

Online Retail(UCI)-Executive Summary (Dec 2010 - Dec 2011)

Category

All ▼

Country

All ▼

Executive Summary

Monthly Trends

Product Performance

Customer Segment

Monthly Deep Dive

Product Portfolio

RFM Retention & Key Insights

Documentation

Sales Amount

\$10.27M

Quantity Sold

5.58M

Total Order

19770

Average Order Value

\$519

Active Customers

5705

Customers MoM %

Monthly Growth

Repeat Customer Rate

49.59%

Churned Customers %

13.65%

Dec 2010 Jan 2011 Feb 2011 Mar 2011 Apr 2011 May 2011 Jun 2011 Jul 2011 Aug 2011 Sep 2011 Oct 2011 Nov 2011 Dec 2011

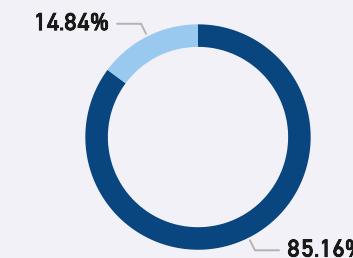
All Countries

United Kingdom

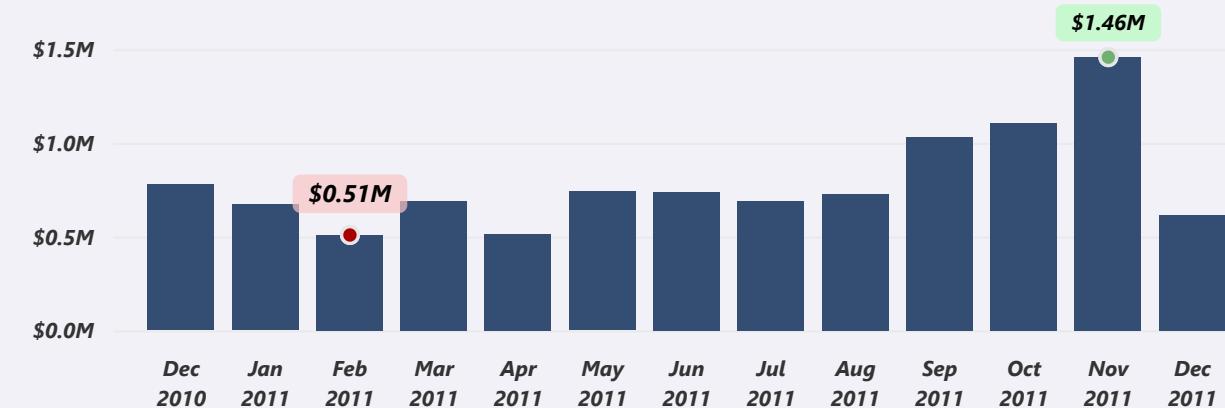
Other Countries

Sales UK vs Rest of World

● Sales UK ● Sales Non UK

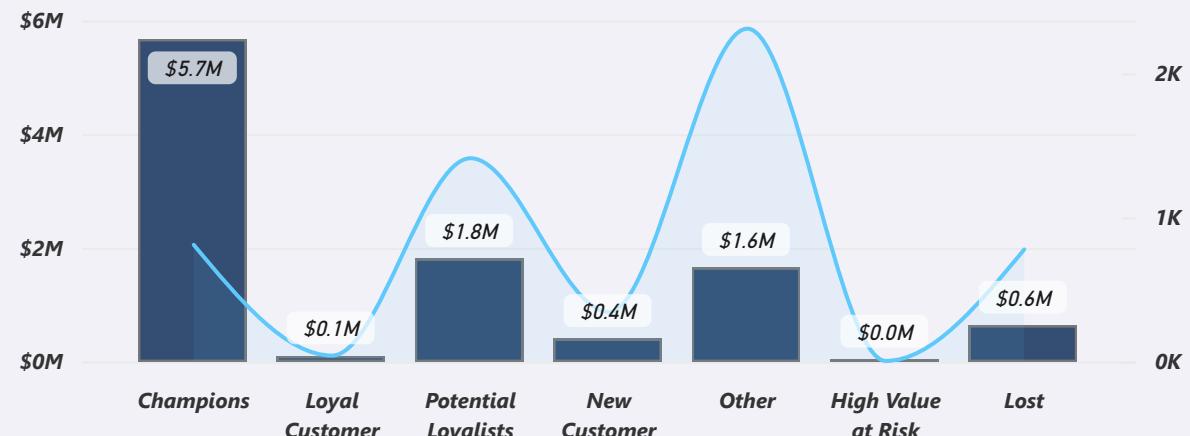


Monthly Sales – All Months

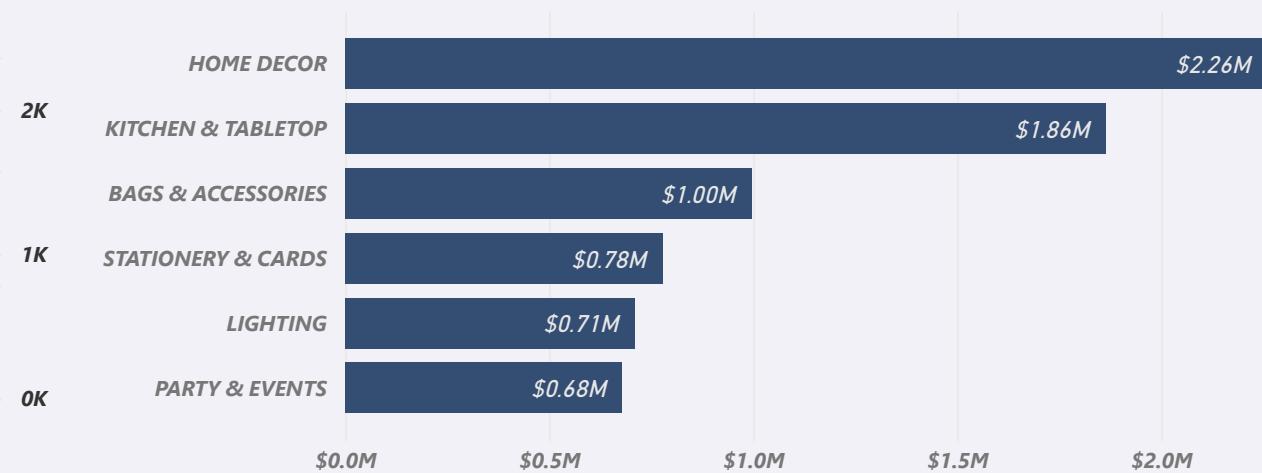


Segment Performance - Revenue vs Active Customers

● Sales Amount ● Active Customers



Sales Amount by Top 6 Category



Monthly Performance

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Monthly Insight

In Nov 2011, sales grew by 31.7% versus October, while active customers increased by 20.9% to 1,769. The repurchase rate was 75.6%, and average orders per customer rose to 1.55, one of the highest levels in the year. Revenue growth was driven by both a larger active base and higher purchase frequency, with very strong retention and most activity coming from existing customers.

Sales Amount

\$1.46M

Total Order

2749

Total Customers

5705

Order Per Customer

1.55

Active Customers

1769

New Customers

432

Returning Customers

1337

Customers MoM %

20.9%

Monthly Growth

31.7%

Dec 2010	Jan 2011	Feb 2011	Mar 2011	Apr 2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011	Dec 2011
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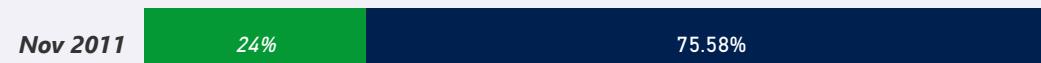
Monthly Trend - Sales vs Orders

