



USAID | DELIVER PROJECT

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Bangladesh: WIMS Technical Manual



WIMS_{Version 1.0}

Warehouse Inventory Management System for DGFP

2010

This publication was produced for review by the U.S. Agency for International Development. It was prepared by the USAID | DELIVER PROJECT, Task Order I.

Bangladesh: WIMS Technical Manual

USAID | DELIVER PROJECT, Task Order 1

The USAID | DELIVER PROJECT, Task Order 1, is funded by the U.S. Agency for International Development under contract no. GPO-I-01-06-00007-00, beginning September 29, 2006. Task Order 1 is implemented by John Snow, Inc., in collaboration with PATH; Crown Agents Consultancy, Inc.; Abt Associates; Fuel Logistics Group (Pty) Ltd.; UPS Supply Chain Solutions; The Manoff Group; and 3i Infotech. The project improves essential health commodity supply chains by strengthening logistics management information systems, streamlining distribution systems, identifying financial resources for procurement and supply chain operations, and enhancing forecasting and procurement planning. The project also encourages policymakers and donors to support logistics as a critical factor in the overall success of their health care mandates.

Recommended Citation

USAID | DELIVER PROJECT, Task Order 1. 2010. *Bangladesh: WTMS Technical Manual*. Arlington, Va.: USAID | DELIVER PROJECT, Task Order 1.

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THE WIMS SOFTWARE4

SYSTEM REQUIREMENTS4

DATA FLOW DIAGRAM.....4

 RECEIVE ITEMS FROM WAREHOUSE/SUPPLIER4

 ISSUE ITEMS TO FACILITY4

 GENERATE GATE PASS4

 GENERATE ADJUSTMENT INVOICE4

.....4

PHYSICAL DATA MODEL4

TABLES4

 A. PARAMETER TABLES.....4

AdjType4

Designation4

Division.....4

District4

FGroup4

Facility4

Employee.....4

FormList.....4

FormAccess.....4

IndentDesig4

SQLLog4

SQLUpdate.....4

Supplier.....4

UnitOfMeas.....4

Warehouse4

MetaTable4

ItemGroup.....4

ItemList4

ItemListLot.....4

 B. INFORMATION OR DETAILS TABLES4

RecInv4

RecInvItems.....4

Indent4

IndentItems.....4

AdjInv.....4

AdjInvItems4

GatePassItems4

 C. PROCESSED DATA TABLES.....4

tmpStockDetails4

SCRIPT FOR DATABASE AND TABLE CREATION.....4

STORED PROCEDURES4

GetAdjInvManyInfo.....4

GetAdjInvOneInfo4

GetAdjInvTree.....4

GetAdjTypeList4

GetDesigList4

GetDistDetails4

GetDistTree.....4

GetDivisionList4

GetEmpAccess4

<i>GetEmpList</i>	4
<i>GetEmpListForOpt</i>	4
<i>GetEmpListLogin</i>	4
<i>GetEmpManyInfo</i>	4
<i>GetEmpOneInfo</i>	4
<i>GetEmpTree</i>	4
<i>GetFGroupList</i>	4
<i>GetFacilityDetails</i>	4
<i>GetFacilityList</i>	4
<i>GetFacilityListForOpt</i>	4
<i>GetFacilityTree</i>	4
<i>GetGPassManyInfo</i>	4
<i>GetGPassOneInfo</i>	4
<i>GetGPassTree</i>	4
<i>GetGroupDetails</i>	4
<i>GetGroupList</i>	4
<i>GetIndentDesigList</i>	4
<i>GetInvForGPass</i>	4
<i>GetIssueInvManyInfo</i>	4
<i>GetIssueInvOneInfo</i>	4
<i>GetIssueInvTree</i>	4
<i>GetItemCurStockQty</i>	4
<i>GetItemDetailsNew</i>	4
<i>GetItemListSelection</i>	4
<i>GetItemLotDetails</i>	4
<i>GetItemTransCount</i>	4
<i>GetLotPickListForIssue</i>	4
<i>GetMetaTableList</i>	4
<i>GetRecInvManyInfo</i>	4
<i>GetRecInvOneInfo</i>	4
<i>GetRecInvTree</i>	4
<i>GetStockSummaryLotwise</i>	4
<i>GetSupplierDetails</i>	4
<i>GetSupplierList</i>	4
<i>GetUnitOfMeasList</i>	4
<i>GetWarehouseOneInfo</i>	4
<i>PostToStock_AdjInv</i>	4
<i>PostToStock_IssueInv</i>	4
<i>PostToStock_RecInv</i>	4
WIMS MENU STRUCTURE	4
REPORTS	4
<i>AdjInv.rpt</i>	4
<i>Districts.rpt</i>	4
<i>FacilityList.rpt</i>	4
<i>FacilityListByDist.rpt</i>	4
<i>GatePass.rpt</i>	4
<i>GatePassItems.rpt</i>	4
<i>IndentInv.rpt, IssueInv.rpt</i>	4
<i>ItemGroups.rpt</i>	4
<i>RecInv.rpt</i>	4
<i>RecInvFac.rpt</i>	4
<i>StockDetails.rpt</i>	4
<i>StockDetails_byFacility.rpt</i>	4
<i>StockSummary.rpt</i>	4
<i>StockSummaryAny.rpt</i>	4

StockSummaryLot.rpt..... 4
StockSummaryLotAny.rpt..... 4
Suppliers.rpt..... 4
DATA ENTRY FORMS 4
frmIssueInv form..... 4

The WIMS software

WIMS (Warehouse Inventory Management System) is software for maintaining stock status of commodities in any warehouse. It's a fully menu-driven, client-server graphical user interface and easy to use. WIMS was developed using Visual Basic in the front end and SQL Server at the back end. WIMS has the following features:

- Issue, receive of commodities to and from different facilities
- Password-protected access control
- Issue of commodities using FEFO (first–expiry, first-out) method
- Adjustment due to loss, expiry, return, etc.

Family planning commodities are distributed through a three-tier distribution system. Central warehouse and Regional Warehouse (RWH) Chittagong receive commodities from external suppliers, which are then distributed to all of the other warehouses. The RWHs issue the commodities to Upazila Family Planning Office for distribution to field staff. The main task of a warehouse, therefore, is to issue and receive commodities and maintain stock. When a Central Warehouse (CWH) or RWH receives commodities, they are added to stock by preparing a Receive Invoice. When an RWH issues commodities, it is done through Issue Invoice. In cases of commodity return, loss, damage, theft, or physical inventory, all are recorded through an Adjustment Invoice. At any time, users can get the current stock status and any previous stock status.

System Requirements

The following resources are recommended for use with WIMS:

Components	Specifications
▪ CPU	▪ Pentium III or higher
▪ Memory	▪ 128 MB
▪ Hard Drive	▪ 40 MB
▪ Video Adapter	▪ SVGA with 800 x 600 resolution
▪ Operating System	▪ Windows 2000, Windows XP
▪ Database	▪ SQL Server 2000

In a multiuser environment, SQL Server is required. WIMS does not require MS Office, but if a user needs to export a report in Word or Excel file format, then MS Office must be installed in the target machine.

The following software is required during development of WIMS:

Software	Specifications
▪ Operating System	▪ Windows 2000, Windows XP
▪ Database	▪ SQL Server 2000
▪ Development Tools	▪ Visual Basic 6
▪ Reporting	▪ Crystal Reports 8 or higher
▪ Custom components	▪ MyOCX.ocx, Subclass.ocx, OLEGUIDS.tlb, ISHF_Ex.tlb

To prepare a PC for development, users must follow the steps below:

1. Install SQL Server 2000, Visual Basic 6, then Crystal Reports.

2. Copy the VB project directory from CD-ROM to a hard disk. To run the project, you must first install the custom components.
3. Install MyOCX.ocx and Subclass.ocx using regsvr32 tool. Go to DOS prompt and type:
regsvr32 <full path of ocx>.
4. Install the type libraries, OLEGUIDS.tlb, ISHF_Ex.tlb, using the third-party tool, VBRegTLB, available on CD-ROM. Start VBRegTLB, find the tlb files, and press Registered for every tlb not yet registered.
5. Now you are ready to open the VB project for editing.

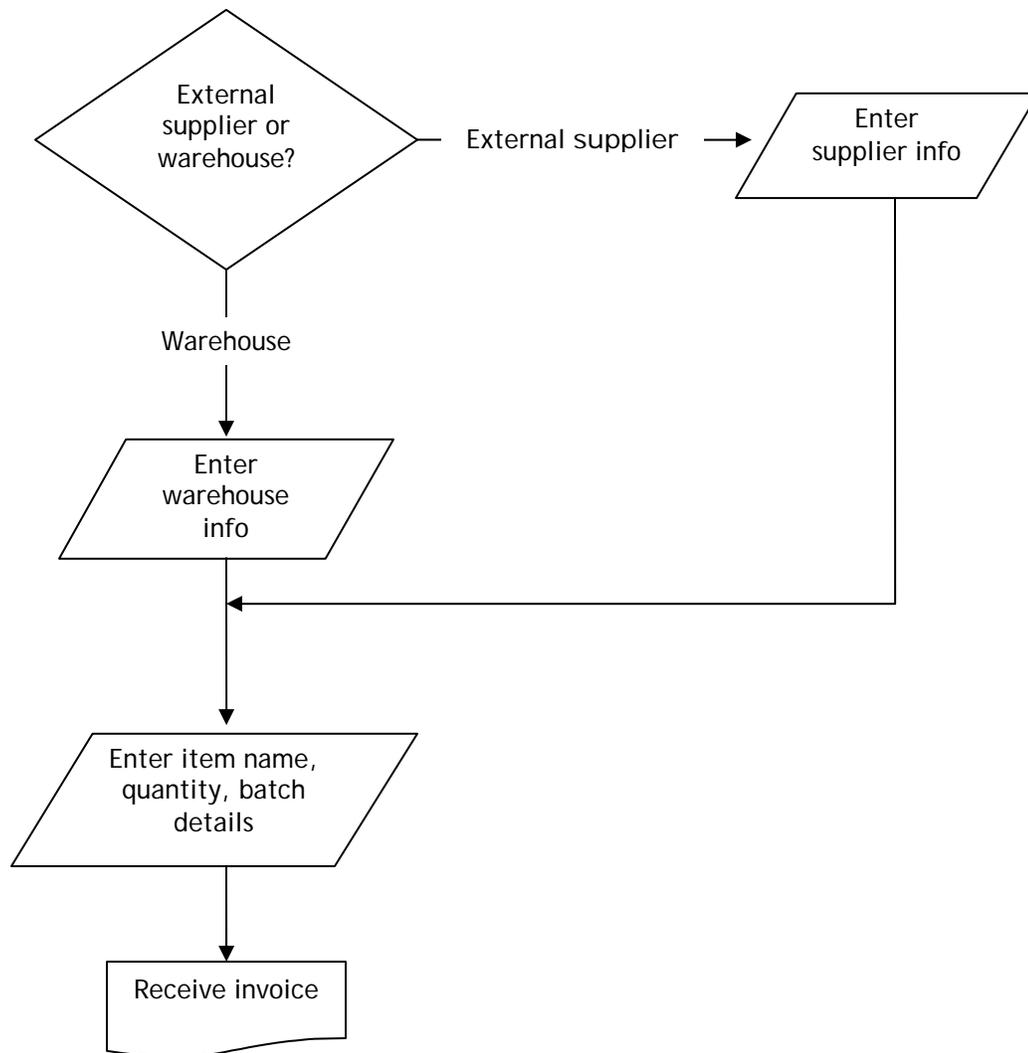
Naming Conventions Used

Following are the naming conventions used for different objects of the software:

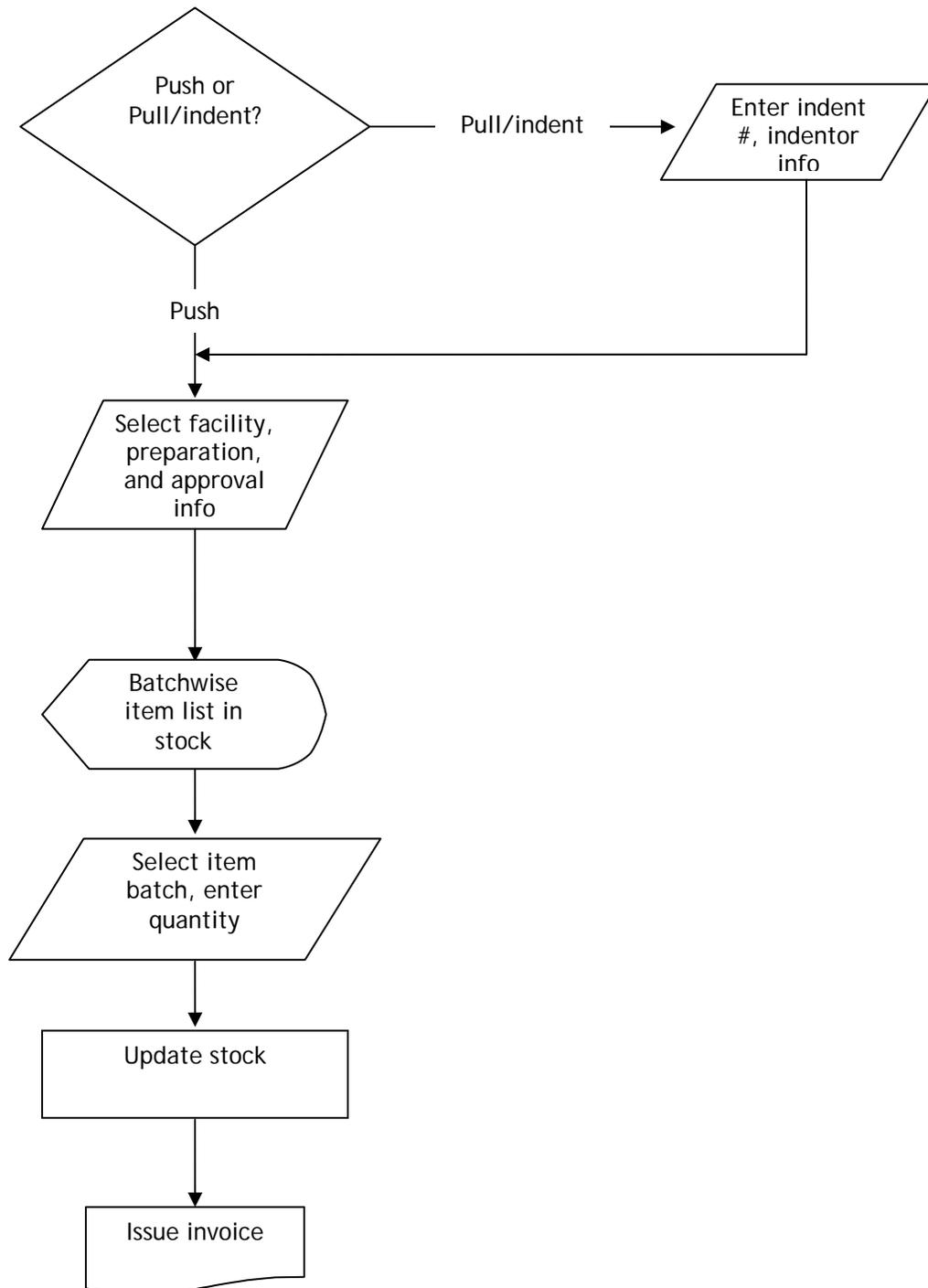
Component	Convention
▪ Database Table Names	▪ <i>None specific</i>
▪ Stored Procedure Names	▪ All SP returns data that start with Get ; those used as report data source have Rpt at the end; those that update invoices start with PostToStock
▪ Data Entry Form Names	▪ Starts with frm
▪ Form Variable Names	▪ <i>None specific</i>
▪ Report Names	▪ <i>None specific</i>

