Customer Analytics

material Dataset Contains a European Retail Store Transactional data(Dec 2009 - Dec 2011)

Customer Lifecycle

Acquire > Understand > Communicate > Upsell > Retain

Behavior Analysis Segmentation Churn Analysis

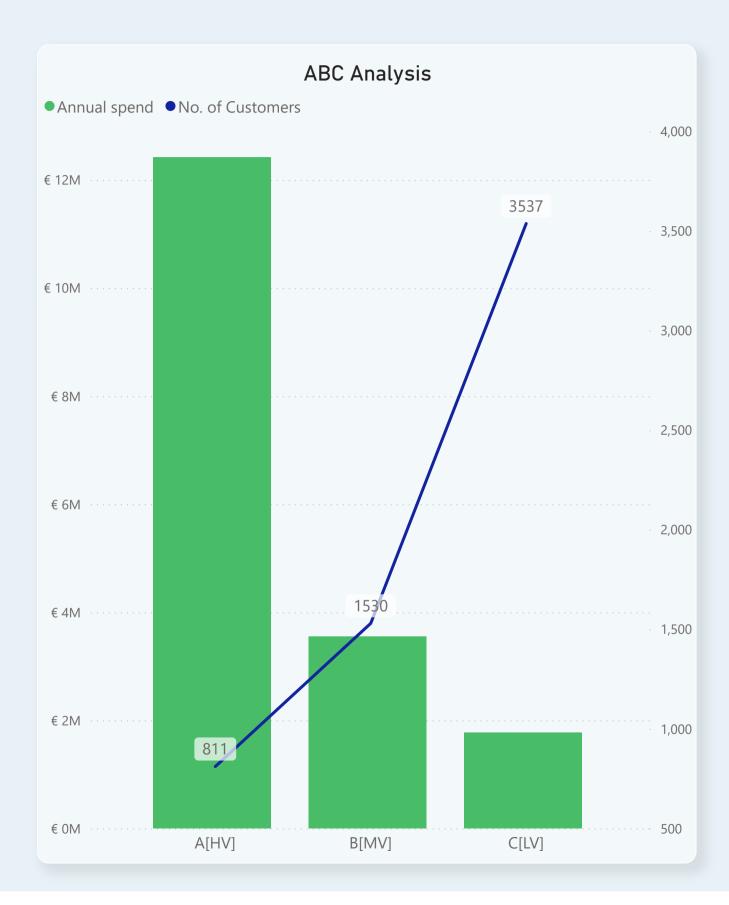


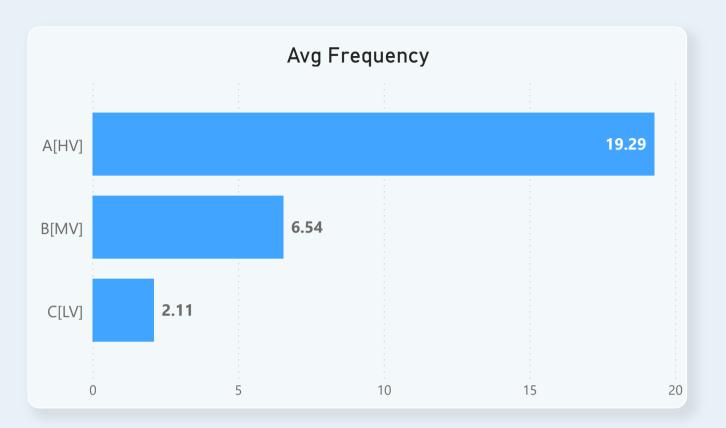
Customer Behavior Analysis:

- 1. ABC Analysis (Based on Spending value)
- 2. Cohort Analysis

ABC Analysis is Based on Pareto Law 80-20 Rule in which A group are High Spending but low in number, similarly B,C are as follows,...

	A (High Value)	B(Middle value)	C(Low Value)
% No. of Customers	10%	20%	70%
% Value of Customers	70%	20%	10%







Customer Cohort Analysis:

1.Cohort analysis by

- Retention
- · Churn
- · Customer Life time value(CLV)

2.Trends

- Lost customers
- · Retained Customers
- Resurrected Customers
- New Customers

Cohort analysis: It is a method to track and analyze the behavior of group of customers who share a common period.

Retention: Number of Customers who continue to use a service or products over a period.

Churn: Number of Customers who stop using a service or products over a period.

Customer Life Time Value (CLV): Total Revenue a business expects to earn from a customer throughtout their relationship(number of total purchases * Avg Spend per purchase).

Resurrected Customers: customers who are inactive in previous month but active current month.

