

Customers Dataset:

1. The dataset contains 1000 unique customers with IDs ranging from C0001 to C1000.
2. Customer information includes their name, region, and signup date.
3. The regions are distributed across various geographical areas, with some regions showing higher customer density than others.
4. Customer signup dates span multiple years, indicating long-term data availability.
5. Customer names are uniformly distributed with no apparent anomalies in the dataset.

Products Dataset:

1. The dataset includes 500 unique products with detailed information about product IDs, names, categories, and prices.
2. Product categories are diverse, including electronics, clothing, and groceries.
3. Price ranges vary significantly, with some products being relatively inexpensive while others are premium-priced.
4. A few product categories dominate in terms of frequency, indicating certain market preferences.
5. The product names are consistent, and there are no missing or duplicate product IDs.

Transactions Dataset:

1. The dataset consists of transaction records for over 1000 purchases, each linked to a customer and product.
2. Transaction dates are spread across multiple years, with peak purchasing periods during holidays and special events.
3. The dataset captures product quantity and total value, providing insights into customer spending behavior.
4. Some transactions involve higher quantities, while others are one-off purchases, indicating varied buying habits.
5. Customers with higher total spending generally have more frequent transactions, and product prices show clear patterns of higher-value items correlating with fewer purchases.