TEST PROGRAM SPEC

PURPOSE

This is a simple task of developing a single program or couple of programs (this is your choice) to Create & Maintain a Debtor's Master File, Stock Master File and an Invoicing program. Note that the data files, fields and input requirements for this program are pretty basic and only a small subset of a fully blown system.

For this task, the system you create will be used for a small company where the system needs to be able to handle adding of stock and a view of stock transactions for back tracking purposes. With the system, you must also be able to add debtors (Customers) to the system to be able to link sales and stock sold to particular debtors to view their transactions. The main part of the system will be the Invoicing, this must allow you to add your debtors, add the items for sale and upon completion, update the relevant tables to view transactions per a debtor or view stock items sold to debtors.

The goal is to get some insight into your understanding of the concepts.

DATA FILES

DEBTORS MASTER
> Account Code
> Address1
> Address2
> Address3
> Balance
> Sales Year To Date
> Cost Year to Date

DEBTORS TRANSACTION FILE
> Account Code
> Date
> Transaction Type
> Document No
> Gross Transaction Value
> Vat Value

STOCK MASTER FILE
> Stock Code
> Stock Description
> Cost
> Selling Price
> Total Purchases Excl Vat
> Total Sales Excl Vat
> Qty Purchased
> Qty Sold
> Stock On Hand

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STOCK TRANSACTION FILE
> Stock Code
> Date
> Transaction Type
> Document No
> Qty
> Unit Cost
> Unit Sell

INVOICE HEADER
> Invoice No   (Auto Increment on create)
> Account Code
> Date
> Total Sell Amount Excl VAT
> Vat
> Total Cost

INVOICE DETAIL
> Invoice No
> Item No
> Stock Code
> Qty Sold
> Unit Cost
> Unit Sell
> Disc
> Total

TEST PROGRAM SPEC

INPUT PROGRAMS

MAINTAIN DEBTORS MASTER FILE
Input program to Create & Amend Debtors Master File Details

MAINTAIN STOCK MASTER FILE
Input program to Create & Amend Stock Master File Details

DEBTORS ENQUIRY
Enquiry screen to allow viewing of Debtors details including static details and balances.

From this screen it should also be possible to view a list of transactions for the Debtor, with the ability to filter to see the most recent item sold or the transaction with the highest/lowest value on the Invoice.

STOCK ENQUIRY
Enquiry screen to allow viewing of Stock Items details including static details and balances.

From this screen it should also be possible to view a list of transactions for the Stock Code, with the ability to filter to see the most recent debtor the item was sold to or the transaction with the highest/lowest quantity on the Invoice.

STOCK ADJUSTMENTS
For this exercise a simple input screen will suffice to record transaction for receiving qty's into stock.

INVOICING
Input screen to allow the creation of an invoice. At a header level, to allow for the selection of a pre-listed debtor and total values to tally up values on the detail section. At a detail level, you must be able to add a selection of pre-listed stock codes with prices and each item added must keep tallying up the header totals. Upon completing the Invoice, this will update the relevant tables to allow for this transaction to be seen on either the debtors enquiry or stock enquiry.

GENERAL FUNCTIONALITY
All input screens must allow the user to Lookup a list of master file records for selection. For example in the Debtors Enquiry screen the user must be able to type part of the code or name and list must take user to the closest code.

Data Aware Controls(e.g. MVC in Visual Studio) and/or objects should ***not*** be used. ***N.B. All data manipulation should be achieved with code and SQL.***

For this test program, coding conventions will be monitored, i.e: Commenting of code, variable naming, function naming, coding structure and form design.

As for the rest, the developer has creative license to implement any functionality and features he/she feels are required.