# **Sales Data Analysis**

#### Step 1: Build the Data Model

A relational data model will be created, consisting of the following key tables:

- 1. **Sales Transactions** Captures individual sales records, including product details, sales reps, and revenue.
- 2. **Products** Stores product information such as name, category, and price.
- 3. **Customers** Contains customer details, order history, and total spending.
- 4. Sales Representatives Holds sales rep performance metrics, targets, and assigned regions.

# Step 2: Data Analysis Based on Key Questions

Once the data model is established, analysis will be performed to answer critical business questions, including:

#### • Sales Performance Analysis:

- o What is the total revenue generated within a given period?
- o Which regions and sales reps contribute the most to total sales?
- o What are the best-selling and worst-selling products?

# • Customer Insights:

- o Who are the top customers based on spending?
- What is the average order value and frequency of purchases?
- o Which region has the most repeat customers?

## • Product Performance:

- o Which product category generates the highest revenue?
- o Are there any underperforming products that need promotional strategies?

## • Sales Rep Evaluation:

- o Which sales representatives have met or exceeded their targets?
- o Is there a relationship between the number of transactions and total sales per rep?

# • Trend and Forecasting Analysis:

- o What are the monthly or seasonal sales trends?
- Can past sales data help predict future revenue?

## Step 3: Visualization & Dashboard Development

Using the structured data model, an **Excel dashboard** will be built to display:

- KPI summary (Total Sales, Orders, Best Sales Rep)
- Sales trends over time (Line Chart)
- Sales by region and product category (Bar & Pie Charts)
- Customer and Sales Rep leaderboards (Tables)