Step 2.1: Creating Staging Tables

Make sure the necessary staging tables are in place. Here are the staging table schemas for product-related data:

staging\_products staging\_orders staging\_categories staging\_order\_details

Step 2.2: Creating Dimension Tables

Create dimension tables for products, categories, and dates.

DimProduct DimCategory DimDate

Step 2.3: Creating the Fact Table FactProductSales

This fact table will store sales data by product.

Step 2.4: Populating the Dimension and Fact Tables

Populating DimProduct and DimCategory

Populate DimProduct with active products only:

Populate DimCategory:

Populating DimDate

For the sake of simplicity, generate a DimDate table covering a range of dates relevant to your data.

Populating FactProductSales

Load data into FactProductSales by joining staging\_order\_details with staging\_orders and staging\_products to aggregate sales information.

Step 2.5: Querying the Data Mart

1. Top-Selling Products

2. Products With Low Stock Levels  
3. Sales Trends by Product Category

4. Inventory Valuation

5. Supplier Performance Based on Product Sales