Mint Classics Company: Inventory Optimization Project

Overview

This project involves analyzing inventory and sales data for Mint Classics Company, a retailer of classic model cars and other vehicles. The goal is to identify opportunities for inventory reduction and reorganization, with the aim of closing one of the company's storage facilities while maintaining efficient customer service.

Project Objectives

1. **Explore Products in Inventory**: Analyze current inventory levels and storage locations.
2. **Identify Factors Influencing Inventory Reorganization**: Determine key factors such as sales performance, storage utilization, and product demand.
3. **Provide Data-Driven Recommendations**: Suggest actionable steps for reducing inventory and reorganizing storage.

Tools and Technologies Used

- **MySQL Workbench**: For querying and analyzing the database.
- **SQL**: For writing queries to extract insights from the data.
- **GitHub**: For version control and sharing the project.

Key Insights

1. **Underutilized Warehouses**: Some warehouses (e.g., warehouseCode G) have low inventory levels and can be consolidated.
2. **Overstocked Products**: Products like productCode Y and productCode K have high inventory but low sales.

3. **Slow-Moving Products**: Products like productCode A and productCode B have no sales and should be discontinued.
4. **High-Selling Products**: Products like productCode I and productCode J are top sellers and should be prioritized for inventory management.

Recommendations

1. **Discontinue Slow-Moving Products**: Free up storage space by discontinuing products with no sales.
2. **Reorganize Inventory**: Consolidate inventory from underutilized warehouses into others.
3. **Optimize Stock Levels**: Reduce inventory for overstocked products and increase inventory for high-selling products.
4. **Close Underutilized Warehouses**: Close warehouses with low inventory levels (e.g., warehouseCode N).