● Sales Amount ● Total Order


Daily Sales – Nov 2011



New vs Returning Customers by Month

● New Customer % ● Returning Customers %


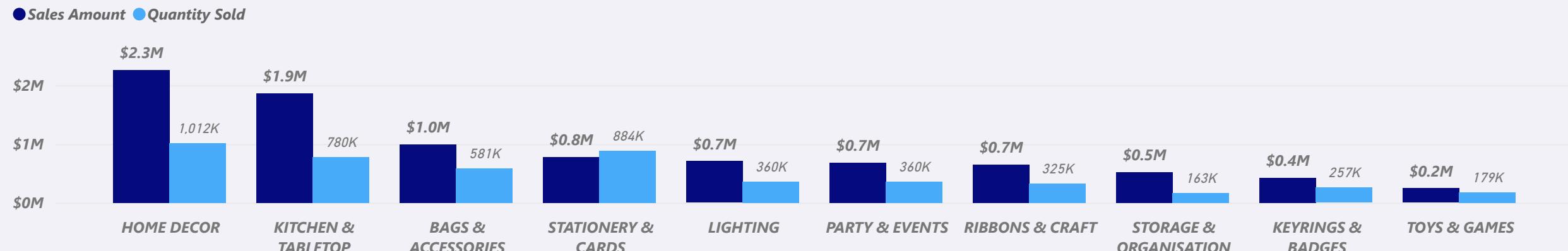
Month-over-Month Sales Growth %



Product Performance - Monthly View



Top 10 Category by Sales Amount and Quantity Sold



Top 10 Products by Sales



Customer Segment

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Sales Amount
\$10.27M
Total Customers
5705
Order Per Customer
3.47
AOV per Customer
\$581
Average CLV_RFM
\$1,428

