# **Sales Analytics**

<u>Skills</u>: ETL, Data Cleaning, Data Modeling, Power Query, Pivot Tables, Functional Sales Knowledge

## Reports:

- Customer Performance
- 2. Market vs Targets

! Note: Due to copyright restrictions, I am unable to share the dataset within this platform. However, I'll provide a detailed, step-by-step description of the processes involved in generating this report.

- ▼ Step-1: ETL (Extraction, Transformation and Load)
  - Download the required dataset in CSV format.
  - Extract the Data into Excel's Power Query
    - Data → Get External Data → From Text/CSV file (load individual files) [or load entire folder]
  - Transform the loaded data.
    - make references of each individual table and ensure the column headers are correctly extracted.
    - Perform Data Cleaning in all tables.
      - ensure there are no duplicate entries/missing values.
      - ensure data consistency (spelling errors etc.,)
      - check for any value errors in the data and correct them.

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[rename the applied steps titles in power query, to be helpful for reuse of the report]

- Load the data into excel.
  - load only as connections and add data to data model.
  - power pivot → manage gives all tables in the power window.

### ▼ Step-2: Report Solution Design

- Have an understanding how the report should look like
  - have a sample template for reference.
- List the components (values and measures) required to build the report.
  - o In report 1, they are: Net Sales, Country, Division, Region, Year
  - Create calendar/date table to extract the year in Power Query
- Map the components to their corresponding tables in which the data is available.

## ▼ Step-3: Data Modelling

- Do Data Modelling (connect the tables)
  - Power Pivot → Manage → Diagram View (enable power pivot to access)
    - Use STAR schema place fact table in the center and dimension tables around it.
    - Connect the tables using primary and foreign keys
      - Dimension tables that lack a direct connection to the fact table can be linked through another dimension table that is directly connected to the fact table.
    - Ensure proper connections are made by verifying the data in tables.
      - Example: use RELATE() function in excel to verify

#### ▼ Step-4: Functional Sales Knowledge

Get a basic understanding of the business sales knowledge.

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- Difference between calendar and fiscal years
- why and where the sales reports will be used?
- How the report helps the senior management and stakeholders to make decisions?

#### ▼ Step-5: Report 1 - Customer Performance

- Insert Pivot Tables
  - o Insert → Pivot Table → From Data Model
- Add values in their corresponding sections as per the report reference template.
- Calculate Percentage Growth: X vs Y → X/Y
- Use DAX measures to create new columns like percentage growth.
  - Power Pivot → Measures → New Measure → Use CALCULATE () function.
- Design the report using conditional formatting or other options like inserting elements to make the report readable and impactful.
- ▼ Step-6: Report 2 Market vs Target
  - Repeat the steps from Step-5 (Excluding 3rd step)
    - The target values are obtained from the target table.

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