EDA Project -Northwind

Introduction

The Northwind database contains the sales data for a fictitious company called "Northwind Traders," which imports and exports specialty foods from around the world. The Northwind database is an excellent tutorial schema for a small-business ERP, with customers, orders, inventory, purchasing, suppliers, shipping, employees, and single-entry accounting.

Questions

- What are the most requested cities from Northwind for '2012'year ?
- How much is the total orders per '2012' year?
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Data Description:

The database represents 13 tables Products ,orederr ,Suppliers ,Employees ,Customers ,OrderDetail and more .The table Orders have a 14 columns is OrderID ,CustomerID ,EmployeeID ,OrderDate ,RequiredDate ,ShippedDate ,ShipVia ,Freight ,ShipName ,ShipCity ,Shipregion ,ShipPostalCode ,ShipCountry. The table OrderDetails have a 6 columns Id, OrderId,ProductId ,UnitPrice ,Quantity ,Discount .

Orderr The columns = 14 and the rows = 16818 ,OrderDetail The columns = 4 and the rows = 621883

Design

We will open a NorthWinds convenience store, and we will be looking for cities with high income, high order numbers, and most profitable cities during 2012.
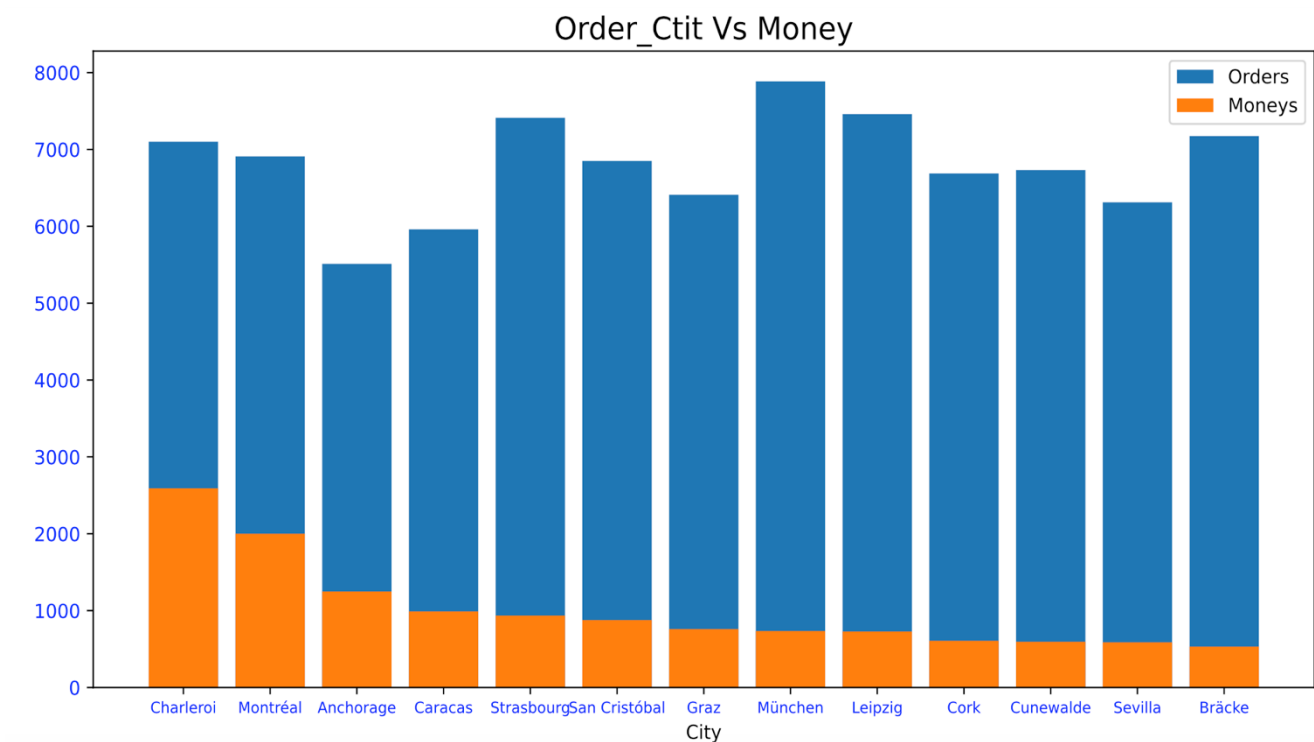
Algorithms

Perform a thorough Exploratory Data Analysis of the Northwind data; clean, explore, aggregate, and visualize the data as appropriate .

Tools

- *Programming:* SQLite , Python .
- *Libraries:* Numpy ,Pandas ,Matplotlib ,Random ,seaborn.

Visualization

Result

1. Opening of the shop in the city of Charleroi, cities with high income and average demand.
2. Other cities such as München and Bracke have the highest orders , but their income is small and it is possible to increase declarations for products.