

SUPPLY CHAIN OPTIMIZATION

BY Nahid Banu K

Import and read the files

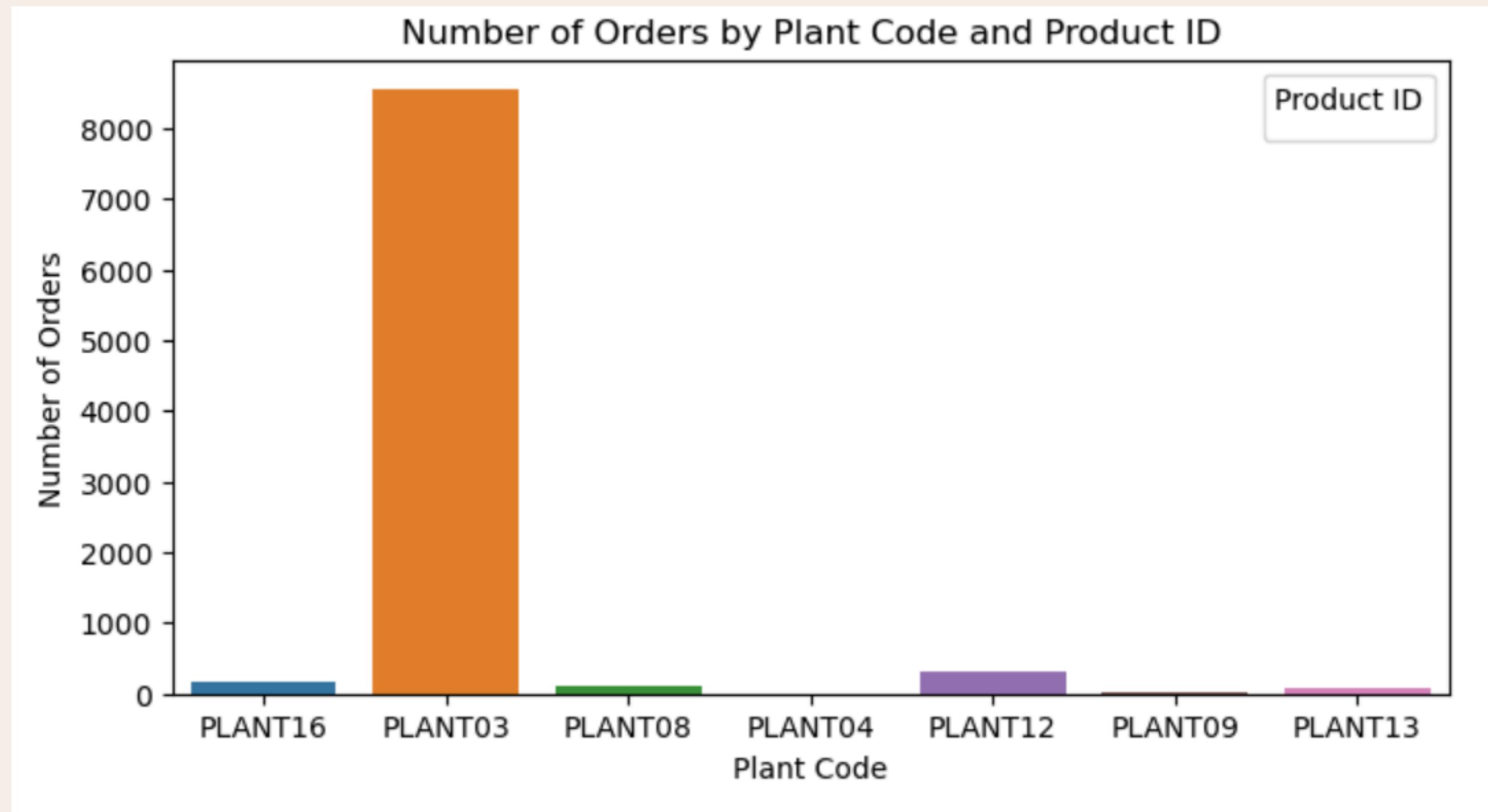
READ INDIVIDUAL FILES FROM THE DATASET

