E-Commerce Website Data Cleaning Report

This report is regarding the Data Cleaning Task of the E-Commerce Data Analysis Internship Project.

Before processing, the Dataset had 536349 records, with 8 attributes for each record. In addition, the datatypes of each attribute were discovered.

Attribute	Function	Datatype
TransactionNo	ID of the Transaction	object
Date	Date of the Transaction	object
ProductNo	ID of the Product	object
ProductName	Name of the Product	object
Price	Price of the Product per unit	float64
Quantity	Quantity of the Product purchased	int64
CustomerNo	ID of the Customer	float64
Country	Country of origin of the Transaction	object

Exploring the dataset, we found that the dataset had 55 records where the attribute CustomerNo had no value. Those records were dropped, since the three ID attributes are Candidate Key attributes and cannot be imputed through replacement.

After the null-valued records were dropped, we shifted to datatype conversion and standardization, if needed.

On exploration, we found that the Date and CustomerNo attributes had the incorrect datatype. The attributes were converted to their respective correct datatypes.

Attribute	Old Datatype	New Datatype
Date	object	datetime64
CustomerNo	float64	object

Next, the Dataset was examined for data inconsistencies and outliers. There were some outliers in the Price and Quantity attributes that were removed.

Price and Quantity.

Lastly, a new attribute was added, Total Revenue, calculated as the product of