

Overview

The aim of the assignment can be classified into the following milestones:

1. Create an ER Diagram or Table Diagram for changes required for tracking Inventory Shipped Orders
2. Provide SQL Statements required for change mentioned in 1
3. Design an Interface called **InventoryControl** with three methods.

```
public interface inventoryControl {  
    public void Ship_order( int orderNumber ) throws OrderException;  
    public int Issue_reorders( int year, int month, int day );  
    public void Receive_order( int internal_order_reference ) throws OrderException;  
}
```
4. From the Product Histories available, calculate the number of times a product has been reordered and at what price.

Files and external data

1. List<String> **getListOfProducts()**
 - To get a list of Products present in the database
2. Integer **getMaximumInventoryStorage**(String productCode)
 - To get Maximum Inventory Storage available for a given product code
3. Integer **getCurrentStockLevel**(String productCode)
 - To determine the current stock level of a product
4. Integer **getReorderLevel**(String productCode)
 - To get the level at which reorders are placed
5. List<ProductHistory> **getProductHistory**(String productCode)
6. double **getReorderHistory**(List<ProductHistory> productHistories, Integer maxInventoryStorage, Integer reorderLevel, Integer currentStockLevel, String productCode)
 - To get product history for a given product code
7. double **getUnitPrice**(ReorderHistoryTransaction reorderHistoryTransaction, String productCode)
 - To get the Unit Price for a given product code
8. List<String> **getListOfSuppliers()**
 - To get a list of suppliers working for the company
9. List<String> **getListOfProductsForSuppliers**(String supplierId)
 - To get a list of products based on suppliers they're working for
10. List<ProductHistory> **getProductHistoryByDate**(String productCode, String targetDate)
 - To get product History for a specific date

Assumptions

No Additional Assumptions

Key Test and Corner Cases

1. When the reorder level or current stock level is higher than the maximum inventory stock available, an Error Message is printed
2. When there are no reorders that exist, for a given date in *Issue_reorders*, ***an Error Message is printed.***

References