

Retail: Loyalty Program Analysis

Task

Analyze the store's loyalty program.

- Carry out exploratory data analysis
- Analyze the loyalty program
- Formulate and test statistical hypotheses

Description of the data

The dataset contains data on purchases made at the building-material retailer Home World. All of its customers have membership cards. Moreover, they can become members of the store's loyalty program for \$20 per month. The program includes discounts, information on special offers, and gifts.

retail_dataset_us.csv contains:

- purchaseId
- item ID
- purchasedate
- Quantity the number of items in the purchase
- CustomerID
- ShopID
- loyalty_program whether the customer is a member of the loyalty program

product_codes_us.csv contains:

- productID
- price per one

Make a list of 5-10 sources (documentation, articles) that you used while working on the project. Provide brief explanations about the questions each source helped you answer. Prepare a presentation with your findings. You can use any tool you want to make the presentation, but you must send it as a PDF. Put the link in the body of the main project.

Dashboards

- 1. Suggestion 1
 - a. Plot a diagram showing the number of purchases per day
 - b. Add an indicator for the number of customers
 - c. Add a store ID filter
- 2. Suggestion 2
 - a. Plot a histogram showing the number of purchases per customer
 - b. Plot a pie chart showing the shares of purchases in different stores
 - c. Add a purchase date filter

Datasets (23.10.2020)

@retail_dataset_us.csv 5155.3KB

product_codes_us.csv 37.5KB