# Business Management System

# **Project Description:**

# Business Management System efficiently handles various aspects of a business, encompassing finance, sales, and inventory management. The project involves leveraging the existing dataset to create comprehensive Business Intelligence (BI) dashboards and reports. The dataset encompasses a range of tables covering finance, sales, and inventory management. The goal is to empower stakeholders with interactive and visually compelling data visualizations, enabling them to make informed decisions and gain actionable insights .Types of analysis used in this project are as follows

# Dynamic Financial Dashboards: Visualize financial metrics, expenses, and budgetary information dynamically.

# Sales Analytics: Create interactive dashboards for sales analysis, channel performance, and sales representative insights.

# Inventory Visualization: Develop visualizations to represent inventory balances, item details, and product categorization.

# Customer Insights: Utilize customer data for demographic analysis, geographical mapping, and customer-centric reporting.

# Historical Trend Analysis: Incorporate historical data for trend analysis, enabling stakeholders to understand business evolution over time.

# Business Management System consist of various aspects of a business, encompassing finance, sales, and inventory management. It is a unified platform for different business function. The data is divided into facts and Dim tables which are Connected to each other using star schema. The fact table consist of keys and sales data which is connected to various aspects of business like budget,Account,SalesRep,Cutomer etc.The following tables are included in the data

# FactTable\_cleaned:

# Purpose: Central repository for key business metrics and performance indicators.

# Example Fields: Cust\_key, ItemBranch\_key, Invoice number, Order\_num,SalesCost\_amout,Sales\_quantity,Sales\_margin Amount.

# ARSummary and ARSummary1:

# Purpose: Accounts Receivable summary for financial analysis.

# Example Fields: AR\_saleperday, AR\_Credit, AR\_Gross, Cust\_key .

# Expenses:

# Purpose: Records business expenditures for expense management.

# Example Fields: Expense\_actual, Account, Expense\_budget.

# Budget Accounts:

# Purpose: Manages budgetary information for financial planning.

# Example Fields: MonthlyRegion\_key,BudgetAmount,Amount(count).

# Calendar:

# Purpose: Timekeeping component for organizing and scheduling business activities.

# Example Fields: FiscalMonth,FiscalMonth\_num,FiscalYear,FIscalYear\_num,Date(YYYYMM).

# CustomerAddressMaster and CustomerMap:

# Purpose: Manages customer information and aids in geographical mapping.

# Example Fields: Cust\_Id, CustomeAddress, Customer\_KeyAR.

# ChannelMaster:

# Purpose: Provides insights into different sales channels.

# Example Fields: SegmentChannel, SegmentGrp, SegmentDesc.

# SalesRepMaster:

# Purpose: Manages information about sales representatives.

# Example Fields: SalesRep\_name, SalesRep\_id, .

# HistoryFlag:

# Purpose: Indicates the historical status.

# Example Fields: HistoryFlag(T/F), Date(YYYYMM), Historical Flag(count).

# InventoryBalances:

# Purpose: Monitors and maintains inventory levels.

# Example Fields: Class Turns, Stock OH, Desc,Throughput\_qty.

# ItemBranchMaster, ItemMaster:

# Purpose: Manages details about items and their branches for inventory management.

# Example Fields: ItemBranch\_key, Product Name, Product Group, Product line, ProdutSub groupUnit .

# ProductGroupMaster, ProductSubGroupMaster, ProductTypeMaster:

# Purpose: Categorizes products into groups, subgroups, and types.

# Example Fields: Product Group,Product Subgroup, Product Type, Product ID.