**PERFORM DATA CLEANING, CHECK FOR NULL
VALUES**

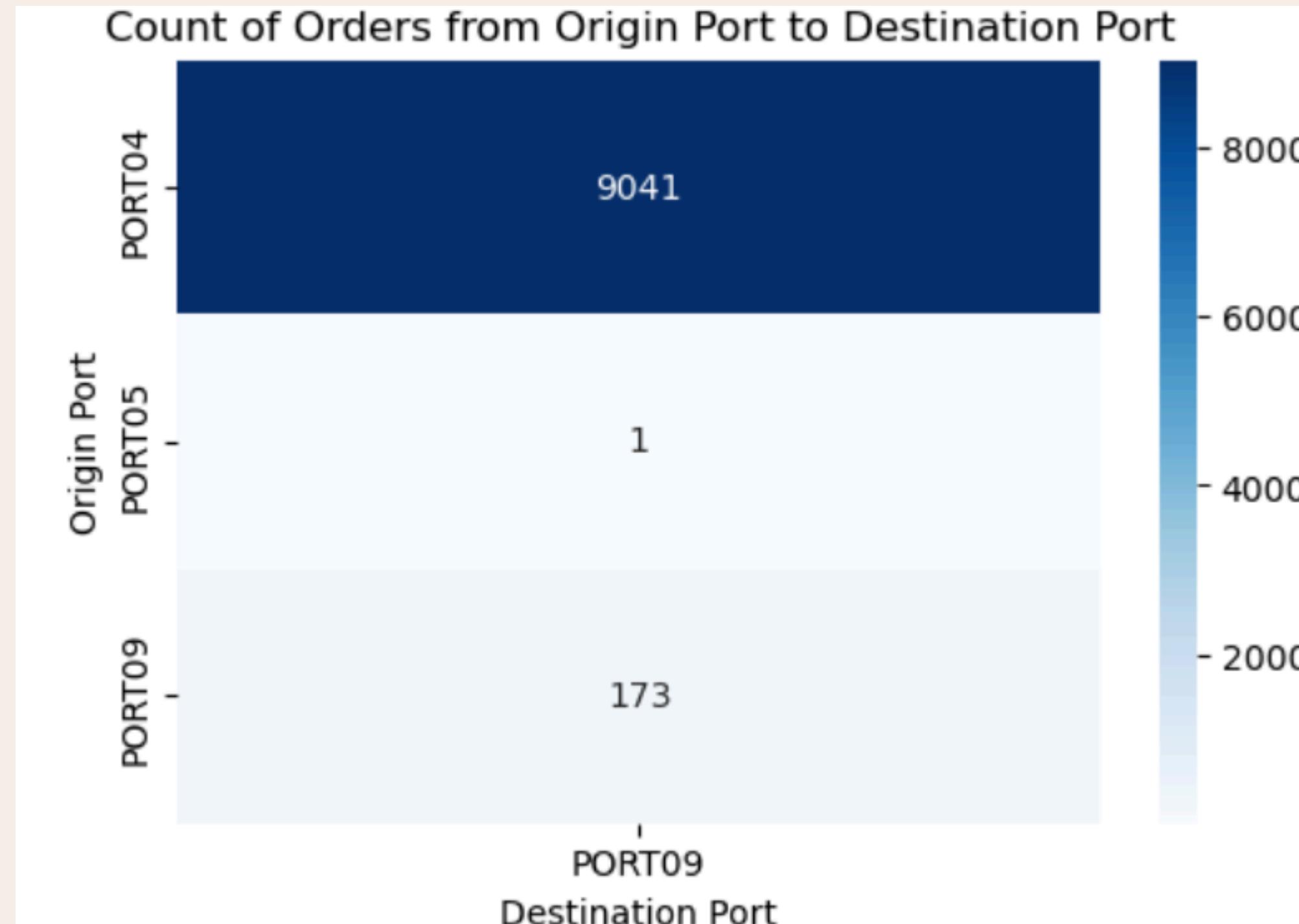
**CHECK FOR DATATYPES AND CHANGE
ACCORDINGLY**