Data Flow Diagram

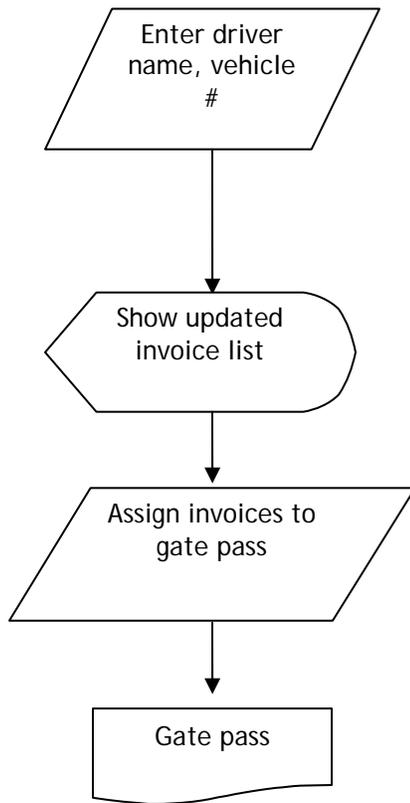
Receive Items from Warehouse/Supplier



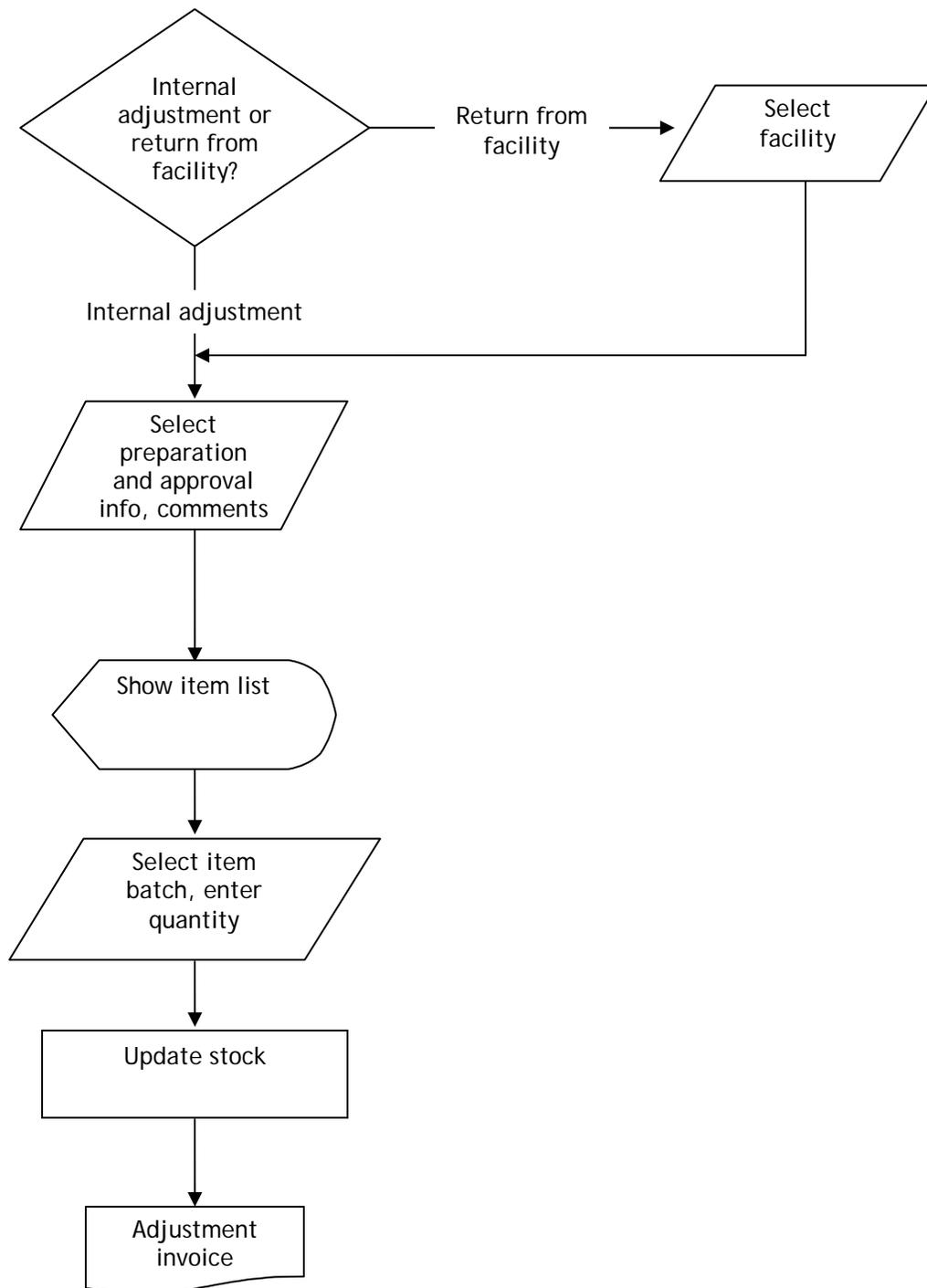
Issue Items to Facility



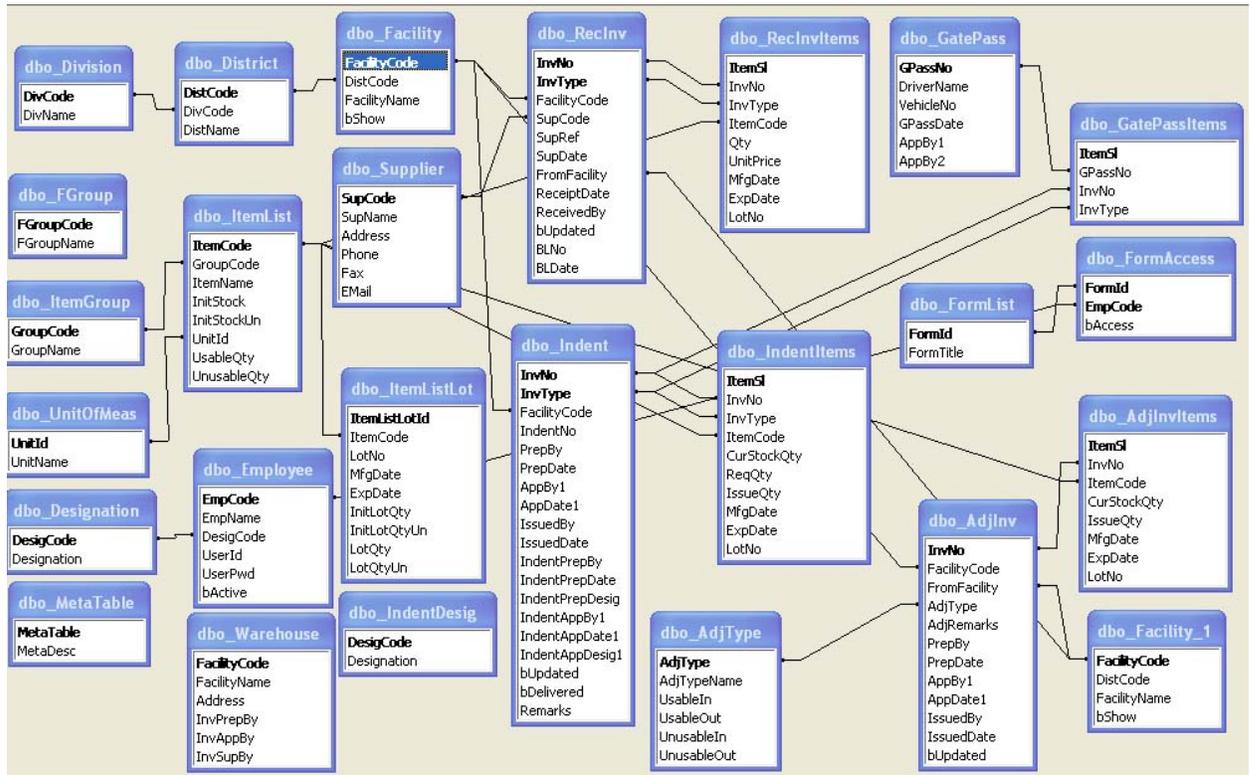
Generate Gate Pass



Generate Adjustment Invoice



Physical data Model



Tables

There are a total of 28 tables, which can be grouped into 3 categories:

- A. Parameter Tables
- B. Information or Details Tables
- C. Processed Data Tables

A. Parameter Tables

These tables contain parameters, or lists of codes, that are used during data entry in Details Tables. Data in these tables are updated very infrequently. Following is the list of parameter Tables, along with their properties and description of fields.

Description of Legends:

P – Primary Key

F – Foreign Key

U – Unique Key

M – Mandatory (Not NULL)

AdjType

Adjustment invoices can be categorized into 6 types. These adjustment types are listed in AdjType table. When entering adjustment invoices, one of these adjustment types is selected from list. Each adjustment type has 4 associated flags. The flags hold 0 or 1 and are used during stock summarization.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Adjustment Type	AdjType	smallint		Y		Y	Y	Numeric adjustment type incremented by 1
Adjustment Type Name	AdjTypeName	varchar	40			Y	Y	Descriptive name of adjustment type
4 Flags Used During Adjustment Calculations	UsableIn	smallint					Y	0 and 1 are set in the 4 flags to be used during calculations regarding adjustment
	UsableOut	smallint					Y	
	UnusableIn	smallint					Y	
	UnusableOut	smallint					Y	

Designation

This table contains warehouse employee designations. When entering employee information, one designation is selected from the list for a specific employee.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Designation Code	DesigCode	smallint		Y		Y	Y	Unique code for each type of designation incremented by 1
Designation Name	Designation	varchar	50			Y	Y	Descriptive designation name

Division

This table lists the 6 divisions in Bangladesh. When new divisions are added, they can be included in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Division Code	DivCode	Smallint		Y		Y	Y	Unique code for each division incremented by 1
Division Name	DivName	Varchar	20			Y	Y	Name of division

District

This table lists the 64 districts of Bangladesh. When new districts are added, they can be included in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
District Code	DistCode	Int		Y		Y	Y	Unique district code for each district incremented by 1
Division Code	DivCode	smallint			Y		Y	Foreign key of Division table: division code under which the district belongs
District Name	DistName	varchar	50			Y	Y	Name of district

FGroup

Facilities are arranged in a number of groups, each of which is identified by a 1-character Group Code. When entering a Facility, a group is selected from list.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Facility Group Code	FGroupCode	Char	1	Y		Y	Y	Unique code for each type of facility
Facility Group Name	FGroupName	varchar	30				Y	Descriptive name of each type of facility code

Facility

The warehouses, thanas, and other organizations where commodities can be issued and received are listed in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Facility Code	FacilityCode	varchar	4	Y		Y	Y	Unique facility code for each facility: first character, facility group, and last 3 characters, sequential number
District Code	DistCode	int			Y		Y	Foreign key to Districts table: district code under which the facility belongs
Facility Name	FacilityName	varchar	100			Y	Y	Descriptive name of facility
Show	bShow	bit					Y	Whether to show it during invoice entry

Employee

Each warehouse employs a number of employees who use WIMS. Information about the employees, as well as their User IDs and Passwords to log into the system, are stored in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Employee Code	EmpCode	Int		Y		Y	Y	Unique employee code for each employee incremented by 1
Employee Name	EmpName	varchar	100				Y	Name of employee
Designation Code	DesigCode	smallint			Y		Y	Foreign key to Designation table: designation code of employee
User ID	UserId	varchar	8			Y	Y	Unique User ID for each employee used during login
User Password	UserPwd	varchar	8				Y	Password for each employee used during login
Active	bActive	bit					Y	Whether employee is currently working

FormList

This table lists the data entry forms in the software.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Form ID	FormId	varchar	20	Y		Y	Y	Unique name for each data entry form
Form Title	FormTitle	varchar	50				Y	Descriptive name of each data entry form

FormAccess

Employee access to data entry forms is listed in this table. There are two types of access—View and Edit. With View access, users get Read Only access to the forms; they cannot edit anything. With Edit access, users can enter new records, edit old ones, delete records, etc.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Form ID	FormId	varchar	20	Y	Y	Y	Y	Foreign key to FormList: form for which access rights are to be given
Employee Code	EmpCode	int		Y	Y		Y	Foreign key to employees: employee code for which permission to access a form will be given
Access	bAccess	smallint					Y	Permission to View or Edit the form

IndentDesig

This table lists the designations of persons who prepare/approve indent vouchers from the receiving facility.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Designation Code	DesigCode	smallint		Y		Y	Y	Unique designation code incremented by 1
Designation Name	Designation	Varchar	50			Y	Y	Designation of persons who prepare/approve indent vouchers

SQLLog

This table acts as an Audit Trail for the software. Any inserts, updates, or delete commands issued against the database are listed in this table and can be viewed later for tracking purposes. Also, if there are multiple databases, then these changes can be transported to another database and executed to make the databases identical.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Log Sequence	LogSeq	int		Y		Y	Y	Sequential number incremented by 1
User Name	UserName	varchar	30				Y	Holds the logged-on User ID that initiated the SQL query
Terminal	Terminal	varchar	30				Y	From which terminal the query was initiated
Time Stamp	TStamp	datetime					Y	Specific time when the query was initiated
SQL Text Copied	SqlText Copied	varchar bit	1000				Y	SQL text of the query
							Y	Whether the update was copied to another server

SQLUpdate

This table is not used currently; updates generated in SQLLog table can be transferred to another database. In the new database, the records are entered into SQLUpdate table and can be updated later in the database.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Log Sequence	LogSeq	int		Y		Y	Y	Sequential number incremented by 1
User Name	UserName	varchar	8				Y	Holds the logged-on User ID that initiated the SQL query
Terminal	Terminal	varchar	30				Y	From which terminal the query was initiated
Time Stamp	TStamp	datetime					Y	Specific time when the query was initiated
SQL Text	SqlText	varchar	1000				Y	SQL text of the query
Updated	Updated	bit					Y	Whether the query was updated in the destination server

Supplier

The list of external suppliers is stored in this table. External suppliers refers to suppliers other than warehouses or facilities in the Directorate General of Family Planning (DGFP) distribution system.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Supplier Code	SupCode	int		Y		Y	Y	Unique code for each supplier incremented by 1
Supplier Name	SupName	varchar	50			Y	Y	Name of supplier
Address	Address	varchar	150					Full address of supplier
Phone	Phone	varchar	100					Phone numbers of supplier
Fax	Fax	varchar	100					Fax number of supplier
Email	EMail	varchar	100					Email address of supplier

UnitOfMeas

This table stores units of measurement for commodities. One unit is selected for each item; new items are entered in the ItemList table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Unit ID	UnitId	smallint		Y		Y	Y	Unique ID for each unit incremented by 1
Unit Name	UnitName	varchar	20			Y	Y	Name of unit

Warehouse

This table is filled before data entry starts. The first 3 fields contain information about the facility where the software will be used. In last 3 fields you select the employee codes of the persons who will be involved in the invoice-preparation process. These data will be used to fill in data entry fields automatically when invoices are prepared.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Facility Code	FacilityCode	varchar	4	Y		Y	Y	Foreign key to Facility table: select own code of the facility
Facility Name	FacilityName	varchar	100				Y	Name of own facility
Address of Facility	Address	varchar	100				Y	Address of own facility
Invoice Prepared By	InvPrepBy	int						Code of employee who generally prepares the invoice
Invoice Approved By	InvAppBy	int						Code of employee who generally approves the invoice
Supplied By	InvSupBy	int						Code of employee who generally supplies goods