Dec 2010

Jan 2011

Feb 2011

Mar 2011

Apr 2011

May 2011

Jun 2011

Jul 2011

Aug 2011

Sep 2011

Oct 2011

Nov 2011

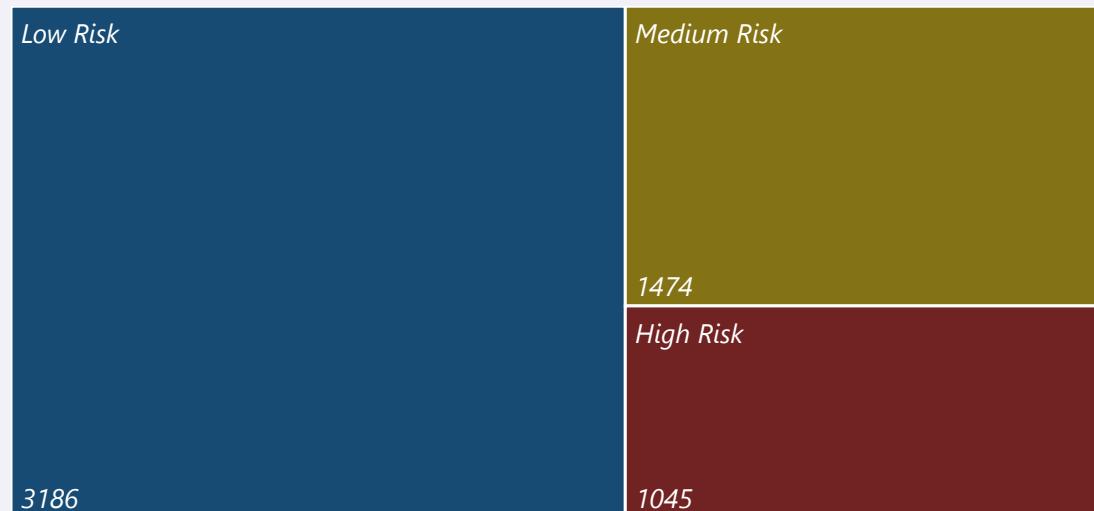
Dec 2011

Country

All

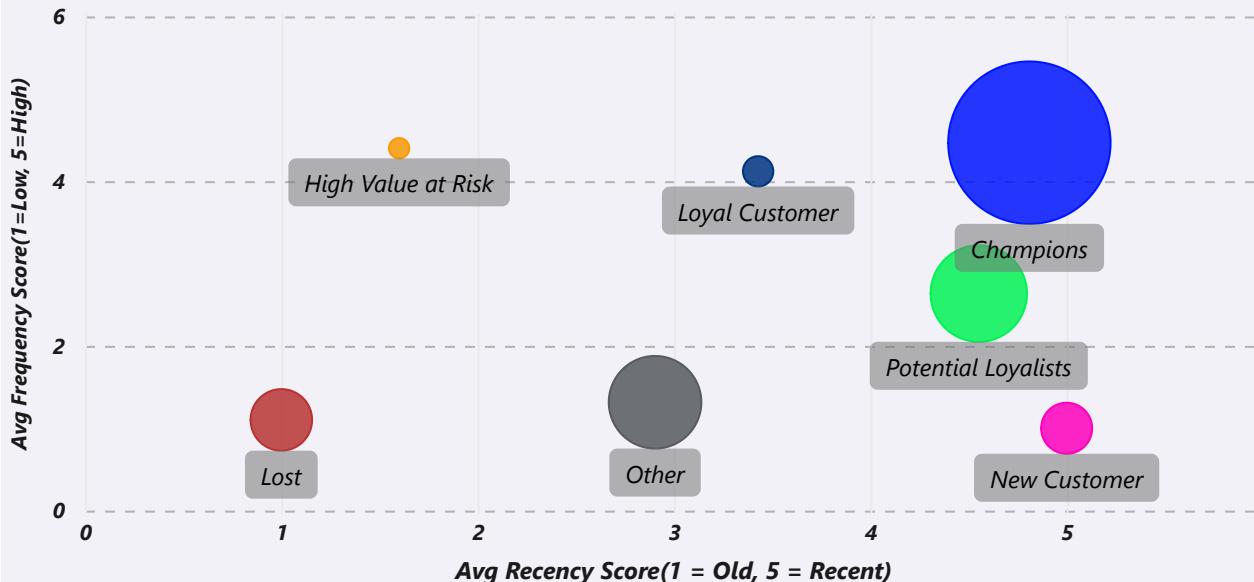


Customer Risk Distribution

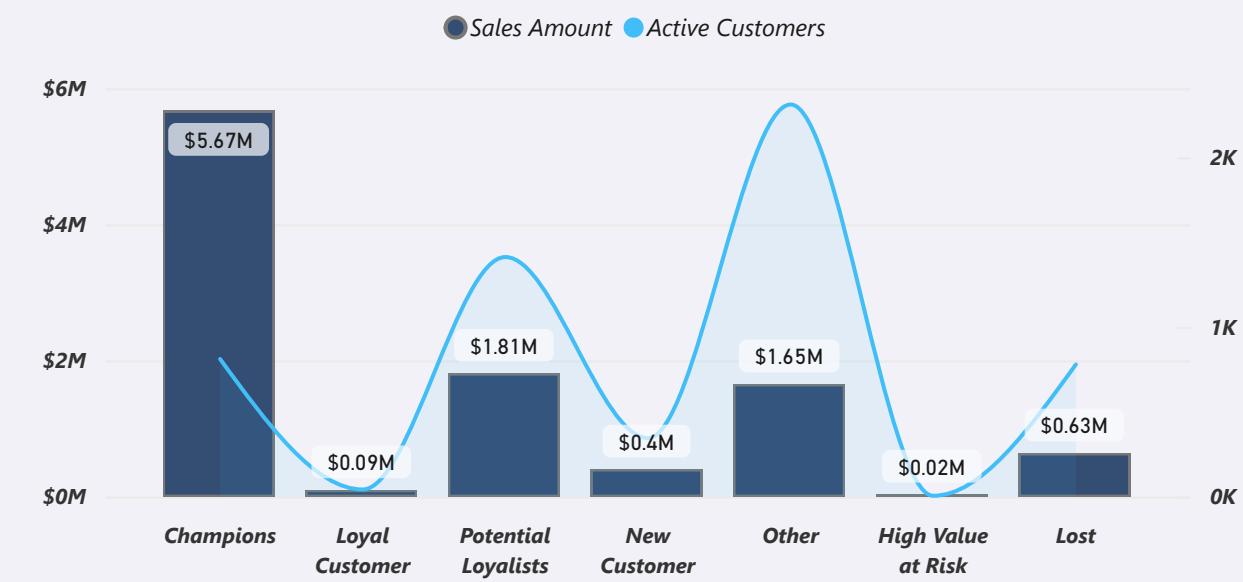


Segment	Total Customers	Segment Revenue %	Segment Customers %	Average AOV	Average CLV_RFM	Sales Amount
Champions	811	55.2%	14.22%	\$449	\$6,693	\$5,666,701
Loyal Customer	42	0.9%	0.74%	\$301	\$1,669	\$93,674
Potential Loyalists	1412	17.6%	24.75%	\$423	\$914	\$1,806,880
New Customer	345	3.9%	6.05%	\$1,154	\$774	\$398,134
Other	2311	16.1%	40.51%	\$577	\$361	\$1,648,701
High Value at Risk	5	0.2%	0.09%	\$423	\$3,049	\$22,107
Lost	779	6.2%	13.65%	\$781	\$312	\$633,904
Total	5705	100.0%	100.00%	\$581	\$1,428	\$10,270,101

RFM Segment-Avg Recency vs Avg Frequency(Size=Monetary)



Segment Performance - Revenue vs Active Customers



Monthly Deep Dive & Drivers

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31.7%
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1337
Customers MoM %
20.9%

Dec 2010	Jan 2011	Feb 2011	Mar 2011	Apr 2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011	Dec 2011	Country
													All

