SAS Project Work

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Objective-This project aims to answer business queries and find out descriptive statistics/insights about retail store orders basis on transactional data.

Data Description

The description of the data is as mentioned belowThere are 2 files

- Orders.csv This file contains the transaction level data of sales of a particular year where
 - 1. Order id order id of the sales and is unique per country
 - 2. Order date date on which order was placed
 - 3. Delivery date date on which order was delivered
 - 4. order type Source of Order
 - 1 Retail, 2-Phone, 3-Internet, 99 Invalid
 - 5. Product id ID of the product purchased
 - 6. Product category Category of Product
 - 7. Quantity Quantity of purchase
 - 8. Retail Price Price of the
 - 9. Cost Price -
 - 10. Customer Country Country of customer
 - 11. Customer Continent Continent of Customer
 - 12. Customer dob DOB of the customer
- Country excel This excel contains the country, their geographical information and population in the area
 - 1. "Countries"
 - Country_key country code
 - Lat Latitude
 - Lon Longitude
 - Country Name Name of the country
 - 2. Population
 - Country Name
 - Region
 - Population

Business Problem

- orders Frequency Analysis: Find out and put your analysis in excel sheet
 - o Which months have the highest and lowest total number of orders?
 - o How many orders are distributed by each continent?
 - o Within each continent how many orders were placed via retail, internet or phone?
- Ship days summary: Find out and put your analysis in excel sheet
 - o How Many days on average does it take for an order to be delivered?
 - o Are there any countries where shipment take longer?
- Profit Analysis by customer age: Find out and put your analysis in excel
 - o Which customer age group produces the highest median profit per order

Lab Environment: You need to have SAS EG or SAS University Edition installed on your machine.

Domain - Retail

Hints

- Validate country lookup tables and put anomalies in a pdf
- Validate orders tables and put anomalies in a pdf
 - o Categorical data analysis
 - Delivery date should be after order date
 - order type valid values are 1,2 or 3
 - customer country should be 2 upper case letters
 - customer continents should be one of five continents
 - o Continuous data analysis
 - Cost price, retail price, quantity
- Fix the anomalies found after data validation above by preparing the data and put the final data in an excel or permanent SAS dataset that will be used for analysis