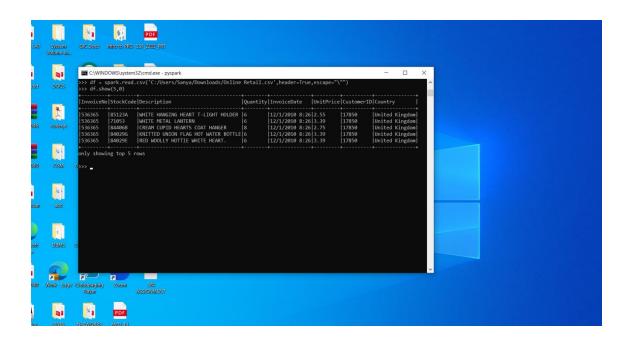
Machine Learning with PySpark: Customer Segmentation

SCREENSHOTS:

TASK 1: Creating a SparkSession

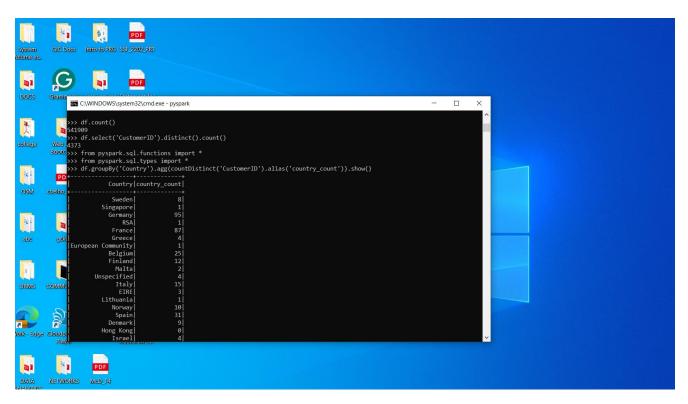
TASK 2: CREATING A DATA FRAME

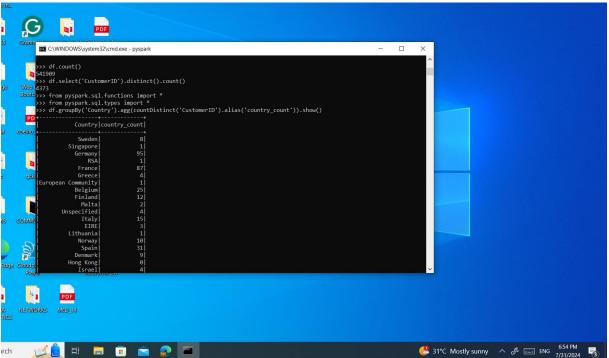


Task 3: Exploratory Data Analysis

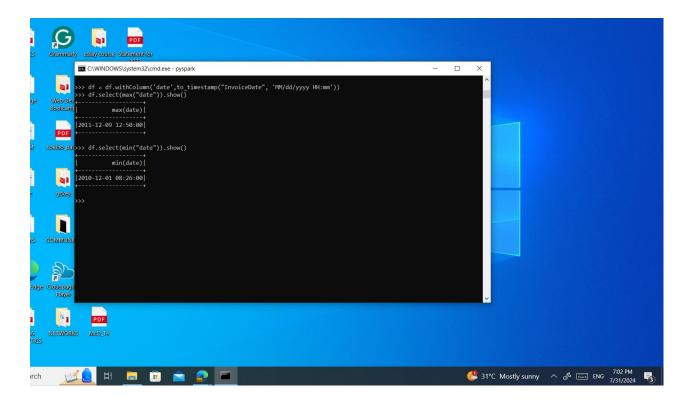
- 1. Counting the number of rows
- 2. Counting unique customers

