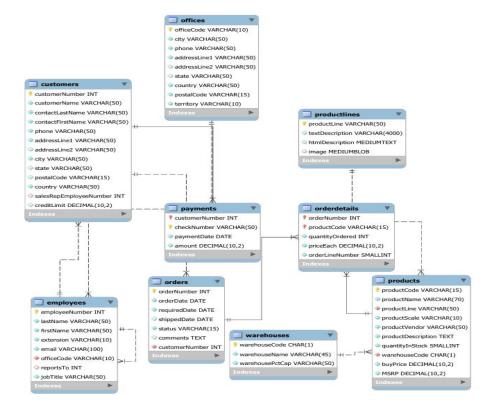
Mint Classics Inventory Analysis Report

This report analyzes inventory and sales data for Mint Classics Company using SQL queries. The goal is to recommend strategies to reduce or reorganize inventory to support the closure of a warehouse while maintaining service efficiency. Our findings highlight opportunities to drop non-selling items, redistribute stock, and optimize inventory levels, ensuring continued performance with lower operational costs.

Database & Business Understanding

Database Overview:

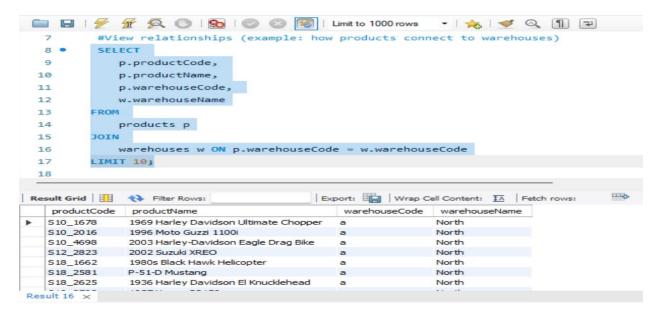
- Tables used: products, warehouses, orderdetails
- Key Fields:
 - productCode, quantityInStock, buyPrice
 - o warehouseCode, warehouseName
 - o quantity Ordered



Data Analysis & SQL Queries

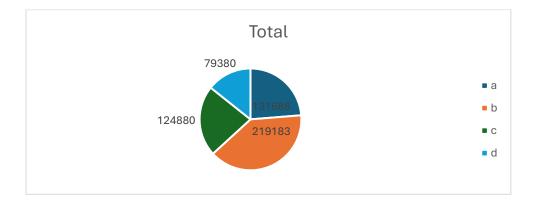
1. View relationships (example: how products connect to warehouses)

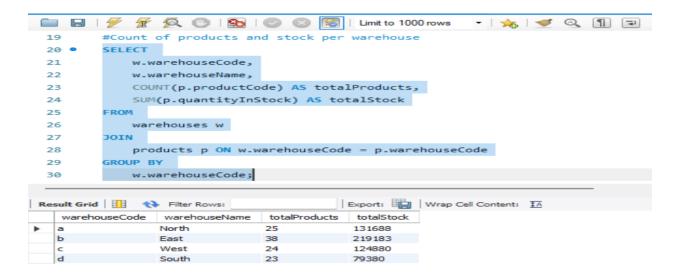
This query shows which product is stored in which warehouse. It's useful to understand product distribution and how warehouses are being utilized.



2. Count of products and stock per warehouse

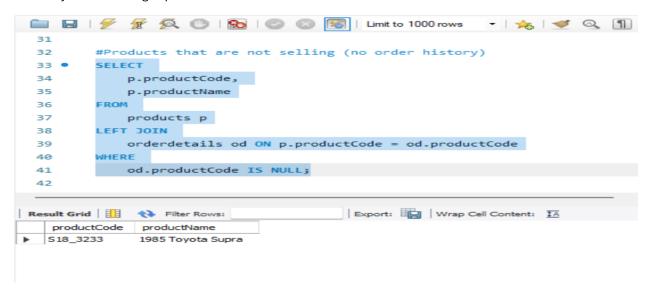
This summarizes the number of different products and the total stock held in each warehouse. Helps identify which warehouse has more stock and potentially which can be considered for closure.





3. Products that are not selling (no order history)

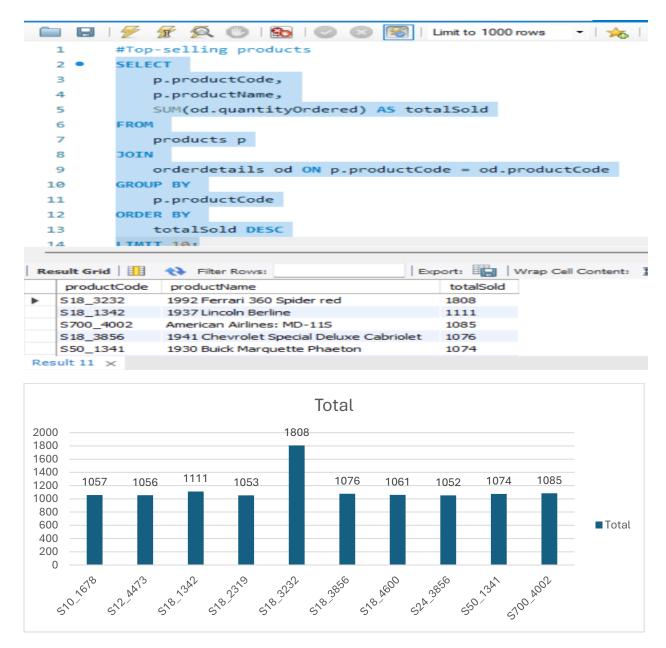
Lists products that have never been ordered. These are candidates for being discontinued or removed from inventory to save storage space.