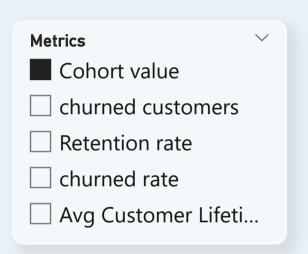
Customer Cohort Analysis

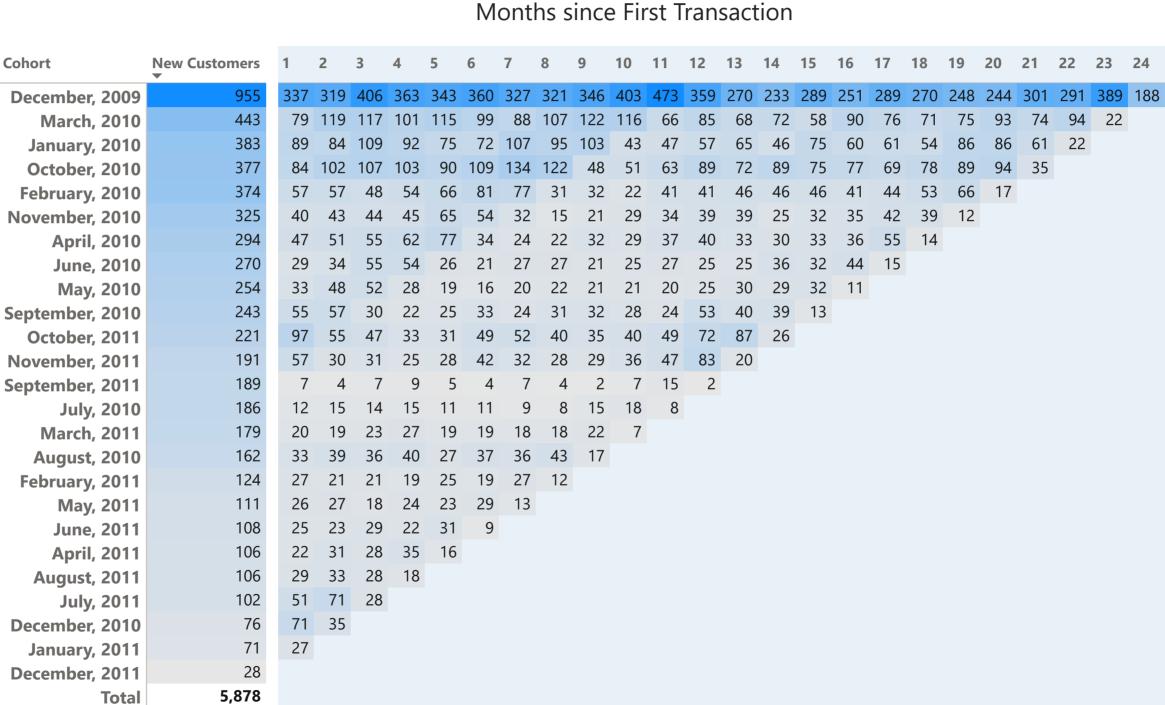
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89

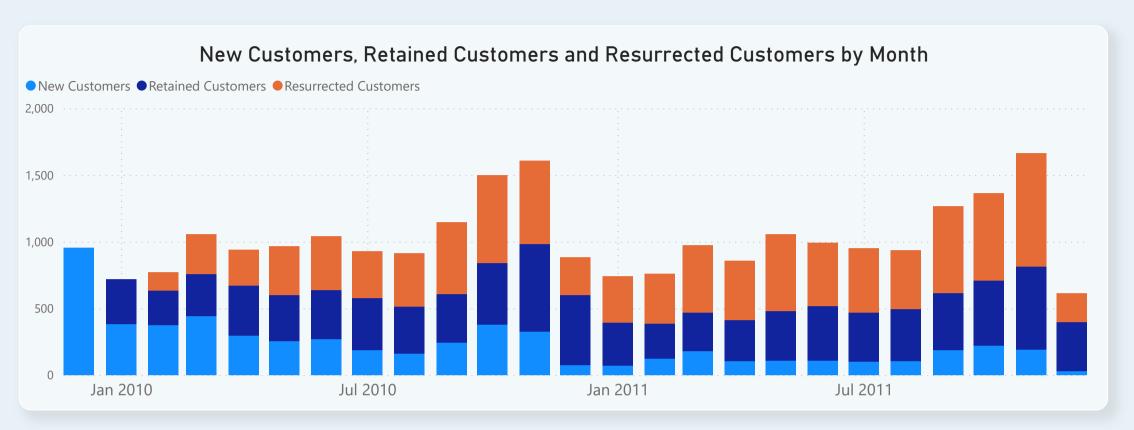
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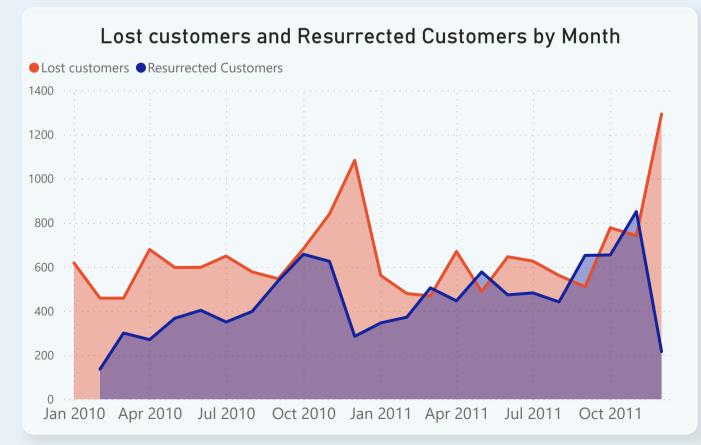