Country
United Kingdom

Segment
Champions

Category
Sales Amount
\$1,457,309

United Kingdom
\$1,285,838

Netherlands
\$25,640

EIRE
\$29,838

Germany
\$24,253

France
\$29,217

Australia
\$6,641

Champions
\$620,630

Loyal Customer
\$593

Potential Loyalists
\$285,924

New Customer
\$271,722

Other
\$106,969

CANDLES & HOLDERS
\$9,987

CHRISTMAS DECOR
\$11,093

GARDEN & OUTDOOR
\$5,246

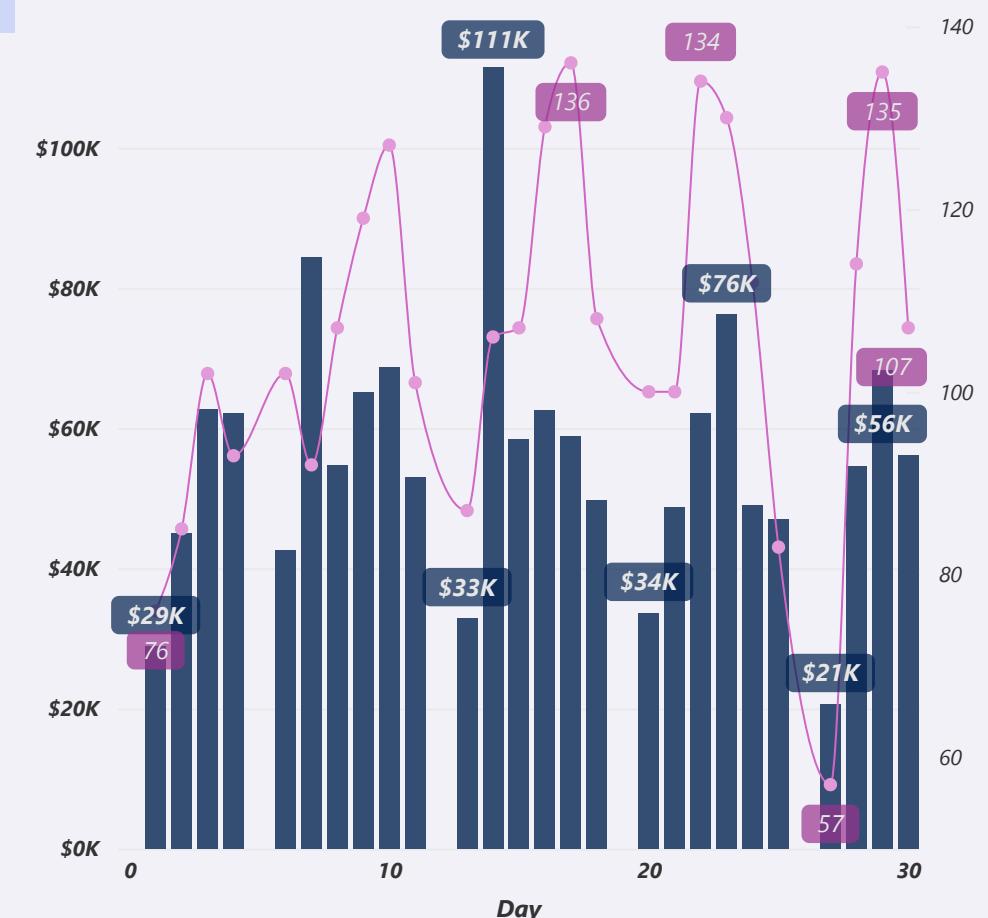
HOME DECOR
\$165,971

JEWELLERY
\$4,943

KEYRINGS & BADGES
\$16,107

Daily Sales – Nov 2011

● Sales Amount ● Total Order



Product Portfolio Analysis

Months

Category

Country

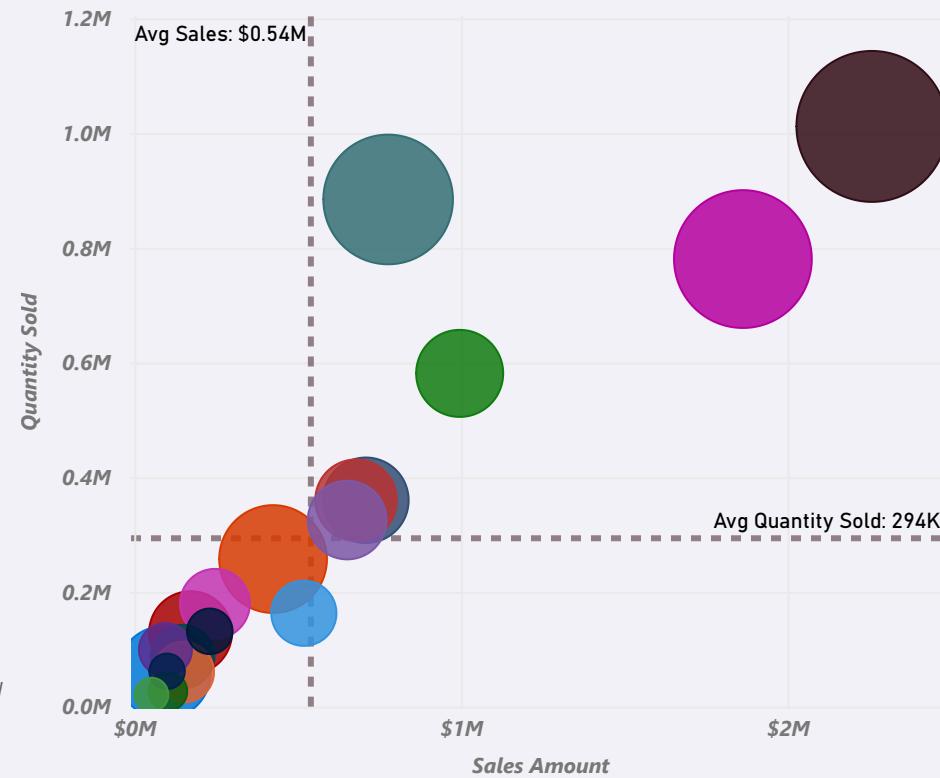
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Active Products
3,795
Active Customers
5,705
Avg Revenue per Active Products
\$2,706
Sales Amount
\$10.27M
Quantity Sold
5.58M
Total Products
3795
Average Product Price
\$1.8
Top 20 Products Sales %
13.54%