MetaTable

There is one generic data entry form for data entry in the basic lookup tables. The entry form has a list filled with table names; after you select the table name, the records of that table will appear in the grid. This table contains those table names.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Meta Table Name	MetaTable	varchar	100	Y		Y	Y	Name of database table
Meta Table Description	MetaDesc	varchar	100			Y		Description of meta table

ItemGroup

Commodities in the software are categorized into several groups; the names of those groups are listed in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Group Code	GroupCode	char	3	Y		Y	Y	3-digit unique code for each item group
Group Name	GroupName	varchar	100			Y	Y	Descriptive name of each group

ItemList

A list of items are saved in this table. Initially when the software starts, you put the item names together with their initial quantity and unit of measurement. Whenever a new item enters the system, you have to put the item and its unit in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item Code	ItemCode	varchar	10	Y		Y	Y	Unique code for each item: 3-character group code and 3-digit sequential unique number
Group Code	GroupCode	Char	3		Y		Y	Foreign key of ItemGroup table: item belongs to this group
Item Name	ItemName	varchar	150				Y	Name of item
Initial Stock	InitStock	decimal	18,0				Y	Initial stock of item
Initial Unusable Stock	InitStockUn	decimal	18,0				Y	Initial unusable stock of item
Unit ID	UnitId	smallint			Y		Y	Foreign key to UnitOfMeas table: unit of measurement of the item
Total Usable Quantity	UsableQty	decimal	18,0				Y	Current total usable stock quantity of the item
Total Unusable Quantity	UnusableQty	decimal	18,0				Y	Current total unusable stock quantity of the item

ItemListLot

This table contains item lot or batch information. An item may have one or more lots, and each lot can be identified by 3 fields—lot number, manufacturing date, and expiry date.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item List Lot ID	ItemListLotId	Int		Y		Y	Y	Sequential lot serial
Item Code	ItemCode	varchar	10		Y		Y	Foreign key to ItemList: code name of item
Lot No	LotNo	varchar	100					Lot number of specific item
Manufacturing Date	MfgDate	datetime						Manufacturing date of the lot
Expiry Date	ExpDate	datetime						Expiry date of the lot
Initial Lotwise Quantity	InitLotQty	decimal	18,0					Initial quantity for this lot
Initial Unusable Lotwise Quantity	InitLotQtyUn	decimal	18,0					Initial unusable quantity for this lot
Total Current Lot Quantity	LotQty	decimal	18,0					Total current usable lot quantity
Total Current Unusable Lot Quantity	LotQtyUn	decimal	18,0					Total current unusable lot quantity

B. Information or Details Tables

Reclnv

This is the master table for storing receive invoice. There are two types of sources from which to receive—one is an external source and the other is an internal transfer between warehouses.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Invoice No	InvNo	int		Y		Y	Y	Sequential invoice number incremented by 1
Invoice Type	InvType	smallint		Y		Y	Y	Two types of sources from which to receive—external supplier and warehouse
Facility Code	FacilityCode	varchar	4		Y		Y	Foreign key to Facility table: code of facility that has received the commodities
Supplier Code	SupCode	int			Y			Foreign key to Supplier table: code of supplier that supplied the commodities
Supplier Challan	SupRef	varchar	30				Y	Challan number from supplier's delivery invoice
Supplier Date	SupDate	datetime					Y	Date of supply
From Facility	FromFacility	varchar	4		Y			Foreign key to Facility table: if received from warehouse, then facility that sent the commodities
Receipt Date	ReceiptDate	datetime					Y	Date of receipt of invoice
Updated	bUpdated	bit					Y	Whether the invoice is updated to stock
Bill of Lading No	BLNo	varchar	200					If external supply, then bill of lading number
Bill of Lading Date	BLDate	datetime						If external supply, then bill of lading date

ReclnvItems

Information about the items received, their quantity, and batchwise information are stored in this table. There can be multiple records in this table for a single invoice.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item Serial	ItemSI	int		Y		Y	Y	Unique serial number
Invoice No	InvNo	int			Y		Y	Foreign key to Reclnv table: receive voucher number and type
Invoice Type	InvType	smallint			Y		Y	
Item Code	ItemCode	varchar	10		Y		Y	Foreign key to ItemList table: code of item that was received
Received Quantity	Qty	decimal	18,0					Quantity received
Unit Price	UnitPrice	decimal	18,0					Unit price*****
Manufacturing Date	MfgDate	datetime						Manufacturing date of the lot
Expiry Date	ExpDate	datetime						Expiry date of the lot
Lot No	LotNo	varchar	100					Lot number, if any

Indent

This table stores information regarding issuing of commodities to different stores. There is one record in this table for each invoice. Issue can be of two types—push issue based on allotment, and pull issue based on indent from receiving store.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Invoice No	InvNo	Int		Y		Y	Y	Sequential invoice number for each issue invoice
Invoice Type	InvType	smallint		Y		Y	Y	Two types of invoice—push and pull (indent)
Facility Code	FacilityCode	varchar	4		Y		Y	Foreign key of Facility table: facility for which commodities are issued
Indent No	IndentNo	varchar	50					If issue is based on indent, receiving facility's indent number
Prepared By	PrepBy	Int					Y	Code of employee who prepared the invoice
Preparation Date	PrepDate	datetime					Y	Date of invoice was prepared
Approved By	AppBy1	Int					Y	Code of employee who approved the invoice
Approved By Date	AppDate1	datetime					Y	Date of approval
Issued By	IssuedBy	Int					Y	Code of employee who issued the commodities
Issue Date	IssuedDate	datetime					Y	Date of issue
Indent Prepared By	IndentPrepBy	varchar	100					Name of person in receiving facility who prepared the indent voucher
Indent Preparation Date	IndentPrepDate	datetime						Date of indent preparation
Indent Preparation Designation	IndentPrepDesig	smallint						Designation of person who prepared the invoice
Indent Approved By	IndentAppBy1	varchar	100					Name of person who approved the indent
Indent Approval Date	IndentAppDate1	datetime						Date indent was approved
Indent Approval Designation	IndentAppDesig1	smallint						Designation of person who approved the invoice
Updated	bUpdated	Bit					Y	Whether the invoice is updated to stock
Delivered	bDelivered	Bit					Y	Whether the commodities in the invoice are delivered through gate pass
Remarks	Remarks	varchar	200					Any comments

IndentItems

Every issue voucher has one or more records in this table for each of the items issued. Every record has item name, batch information, and quantity issued.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item Serial	ItemSI	int		Y		Y	Y	Sequential serial number
Invoice No	InvNo	Int			Y		Y	Foreign key to Indent table: invoice number and type
Invoice Type	InvType	smallint			Y		Y	
Item Code	ItemCode	varchar	10		Y		Y	Foreign key to ItemList: code of item being issued

Current Stock Quantity	CurStockQty	decimal	18,0					Current stock quantity of specific item
Requisition Quantity	ReqQty	decimal	18,0					Quantity the indentor requested
Issued Quantity	IssueQty	decimal	18,0					Actual quantity issued
Manufacturing Date	MfgDate	datetime						Specific lot information
Expiry Date	ExpDate	datetime						
Lot No	LotNo	varchar	100					

AdjInv

Adjustment invoice information stored in this table. Every adjustment invoice has an adjustment type associated.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Invoice No	InvNo	int		Y		Y	Y	Unique adjustment invoice number incremented by 1
Facility Code	FacilityCode	varchar	4		Y		Y	Foreign key of Facility table: facility for which adjustment is performed
From Facility	FromFacility	varchar	4		Y		Y	Foreign key of Facility table: in case of return, which facility is returning the commodity
Adjustment Type	AdjType	smallint			Y		Y	Foreign key of AdjType table: what type of adjustment is performed
Remarks	AdjRemarks	varchar	200					Comments regarding the adjustment
Invoice Prepared By	PrepBy	int					Y	Code of employee who prepared the invoice
Date of Invoice Preparation	PrepDate	datetime					Y	Invoice preparation date
Invoice Approved By	AppBy1	int					Y	Code of employee who approved the invoice
Date of Approval	AppDate1	datetime					Y	Invoice approval date
Commodities Issued By	IssuedBy	int						Code of employee who issued the commodities
Date of Issue	IssuedDate	datetime						Invoice issue date
Update Flag	bUpdated	bit					Y	Whether the invoice is updated to stock

AdjInvItems

Item details information of an adjustment invoice is stored in this table. Every item adjusted contains one record.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item Serial	ItemSI	int		Y		Y	Y	Sequential number for each adjustment item entry
Invoice No	InvNo	int			Y		Y	Foreign key of AdjInv table: adjustment invoice number
Item Code	ItemCode	varchar	10		Y		Y	Foreign key of ItemList table: adjustment for this item code
Current Stock Quantity	CurStockQty	decimal	18,0					Current balance of specific item in stock
Adjusted Quantity	IssueQty	decimal						Quantity of item adjusted
Manufacturing Date	MfgDate	datetime						Manufacturing date of the item lot
Expiry Date	ExpDate	datetime						Expiry date of the item lot
Lot No	LotNo	varchar	100					Lot number of the item lot

GatePass

Information about gate pass is stored in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Gate Pass No	GPassNo	int		Y		Y	Y	Unique Gate Pass no. incremented by 1
Driver Name	DriverName	varchar	100					Name of driver driving the vehicle
Vehicle No	VehicleNo	varchar	100					Number of vehicles carrying the goods
Gate Pass Date	GPassDate	datetime					Y	Date of Gate Pass preparation
Approved By 1	AppBy1	int						Employee 1 who approved the invoice
Approved By 2	AppBy2	int						Employee 2 who approved the invoice

GatePassItems

Every gate pass links a number of invoices, which are stored in this table.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Item Serial	ItemSI	Int		Y		Y	Y	Unique item serial number
Gate Pass No	GPassNo	Int			Y		Y	Foreign key to Gate Pass table: gate pass number
Invoice No	InvNo	Int			Y		Y	Foreign key to Indent table: Invoice Type and Number that are attached to this Gate Pass
Invoice Type	InvType	smallint			Y		Y	

C. Processed Data Tables

tmpStockDetails

This table contains pre-processed data, which are used to produce summary reports. Every set of records is identified by a unique code. Records older than one day are deleted before a report is generated.

Attribute	Field Name	Data Type	Size	P	F	U	M	Description
Unique Code	UCode	char	32				Y	Unique code to identify a group of records
Current Date	CurDate	datetime					Y	Date of report printing
Group Code	GroupCode	Char	3				Y	Item Group Code
Group Name	GroupName	varchar	100				Y	Item Group Name
Item Code	ItemCode	varchar	10				Y	Item Code
Item Name	ItemName	varchar	150				Y	Name of item
Supplier Name	Supplier	varchar	100					Name of supplier (external/warehouse)
Receiver Name	Receiver	varchar	100					Name of receiving warehouse
Invoice No	InvoiceNo	varchar	100					Invoice number (receive/indent/issue/adjustment)
Stock Date	StockDate	datetime						Date of stock
Total Usable Quantity In	TotQtyIn	decimal	18,0					Total quantity of item that was added to stock (initial stock + receive qty + adjusted qty)
Total Usable Quantity Out	TotQtyOut	decimal	18,0					Total quantity of item that was removed from stock (initial stock-issued, qty-adjusted qty)
Total Unusable Quantity In	TotUnQtyIn	decimal	18,0					Total unusable quantity of item that was added to stock (initial stock + receive qty + adjusted qty)
Total Unusable Quantity Out	TotUnQtyOut	decimal	18,0					Total unusable quantity of item that was removed from stock (initial stock-issued qty-adjusted qty)
Unit Name	UnitName	varchar	20					Name of item unit
Invoice Type	InvType	varchar	100					A description of type of invoice

Script for Database and Table Creation

```
IF EXISTS (SELECT name FROM master.dbo.sysdatabases WHERE name = N'wims')
    DROP DATABASE [wims]
GO

CREATE DATABASE [wims] ON (NAME = N'wims_Data', FILENAME = N'C:\Program Files\Microsoft SQL
Server\MSSQL\data\wims_Data.MDF', SIZE = 20, FILEGROWTH = 10%) LOG ON (NAME = N'wims_Log', FILENAME
= N'C:\Program Files\Microsoft SQL Server\MSSQL\data\wims_Log.LDF', SIZE = 2, FILEGROWTH = 10%)
    COLLATE SQL_Latin1_General_CP1_CI_AS
GO

exec sp_dboption N'wims', N'autoclose', N'true'
GO

exec sp_dboption N'wims', N'bulkcopy', N'false'
GO

exec sp_dboption N'wims', N'trunc. log', N'true'
GO

exec sp_dboption N'wims', N'torn page detection', N'true'
GO

exec sp_dboption N'wims', N'read only', N'false'
GO

exec sp_dboption N'wims', N'dbo use', N'false'
GO

exec sp_dboption N'wims', N'single', N'false'
GO

exec sp_dboption N'wims', N'autoshrink', N'true'
GO

exec sp_dboption N'wims', N'ANSI null default', N'false'
GO

exec sp_dboption N'wims', N'recursive triggers', N'false'
GO

exec sp_dboption N'wims', N'ANSI nulls', N'false'
GO

exec sp_dboption N'wims', N'concat null yields null', N'false'
GO

exec sp_dboption N'wims', N'cursor close on commit', N'false'
GO

exec sp_dboption N'wims', N'default to local cursor', N'false'
GO

exec sp_dboption N'wims', N'quoted identifier', N'false'
GO

exec sp_dboption N'wims', N'ANSI warnings', N'false'
GO

exec sp_dboption N'wims', N'auto create statistics', N'true'
GO

exec sp_dboption N'wims', N'auto update statistics', N'true'
GO
```

```
use [wims]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_AdjInvItems_AdjInv]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[AdjInvItems] DROP CONSTRAINT FK_AdjInvItems_AdjInv
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_AdjInv_AdjType]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[AdjInv] DROP CONSTRAINT FK_AdjInv_AdjType
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_Employee_Designation]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[Employee] DROP CONSTRAINT FK_Employee_Designation
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_Facility_District]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[Facility] DROP CONSTRAINT FK_Facility_District
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_District_Division]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[District] DROP CONSTRAINT FK_District_Division
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_FormAccess_Employee]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[FormAccess] DROP CONSTRAINT FK_FormAccess_Employee
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_AdjInv_Facility]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[AdjInv] DROP CONSTRAINT FK_AdjInv_Facility
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_AdjInv_Facility1]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[AdjInv] DROP CONSTRAINT FK_AdjInv_Facility1
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_Indent_Facility]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[Indent] DROP CONSTRAINT FK_Indent_Facility
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_Reclnv_Facility]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[Reclnv] DROP CONSTRAINT FK_Reclnv_Facility
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_Reclnv_Facility1]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[Reclnv] DROP CONSTRAINT FK_Reclnv_Facility1
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_FormAccess_FormList]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[FormAccess] DROP CONSTRAINT FK_FormAccess_FormList
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_GatePassItems_GatePass]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[GatePassItems] DROP CONSTRAINT FK_GatePassItems_GatePass
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_GatePassItems_Indent]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[GatePassItems] DROP CONSTRAINT FK_GatePassItems_Indent
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_IndentItems_Indent]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[IndentItems] DROP CONSTRAINT FK_IndentItems_Indent
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_ItemList_ItemGroup]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[ItemList] DROP CONSTRAINT FK_ItemList_ItemGroup
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_ItemListLot_ItemList]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[ItemListLot] DROP CONSTRAINT FK_ItemListLot_ItemList
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_RecInvItems_RecInv]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[RecInvItems] DROP CONSTRAINT FK_RecInvItems_RecInv
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_RecInv_Supplier]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[RecInv] DROP CONSTRAINT FK_RecInv_Supplier
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FK_ItemList_UnitOfMeas]') and
OBJECTPROPERTY(id, N'IsForeignKey') = 1)
ALTER TABLE [dbo].[ItemList] DROP CONSTRAINT FK_ItemList_UnitOfMeas
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Insert_ItemListLot]') and
OBJECTPROPERTY(id, N'IsTrigger') = 1)
drop trigger [dbo].[Insert_ItemListLot]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetAdjInvManyInfo]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetAdjInvManyInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetAdjInvOneInfo]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetAdjInvOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetAdjInvRpt]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[GetAdjInvRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetAdjInvTree]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[GetAdjInvTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetAdjTypeList]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[GetAdjTypeList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetDesigList]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[GetDesigList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetDistDetails]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetDistDetails]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetDistTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetDistTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetDivisionList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetDivisionList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpAccess]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpAccess]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpListForOpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpListForOpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpListLogin]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpListLogin]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpManyInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpManyInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpOneInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetEmpTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetEmpTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFGroupList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFGroupList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFacilityDetails]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFacilityDetails]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFacilityList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFacilityList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFacilityListForOpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFacilityListForOpt]
```