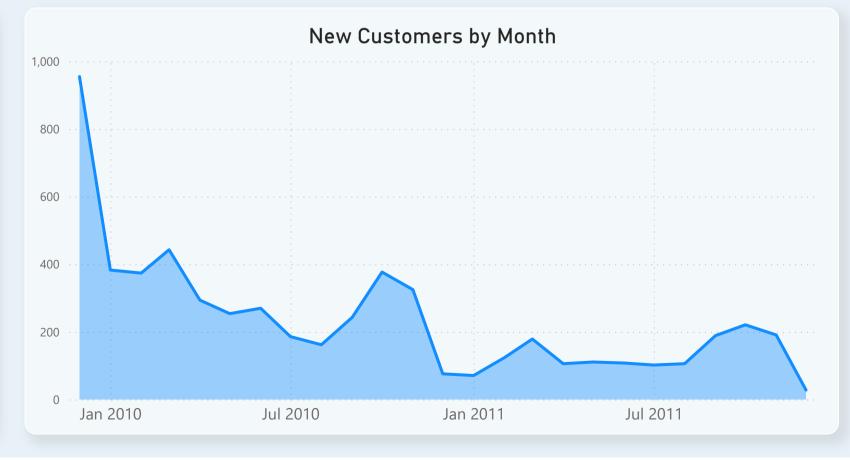












Customer Segmentation:

Segmented based on Recency(Recent purchase by EOD 2011 in days), Frequency(Number of total transactions), Monetary(Purchase value per transaction)

1.RFM analysis

2.Trends

- · Avg CLV by months since 1st transaction
- · Avg CLV by month
- · Histogram of CLV

Segment Behavior

Top: Bought Recently ,buy often & spend the most.

Loyal: spend good money often.

Potential Loyalist: Recent Customers and spend good money, potential to be loyal.

Recent Customers: Bought more recently but not often.

Promising: Recent shoppers but haven't spend much.

Need Attention : Above Average Recency, Frequency, and monetary values. **About to sleep**: Below Average Recency, Frequency, and monetary values.

At Risk: Spend more money and often but long time ago.

Can't lose them: Spend more money and often but haven't returned for a long time.

Hibernating: Last purchase was long back, low spenders and less often.

Lost: Lowest Recency , Frequency , Monetary Values

Customer Segmentation(RFM Analysis)

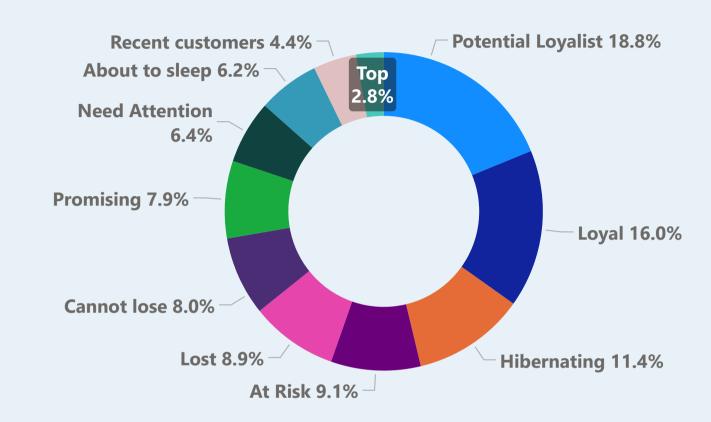
Top Customers(Top & Loyal):

19% These customers have purchased Avg of 19 times, spending an avg of \$842 which has Avg CLV of \$16k and have visited within last 2 months.

Need Attention(Potential Loyalist & Need Attention):

25% These customers have purchased Avg of 7 times, spending an avg of \$337 which has Avg CLV of \$2.3k and have visited within last 3 months.

Segment	Avg Recency(days)	Avg Frequency	Avg Monetary
Тор	30	28	€ 1,085
Promising	67	1	€ 856
Cannot lose	510	1	€ 733
At Risk	394	4	€ 606
Loyal	69	10	€ 599
Need Attention	91	4	€ 444
Potential Loyalist	64	9	€ 230
Hibernating	349	2	€ 210
About to sleep	253	2	€ 171
Recent customers	76	1	€ 144
Lost	586	1	€ 137



Immediate Attention(At Risk & Cannot lose):

17% These customers have purchased Avg of 2 times, spending an avg of \$670 have visited more than 1 year back.

New Customers(Promising & Recent Customers):

These customers have purchased avg of 1time, spending an avg of \$500 and have visited within last 3 months.

Risk of Churn(About to sleep, Hibernating, Lost):

26% These Customers have avg Spending of \$259.