4.Low and Top selling Products

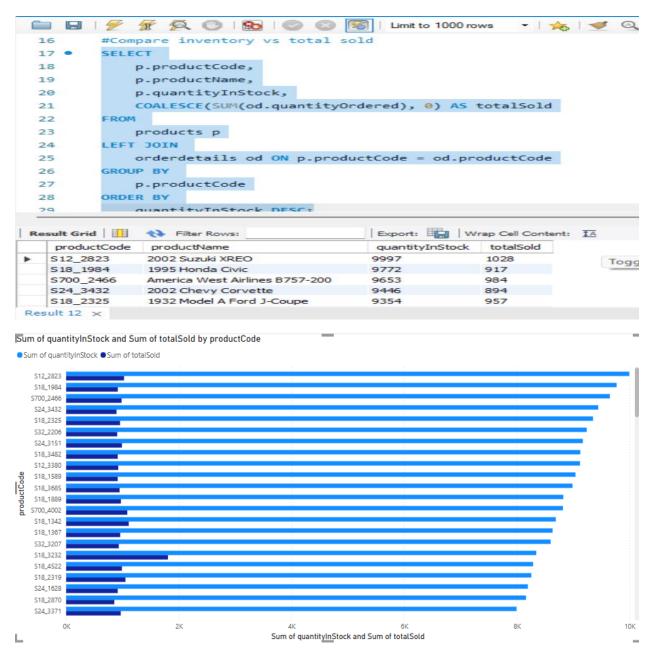
Identifies products that sold less than 10 units. Helps to target low-performing items which might be removed to reduce inventory.

Lists the 10 best-selling products. These items are important to keep in stock and should not be impacted by warehouse closure.



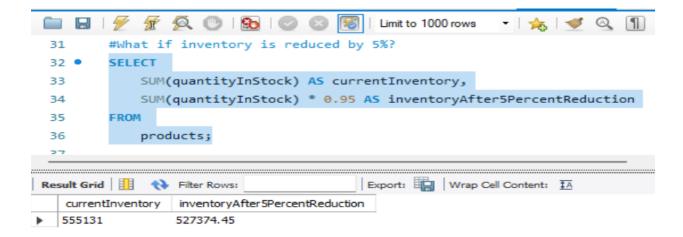
5. Compare inventory vs total sold

Compares how many units are in stock vs. how many have been sold. Helps in adjusting inventory levels to match demand and avoid overstocking.



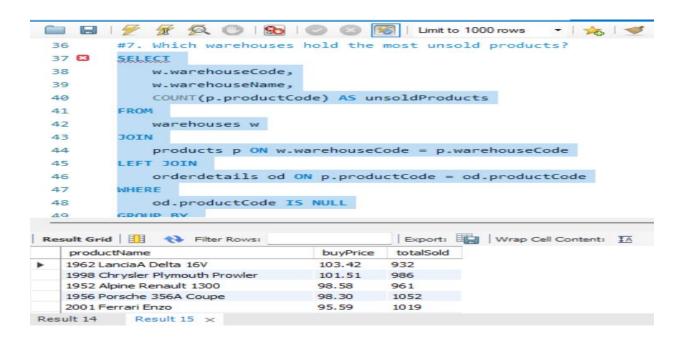
5. What if inventory is reduced by 5%?

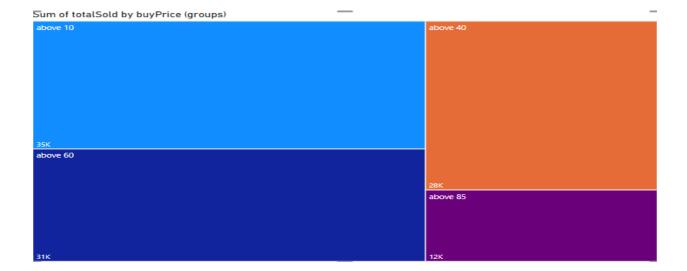
Simulates the effect of reducing total inventory by 5%. Useful for a what-if analysis to see if this reduction could help close a warehouse without hurting sales.



6. Which warehouses hold the most unsold products?

Shows which warehouses store the highest number of products that were never sold. This can indicate which warehouses are underperforming and might be closed.





Conclusion

Based on the above analysis, the following actions are recommended:

- 1. Consider closing the warehouse with the highest volume of unsold products, as it contributes least to revenue while occupying storage space.
- 2. Phase out or heavily discount non-selling and low-selling products to free up space.
- 3. Adjust inventory levels based on product sales performance, especially for overstocked low-demand items.
- 4. Maintain stock for top-selling products across fewer warehouses to ensure customer orders can still be fulfilled within 24 hours.
- 5. Re-evaluate pricing strategy for higher-priced items to improve movement.