Homework 5: Data Visualization of Store Sales

Requirement: Design a Data Visualization for Superstore based on the Excel data provided.

1. Design and Load the Orders, date, people, product, geography and returns tables with all columns as mentioned in the excel.
2. Design a Tableau data model using joins & blending for the following datasets, to support analysis & data visualization:
   1. People\_Dim with the person and region columns
   2. Product\_Dim with the
      1. Product ID
      2. Category
      3. Sub-Category
      4. Product Name
   3. Geography\_Dim table with
      1. Country
      2. City
      3. State
      4. Postal Code
      5. Region
   4. Region\_Dim table with
      1. Returned
      2. Order ID
   5. Customer\_Dim table with
      1. Customer ID
      2. Customer Name
      3. Segment
   6. Order\_Dim table with
      1. Order ID
      2. Order Date
      3. Ship Date
      4. Ship Mode
   7. Date\_Dim table with
      1. Order date
      2. Year (year of order to be extracted from Order Date)
      3. Month (year of order to be extracted from Order Date)
      4. Day (day of order to be extracted from Order Date)
      5. Quarter (quarter of order to be extracted from Order Date eg Jan-Mar is Q1 Apr-Jun is Q2, Jul-Sep is Q3, Oct-Dec is Q4. For each year the annotations of quarters will be same as Q1, Q2, Q3 and Q4)
   8. Store\_fact table with
      1. Row ID
      2. Order ID
      3. Customer ID
      4. Postal Code
      5. Product ID
      6. Sales
      7. Quantity
      8. Discount
      9. Profit
   9. Data visualization of store metrics:
      1. Profit trends for each year
      2. Sales trends of each year
      3. Sales trends of each quarter
      4. Product quantities purchased for each commodity across all years