GO

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFacilityListRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFacilityListRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetFacilityTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetFacilityTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGPassManyInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGPassManyInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGPassOneInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGPassOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGPassTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGPassTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGatePassItemsRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGatePassItemsRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGatePassRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGatePassRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGroupDetails]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGroupDetails]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetGroupList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetGroupList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetIndentDesigList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetIndentDesigList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetInvForGPass]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetInvForGPass]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetIssueInvManyInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetIssueInvManyInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetIssueInvOneInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetIssueInvOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetIssueInvRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetIssueInvRpt]
GO
```

```
drop procedure [dbo].[GetIssueInvRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetIssueInvTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetIssueInvTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetItemCurStockQty]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetItemCurStockQty]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetItemDetailsNew]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetItemDetailsNew]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetItemListSelection]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetItemListSelection]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetItemLotDetails]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetItemLotDetails]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetItemTransCount]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetItemTransCount]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetLotPickListForIssue]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetLotPickListForIssue]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetMetaTableList]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetMetaTableList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetRecInvFacRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetRecInvFacRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetRecInvManyInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetRecInvManyInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetRecInvOneInfo]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetRecInvOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetRecInvRpt]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetRecInvRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetRecInvTree]') and OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetRecInvTree]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetStockSummaryAnyRpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetStockSummaryAnyRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetStockSummaryLotAnyRpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetStockSummaryLotAnyRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetStockSummaryLotRpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetStockSummaryLotRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetStockSummaryLotwise]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetStockSummaryLotwise]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetStockSummaryRpt]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetStockSummaryRpt]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetSupplierDetails]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetSupplierDetails]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetSupplierList]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[GetSupplierList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetUnitOfMeasList]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetUnitOfMeasList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GetWarehouseOneInfo]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[GetWarehouseOneInfo]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[PostToStock_AdjInv]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[PostToStock_AdjInv]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[PostToStock_IssueInv]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[PostToStock_IssueInv]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[PostToStock_RecInv]') and
OBJECTPROPERTY(id, N'IsProcedure') = 1)
drop procedure [dbo].[PostToStock_RecInv]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[TestDSQL]') and OBJECTPROPERTY(id,
N'IsProcedure') = 1)
drop procedure [dbo].[TestDSQL]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[AdjInv]') and OBJECTPROPERTY(id,
N'IsUserTable') = 1)
drop table [dbo].[AdjInv]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[AdjInvItems]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[AdjInvItems]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[AdjType]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[AdjType]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Designation]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Designation]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[District]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[District]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Division]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Division]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Employee]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Employee]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FGroup]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[FGroup]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Facility]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Facility]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FormAccess]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[FormAccess]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[FormList]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[FormList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GatePass]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[GatePass]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[GatePassItems]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[GatePassItems]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Indent]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Indent]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[IndentDesig]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[IndentDesig]
```

GO

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[IndentItems]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[IndentItems]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[ItemGroup]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[ItemGroup]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[ItemList]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[ItemList]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[ItemListLot]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[ItemListLot]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[MetaTable]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[MetaTable]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[RecInv]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[RecInv]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[RecInvItems]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[RecInvItems]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[SQLLog]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[SQLLog]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[SQLUpdate]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[SQLUpdate]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Supplier]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Supplier]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[UnitOfMeas]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[UnitOfMeas]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[Warehouse]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[Warehouse]
GO
```

```
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[tmpStockDetails]') and OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[tmpStockDetails]
GO
```

```
CREATE TABLE [dbo].[AdjInv] (
    [InvNo] [int] NOT NULL ,
```

```

[FacilityCode] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
[FromFacility] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
[AdjType] [smallint] NOT NULL ,
[AdjRemarks] [varchar] (200) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
[PrepBy] [int] NOT NULL ,
[PrepDate] [datetime] NOT NULL ,
[AppBy1] [int] NOT NULL ,
[AppDate1] [datetime] NOT NULL ,
[IssuedBy] [int] NULL ,
[IssuedDate] [datetime] NULL ,
[bUpdated] [bit] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[AdjInvItems] (
    [ItemSI] [int] IDENTITY (1, 1) NOT NULL ,
    [InvNo] [int] NOT NULL ,
    [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [CurStockQty] [decimal](18, 0) NULL ,
    [IssueQty] [decimal](18, 0) NULL ,
    [MfgDate] [datetime] NULL ,
    [ExpDate] [datetime] NULL ,
    [LotNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[AdjType] (
    [AdjType] [smallint] NOT NULL ,
    [AdjTypeName] [varchar] (40) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [UsableIn] [smallint] NOT NULL ,
    [UsableOut] [smallint] NOT NULL ,
    [UnusableIn] [smallint] NOT NULL ,
    [UnusableOut] [smallint] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Designation] (
    [DesigCode] [smallint] NOT NULL ,
    [Designation] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[District] (
    [DistCode] [int] NOT NULL ,
    [DivCode] [smallint] NOT NULL ,
    [DistName] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Division] (
    [DivCode] [smallint] NOT NULL ,
    [DivName] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Employee] (
    [EmpCode] [int] NOT NULL ,
    [EmpName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [DesigCode] [smallint] NOT NULL ,
    [UserId] [varchar] (8) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [UserPwd] [varchar] (8) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [bActive] [bit] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[FGroup] (
    [FGroupCode] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [FGroupName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]

```

```

GO

CREATE TABLE [dbo].[Facility] (
    [FacilityCode] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [DistCode] [int] NOT NULL ,
    [FacilityName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [bShow] [bit] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[FormAccess] (
    [FormId] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [EmpCode] [int] NOT NULL ,
    [bAccess] [smallint] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[FormList] (
    [FormId] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [FormTitle] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[GatePass] (
    [GPassNo] [int] NOT NULL ,
    [DriverName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [VehicleNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [GPassDate] [datetime] NOT NULL ,
    [AppBy1] [int] NULL ,
    [AppBy2] [int] NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[GatePassItems] (
    [ItemSI] [int] IDENTITY (1, 1) NOT NULL ,
    [GPassNo] [int] NOT NULL ,
    [InvNo] [int] NOT NULL ,
    [InvType] [smallint] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Indent] (
    [InvNo] [int] NOT NULL ,
    [InvType] [smallint] NOT NULL ,
    [FacilityCode] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [IndentNo] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [PrepBy] [int] NOT NULL ,
    [PrepDate] [datetime] NOT NULL ,
    [AppBy1] [int] NOT NULL ,
    [AppDate1] [datetime] NOT NULL ,
    [IssuedBy] [int] NOT NULL ,
    [IssuedDate] [datetime] NOT NULL ,
    [IndentPrepBy] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [IndentPrepDate] [datetime] NULL ,
    [IndentPrepDesig] [smallint] NULL ,
    [IndentAppBy1] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [IndentAppDate1] [datetime] NULL ,
    [IndentAppDesig1] [smallint] NULL ,
    [bUpdated] [bit] NOT NULL ,
    [bDelivered] [bit] NOT NULL ,
    [Remarks] [varchar] (200) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[IndentDesig] (
    [DesigCode] [smallint] NOT NULL ,
    [Designation] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

```

```

CREATE TABLE [dbo].[IndentItems] (
    [ItemSI] [int] IDENTITY (1, 1) NOT NULL ,
    [InvNo] [int] NOT NULL ,
    [InvType] [smallint] NOT NULL ,
    [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [CurStockQty] [decimal](18, 0) NULL ,
    [ReqQty] [decimal](18, 0) NULL ,
    [IssueQty] [decimal](18, 0) NULL ,
    [MfgDate] [datetime] NULL ,
    [ExpDate] [datetime] NULL ,
    [LotNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[ItemGroup] (
    [GroupCode] [char] (3) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [GroupName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[ItemList] (
    [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [GroupCode] [char] (3) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [ItemName] [varchar] (150) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [InitStock] [decimal](18, 0) NOT NULL ,
    [InitStockUn] [decimal](18, 0) NOT NULL ,
    [UnitId] [smallint] NOT NULL ,
    [UsableQty] [decimal](18, 0) NOT NULL ,
    [UnusableQty] [decimal](18, 0) NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[ItemListLot] (
    [ItemListLotId] [int] IDENTITY (1, 1) NOT NULL ,
    [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [LotNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [MfgDate] [datetime] NULL ,
    [ExpDate] [datetime] NULL ,
    [InitLotQty] [decimal](18, 0) NULL ,
    [InitLotQtyUn] [decimal](18, 0) NULL ,
    [LotQty] [decimal](18, 0) NOT NULL ,
    [LotQtyUn] [decimal](18, 0) NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[MetaTable] (
    [MetaTable] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [MetaDesc] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[RecInv] (
    [InvNo] [int] NOT NULL ,
    [InvType] [smallint] NOT NULL ,
    [FacilityCode] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [SupCode] [int] NULL ,
    [SupRef] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [SupDate] [datetime] NOT NULL ,
    [FromFacility] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [ReceiptDate] [datetime] NOT NULL ,
    [ReceivedBy] [int] NOT NULL ,
    [bUpdated] [bit] NOT NULL ,
    [BLNo] [varchar] (200) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [BLDate] [datetime] NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[RecInvItems] (

```

```

        [ItemSI] [int] IDENTITY (1, 1) NOT NULL ,
        [InvNo] [int] NOT NULL ,
        [InvType] [smallint] NOT NULL ,
        [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
        [Qty] [decimal](18, 0) NULL ,
        [UnitPrice] [decimal](18, 0) NULL ,
        [MfgDate] [datetime] NULL ,
        [ExpDate] [datetime] NULL ,
        [LotNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
    ) ON [PRIMARY]
GO

CREATE TABLE [dbo].[SQLLog] (
    [LogSeq] [int] IDENTITY (1, 1) NOT NULL ,
    [UserName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Terminal] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [TStamp] [datetime] NOT NULL ,
    [SqlText] [varchar] (1000) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Copied] [bit] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[SQLUpdate] (
    [LogSeq] [int] IDENTITY (1, 1) NOT NULL ,
    [UserName] [varchar] (8) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Terminal] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [TStamp] [datetime] NOT NULL ,
    [SqlText] [varchar] (1000) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Updated] [bit] NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Supplier] (
    [SupCode] [int] NOT NULL ,
    [SupName] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Address] [varchar] (150) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [Phone] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [Fax] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [EMail] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[UnitOfMeas] (
    [UnitId] [smallint] NOT NULL ,
    [UnitName] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[Warehouse] (
    [FacilityCode] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [FacilityName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Address] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [InvPrepBy] [int] NULL ,
    [InvAppBy] [int] NULL ,
    [InvSupBy] [int] NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[tmpStockDetails] (
    [UCode] [char] (32) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [CurDate] [datetime] NOT NULL ,
    [GroupCode] [char] (3) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [GroupName] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [ItemCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [ItemName] [varchar] (150) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL ,
    [Supplier] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [Receiver] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [InvoiceNo] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,
    [StockDate] [datetime] NULL ,