Monthly Sales – All Months



Category Portfolio-Revenue vs Volume

- Category**
- BAGS & ACCESSORIES
- BATH & BEAUTY
- CANDLES & HOLDERS
- CHRISTMAS DECOR
- GARDEN & OUTDOOR
- HOME DECOR
- JEWELLERY
- KEYRINGS & BADGES
- KITCHEN & TABLETOP
- LANTERN
- LIGHTING
- PARTY & EVENTS
- RIBBONS & CRAFT
- STATIONERY & CARDS
- STORAGE & ORGANISATION



Category	Sales Amount	% of Total Sales	% of Total Customers	Quantity Sold
HOME DECOR	2,257,832	21.98%	84.26%	1,011,610
KITCHEN & TABLETOP	1,863,055	18.14%	82.49%	780,343
BAGS & ACCESSORIES	996,072	9.70%	63.49%	580,988
STATIONERY & CARDS	777,119	7.57%	75.13%	884,268
LIGHTING	709,014	6.90%	65.22%	359,768
PARTY & EVENTS	678,770	6.61%	68.59%	359,857
RIBBONS & CRAFT	651,643	6.35%	61.88%	325,286
STORAGE & ORGANISATION	519,135	5.05%	58.58%	162,760
KEYRINGS & BADGES	424,901	4.14%	64.49%	257,287
TOYS & GAMES	246,999	2.41%	52.66%	179,332
VINTAGE/RETRO	231,194	2.25%	52.67%	131,323
CANDLES & HOLDERS	172,288	1.68%	46.31%	128,823
TEXTILES & LINEN	151,002	1.47%	40.81%	60,342
GARDEN & OUTDOOR	147,952	1.44%	42.00%	87,199
UMBRELLA	102,900	1.00%	24.28%	26,506
BATH & BEAUTY	100,430	0.98%	26.80%	61,543
CHRISTMAS DECOR	95,491	0.93%	34.88%	99,414
JEWELLERY	91,597	0.89%	34.93%	59,384
LANTERN	52,709	0.51%	19.39%	20,970

RFM Retention & Key Insights

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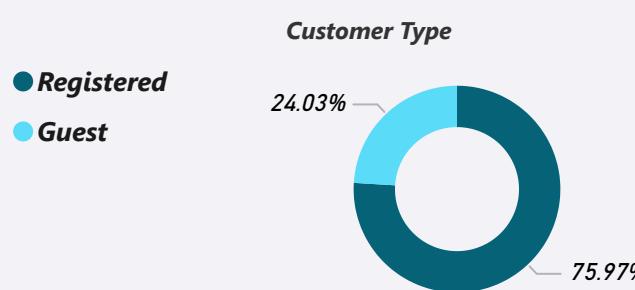
Customer Segment

