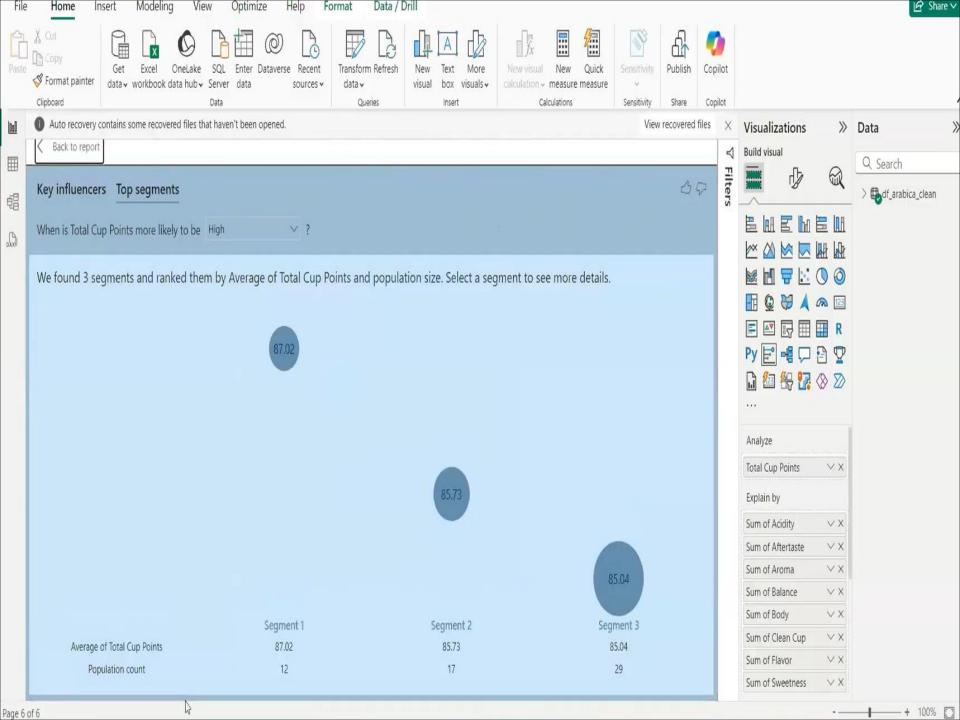


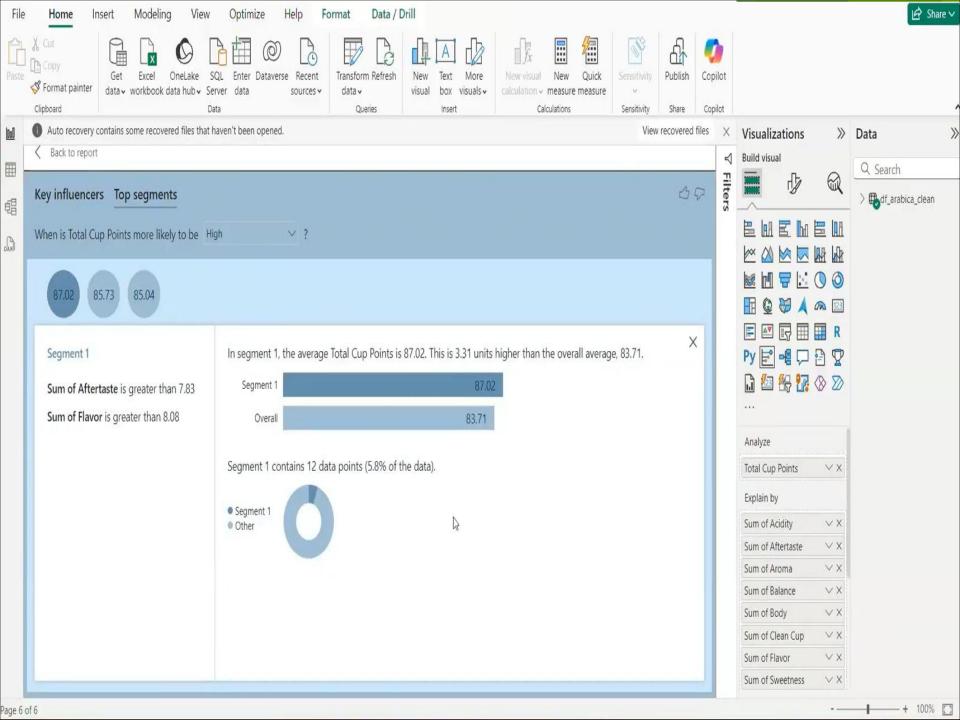


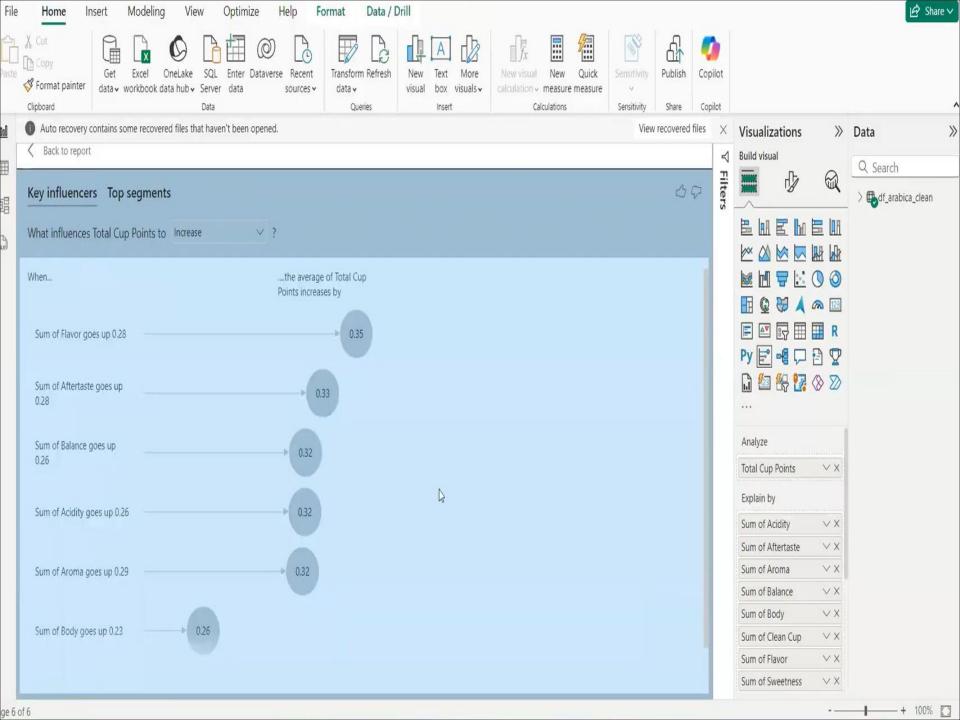












Thank You