```

```
[TotQtyIn] [decimal](18, 0) NULL ,  
[TotQtyOut] [decimal](18, 0) NULL ,  
[TotUnQtyIn] [decimal](18, 0) NULL ,  
[TotUnQtyOut] [decimal](18, 0) NULL ,  
[UnitName] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL ,  
[InvType] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL  
) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[AdjInv] WITH NOCHECK ADD  
    CONSTRAINT [PK_AdjInv] PRIMARY KEY CLUSTERED  
    (  
        [InvNo]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[AdjInvItems] WITH NOCHECK ADD  
    CONSTRAINT [PK_AdjInvItems] PRIMARY KEY CLUSTERED  
    (  
        [ItemSI]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[AdjType] WITH NOCHECK ADD  
    CONSTRAINT [PK_AdjType] PRIMARY KEY CLUSTERED  
    (  
        [AdjType]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[Designation] WITH NOCHECK ADD  
    CONSTRAINT [PK_Designation] PRIMARY KEY CLUSTERED  
    (  
        [DesigCode]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[District] WITH NOCHECK ADD  
    CONSTRAINT [PK_District] PRIMARY KEY CLUSTERED  
    (  
        [DistCode]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[Division] WITH NOCHECK ADD  
    CONSTRAINT [PK_Division] PRIMARY KEY CLUSTERED  
    (  
        [DivCode]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[Employee] WITH NOCHECK ADD  
    CONSTRAINT [PK_Employee] PRIMARY KEY CLUSTERED  
    (  
        [EmpCode]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[FGGroup] WITH NOCHECK ADD  
    CONSTRAINT [PK_FGGroup] PRIMARY KEY CLUSTERED  
    (  
        [FGGroupCode]  
    ) ON [PRIMARY]  
GO
```

```
ALTER TABLE [dbo].[Facility] WITH NOCHECK ADD  
    CONSTRAINT [PK_Facility] PRIMARY KEY CLUSTERED  
    (  
        [FacilityCode]  
    )
```

```
        ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[FormAccess] WITH NOCHECK ADD
    CONSTRAINT [PK_FormAccess] PRIMARY KEY CLUSTERED
    (
        [FormId],
        [EmpCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[FormList] WITH NOCHECK ADD
    CONSTRAINT [PK_FormList] PRIMARY KEY CLUSTERED
    (
        [FormId]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[GatePass] WITH NOCHECK ADD
    CONSTRAINT [PK_GatePass] PRIMARY KEY CLUSTERED
    (
        [GPassNo]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[GatePassItems] WITH NOCHECK ADD
    CONSTRAINT [PK_GatePassItems] PRIMARY KEY CLUSTERED
    (
        [ItemSI]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Indent] WITH NOCHECK ADD
    CONSTRAINT [PK_Indent] PRIMARY KEY CLUSTERED
    (
        [InvNo],
        [InvType]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[IndentDesig] WITH NOCHECK ADD
    CONSTRAINT [PK_IndentDesig] PRIMARY KEY CLUSTERED
    (
        [DesigCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[IndentItems] WITH NOCHECK ADD
    CONSTRAINT [PK_IndentItems] PRIMARY KEY CLUSTERED
    (
        [ItemSI]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[ItemGroup] WITH NOCHECK ADD
    CONSTRAINT [PK_ItemGroup] PRIMARY KEY CLUSTERED
    (
        [GroupCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[ItemList] WITH NOCHECK ADD
    CONSTRAINT [PK_ItemList] PRIMARY KEY CLUSTERED
    (
        [ItemCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[ItemListLot] WITH NOCHECK ADD
```

```
        CONSTRAINT [PK_ItemListLot] PRIMARY KEY CLUSTERED
        (
            [ItemListLotId]
        ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[MetaTable] WITH NOCHECK ADD
    CONSTRAINT [PK_MetaTable] PRIMARY KEY CLUSTERED
    (
        [MetaTable]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[RecInv] WITH NOCHECK ADD
    CONSTRAINT [PK_RecInv] PRIMARY KEY CLUSTERED
    (
        [InvNo],
        [InvType]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[RecInvItems] WITH NOCHECK ADD
    CONSTRAINT [PK_RecInvItems] PRIMARY KEY CLUSTERED
    (
        [ItemSI]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[SQLLog] WITH NOCHECK ADD
    CONSTRAINT [PK_SQLLog] PRIMARY KEY CLUSTERED
    (
        [LogSeq]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[SQLUpdate] WITH NOCHECK ADD
    CONSTRAINT [PK_SQLUpdate] PRIMARY KEY CLUSTERED
    (
        [LogSeq]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Supplier] WITH NOCHECK ADD
    CONSTRAINT [PK_Supplier] PRIMARY KEY CLUSTERED
    (
        [SupCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[UnitOfMeas] WITH NOCHECK ADD
    CONSTRAINT [PK_UnitOfMeas] PRIMARY KEY CLUSTERED
    (
        [UnitId]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Warehouse] WITH NOCHECK ADD
    CONSTRAINT [PK_Warehouse] PRIMARY KEY CLUSTERED
    (
        [FacilityCode]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[AdjInv] WITH NOCHECK ADD
    CONSTRAINT [DF_AdjInv_bUpdated] DEFAULT (0) FOR [bUpdated]
GO

ALTER TABLE [dbo].[AdjType] WITH NOCHECK ADD
    CONSTRAINT [DF_AdjType_UsableIn] DEFAULT (0) FOR [UsableIn],
```

```
CONSTRAINT [DF_AdjType_UsableOut] DEFAULT (0) FOR [UsableOut],
CONSTRAINT [DF_AdjType_UnusableIn] DEFAULT (0) FOR [UnusableIn],
CONSTRAINT [DF_AdjType_UnusableOut] DEFAULT (0) FOR [UnusableOut]
GO

ALTER TABLE [dbo].[Employee] WITH NOCHECK ADD
    CONSTRAINT [DF_Employee_EmpPwd] DEFAULT ('DFP') FOR [UserPwd],
    CONSTRAINT [DF_Employee_bActive] DEFAULT (1) FOR [bActive],
    CONSTRAINT [U_UserId] UNIQUE NONCLUSTERED
    (
        [UserId]
    ) ON [PRIMARY]
GO

ALTER TABLE [dbo].[Facility] WITH NOCHECK ADD
    CONSTRAINT [DF_Facility_bShow] DEFAULT (1) FOR [bShow]
GO

ALTER TABLE [dbo].[FormAccess] WITH NOCHECK ADD
    CONSTRAINT [DF_FormAccess_bAccess] DEFAULT (0) FOR [bAccess]
GO

ALTER TABLE [dbo].[Indent] WITH NOCHECK ADD
    CONSTRAINT [DF_Indent_bUpdated] DEFAULT (0) FOR [bUpdated],
    CONSTRAINT [DF_Indent_bDelivered] DEFAULT (0) FOR [bDelivered]
GO

ALTER TABLE [dbo].[ItemList] WITH NOCHECK ADD
    CONSTRAINT [DF_ItemList_InitStock] DEFAULT (0) FOR [InitStock],
    CONSTRAINT [DF_ItemList_InitStockUn] DEFAULT (0) FOR [InitStockUn],
    CONSTRAINT [DF_ItemList_UnitId] DEFAULT (0) FOR [UnitId],
    CONSTRAINT [DF_ItemList_UsableQty] DEFAULT (0) FOR [UsableQty],
    CONSTRAINT [DF_ItemList_UnusableQty] DEFAULT (0) FOR [UnusableQty]
GO

ALTER TABLE [dbo].[Reclnv] WITH NOCHECK ADD
    CONSTRAINT [DF_Reclnv_bUpdated] DEFAULT (0) FOR [bUpdated]
GO

ALTER TABLE [dbo].[SQLLog] WITH NOCHECK ADD
    CONSTRAINT [DF_SQLLog_Copied] DEFAULT (0) FOR [Copied]
GO

ALTER TABLE [dbo].[SQLUpdate] WITH NOCHECK ADD
    CONSTRAINT [DF_SQLUpdate_Updated] DEFAULT (0) FOR [Updated]
GO

CREATE UNIQUE INDEX [U_AdjTypeName] ON [dbo].[AdjType]([AdjTypeName]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_Designation] ON [dbo].[Designation]([Designation]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_DistName] ON [dbo].[District]([DistName]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_DivName] ON [dbo].[Division]([DivName]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_FacilityName] ON [dbo].[Facility]([FacilityName]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_Designation] ON [dbo].[IndentDesig]([Designation]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_GroupName] ON [dbo].[ItemGroup]([GroupName]) ON [PRIMARY]
GO

CREATE INDEX [IX_MetaTable] ON [dbo].[MetaTable]([MetaTable]) ON [PRIMARY]
```

```
GO

CREATE UNIQUE INDEX [U_SupName] ON [dbo].[Supplier]([SupName]) ON [PRIMARY]
GO

CREATE UNIQUE INDEX [U_UnitName] ON [dbo].[UnitOfMeas]([UnitName]) ON [PRIMARY]
GO

ALTER TABLE [dbo].[AdjInv] ADD
    CONSTRAINT [FK_AdjInv_AdjType] FOREIGN KEY
    (
        [AdjType]
    ) REFERENCES [dbo].[AdjType] (
        [AdjType]
    ),
    CONSTRAINT [FK_AdjInv_Facility] FOREIGN KEY
    (
        [FacilityCode]
    ) REFERENCES [dbo].[Facility] (
        [FacilityCode]
    ),
    CONSTRAINT [FK_AdjInv_Facility1] FOREIGN KEY
    (
        [FromFacility]
    ) REFERENCES [dbo].[Facility] (
        [FacilityCode]
    )
)
GO

ALTER TABLE [dbo].[AdjInvItems] ADD
    CONSTRAINT [FK_AdjInvItems_AdjInv] FOREIGN KEY
    (
        [InvNo]
    ) REFERENCES [dbo].[AdjInv] (
        [InvNo]
    )
)
GO

ALTER TABLE [dbo].[District] ADD
    CONSTRAINT [FK_District_Division] FOREIGN KEY
    (
        [DivCode]
    ) REFERENCES [dbo].[Division] (
        [DivCode]
    )
)
GO

ALTER TABLE [dbo].[Employee] ADD
    CONSTRAINT [FK_Employee_Designation] FOREIGN KEY
    (
        [DesigCode]
    ) REFERENCES [dbo].[Designation] (
        [DesigCode]
    )
)
GO

ALTER TABLE [dbo].[Facility] ADD
    CONSTRAINT [FK_Facility_District] FOREIGN KEY
    (
        [DistCode]
    ) REFERENCES [dbo].[District] (
        [DistCode]
    )
)
GO

ALTER TABLE [dbo].[FormAccess] ADD
    CONSTRAINT [FK_FormAccess_Employee] FOREIGN KEY
    (
        [EmpCode]
    )
```

```
        ) REFERENCES [dbo].[Employee] (
            [EmpCode]
        ),
    CONSTRAINT [FK_FormAccess_FormList] FOREIGN KEY
    (
        [FormId]
    ) REFERENCES [dbo].[FormList] (
        [FormId]
    )
GO

ALTER TABLE [dbo].[GatePassItems] ADD
    CONSTRAINT [FK_GatePassItems_GatePass] FOREIGN KEY
    (
        [GPassNo]
    ) REFERENCES [dbo].[GatePass] (
        [GPassNo]
    ) ON UPDATE CASCADE ,
    CONSTRAINT [FK_GatePassItems_Indent] FOREIGN KEY
    (
        [InvNo],
        [InvType]
    ) REFERENCES [dbo].[Indent] (
        [InvNo],
        [InvType]
    )
GO

ALTER TABLE [dbo].[Indent] ADD
    CONSTRAINT [FK_Indent_Facility] FOREIGN KEY
    (
        [FacilityCode]
    ) REFERENCES [dbo].[Facility] (
        [FacilityCode]
    )
GO

ALTER TABLE [dbo].[IndentItems] ADD
    CONSTRAINT [FK_IndentItems_Indent] FOREIGN KEY
    (
        [InvNo],
        [InvType]
    ) REFERENCES [dbo].[Indent] (
        [InvNo],
        [InvType]
    )
GO

ALTER TABLE [dbo].[ItemList] ADD
    CONSTRAINT [FK_ItemList_ItemGroup] FOREIGN KEY
    (
        [GroupCode]
    ) REFERENCES [dbo].[ItemGroup] (
        [GroupCode]
    ),
    CONSTRAINT [FK_ItemList_UnitOfMeas] FOREIGN KEY
    (
        [UnitId]
    ) REFERENCES [dbo].[UnitOfMeas] (
        [UnitId]
    )
GO

ALTER TABLE [dbo].[ItemListLot] ADD
    CONSTRAINT [FK_ItemListLot_ItemList] FOREIGN KEY
    (
        [ItemCode]
    ) REFERENCES [dbo].[ItemList] (
        [ItemCode]
    )
```

```
        ) ON DELETE CASCADE ON UPDATE CASCADE  
GO
```

```
ALTER TABLE [dbo].[RecInv] ADD  
    CONSTRAINT [FK_RecInv_Facility] FOREIGN KEY  
    (  
        [FacilityCode]  
    ) REFERENCES [dbo].[Facility] (  
        [FacilityCode]  
    ),  
    CONSTRAINT [FK_RecInv_Facility1] FOREIGN KEY  
    (  
        [FromFacility]  
    ) REFERENCES [dbo].[Facility] (  
        [FacilityCode]  
    ),  
    CONSTRAINT [FK_RecInv_Supplier] FOREIGN KEY  
    (  
        [SupCode]  
    ) REFERENCES [dbo].[Supplier] (  
        [SupCode]  
    )  
GO
```

```
ALTER TABLE [dbo].[RecInvItems] ADD  
    CONSTRAINT [FK_RecInvItems_RecInv] FOREIGN KEY  
    (  
        [InvNo],  
        [InvType]  
    ) REFERENCES [dbo].[RecInv] (  
        [InvNo],  
        [InvType]  
    )  
GO
```

```
CREATE TRIGGER Insert_ItemListLot ON [dbo].[ItemList]  
FOR INSERT  
AS
```

```
declare @pItemCode as varchar(20)  
declare @pInitQty as decimal  
declare @pInitQtyUn as decimal
```

```
select @pItemCode=inserted.ItemCode, @pInitQty=inserted.InitStock, @pInitQtyUn=inserted.InitStockUn  
from inserted
```

```
insert into ItemListLot (ItemCode, InitLotQty, InitLotQtyUn, LotQty, LotQtyUn) values  
(@pItemCode, @pInitQty, @pInitQtyUn, isnull(@pInitQty,0), isnull(@pInitQtyUn,0))
```

```
GO
```

Stored Procedures

There are a total of 59 stored procedures in WIMS. Some stored procedures are used in data entry forms and some for report data source. The stored procedures used in data entry forms are described here. Stored procedures used in reports are discussed in the Reports section.

GetAdjInvManyInfo

Returns item details information from a specific adjustment invoice. In an adjustment invoice data entry form, when an adjustment invoice is selected from the left-side tree, this procedure is referred to as "get the item details information of the adjustment invoice."

Parameters:

@InvNo—adjustment invoice number

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.GetAdjInvManyInfo
```

```
(
    @InvNo integer
```

```
)
AS
```

```
SELECT AdjInvItems.ItemSI, AdjInvItems.ItemCode, ItemList.ItemName, UnitOfMeas.UnitName,
AdjInvItems.IssueQty, AdjInvItems.ExpDate, AdjInvItems.LotNo, AdjInvItems.MfgDate,
AdjInvItems.CurStockQty
FROM UnitOfMeas INNER JOIN (ItemList INNER JOIN AdjInvItems ON ItemList.ItemCode =
AdjInvItems.ItemCode) ON UnitOfMeas.UnitId = ItemList.UnitId
where InvNo=@InvNo
order by ItemSI
```

```
GO
```

GetAdjInvOneInfo

Returns basic information from a specific adjustment invoice. In an adjustment invoice data entry form, when an adjustment invoice is selected from the left-side tree, this procedure is referred to as "get the basic information of the adjustment invoice."

Parameters:

@InvNo—adjustment invoice number

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.GetAdjInvOneInfo
```

```
(
    @InvNo integer
```

```
)
AS
```

```
SELECT AdjInv.InvNo, AdjInv.FacilityCode, AdjInv.FromFacility,
AdjInv.PreparedBy, AdjInv.PreparedDate, AdjInv.AppBy1, AdjInv.AppDate1,
AdjInv.IssuedBy, AdjInv.IssuedDate,
AdjInv.AdjRemarks, AdjInv.AdjType, AdjInv.bUpdated
From AdjInv where InvNo=@InvNo
```

```
GO
```

GetAdjInvTree

This procedure returns a list of adjustment invoice numbers to appear in the tree of frmAdjInv form. A subset of data is returned based on start and end date criteria. Also, one can search a specific invoice can be done.

Parameters:

@SqlType—parameter to generate different types of output; 0: returns only invoice numbers, 1: returns adjustment type & invoice number, 2: returns date and invoice number, 999: find a specific invoice

@pSDate—start date from which invoices should be listed

@pEDate—end date from which invoices should be listed

@InvNo—adjustment invoice number

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.GetAdjInvTree
(
    @SqlType integer,
    @pSDate varchar(10),
    @pEDate varchar(10),
    @InvNo integer
)
AS

if @SqlType=0
    select InvNo from AdjInv
        where PrepDate between @pSDate and @pEDate
        order by InvNo desc
else if @SqlType=1
    select AdjTypeName, InvNo
    from AdjInv inner join AdjType on AdjInv.AdjType=AdjType.AdjType
        where PrepDate between @pSDate and @pEDate
        order by AdjtypeName, InvNo desc
else if @SqlType=2
    select PrepDate, InvNo from AdjInv
        where PrepDate between @pSDate and @pEDate
        order by PrepDate desc, InvNo desc
else if @SqlType=9999
    select InvNo from AdjInv
        where InvNo=@InvNo
        and PrepDate between @pSDate and @pEDate

GO
```

GetAdjTypeList

Procedure returns list of adjustment types. This list of records appears in a combo to be selected during entry of adjustment invoice.

Parameters: None

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.GetAdjTypeList AS

select AdjType, AdjTypeName from AdjType order by AdjTypeName

GO
```

GetDesigList

Procedure returns list of employee designations. This list of records appears in a combo to be selected during entry of employee.

Parameters: None

Referenced In: frmEmployee form

```
CREATE PROCEDURE dbo.GetDesigList AS
```

```
select DesigCode, Designation from Designation order by Designation
```

```
GO
```

GetDistDetails

Procedure returns information for a single district. When a specific district is selected in district entry form, this procedure returns the data of a specific district to appear in the data entry fields.

Parameters:

@DistCode—specific district code

Referenced In: frmDistrict form

```
CREATE PROCEDURE dbo.GetDistDetails
```

```
(
    @DistCode integer
)
```

```
AS
```

```
select DistCode, DistName, DivCode
from District where DistCode=@DistCode
```

```
GO
```

GetDistTree

Procedure returns list of district codes to appear in the tree of frmDistrict form. Also, the list of records appears for selection of district during facility entry.

