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Sales Insights Dashboard Case Study

You are required to build a Power BI dashboard that meets the following business reporting needs for an FMCG distributor. The report will be used by the **National Sales Head (NSH)** and their team to track sales performance, promotions, and profitability across regions.

The Dataset

1. Quantity Sales Data (Excel Files)

- One file per region: GJ, MH, MP, TG stored in folder "Sales Data Table"
- Each file contains multiple sheets, one for each year (e.g., 2023, 2024)
- Each sheet contains monthly quantity sold by product

2. Selling Price Data (CSV File)

- Contains:
 - Product-wise, month-wise selling price
 - Cost Price per product
 - Base Price per product
- Define Sales Type based on Base Price:
 - If Selling Price < Base Price → Promo
 - Else → Normal
- This logic can be implemented in either Power Query or DAX
- Your model should support sales analysis by:
 - Sales Type (Promo/Normal)
 - Time Period
 - Region and NSM

3. Sales Team Structure (Excel File)

• Defines reporting hierarchy:

Sales Rep → Area Manager → Regional Head → NSM

• Use this to enrich the model for team-based reporting and filtering

Dataset Download:

Task1 Sales Dashboard.zip 61.4KB

Deliverables

Prepare a Power BI report with three key pages:

- 1. Trend Analysis
- 2. Margin and Promo Analysis
- 3. Business Overview

Each page has its own reporting objective and visual requirements as detailed below.

1. Trend Analysis Page

Design a KPI trend view that includes the following:

- Display monthly trends for:
 - Sales Value
 - Gross Profit
 - Gross Margin (%)
 - Include Year-over-Year (YoY) comparison for the selected KPI.
- Implement KPI Selector:
 - Use a **single chart** that updates dynamically based on the selected KPI.
 - Ensure the chart title and number formatting change to match the selected
 KPI.
- Implement financial year logic:
 - The company follows the Indian Financial Year (April March).
 - All date-based analysis should align with this calendar structure.

2. Margin & Promo Analysis Page

This page focuses on analyzing performance across products and promotional effectiveness.

2.1 Category-Product Sales Table

Create a table that displays the following for each product category:

- Total Sales
- Sales Mix (% contribution to total sales)
- Promo Sales Share (% of sales made at promo price)
- Top 3 Products by sales, with their individual sales values

2.2 Margin Segmentation Visual

Include a visual that **buckets products into Gross Margin segments**:

- Segments:
 - High Margin: Gross Margin % > 50%
 - Mid Margin: 30% 50%
 - Low Margin: < 30%
- This segmentation logic should be:
 - Flexible Read threshold values from a user-editable input file
 - Dynamic Automatically adjust based on the selected period (Year & Quarter)
- For each margin bucket, show:
 - Total Sales
 - Revenue Growth % (vs. previous period)
 - Gross Margin %
- The visual should:
 - Cross-filter the Category-Product Sales Table
 - Use a visual type appropriate for segment comparison (e.g., stacked column, donut, or matrix)

2.3 Slicers

Add slicers for:

Year

• Quarter (to be displayed as Q1, Q2, Q3, Q4)

3. Business Overview Page

This page should give a top-level view of overall performance with a focus on key insights.

- Include visuals that summarize overall sales, margin trends, top-performing regions or categories, etc.
- A critical insight to include:
 - o Count of products sold in the previous year but not sold in the selected year
 - Total lost sales value from these products

This helps business users identify lost opportunities or dropped SKUs.

Evaluation Criteria

Your solution will be assessed based on:

- Accuracy of calculations (e.g., Sales Type, Gross Margin, YoY logic)
- Efficiency and scalability of the data model
- Flexibility of calculations to respond to user inputs and filters
- Clarity and effectiveness of the report design and visuals

Other Instructions



Please provide a link to download your solution in the application form or attach the Power BI file in the application form.



Model should be dynamic and have a provision to provide address to the dataset folder location with same file structure.