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Repeat Customers

2829

Repeat Customer Rate %

49.6%

Churned Customers %

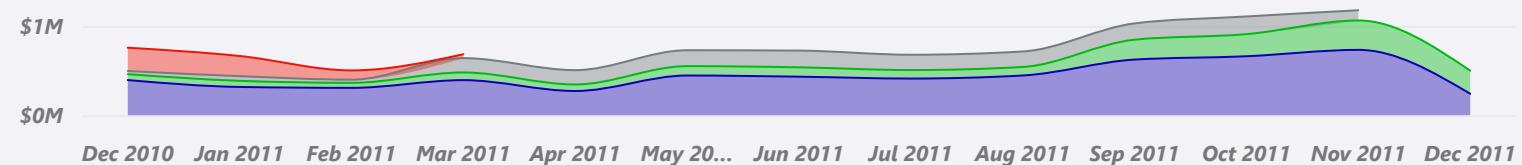
13.65%

High-Risk Revenue Rate

7.5%

Monthly Revenue Trend by RFM Segment

Segment ● Champions ● Potential Loyalists ● Other ● Lost



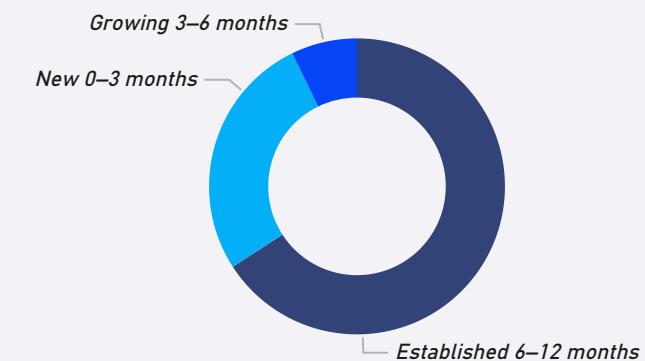
Key Insights & Recommended Actions

- Repeat customers represent **49.6% of the base** and **over-index in revenue** – keep investing in loyalty programmes and personalised offers.
- Lost and High-Risk customers are 13.65% of the base** and **7.5% of revenue** – treat this as **"revenue at risk"** and launch targeted win-back campaigns, tracking a "Saved Revenue from High-Risk customers" KPI.
- The **"Other" segment is 40.5% of customers but only 16.1% of revenue**; within it, **High/Medium Potential** customers are a small group yet drive **17% of segment revenue** – clarify the value proposition and move them into a "Nurture to Loyal/Champions" journey.
- The **RFM heatmap** shows most customers in **low Frequency (F = 1–2)** – design "first-to-second purchase" and repeat-purchase journeys (welcome flows, timed discounts, product recommendations) to grow CLV.

Other Segment - Micro-Segmentation Summary

Segment	Other Subsegment	Total Customers	Sum of Monetary
Other	Other - Low Potential	2220	1,361,946
Other	Other - High Potential	37	174,188
Other	Other - Medium Potential	54	112,568
Total		2311	1,648,701

Revenue Share by Customer Tenure (0–3 vs 3–6 vs 6–12 months)



Sales vs Customer Count - 'Other' Subsegment



RFM Heatmap - Recency (R) vs Frequency(F)

R Score	1	2	3	4	5
1	718	45	14	3	1
2	658	112	56	6	1
3	548	160	165	27	5
4	607	251	381	126	32
5	345	264	516	317	347

Most customers are concentrated in low-frequency groups (F=1–2) with mixed Recency scores, highlighting a large base of one-time or infrequent buyers.

Online Retail (UCI) - Dashboard Documentation

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This dashboard analyses one year of transactional data for a UK-based online retail store.

It focuses on sales, products, customers and countries, using RFM and portfolio analysis to understand customer value, retention and product performance.

The goal of this page is to summarize the main logic, data structure and key assumptions behind the model.

التقرير يلخص أداء متجر تجزئة إلكتروني خلال سنة واحدة مع التركيز على المنتجات والعملاء الدوليين باستخدام

Reporting period: 1 Dec 2010 – 9 Dec 2011

Data source: "Online Retail" dataset – UCI Machine Learning Repository

[Overview](#)
[Key Metrics](#)
[RFM & Segments](#)
[Product Categorise](#)

This overview tab documents the key assumptions, data model design and business logic used across the Online Retail (UCI) dashboard.

هذه الصفحة تعرض ملخصاً لأهم الافتراضات وهيكلة نموذج البيانات والمنطق التحليلي المستخدم في تقرير Online Retail (UCI)

Data Model – Tables & Grain (Summary)

The data model follows a star-schema with one fact table and three main dimensions.

* Fact Sales – 1 row per invoice line (InvoiceNo + StockCode).
 Keys: InvoiceNo, StockCode, CustomerID, InvoiceDate.
 Main fields: Quantity, Price, Total Price, InvoiceNo, InvoiceDate, CustomerID, StockCode.

* Dim Date – 1 row per calendar date.
 Main fields: Date, Year, Month (number and name), Quarter, Week, YearMonth (for sorting and display).

* Dim Customer – 1 row per unique customer (CustomerID).
 Key: CustomerID.
 Main fields: Country, Customer Type, Monetary, AOV, R/F/M Scores, RFM Score, Segment, Churn Risk, TenureBucket, FirstPurchaseDate, LastPurchaseDate.

* Dim Products – 1 row per product / StockCode.
 Key: StockCode.
 Main fields: StockCode, Description, Category (rule-based product grouping).

Together these tables enable analysis of sales by time

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