Parameters:

@SqlType—parameter to generate different types of output; 0: returns districts grouped by division,

1: returns districts ordering by name only

Referenced In: frmFacility form, frmDistrict form

```
CREATE PROCEDURE dbo.GetDistTree
```

```
( @SqlType integer ) AS
```

```
if @SqlType=0
```

```
    select District.DivCode, DivName, DistCode, DistName
    from District INNER JOIN Division ON District.DivCode=Division.DivCode
    order by DivName, DistName
```

```
else if @SqlType=1
```

```
    select DistCode, DistName
    from District
    order by DistName
```

```
GO
```

GetDivisionList

Procedure returns list of divisions of Bangladesh. This list of records is appears in a combo to be selected during entry of district.

Parameters: None

Referenced In: frmDistrict form

```
CREATE PROCEDURE dbo.GetDivisionList AS
```

```
select DivCode, DivName from Division order by DivName
```

```
GO
```

GetEmpAccess

With an employee code, procedure returns list of forms the user can access and his or her permissions. This information is retrieved as soon as an employee logs into the system, so that his or her access can be monitored.

Parameters:

@EmpCode—employee code

Referenced In: frmLogin form

```
CREATE PROCEDURE dbo.GetEmpAccess
```

```
(  
    @EmpCode int
```

```
)  
AS
```

```
select FormId, bAccess  
from FormAccess where EmpCode=@EmpCode
```

```
GO
```

GetEmpList

Procedure returns list of employees. This list of records appears in a combo to be selected during entry of different types of receive and issue invoices.

Parameters: None

Referenced In: frmRecInv form, frmIssueIndent form, frmAdjInv form, frmGatePass form, frmIssueInv form, frmRecInvFac form

```
CREATE PROCEDURE dbo.GetEmpList AS
```

```
select EmpCode, EmpName from Employee order by EmpName
```

```
GO
```

GetEmpListForOpt

Procedure returns list of employees. This list of records appears in a combo to be selected during entry of different options.

Parameters: None

Referenced In: frmOptions form

```
CREATE PROCEDURE dbo.GetEmpListForOpt AS
```

```
select EmpCode, EmpName, Designation
from Employee inner join Designation on Employee.DesigCode=Designation.DesigCode
order by EmpName
```

```
GO
```

GetEmpListLogin

Procedure returns list of employees. This list of records appears in a combo during initial log on.

Parameters: None

Referenced In: frmLogin form

```
CREATE PROCEDURE dbo.GetEmpListLogin AS
```

```
select UserID, UserPwd, EmpCode, EmpName
from Employee order by UserID
```

```
GO
```

GetEmpManyInfo

With an employee code, procedure returns list of forms or reports with permissions of specific employees.

Parameters:

@EmpCode—employee code

@SqlType—returns list of forms or reports with employee permission

'FORMS'—returns form list

'REPORTS'—returns list of reports

Referenced In: frmEmployee form

```
CREATE PROCEDURE dbo.GetEmpManyInfo
```

```
(
    @EmpCode integer,
    @SqlType varchar(10)
)
```

```
AS
```

```
if @SqlType='FORMS'
```

```
    SELECT FormList.FormTitle, FormList.FormId, a.bAccess
    FROM FormList LEFT JOIN
        (select FormId, bAccess from FormAccess where EmpCode=@EmpCode) a
        ON FormList.FormId = a.FormId
    ORDER BY FormList.FormTitle
```

```
else if @SqlType='REPORTS'
```

```
    SELECT ReportList.ReportTitle, ReportList.ReportId, a.bAccess
    FROM ReportList LEFT JOIN
        (select ReportId, bAccess from ReportAccess where EmpCode=@EmpCode) a
        ON ReportList.ReportId = a.ReportId
    ORDER BY ReportList.ReportTitle
```

GO

GetEmpOneInfo

With an employee code, procedure returns basic employee information. When an employee is selected in a tree of frmEmployee form, this procedure provides the basic employee data to appear in the data entry fields.

Parameters:

@EmpCode—employee code

Referenced In: frmEmployee form

```
CREATE PROCEDURE dbo.GetEmpOneInfo
(
    @EmpCode integer
)
AS
```

```
select EmpCode, EmpName, DesigCode, UserId, UserPwd, bActive
from Employee where EmpCode=@EmpCode
```

GO

GetEmpTree

Procedure returns list of employee names to appear in the tree of frmEmployee form. Can also be used to find a specific employee.

Parameters:

@SqlType—parameter to generate different types of output. 0: returns employee code and name and sort by code; 1: returns employee code and name and sort by name, 999: given an employee name, finds an employee, 9999: given an employee code, finds an employee

Referenced In: frmEmployee form

```
CREATE PROCEDURE dbo.GetEmpTree
(
    @SqlType integer,
    @pEmpName varchar(100),
    @pEmpCode integer
)
AS
```

```
if @SqlType=0
    select EmpCode, EmpName from Employee
    order by EmpCode
else if @SqlType=1
    select EmpCode, EmpName from Employee
    order by EmpName
else if @SqlType=999
    select EmpCode from Employee
    where EmpName like @pEmpName
    order by EmpName
else if @SqlType=9999
    select EmpCode from Employee
    where EmpCode=@pEmpCode
GO
```

GetFGroupList

Procedure returns list of facility groups. This list of records appears in a combo to be selected when entering a facility.

Parameters: None

Referenced In: frmFacility form

```
CREATE PROCEDURE dbo.GetFGroupList AS
```

```
select FGroupCode, FGroupName from FGroup order by FGroupName
```

```
GO
```

GetFacilityDetails

Procedure returns information about a single facility. When a specific facility is selected on a facility entry form, this procedure returns the data of a specific facility to appear in the data entry fields.

Parameters:

@FacilityCode—specific facility code

Referenced In: frmFacility form

```
CREATE PROCEDURE dbo.GetFacilityDetails
```

```
(  
    @FacilityCode varchar(4)
```

```
)
```

```
AS
```

```
select left(FacilityCode,1) as FGroup, right(FacilityCode,len(FacilityCode)-1) as FCode,  
FacilityCode, DistCode, FacilityName, bShow  
from Facility where FacilityCode=@FacilityCode
```

```
GO
```

GetFacilityList

Procedure returns list of facilities. This list of records appears in a combo to be selected during date entry or selection.

Parameters: None

Referenced In: frmIssueInv form, frmRecInvFac form, frmReports form, frmIssueIndent form, frmAdjInv form

```
CREATE PROCEDURE dbo.GetFacilityList AS
```

```
select FacilityCode, FacilityName from Facility order by FacilityName
```

```
GO
```

GetFacilityListForOpt

Procedure returns list of warehouses. This list of records appears in a combo to be selected during data entry or selection.

Parameters: None

Referenced In: frmOptions form

```
CREATE PROCEDURE dbo.GetFacilityListForOpt AS

select FacilityCode, FacilityName
from Facility where left(FacilityCode,1) in ('C','D','R')
order by FacilityName

GO
```

GetFacilityTree

This procedure returns list of facilities to appear in the tree of frmFacility form.

Parameters:

@SqlType—parameter to generate different types of output. 0: returns facility names grouped by district, 1: returns facility names grouped by facility group

Referenced In: frmFacility form

```
CREATE PROCEDURE dbo.GetFacilityTree
(
    @SqlType integer
)
AS

if @SqlType=0
    select Facility.DistCode, DistName, FacilityCode, FacilityName
    from Facility INNER JOIN District ON Facility.DistCode=District.DistCode
    order by DistName, FacilityName
else if @SqlType=1
    select FGroupName, FacilityCode, FacilityName
    from FGroup INNER JOIN (
        select left(FacilityCode,1) as FGroup, FacilityCode, FacilityName
        from Facility
    ) FFacility on FGroup.FGroupName=FFacility.FGroup
    order by FGroupName, FacilityName

GO
```

GetGPassManyInfo

Given a Gate Pass number, procedure returns information regarding invoices that are linked to this Gate Pass.

Parameters:

@GPassNo—Gate Pass number

Referenced In: frmGatePass form

```
CREATE PROCEDURE dbo.GetGPassManyInfo
(
    @GPassNo integer
)
AS
```

```
select ItemSI, InvNo, InvType from GatePassItems
where GPassNo=@GPassNo order by ItemSI
```

GO

GetGPassOneInfo

Given a Gate Pass number, procedure returns information regarding a Gate Pass.

Parameters:

@GPassNo—Gate Pass number

Referenced In: frmGatePass form

```
CREATE PROCEDURE dbo.GetGPassOneInfo
(
    @GPassNo integer
)
AS
```

```
select GPassNo, DriverName, VehicleNo, GPassDate, AppBy1, AppBy2
from GatePass where GPassNo=@GPassNo
```

GO

GetGPassTree

This procedure returns list of Gate Pass numbers to appear in the tree of frmGatePass form.

Parameters:

@SqlType—parameter to generate different types of output; 0: returns Gate Pass numbers only, 1: returns Gate Pass numbers grouped by date, 9999—given a Gate Pass number, find data for that Gate Pass

Referenced In: frmGatePass form

```
CREATE PROCEDURE dbo.GetGPassTree
(
    @SqlType integer,
    @pSDate varchar(10),
    @pEDate varchar(10),
    @GPassNo integer
)
AS
```

```
if @SqlType=0
    select GPassNo from GatePass
        where GPassDate between @pSDate and @pEDate
        order by GPassNo desc
else if @SqlType=1
    select GPassDate, GPassNo from GatePass
        where GPassDate between @pSDate and @pEDate
        order by GPassDate desc, GPassNo desc
else if @SqlType=9999
    select GPassNo from GatePass
        where GPassDate between @pSDate and @pEDate
        and GPassNo=@GPassNo
```

GO

GetGroupDetails

Procedure returns information for a single item group. When a specific item group is selected in item group entry form, this procedure returns the data of a specific item group to appear in the data entry fields.

Parameters:

@GroupCode—specific group code

Referenced In: frmItemGroup form

```
CREATE PROCEDURE dbo.GetGroupDetails
(
    @GroupCode char(3)
)
AS
```

```
select GroupCode, GroupName from ItemGroup
where GroupCode=@GroupCode
```

GO

GetGroupList

Procedure returns list of item groups. This list of records appears in a combo to be selected during date entry or selection.

Parameters:

@SqlType—criteria to produce different list of records; 0: selects only group code and names, 1: together with group codes and names, adds an extra item 'ALL' for selection during report criteria selection

Referenced In: frmItemGroup form, frmStockSummary form, frmReports form, frmItemList form, frmItemGroup form

```
CREATE PROCEDURE dbo.GetGroupList
(
    @SqlType integer
)
AS
```

```
if @SqlType=0
    select GroupCode, GroupName from ItemGroup
    order by GroupName
if @SqlType=1
    select distinct '(ALL)' as GroupCode, '(ALL)' as GroupName from ItemGroup
    union all
    select GroupCode, GroupName from ItemGroup
    order by GroupName
```

GO

GetIndentDesigList

Procedure returns list of designation of indentors. This list of records appears in a combo to be selected during date entry.

Parameters: None

Referenced In: frmIssueInv form, frmIssueIndent form

```
CREATE PROCEDURE dbo.GetIndentDesigList AS
```

```
select DesigCode, Designation from IndentDesig order by Designation
```

GO

GetInvForGPass

Procedure returns list of invoices ready to be delivered. This list of records appears for pickup during Gate Pass entry.

Parameters: None

Referenced In: frmSelectInv form

```
CREATE PROCEDURE dbo.GetInvForGPass AS
```

```
SELECT Indent.FacilityCode, FacilityName, InvType, Indent.InvNo
FROM Indent inner join Facility on Indent.FacilityCode=Facility.FacilityCode
where bDelivered=0 and bUpdated=1
order by 1, 2, 3
```

```
GO
```

GetIssueInvManyInfo

Given an invoice number, procedure returns item details of the specific issue voucher.

Parameters:

@SqlType—different list of records depending on value; 0: returns item records for indent invoice, 1: returns item records for push issue invoice

@InvType—type of invoice; 1: push invoice, 2: indent invoice

@InvNo—issue invoice number

Referenced In: frmIssueInv form, frmIssueIndent form

```
CREATE PROCEDURE dbo.GetIssueInvManyInfo
```

```
(
    @SqlType integer,
    @InvType integer, @InvNo integer
)
```

```
AS
```

```
if @SqlType=0
```

```
    SELECT IndentItems.ItemSI, IndentItems.ItemCode, ItemList.ItemName,
    UnitOfMeas.UnitName,
    IndentItems.ReqQty, IndentItems.IssueQty, IndentItems.ExpDate, IndentItems.LotNo,
    IndentItems.MfgDate, IndentItems.CurStockQty
    FROM UnitOfMeas INNER JOIN (ItemList INNER JOIN IndentItems ON ItemList.ItemCode =
    IndentItems.ItemCode) ON UnitOfMeas.UnitId = ItemList.UnitId
    where InvType=@InvType and InvNo=@InvNo
    order by ItemSI
```

```
if @SqlType=1
```

```
    SELECT IndentItems.ItemSI, IndentItems.ItemCode, ItemList.ItemName,
    UnitOfMeas.UnitName,
    IndentItems.ReqQty, IndentItems.IssueQty, IndentItems.ExpDate, IndentItems.LotNo,
    IndentItems.MfgDate, IndentItems.CurStockQty
    FROM UnitOfMeas INNER JOIN (ItemList INNER JOIN IndentItems ON ItemList.ItemCode =
    IndentItems.ItemCode) ON UnitOfMeas.UnitId = ItemList.UnitId
    where InvType=@InvType and InvNo=@InvNo
    order by ItemSI
```

```
GO
```

GetIssueInvOneInfo

Given an invoice number, procedure returns data from the issue invoice master table.

Parameters:

@SqlType—different list of records depending on value; 0: returns data for indent invoice, 1: returns data for push issue invoice

@InvType—type of invoice; 1: push invoice, 2: indent invoice

@InvNo—issue invoice number

Referenced In: frmIssueInv form, frmIssueIndent form

```
CREATE PROCEDURE dbo.GetIssueInvOneInfo
```

```
(
    @SqlType integer,
    @InvType integer, @InvNo integer
)
AS
```

```
if @SqlType=0
```

```
    SELECT Indent.InvNo, Indent.FacilityCode, Indent.IndentNo, Indent.IndentPrepBy,
    Indent.IndentPrepDesig, Indent.IndentPrepDate, Indent.IndentAppBy1,
    Indent.IndentAppDesig1,
    Indent.IndentAppDate1, Indent.PrepareBy, Indent.PrepareDate, Indent.AppBy1, Indent.AppDate1,
    Indent.IssuedBy, Indent.IssuedDate, Indent.bUpdated, Indent.Remarks
    From Indent where InvType=@InvType and InvNo=@InvNo
```

```
else if @SqlType=1
```

```
    SELECT Indent.InvNo, Indent.FacilityCode,
    Indent.PrepareBy, Indent.PrepareDate, Indent.AppBy1, Indent.AppDate1,
    Indent.IssuedBy, Indent.IssuedDate, Indent.bUpdated, Indent.Remarks
    From Indent where InvType=@InvType and InvNo=@InvNo
```

```
GO
```

GetIssueInvTree

This procedure returns list of issue invoice numbers to appear in the tree of issue invoice entry forms.

