



E-Commerce Customer Segmentation

Happy customers, thriving business.



INTRODUCTION

As a data analyst, I undertook a comprehensive analysis of an online retail dataset sourced from Kaggle, which includes two separate time frames: 2009-2010 and 2010-2011. To facilitate meaningful insights, I merged these datasets and performed rigorous data cleaning. This involved identifying and rectifying missing values in essential columns, particularly **Customer ID** and **Description**. The final dataset encompasses critical columns such as **Invoice Date**, **Invoice**, **Customer ID**, **Description**, **Price**, **Quantity**, and **Stock Code**. By meticulously preparing this structured dataset, I aimed to lay a solid foundation for insightful analysis and interpretation of customer behavior.



CUSTOMER SEGMENTATION

1 Customer Count by Segment: We identified three distinct customer segments, with a total of **884K customers**. Among these, **3.46K** are classified as Regular customers and **2.13K** as VIP customers.

2 Churn Analysis: Our analysis revealed **782K** customers who have not churned compared to **101K** who have. This indicates significant potential for retention strategies targeting at-risk customers.

3 Total Revenue Insights: We discovered that the majority of our revenue, totaling **\$9.40M**, comes from the UK, showcasing the region's importance to our business.



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Customer Segmentation



RECOMMENDATIONS

Based on the customer segmentation and churn analysis, it is recommended to implement targeted marketing campaigns for high-value and at-risk customers to enhance engagement and retention. Focus on improving customer experience through feedback, and consider product bundling to increase order value. Regularly monitor RFM scores to track customer behavior shifts, and tailor communication based on customer segments. Prioritize the UK market while exploring underperforming regions, and continuously update visualizations to keep stakeholders informed.



KPI

Customer Count

 **883K**

Segment Count

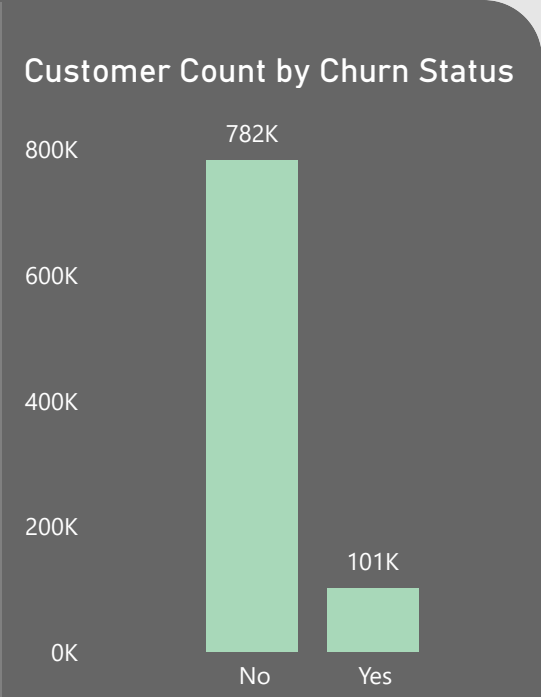
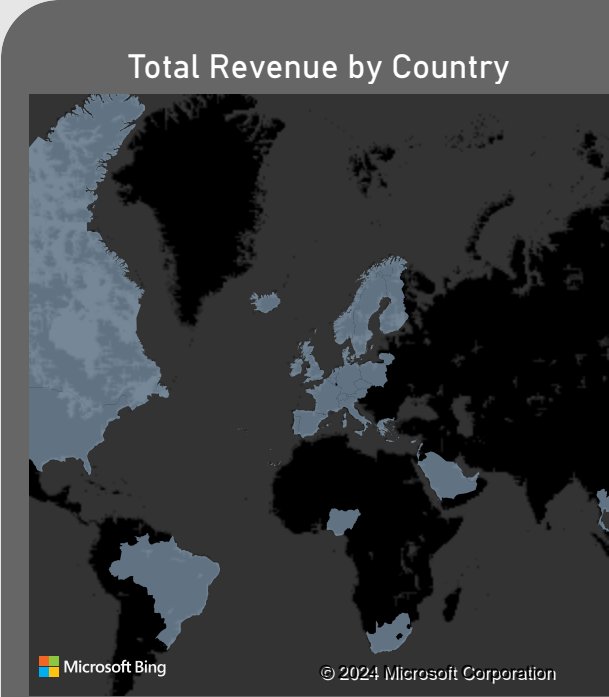
 **3**


Total Revenue

 **9M**

Average RFM

 **11**







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Customer Count

**883K**


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FILTER PANEL


Country ▼

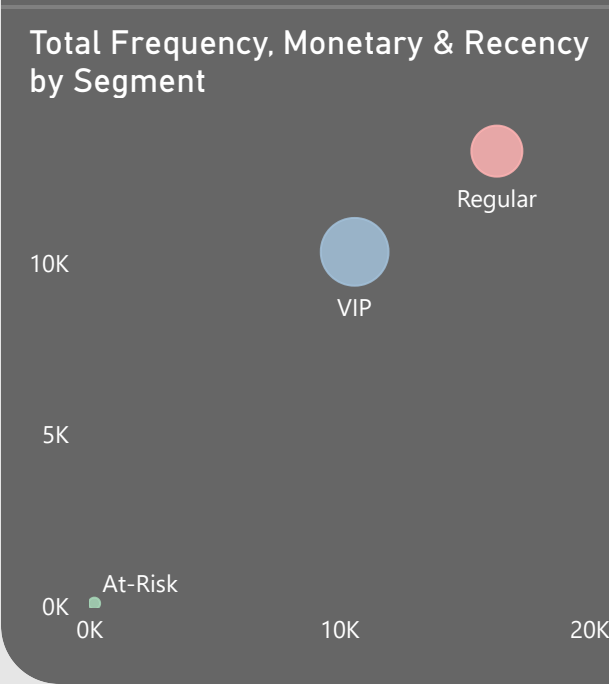
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Customer Segmentation



Customer ID	Frequency	Monetary	Recency
12748.0	6644	32,010.84	21
12921.0	1238	22,233.12	24
13081.0	1659	31,111.97	22
13089.0	2255	49,260.53	25
14096.0	4593	38,289.06	25
14156.0	2517	48,149.86	30
14298.0	1159	27,509.19	29
14606.0	6333	23,245.74	22
14911.0	8479	158,193.54	22
15039.0	2575	27,603.91	30
15311.0	3745	30,379.77	21
17675.0	857	20,949.34	22
17841.0	12347	51,892.55	22
17850.0	2749	52,332.23	323
Guest	207919	1,463,474.30	21

