**Data sources –**

**Data is provided by the Microsoft -**

**The Excel workbook Tailwind Traders Sales.xlsx . It contain sales related data .**

**1.Sales- Gross Product Price = Fixed Decimal Number**

**Tax Per Product = Fixed Decimal Number**

**Quantity Purchased = Whole Number**

**Loyalty Points = Whole Number**

**Stock = Whole Number**

**Product Category = Text**

**Rating = Fixed Decimal Number**

**In this table we will create the new columns-**

**Gross revenue = Gross Product Price \* Quantity Purchased**

**Total tax = tas per product \* Quantity Purchased**

**Net revenue = Gross Product price – Tax Per Product**

**2.Purchases data-**

**PurchaseID = Whole Number**

**• OrderID = Whole Number**

**• Return Policy (Days) = Whole Number**

**• Purchase Date = Date**

**• Warranty (Months) = Whole Number**

**• Supplier = Text**

**• Last Visited = Date**

**• ReturnStatus = Text**

**3.Countries data-**

**Country ID = Whole Number**

**Exchange ID = Whole Number**

**Country = Text**

### ****4.currency exchange**** data-

### it is a python script

import pandas as pd

from io import StringIO

data = """Exchange ID;ExchangeRate;Exchange Currency

1;1;USD

2;0.75;GBP

3;0.85;EUR

4;3.67;AED

5;1.3;AUD"""

df = pd.read\_csv(StringIO(data), sep=';')

# Return the transformed dataframe

Df

### 5. Calendar table-

### DAX code to create a new **Calendar** table

### CalendarTable =

### ADDCOLUMNS(

### CALENDAR(DATE(2020, 1, 1), DATE(2023, 12, 31)),

### "Year", YEAR([Date]),

### "Month Number", MONTH([Date]),

### "Month", FORMAT([Date], "MMMM"),

### "Quarter", QUARTER([Date]),

### "Weekday", WEEKDAY([Date]),

### "Day", DAY([Date])

### )

### 6.Sales in USD calculated table-

### In this table we just converted all the currency in dollar using the country exchange table- this will be created using DAX and sales table- Sales in USD =

### ADDCOLUMNS(

### Sales,

### "Country Name", RELATED(Countries[Country]),

### "Exchange Rate", RELATED('Exchange Data'[Exchange Rate]),

### "Exchange Currency", RELATED('Exchange Data'[Exchange Currency]),

### "Gross Revenue USD", [Gross Revenue] \* RELATED('Exchange Data'[Exchange Rate]),

### "Net Revenue USD", [Net Revenue] \* RELATED('Exchange Data'[Exchange Rate]),

### "Total Tax USD", [Total Tax] \* RELATED('Exchange Data'[Exchange Rate])

### )

### In this table we will be creating calculated column –

### yearly profit margin-

### In the formula bar, create a new column that represents the yearly profit margin. This margin should be derived by dividing the gross revenue by the total net revenue within the **Sales in USD** table.