Parameters:

@SqlType—parameter to generate different types of output; 0: returns only invoice numbers, 1: returns invoice numbers grouped by facility, 2: returns invoice numbers grouped by date, 9999: given an invoice number, find data for that invoice

Referenced In: frmIssueInv form, frmIssueIndent form

```
CREATE PROCEDURE dbo.GetIssueInvTree
```

```
(
    @SqlType integer,
    @InvType integer,
    @pSDate varchar(10),
    @pEDate varchar(10),
    @InvNo integer
)
AS
```

```
if @SqlType=0
```

```
    select InvNo from Indent
    where InvType=@InvType
    and PrepDate between @pSDate and @pEDate
    order by InvNo desc
```

```
else if @SqlType=1
```

```
    select FacilityName, InvNo
    from Indent inner join Facility on Indent.FacilityCode=Facility.FacilityCode
```

```

        where InvType=@InvType
        and PrepDate between @pSDate and @pEDate
        order by FacilityName, InvNo desc
else if @SqlType=2
    select PrepDate, InvNo from Indent
        where InvType=@InvType
        and PrepDate between @pSDate and @pEDate
        order by PrepDate desc, InvNo desc
else if @SqlType=9999
    select InvNo from Indent
        where InvType=@InvType and InvNo=@InvNo
        and PrepDate between @pSDate and @pEDate
        order by InvNo desc

GO

```

GetItemCurStockQty

Given batch information of a specific product, this procedure returns the current available quantity of that item in stock.

Parameters:

@ItemCode—item code

@LotNo—lot/batch number

@MfgDate—manufacturing date of the batch

@ExpDate—expiry date of the batch

Referenced In: frmAdjInv form, frmIssueInv form, frmIssueIndent form

```

CREATE PROCEDURE dbo.GetItemCurStockQty
(
    @ItemCode varchar(100),
    @LotNo varchar(100),
    @MfgDate varchar(100),
    @ExpDate varchar(100)
)
AS

    select LotQty, LotQtyUn
    from ItemListLot
    where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate=@MfgDate

GO

```

GetItemDetailsNew

This procedure returns a list of items used during data entry or item selection during report printing.

Parameters:

@GroupCode—item group code

@SqlType—returns different set of records; 0: returns a list of items for entry/editing, 1: returns a list of items for selection while report is printing

@OrderBy—records will be sorted by this field

@ItemName—can filter a subset of items based on this string pattern

Referenced In: frmItemList form, frmReports form

```

CREATE PROCEDURE dbo.GetItemDetailsNew
(
    @GroupCode char(10), @SqlType integer, @OrderBy integer, @ItemName varchar(150)
)

```

```

AS
declare @StrSql nvarchar(2000)
declare @StrCriteria nvarchar(1000)

if @SqlType=0
begin
    set @StrSql = 'select ItemList.ItemCode, ItemList.ItemName, ItemList.InitStock,
ItemList.InitStockUn, ' +
        'ItemList.UnitId, UnitOfMeas.UnitName ' +
        'from ItemList inner join UnitOfMeas on ItemList.UnitId=UnitOfMeas.UnitId '

    set @StrCriteria = ""
    if @GroupCode <> '(ALL)'
        set @StrCriteria = ' GroupCode=' + char(39) + @GroupCode + char(39)
    if isnull(@ItemName, '') <> ""
    begin
        if @StrCriteria <> ""
            set @StrCriteria = @StrCriteria + ' and '
        set @StrCriteria = @StrCriteria + ' ItemName like ' + char(39) + '%' + @ItemName
+ '%' + char(39)
    end
    if @StrCriteria <> ""
        set @StrSql = @StrSql + ' where ' + @StrCriteria
    if @OrderBy=0
        set @StrSql = @StrSql + ' order by ItemList.ItemCode'
    else if @OrderBy=1
        set @StrSql = @StrSql + ' order by ItemList.ItemName'

    exec sp_executesql @StrSql
end
else if @SqlType=1
select ItemName, ItemCode
from ItemList
where GroupCode=@GroupCode
order by ItemName

GO

```

GetItemListSelection

This procedure returns a list of items used during invoice entry.

Parameters:

@SqlType—returns different set of records; 0: returns a list of items by item name, 1: returns a list of items with current usable stock quantity, 2: returns a list of items with non-zero stock, 3: select item list used during adjustment invoice entry, 4: returns item list with unusable quantity in stock

Referenced In: frmRecInv form, frmAdjInv form, frmRecInvFac form

```

CREATE PROCEDURE dbo.GetItemListSelection
(
    @SqlType integer
)
AS

if @SqlType=0
select ItemName, ItemCode, UnitName
from ItemList LEFT JOIN UnitOfMeas ON ItemList.UnitId=UnitOfMeas.UnitId
order by ItemName
else if @SqlType=1
select ItemName, ItemCode, UnitName, isnull(UsableQty,0) as NZUsableQty

```

```

        from ItemList LEFT JOIN UnitOfMeas ON ItemList.UnitId=UnitOfMeas.UnitId
        order by ItemName
else if @SqlType=2
    select ItemName, ItemCode, UnitName, isnull(UsableQty,0) as NZUsableQty
    from ItemList LEFT JOIN UnitOfMeas ON ItemList.UnitId=UnitOfMeas.UnitId
    where UsableQty > 0
    order by ItemName
else if @SqlType=3
    select ItemName, '' as ItemListLotId, ItemCode, '' as CLotNo, '' as CMfgDate, '' as CExpDate, ''
as LotQty, UnitName
    from ItemList LEFT JOIN UnitOfMeas ON ItemList.UnitId=UnitOfMeas.UnitId
    order by ItemName
else if @SqlType=4
    select ItemName, ItemCode, UnitName, isnull(UnUsableQty,0) as NZUnUsableQty
    from ItemList LEFT JOIN UnitOfMeas ON ItemList.UnitId=UnitOfMeas.UnitId
    where UnusableQty > 0
    order by ItemName

```

GO

GetItemLotDetails

Given a product code, this procedure returns the lotwise details of that particular item.

Parameters:

@ItemCode—item code

Referenced In: frmItemListLot form

```

CREATE PROCEDURE dbo.GetItemLotDetails
(
    @ItemCode varchar(100)
) AS

```

```

    select ItemListLotId, LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, InitLotQty, InitLotQtyUn
    from ItemListLot
    where ItemCode=@ItemCode
    order by ExpDate desc

```

GO

GetItemTransCount

This procedure determines whether a specific item has transactions, also returns the transaction count. Used during item data entry, if TransCount > 0, cannot edit total initial quantity and lotwise initial quantity of item.

Parameters:

@ItemCode—item code

@TransCount—returns number of transactions of the item; 0 otherwise

Referenced In: frmItemListLot form, frmItemList form

```

CREATE PROCEDURE dbo.GetItemTransCount

```

```

(
    @ItemCode varchar(100), @TransCount integer output
)
AS

```

```

declare @tmpCount integer, @mainCount integer

```

```

    set @mainCount=0

```

```

    select @tmpCount=count(ItemSI) from RecInvItems where ItemCode=@ItemCode

```

```

set @mainCount = @mainCount + @tmpCount

select @tmpCount=count(ItemSI) from IndentItems where ItemCode=@ItemCode
set @mainCount = @mainCount + @tmpCount

select @tmpCount=count(ItemSI) from AdjInvItems where ItemCode=@ItemCode
set @mainCount = @mainCount + @tmpCount

set @TransCount = @mainCount

```

GO

GetLotPickListForIssue

This procedure determines whether a specific item has transactions, also returns the transaction count.

Parameters:

@SqlType—returns set of records, 0 -

@GroupCode—filters records by group

Referenced In: frmAdjInv form, frmIssueInv form, frmIssueIndent form

```
CREATE PROCEDURE dbo.GetLotPickListForIssue
```

```

(
    @SqlType integer,
    @GroupCode varchar(100)
)
AS

if @SqlType=0
    if @GroupCode='(ALL)'
        select ItemName, ItemListLotId, ItemListLot.ItemCode, isnull(LotNo,' ') as CLotNo,
            isnull(convert(char(10),MfgDate,103),'') as CMfgDate,
            isnull(convert(char(10),ExpDate,103),'') as CExpDate, LotQty, UnitName
        from ItemListLot inner join (ItemList INNER JOIN UnitOfMeas on
            ItemList.UnitId=UnitOfMeas.UnitId) on ItemListLot.ItemCode=ItemList.ItemCode
        where LotQty > 0
        order by ItemName, ExpDate
    else
        select ItemName, ItemListLotId, ItemListLot.ItemCode, LotNo, MfgDate, ExpDate,
LotQty
        from ItemListLot inner join ItemList on ItemListLot.ItemCode=ItemList.ItemCode
        where GroupCode=@GroupCode and LotQty > 0
        order by ItemName, ExpDate
else if @SqlType=1
    if @GroupCode='(ALL)'
        select ItemName, ItemListLotId, ItemListLot.ItemCode, isnull(LotNo,' ') as CLotNo,
            isnull(convert(char(10),MfgDate,103),'') as CMfgDate,
            isnull(convert(char(10),ExpDate,103),'') as CExpDate, LotQtyUn, UnitName
        from ItemListLot inner join (ItemList INNER JOIN UnitOfMeas on
            ItemList.UnitId=UnitOfMeas.UnitId) on ItemListLot.ItemCode=ItemList.ItemCode
        where LotQtyUn > 0
        order by ItemName, ExpDate
    else
        select ItemName, ItemListLotId, ItemListLot.ItemCode, LotNo, MfgDate, ExpDate,
LotQtyUn
        from ItemListLot inner join ItemList on ItemListLot.ItemCode=ItemList.ItemCode
        where GroupCode=@GroupCode and LotQtyUn > 0
        order by ItemName, ExpDate

```

GO

GetMetaTableList

Get the list of lookup tables to be edited using lookup tables list.

Parameters: None

Referenced In: frmMetaTables form

```
CREATE PROCEDURE dbo.GetMetaTableList AS
```

```
select MetaTable, MetaDesc from MetaTable order by MetaTable
```

```
GO
```

GetRecInvManyInfo

This procedure returns received item list information from a specific receive invoice.

Parameters:

@InvType—type of invoice; 1: external receive, 2: receive from another warehouse

@InvNo—specific invoice number

Referenced In: frmRecInv form, frmRecInvFac form

```
CREATE PROCEDURE dbo.GetRecInvManyInfo
```

```
(
    @InvType integer, @InvNo integer
```

```
)
AS
```

```
select RecInvItems.ItemSI, RecInvItems.ItemCode, ItemList.ItemName, UnitOfMeas.UnitName,
RecInvItems.Qty, RecInvItems.UnitPrice, RecInvItems.ExpDate, RecInvItems.LotNo,
RecInvItems.MfgDate
```

```
from UnitOfMeas INNER JOIN (ItemList INNER JOIN RecInvItems ON
ItemList.ItemCode = RecInvItems.ItemCode) ON UnitOfMeas.UnitId = ItemList.UnitId
where InvType=@InvType and InvNo=@InvNo
order by ItemSI
```

```
GO
```

GetRecInvOneInfo

This procedure returns basic information regarding a specific receive invoice.

Parameters:

@InvType—type of invoice; 1: external receive, 2: receive from another warehouse

@InvNo—specific invoice number

Referenced In: frmRecInv form, frmRecInvFac form

```
CREATE PROCEDURE dbo.GetRecInvOneInfo
```

```
(
    @InvType integer, @InvNo integer
```

```
)
AS
```

```
select InvNo, InvType, FacilityCode, SupCode, SupRef, SupDate,
FromFacility, ReceiptDate, ReceivedBy, bUpdated, BLNo, BLDate
from RecInv where InvType=@InvType and InvNo=@InvNo
```

```
GO
```

GetRecInvTree

This procedure returns a list of receive invoice numbers to appear in the tree of frmRecInv and frmRecInvFac form. A subset of data is returned based on start and end date criteria. Also, a specific invoice can be searched.

Parameters:

@SqlType—parameter to generate different types of output; 0: returns only invoice numbers, 1: returns date & invoice number, 9999: find a specific invoice

@pSDate—start date from which invoices should be listed

@pEDate—end date from which invoices should be listed

@InvNo—receive invoice number

Referenced In: frmRecInv form, frmrecInvFac form

```
CREATE PROCEDURE dbo.GetRecInvTree
(
    @SqlType integer,
    @InvType integer,
    @pSDate varchar(10),
    @pEDate varchar(10),
    @InvNo integer
)
AS

if @SqlType=0
    select InvNo from RecInv
        where InvType=@InvType
        and ReceiptDate between @pSDate and @pEDate
        order by InvNo desc
else if @SqlType=1
    select ReceiptDate, InvNo from RecInv
        where InvType=@InvType
        and ReceiptDate between @pSDate and @pEDate
        order by ReceiptDate desc, InvNo desc
else if @SqlType=9999
    select InvNo from RecInv
        where InvType=@InvType and InvNo=@InvNo
        and ReceiptDate between @pSDate and @pEDate
        order by InvNo desc

GO
```

GetStockSummaryLotwise

This procedure returns lotwise stock status of a specific item on a specific date.

Parameters:

@pItem—item code for which to generate lotwise information

@pNonZero—?

@pBalDate—stock status as of this date

Referenced In: frmStockLotSummary form

```
CREATE PROCEDURE dbo.GetStockSummaryLotwise
(
    @pItem varchar(10),
    @pNonZero integer,
    @pBalDate varchar(20)
)
)
```

AS

```

declare @StrSql nvarchar(2000)
declare @Criteria nvarchar(500)

set @StrSql =
'select ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemCode, ItemList.ItemName,
LotNo, MfgDate, ExpDate,
sum(QtyIn-QtyOut) as UsableQty, sum(UnQtyIn-UnQtyOut) as UnusableQty, UnitName ' +
'from UnitOfMeas inner join (ItemGroup inner join (ItemList inner join (' +
'select ItemCode, LotNo, MfgDate, ExpDate, InitLotQty as QtyIn, 0 as QtyOut, InitLotQtyUn as
UnQtyIn, 0 as UnQtyOut ' +
'from ItemListLot ' +
'UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, sum(Qty) as QtyIn, 0 as QtyOut, 0 as UnQtyIn, 0 as
UnQtyOut ' +
'from RecInv INNER JOIN RecInvItems ON (RecInv.InvNo = RecInvItems.InvNo) AND (RecInv.InvType
= RecInvItems.InvType) ' +
'where bUpdated=1 and ReceiptDate <= ' + char(39) + @pBalDate + char(39) + ' group by
ItemCode, LotNo, MfgDate, ExpDate UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, 0 as QtyIn, sum(IssueQty) as QtyOut, 0 as UnQtyIn, 0
as UnQtyOut ' +
'from Indent INNER JOIN IndentItems ON (Indent.InvNo = IndentItems.InvNo) AND (Indent.InvType
= IndentItems.InvType) ' +
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' and IssueQty is not
NULL group by ItemCode, LotNo, MfgDate, ExpDate UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, sum(IssueQty*usablein) as QtyIn,
sum(IssueQty*usableout) as QtyOut, sum(IssueQty*unusablein) as UnQtyIn,
sum(IssueQty*unusableout) as UnQtyOut ' +
'from AdjType INNER JOIN (AdjInv INNER JOIN AdjInvItems ON (AdjInv.InvNo = AdjInvItems.InvNo))
ON AdjType.AdjType=AdjInv.AdjType ' +
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' group by
ItemCode, LotNo, MfgDate, ExpDate ' +
') a on a.ItemCode = ItemList.ItemCode) on ItemGroup.GroupCode = ItemList.GroupCode) on
UnitOfMeas.UnitId = ItemList.UnitId '

if isnull(@pItem,"") <> ""
    set @StrSql = @StrSql + ' where ItemList.ItemCode=' + char(39) + @pItem + char(39)
set @StrSql = @StrSql + ' group by ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemName,
UnitName, ItemList.ItemCode, LotNo, MfgDate, ExpDate '

exec sp_executesql @StrSql

```

GO

GetSupplierDetails

When provided the supplier code, this procedure returns detailed information about a supplier.

