WEEK 2

Analysis Questions Phase



1. Introduction

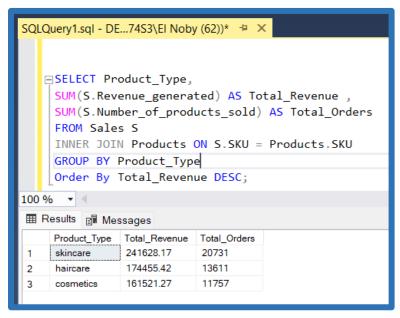
This document outlines the process of conducting a comprehensive data analysis to uncover valuable insights from the provided dataset. The analysis will focus on formulating and answering key questions that are relevant to the organization's decision-making process.

By leveraging SQL and Python libraries like pandas and Matplotlib, we will explore the dataset to identify patterns, trends, and correlations that can inform strategic initiatives and enhance overall business performance.

2. Sales and Revenue

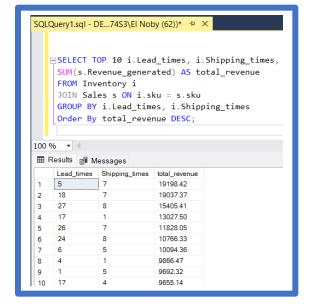
2.1 What is the Impact of Product Category on Sales

Performance?



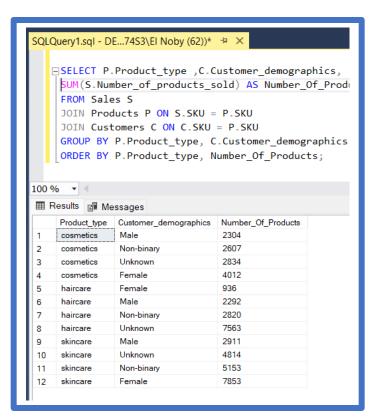
2.2 How do lead times and shipping times affect sales

performance?



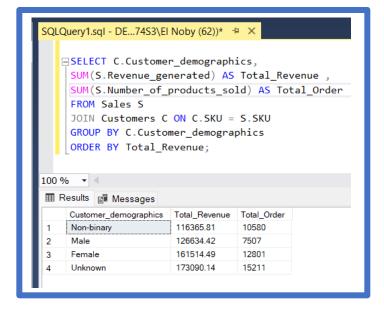
3. Customer Segmentation

3.1 What is Sales Trends Based on Customer Demographics?



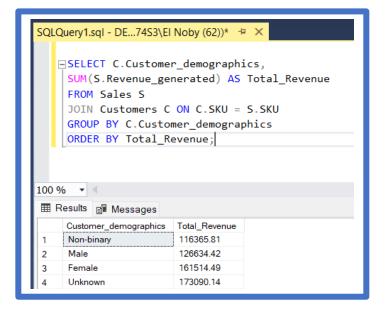
3.2 How do customer demographics influence purchasing

behavior?



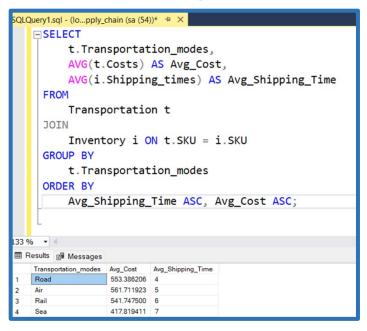
3.3 How do customer demographics influence purchasing

behavior?



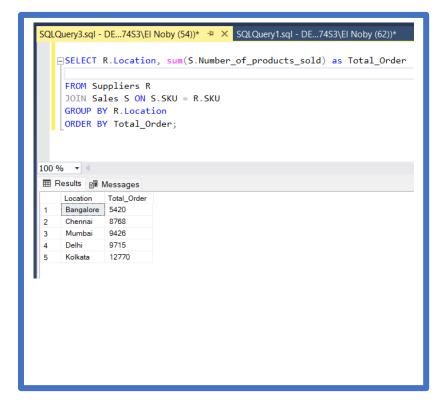
4. Transportation

4.1 Which transportation modes are associated with the lowest costs and fastest delivery times?



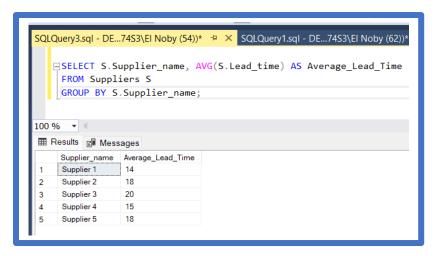
4.1 Which Location have the largest amount of order shipping

from?

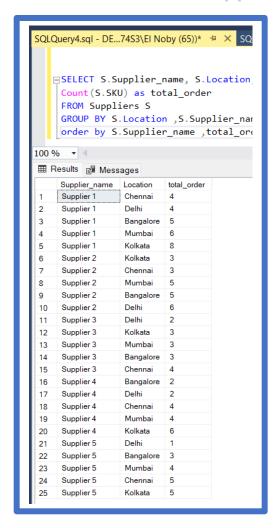


5. Supplier

5.1 Average each Supplier Performance For lead time?

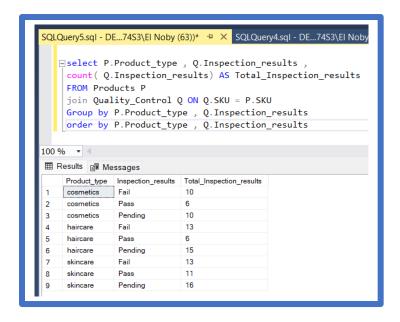


5.1 What are the Location trends in Supplier orders number?

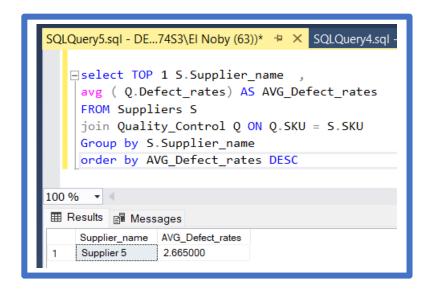


6. Quality Control

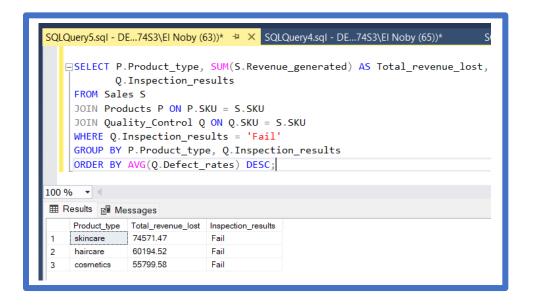
6.1 the overall Inspection results regarding each category.



6.2 the Supplier with the highest average Defect rates



6.3 total revenue lost regarding failed Inspection results



7. Conclusion

This analysis provides a comprehensive overview of the dataset, leveraging SQL and Python libraries to extract, clean, and analyze the data. The findings reveal valuable insights that can inform strategic decision-making.