3. Country which purchases the maximum quantity



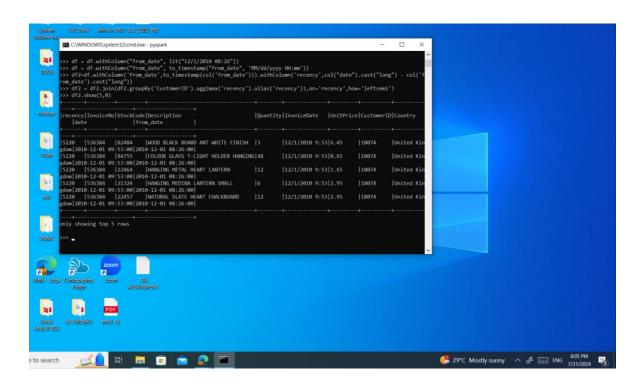


MOST RECENT PURCHASE AND MINIMUM DATE

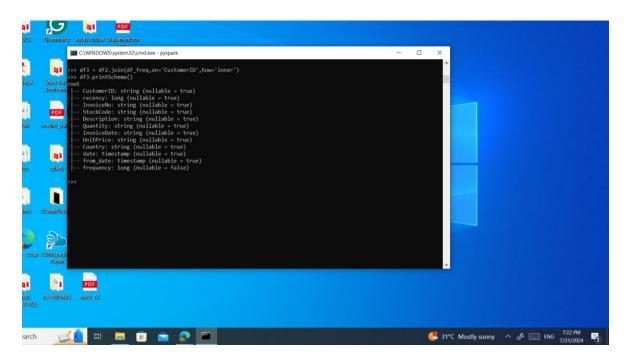


TASK 4: DATA PRE-PROCESSING - RFM

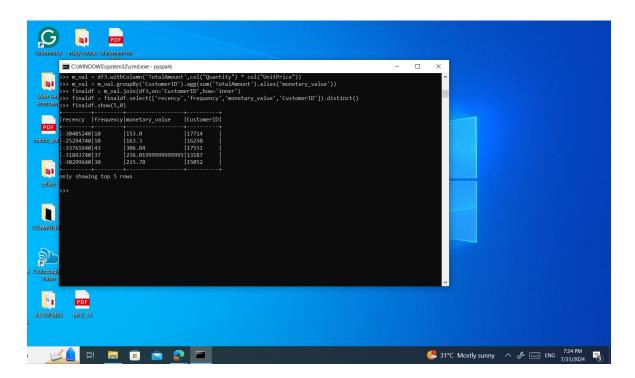
RECENCY



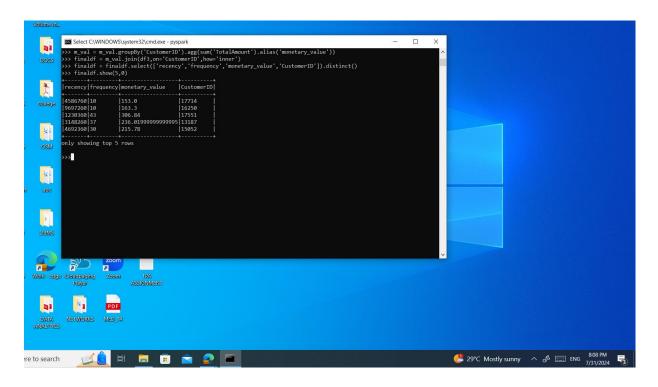
PRINTING SCHEMA



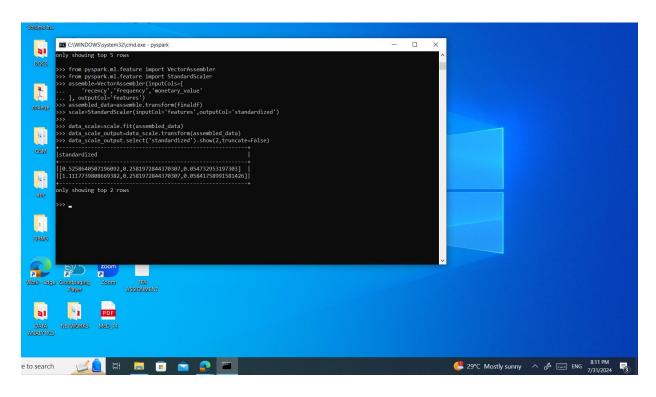
FREQUENCY



MONETARY VALUE

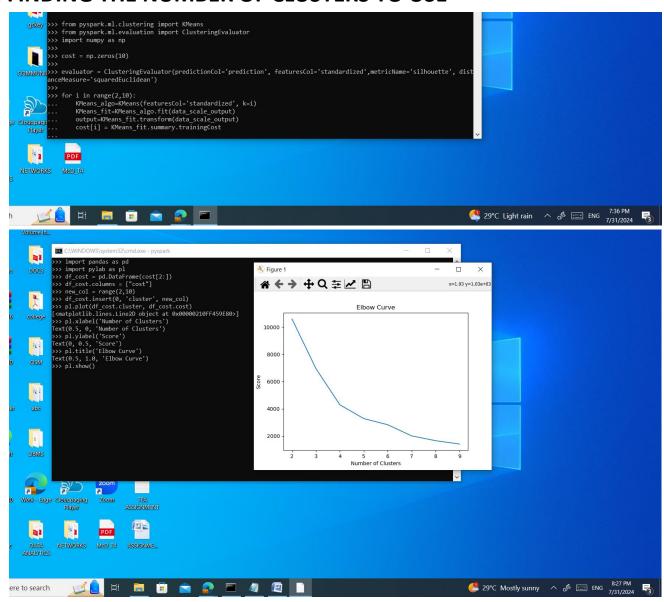


STANDARDIZATION: TO ENSURE VARIABLES ARE AROUND SAME SCALE



TASK 5: BUILIDNG THE MACHINE LEARNING MODEL USING K-MEANS CLUSTERING

1. FINDING THE NUMBER OF CLUSTERS TO USE



FROM THE ABOVE GRAPH, WE INFER THE NUMBER OF CLUSTERS TO BE 4.

BUILDING THE K-MEANS CLUSTERING MODEL AND MAKING PREDICTIONS

