Group No.	4
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Project Title	Retail Insights: Personalized Marketing and Inventory Optimization
Dataset with reference	Online Retail K-Means & Hierarchical Clustering
	https://www.kaggle.com/code/hellbuoy/online-retail-k-means-
	<u>hierarchical-clustering/input</u>
Project Description	The dataset we chose contains transactions of an online retail
(Min: 100 Words)	store over a one year time period. The features include invoice
	number, stock code, description, quantity, invoice date, unit price,
	customer ID, and country with about 500,000 entries. With this,
	we will try to show customer buying patterns using RFM (Recency
	Frequency Monetary). That is, looking at how recently customers
	purchased items, how frequently they make purchases, and how
	much money they're spending at the store. We would also like to
	potentially predict sales (over a specific period) using machine
	learning methods such as regression. We could also use
	classification methods to predict a target variable (Ex: Country)
	based on select features. We can find which items are most
	popular in certain countries to help the retail store distribute
	stock. We also plan on creating visualizations such as pie charts,
	bar graphs, box plots, etc.
Motivation	Our motivation as data scientists for this online retail company is
	to
	- Tailor ads to customers based on buying patterns.
	- Make seasonal recommendations to the retail store (when
	to advertise certain products. For example, ornaments
	during the holidays).
	- Recommend the item quantity that should be in stock in
	specific countries.
	Doing all of this will be very meaningful and useful for the
	company, so that they can make strategic business decisions.
References	Murphy, C. (2019, November 19). What is recency, Frequency,
	monetary value (RFM) in marketing?. Investopedia.
	https://www.investopedia.com/terms/r/rfm-recency-frequency-
	monetary-
	value.asp#:~:text=Recency%3A%20How%20recently%20a%20cust
	omer,a%20customer%20spends%20on%20purchases