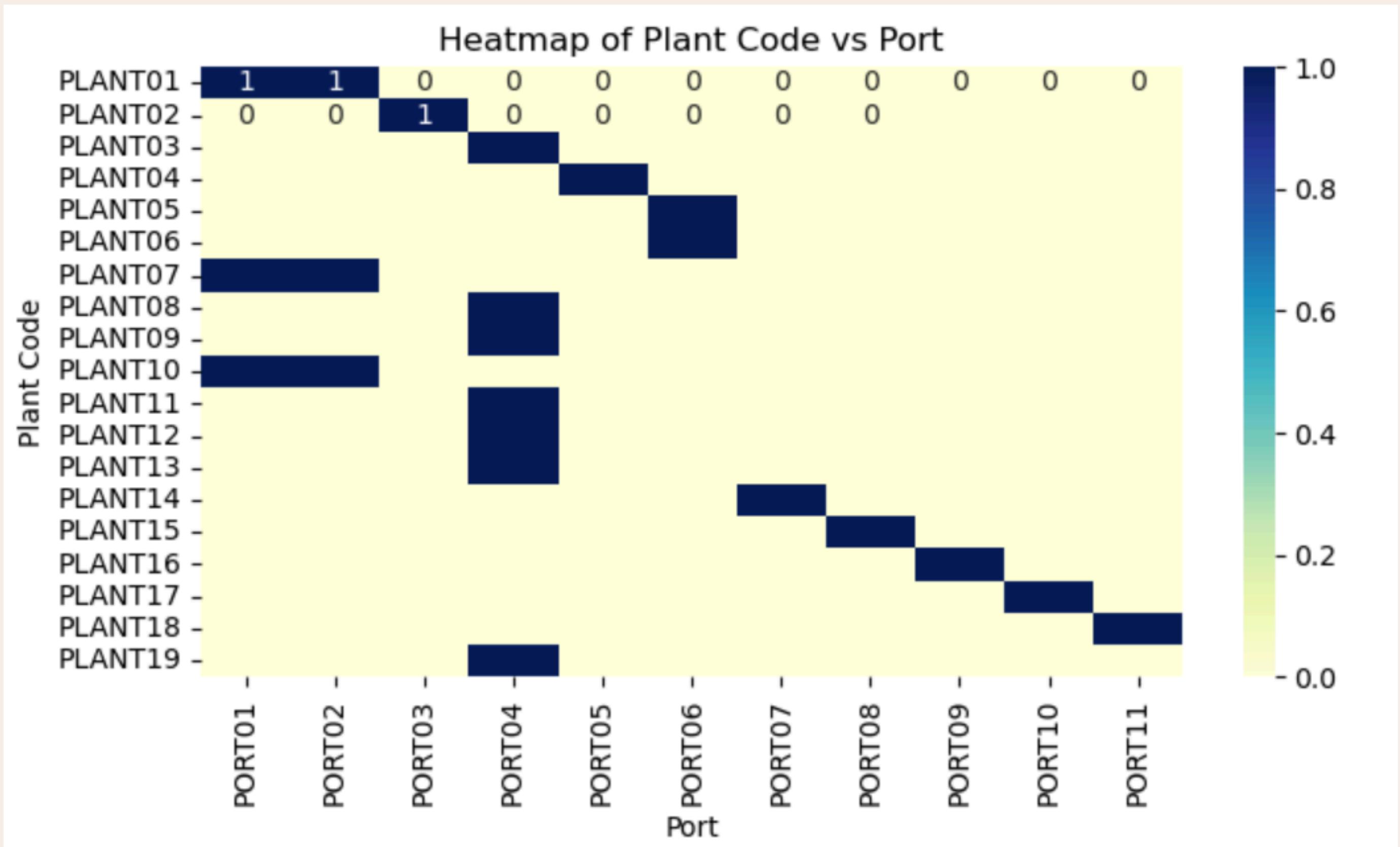
**PERFORM EXPLORATORY DATA ANALYSIS AND DRAW
MEANINGFUL INSIGHTS FROM THE DATA**

