

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 = tax 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.