

# **EDA PROJECT – NORTHWIND**

BY : RANA ALZAHHRANI

## **OUTLINES:**

- INTRODUCTION
- CLEAN DATA
- QUESTIONS
- PROJECT IDEA
- DATA VISUALIZATION
- RESULT
- TOOLS

# **Northwind**

Northwind database is 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.

## **CLEAN DATA:**

- 1. COLLECTING DATA
- 2. EXPLORATORY DATA ANALYSIS IN PANDAS
- 3. DELETE DUPLICATED AND UNNECESSARY DATA
- 4. CHECKING IF THERE IS INCONSISTENT TEXT
- 5. CHECKING IF THERE IS MISSING DATA AND HANDLE IT
- 6. FILTERING DATA
- 7. DETERMINE WHICH CITIES HAVE THE MOST REQUESTS PER YEAR.
- 8. DETERMINING THE INCOME OF EACH CITY.
- 9. VISUALIZING DATA AND RESULT



# QUESTIONS

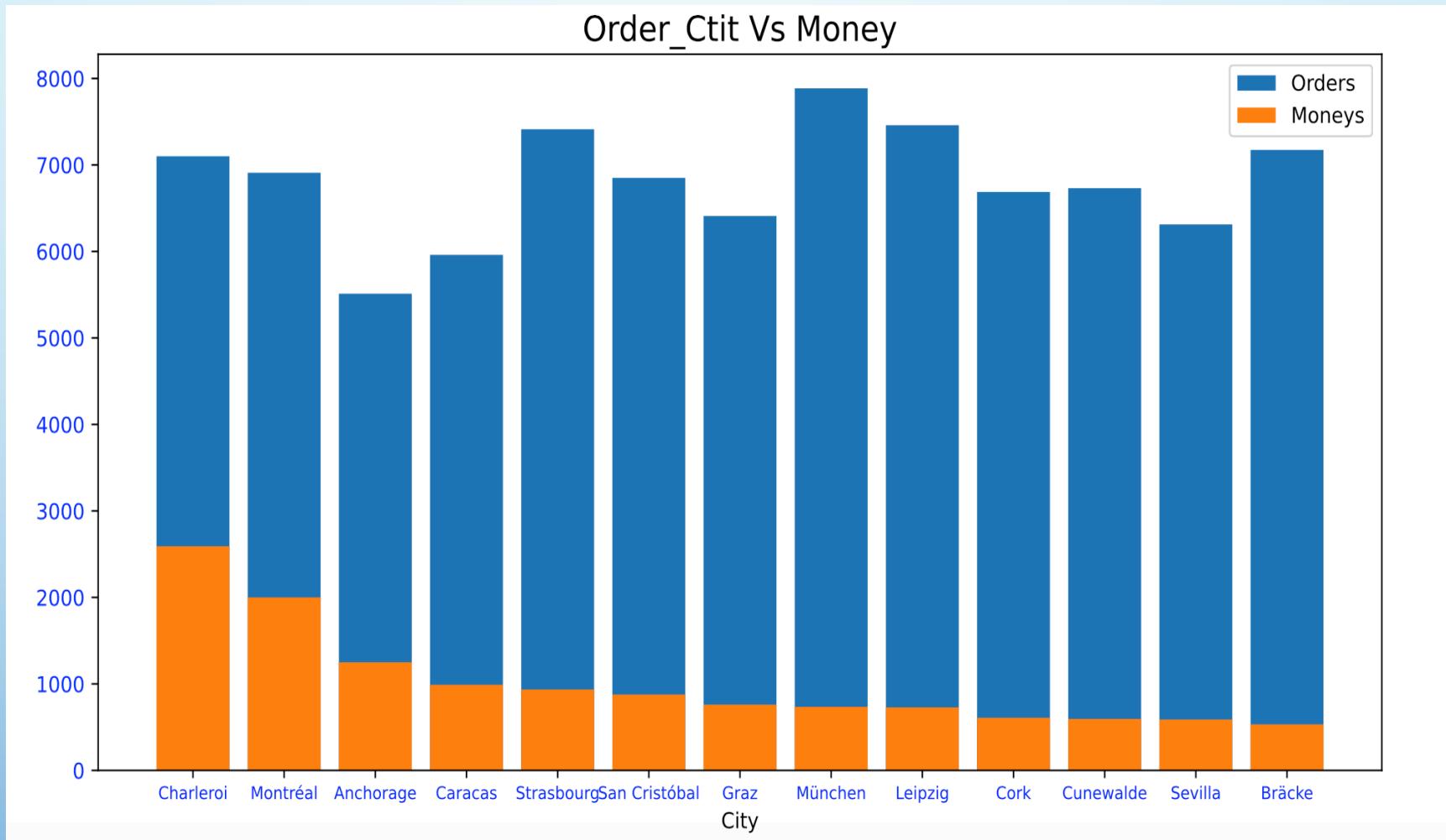
- **What are the most requested cities from Northwind for year '2012'?**
- **How much is the total orders per year '2012'?**

## **PROJECT IDEA**

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.



# Data 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.

## **TOOLS :**

- PANDAS
- NUMPY
- JUPITER NOTEBOOK
- PYTHON
- MATPLOTLIB
- SQLITE AND DB BROWSER FOR SQLITE

**THANKS FOR LISTENING**

ANY QUESTIONS ?