AS WE CAN SEE MORE NUMBER OF ORDERS ARE PLACED FOR PLANT 03 AND LEAST AT PLANT 09

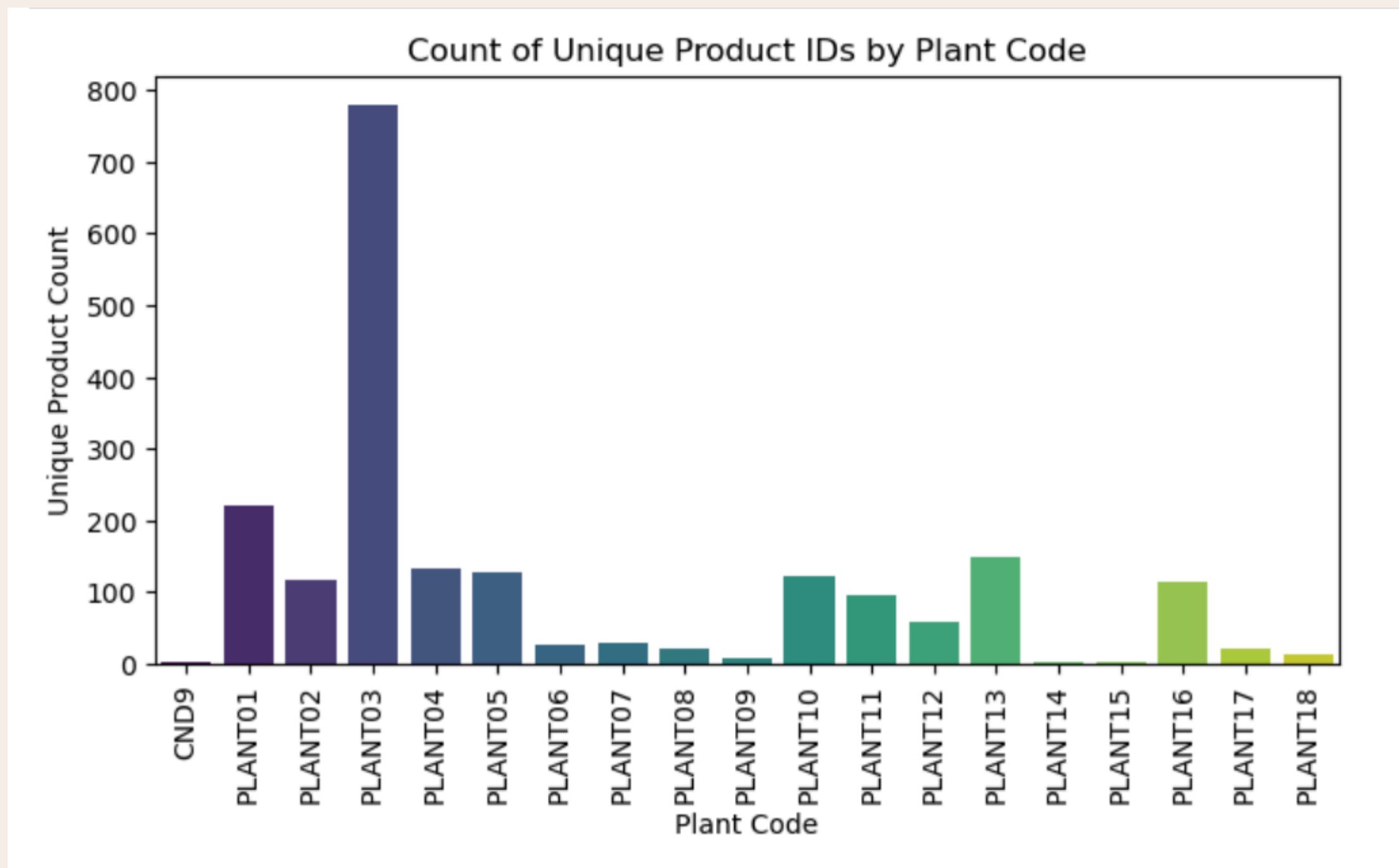


**MAXIMUM CONSIGNMENTS WERE MADE FROM PORT04 TO PORT09,
LEAST FROM PORT05 TO PORT09**

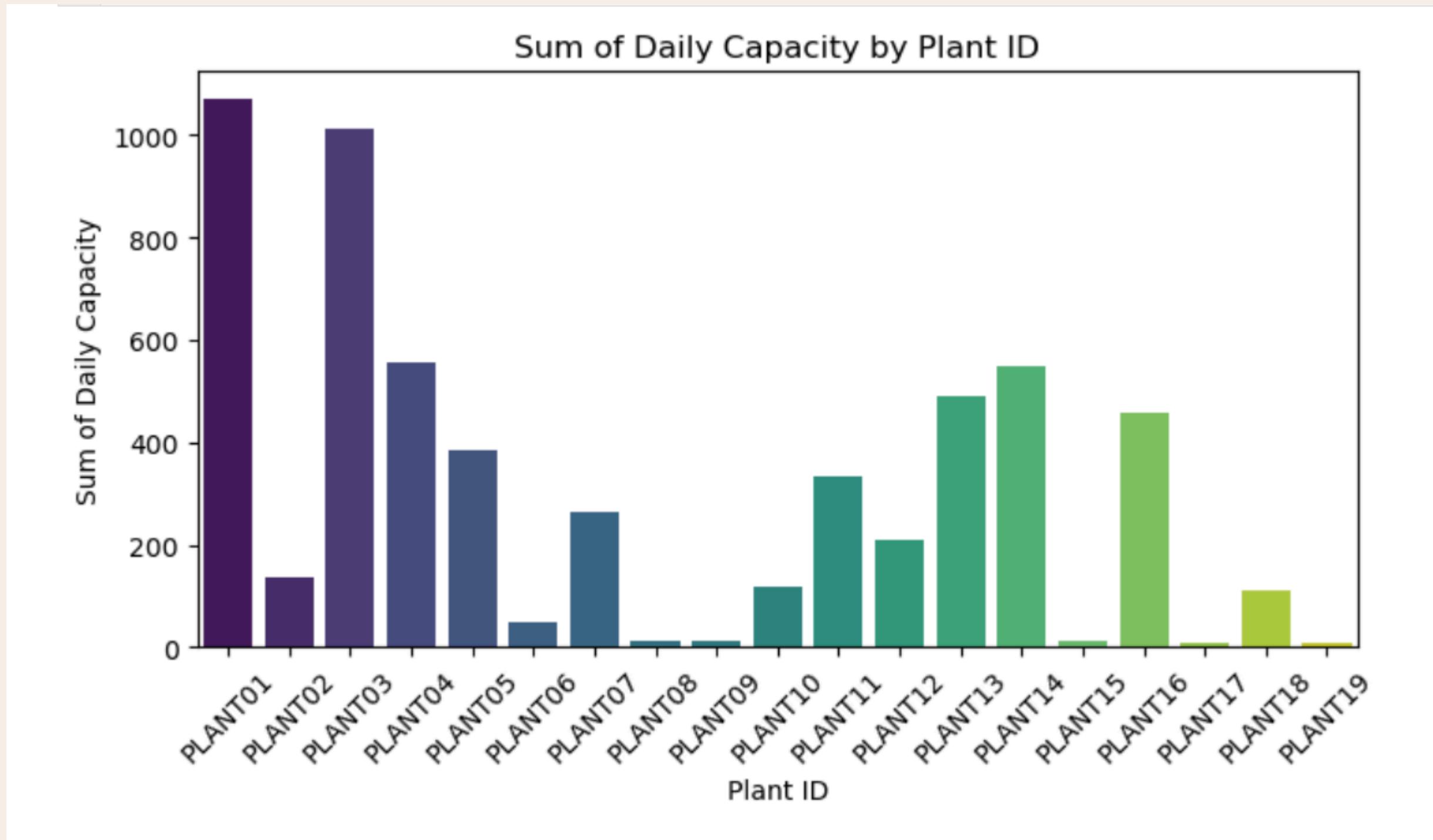




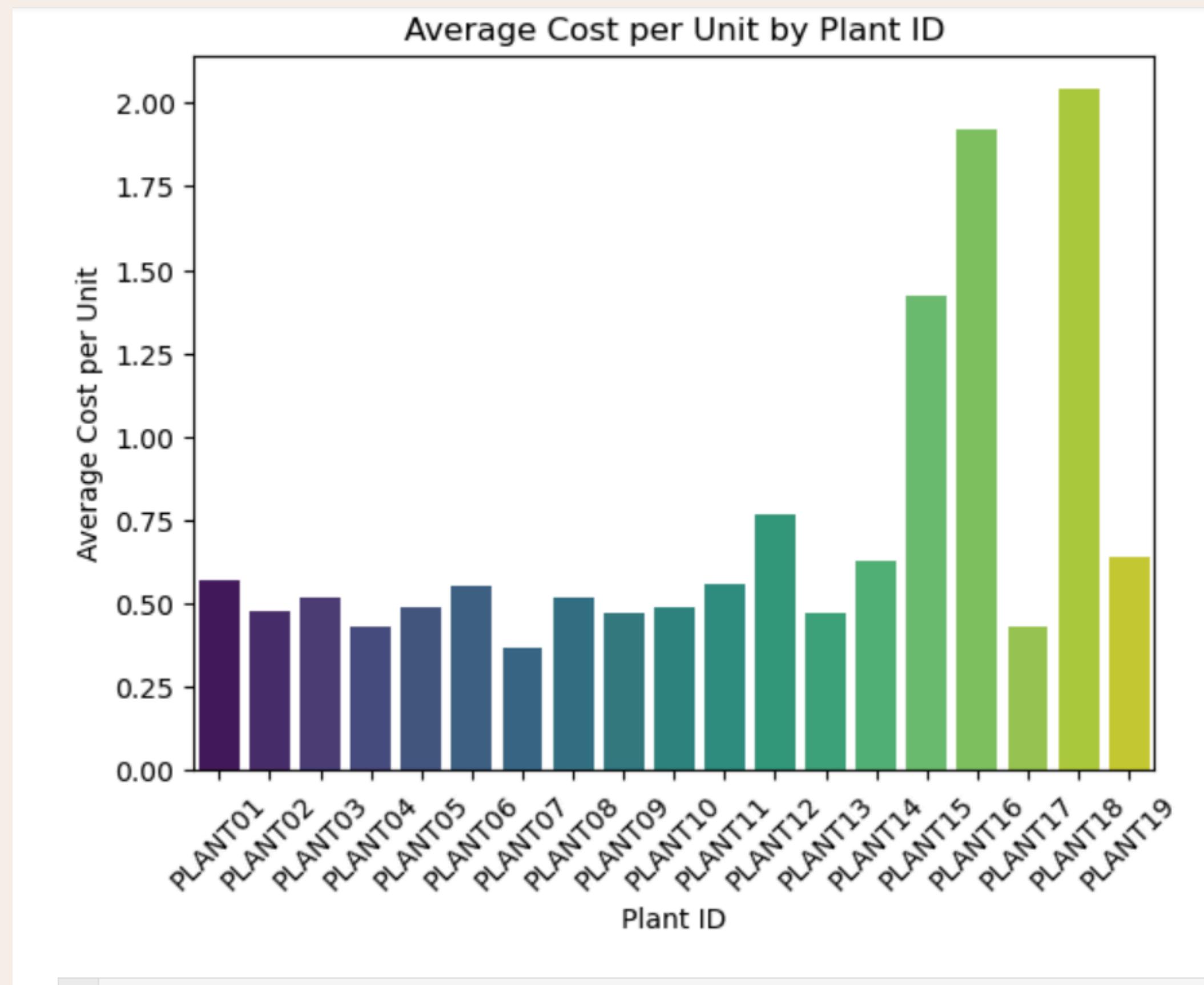
**NUMBER OF UNIQUE PRODCTS ARE MANUFACTURED FROM PLANT03
AND
LEAST FROM PLANT14 & PLANT15**



A BARPLOT OF SUM OF DAILY CAPACITIES PER PLANT ID SHOWS THAT HIGHEST DAILT CAPACITY IS FOR PLANT01, & LEAST DAILY CAPACITY IS FOR PLANT19



**AVERAGE COST PER UNIT IS HIGHEST IN PLANT18
AND
LEAST IN PLANT06**



Best Optimised Scenarios are

Base Scenario Total Cost: 1396895732949.3647

**Scenario 1 Total Cost (20% increase in warehouse capacities):
1396895732946.175**

**Scenario 2 Total Cost (10% decrease in freight rates):
1396895679487.88**

**Scenario 3 Total Cost (additional product compatibility):
1396895732949.3647**



THANK YOU
VERY MUCH!

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