Parameters:

@SupCode—supplier code

Referenced In: frmSupplier form

```

CREATE PROCEDURE dbo.GetSupplierDetails
(
    @SupCode int
)
AS

```

```

select SupCode, SupName, Address, Phone, Fax, EMail from supplier
where SupCode=@SupCode

```

GO

GetSupplierList

This procedure returns the list of suppliers so it can appear in a selection list during data entry.

Parameters: None

Referenced In: frmSupplier form, frmReclnv form

```
CREATE PROCEDURE dbo.GetSupplierList AS
```

```
select SupCode, SupName from Supplier order by SupName
```

GO

GetUnitOfMeasList

This procedure returns the list of units of measurement so it can appear in a selection list during data entry.

Parameters: None

Referenced In: frmItemList form

```
CREATE PROCEDURE dbo.GetUnitOfMeasList AS
```

```
select UnitId, UnitName from UnitOfMeas  
order by UnitName
```

GO

GetWarehouseOneInfo

This procedure returns the data regarding current warehouse.

Parameters: None

Referenced In: frmOptions form

```
CREATE PROCEDURE dbo.GetWarehouseOneInfo AS
```

```
select FacilityCode, FacilityName, Address, InvPrepBy, InvAppBy, InvSupBy  
from Warehouse
```

GO

PostToStock_AdjInv

This procedure deducts the item quantities on the specific adjustment invoice from stock. Total number of records updated is returned. Total stock quantity is updated in ItemList table, and lotwise item quantity is updated in ItemListLot table.

Parameters:

@InvNo—adjustment invoice number

@Adjtype—type of adjustment

@RecCount—total number of records updated

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.PostToStock_AdjInv  
(
```

```

        @InvNo integer,
        @AdjType integer,
        @RecCount integer output
    )
AS

begin transaction

declare @ItemCode varchar(10), @IssueQty decimal, @LotNo varchar(100), @MfgDate datetime,
@ExpDate datetime
declare @tmpCount integer, @UpdCount integer
declare @ItemUsableQty integer, @ItemUnusableQty integer

declare c_AdjInvItems cursor for
select ItemCode, IssueQty, LotNo, MfgDate, ExpDate from AdjInvItems
where InvNo=@InvNo

open c_AdjInvItems

set @UpdCount=0
fetch next from c_AdjInvItems into @ItemCode,@IssueQty,@LotNo,@Mfgdate,@ExpDate
while @@FETCH_STATUS=0
begin
    set @tmpCount=0

    select @ItemUsableQty = UsableQty, @ItemUnusableQty = UnusableQty from ItemList where
ItemCode=@ItemCode
    if @AdjType=2 or @AdjType=5
        begin
            if isnull(@ItemUsableQty,0)-isnull(@IssueQty,0) < 0
                begin
                    rollback
                    set @RecCount = -1
                    return
                end
        end
    if @AdjType=6
        begin
            if isnull(@ItemUnusableQty,0)-isnull(@IssueQty,0) < 0
                begin
                    rollback
                    set @RecCount = -1
                    return
                end
        end
    end

    update ItemList set UsableQty =
        case
            when @AdjType=1 or @AdjType=3 then isnull(UsableQty,0)+isnull(@IssueQty,0)
            when @AdjType=2 or @AdjType=5 then isnull(UsableQty,0)-isnull(@IssueQty,0)
            else isnull(UsableQty,0)
        end
    ,UnusableQty =
        case
            when @AdjType=4 or @AdjType=5 then isnull(UnusableQty,0)+isnull(@IssueQty,0)
            when @AdjType=6 then isnull(UnusableQty,0)-isnull(@IssueQty,0)
            else isnull(UnusableQty,0)
        end
    where ItemCode=@ItemCode
    set @tmpCount = @@ROWCOUNT

```

```

if @LotNo is null and @ExpDate is null and @MfgDate is null
    update ItemListLot set LotQty =
        case
            when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
            when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
            else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
            when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
            when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
            else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and MfgDate is null
else if @LotNo is not null and @ExpDate is null and @MfgDate is null
    update ItemListLot set LotQty =
        case
            when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
            when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
            else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
            when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
            when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
            else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and MfgDate is
null
else if @LotNo is null and @ExpDate is not null and @MfgDate is null
    update ItemListLot set LotQty =
        case
            when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
            when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
            else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
            when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
            when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
            else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and MfgDate
is null
else if @LotNo is null and @ExpDate is null and @MfgDate is not null
    update ItemListLot set LotQty =
        case
            when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
            when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
            else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case

```

```

        when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
        when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
        else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and
MfgDate=@MfgDate
        else if @LotNo is not null and @ExpDate is not null and @MfgDate is null
        update ItemListLot set LotQty =
        case
        when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
        when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
        else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
        when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
        when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
        else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate is null
        else if @LotNo is null and @ExpDate is not null and @MfgDate is not null
        update ItemListLot set LotQty =
        case
        when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
        when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
        else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
        when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
        when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
        else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and
MfgDate=@MfgDate
        else if @LotNo is not null and @ExpDate is null and @MfgDate is not null
        update ItemListLot set LotQty =
        case
        when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
        when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
        else isnull(LotQty,0)
        end
        ,LotQtyUn =
        case
        when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
        when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
        else isnull(LotQtyUn,0)
        end
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and
MfgDate=@MfgDate
        else
        update ItemListLot set LotQty =
        case

```

```

        when @AdjType=1 or @AdjType=3 then
isnull(LotQty,0)+isnull(@IssueQty,0)
        when @AdjType=2 or @AdjType=5 then isnull(LotQty,0)-isnull(@IssueQty,0)
        else isnull(LotQty,0)
    end
    ,LotQtyUn =
    case
        when @AdjType=4 or @AdjType=5 then
isnull(LotQtyUn,0)+isnull(@IssueQty,0)
        when @AdjType=6 then isnull(LotQtyUn,0)-isnull(@IssueQty,0)
        else isnull(LotQtyUn,0)
    end
    where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate=@MfgDate
    set @tmpCount = @tmpCount + @@ROWCOUNT

    if @tmpCount=1
    begin
        if @AdjType=1 or @AdjType=3
        begin
            insert into ItemListLot (ItemCode, LotNo, MfgDate,ExpDate,LotQty)
            values (@ItemCode,@LotNo,@MfgDate,@Expdate,@IssueQty)
            set @tmpCount = @tmpCount + @@ROWCOUNT
        end
        if @AdjType=4
        begin
            insert into ItemListLot (ItemCode, LotNo, MfgDate,ExpDate,LotQty,LotQtyUn)
            values (@ItemCode,@LotNo,@MfgDate,@Expdate,0,@IssueQty)
            set @tmpCount = @tmpCount + @@ROWCOUNT
        end
    end
end

    if @tmpCount = 2
        set @UpdCount = @UpdCount + 1
        fetch next from c_AdjInvItems into @ItemCode,@IssueQty,@LotNo,@Mfgdate,@ExpDate
end

close c_AdjInvItems
deallocate c_AdjInvItems

if @UpdCount > 0
begin
    update AdjInv set bUpdated=1 where InvNo=@InvNo
    commit
    set @RecCount = @UpdCount
end

GO

```

PostToStock_IssueInv

This procedure deducts the item quantities of the specific issue invoice from stock. Total number of records updated is returned. Total stock quantity is updated in ItemList table, and lotwise item quantity is updated in ItemListLot table.

Parameters:

@InvType—type of issue invoice: push or indent

@InvNo—adjustment invoice number

@RecCount—total number of records updated

Referenced In: frmIssueInv form, frmIssueIndent form

```

CREATE PROCEDURE dbo.PostToStock_IssueInv
(
    @InvType integer,
    @InvNo integer,
    @RecCount integer output
)
AS

begin transaction

declare @ItemCode varchar(10), @IssueQty decimal, @LotNo varchar(100), @MfgDate datetime,
@ExpDate datetime
declare @tmpCount integer, @UpdCount integer
declare @ItemUsableQty integer

declare c_IndentItems cursor for
select ItemCode, IssueQty, LotNo, MfgDate, ExpDate from IndentItems
where InvType=@InvType and InvNo=@InvNo

open c_IndentItems

set @UpdCount=0
fetch next from c_IndentItems into @ItemCode,@IssueQty,@LotNo,@Mfgdate,@ExpDate
while @@FETCH_STATUS=0
begin
    set @tmpCount=0

    select @ItemUsableQty = UsableQty from ItemList where ItemCode=@ItemCode
    if isnull(@ItemUsableQty,0)-isnull(@IssueQty,0) >= 0
        begin
            update ItemList set UsableQty = isnull(UsableQty,0)-isnull(@IssueQty,0)
            where ItemCode=@ItemCode
            set @tmpCount = @@ROWCOUNT
        end
    else
        begin
            rollback
            set @RecCount = -1
            return
        end

    if @LotNo is null and @ExpDate is null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and MfgDate is null
    else if @LotNo is not null and @ExpDate is null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and MfgDate is
null
    else if @LotNo is null and @ExpDate is not null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and MfgDate
is null
    else if @LotNo is null and @ExpDate is null and @MfgDate is not null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and
MfgDate=@MfgDate
    else if @LotNo is not null and @ExpDate is not null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate is null
    else if @LotNo is null and @ExpDate is not null and @MfgDate is not null

```

```

        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and
MfgDate=@MfgDate
        else if @LotNo is not null and @ExpDate is null and @MfgDate is not null
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and
MfgDate=@MfgDate
        else
        update ItemListLot set LotQty = isnull(LotQty,0)-isnull(@IssueQty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate=@MfgDate
        set @tmpCount = @tmpCount + @@ROWCOUNT

        if @tmpCount = 2
            set @UpdCount = @UpdCount + 1
        fetch next from c_IndentItems into @ItemCode,@IssueQty,@LotNo,@Mfgdate,@ExpDate
    end

close c_IndentItems
deallocate c_IndentItems

if @UpdCount > 0
begin
    update Indent set bUpdated=1 where InvType=@InvType and InvNo=@InvNo
    commit
    set @RecCount = @UpdCount
end

GO

```

PostToStock_Reclnv

This procedure adds up the item quantities from stock of the specific receive invoice. Total number of records updated is returned. Total stock quantity is updated in ItemList table, and lotwise item quantity is updated in ItemListLot table.

Parameters:

@InvType—type of receive invoice: receive from external supplier or from warehouse

@InvNo—adjustment invoice number

@RecCount—total number of records updated

Referenced In: frmRecInv form, frmRecInvFac form

```

CREATE PROCEDURE dbo.PostToStock_Reclnv
(
    @InvType integer,
    @InvNo integer,
    @RecCount integer output
)
AS

begin transaction

declare @ItemCode varchar(10), @Qty decimal, @LotNo varchar(100), @MfgDate datetime,
@ExpDate datetime
declare @tmpCount integer, @UpdCount integer

declare c_ReclnvItems cursor for
select ItemCode, Qty, LotNo, MfgDate, ExpDate from ReclnvItems
where InvType=@InvType and InvNo=@InvNo

open c_ReclnvItems

```

```

set @UpdCount=0
fetch next from c_Reclnvltems into @ItemCode,@Qty,@LotNo,@Mfgdate,@ExpDate
while @@FETCH_STATUS=0
begin
    set @tmpCount=0

    update ItemList set UsableQty = isnull(UsableQty,0)+isnull(@Qty,0)
    where ItemCode=@ItemCode
    set @tmpCount = @@ROWCOUNT

    if @LotNo is null and @ExpDate is null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and MfgDate is null
    else if @LotNo is not null and @ExpDate is null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and MfgDate is
null
    else if @LotNo is null and @ExpDate is not null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and MfgDate
is null
    else if @LotNo is null and @ExpDate is null and @MfgDate is not null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate is null and
MfgDate=@MfgDate
    else if @LotNo is not null and @ExpDate is not null and @MfgDate is null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate is null
    else if @LotNo is null and @ExpDate is not null and @MfgDate is not null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo is null and ExpDate=@ExpDate and
MfgDate=@MfgDate
    else if @LotNo is not null and @ExpDate is null and @MfgDate is not null
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate is null and
MfgDate=@MfgDate
    else
        update ItemListLot set LotQty = isnull(LotQty,0)+isnull(@Qty,0)
        where ItemCode=@ItemCode and LotNo=@LotNo and ExpDate=@ExpDate and
MfgDate=@MfgDate
    set @tmpCount = @tmpCount + @@ROWCOUNT

    if @tmpCount=1
    begin
        insert into ItemListLot (ItemCode, LotNo, MfgDate,ExpDate,LotQty)
        values (@ItemCode,@LotNo,@MfgDate,@Expdate,@Qty)
        set @tmpCount = @tmpCount + @@ROWCOUNT
    end

    if @tmpCount = 2
        set @UpdCount = @UpdCount + 1
    fetch next from c_Reclnvltems into @ItemCode,@Qty,@LotNo,@Mfgdate,@ExpDate
end

close c_Reclnvltems
deallocate c_Reclnvltems

if @UpdCount > 0
begin

```

```
update RecInv set bUpdated=1 where InvType=@InvType and InvNo=@InvNo
commit
set @RecCount = @UpdCount
end
GO
```

WIMS Menu Structure

- File
 - Exit
- Parameters
 - Item Groups...
 - Item List...
 - Suppliers...
- Invoice
 - Receive from Supplier...
 - Transfer/Receive from Warehouse...
 - Issue Voucher (Indent)...
 - Issue Voucher (Push)...
 - Gate Pass...
 - Adjustment Invoice...
- Stock
 - Stock Balance...
 - Stock Reports...
- Administration
 - Login...
 - Logout...
 - Change Password...
 - Employees...
 - Districts...
 - Facility List...
 - Lookup Tables...
 - Backup Database...
 - Options...
- Window
- Help
 - Contents...
 - About WIMS...

Reports

AdjInv.rpt

This report prints any Adjustment Invoice.

Stored Procedure Name: GetAdjInvRpt

Parameters:

@InvNo—Adjustment Invoice number to print

Tables Used: AdjInv, AdjInvItems, ItemList, Facility, UnitOfMeas, Employee

Referenced In: frmAdjInv form

```
CREATE PROCEDURE dbo.GetAdjInvRpt
```

```
(
```

```
    @InvNo integer
```

```
)
```

```
AS
```

```
SELECT AdjInv.InvNo, AdjInv.FacilityCode, Facility.FacilityName, AdjInv.bUpdated,
AdjInv.AdjRemarks, AdjInvItems.ItemSl,
AdjInvItems.ItemCode, ItemList.ItemName, UnitOfMeas.UnitName, AdjInvItems.IssueQty,
AdjInvItems.ExpDate,
(select EmpName from Employee where EmpCode=AdjInv.PrepBy) AS NamePrepBy,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=AdjInv.PrepBy) AS DesigPrepBy,
AdjInv.PrepDate,
(select EmpName from Employee where EmpCode=AdjInv.AppBy1) AS NameAppBy1,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=AdjInv.AppBy1) AS DesigAppBy1,
AdjInv.AppDate1,
(select EmpName from Employee where EmpCode=AdjInv.IssuedBy) AS NameIssuedBy,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=AdjInv.issuedBy) AS DesigIssuedBy,
AdjInv.IssuedDate, AdjInvItems.LotNo,
(select FacilityName from Facility where FacilityCode=AdjInv.fromFacility) AS FromFacilityName
FROM UnitOfMeas INNER JOIN (ItemList INNER JOIN ((Facility INNER JOIN AdjInv ON
Facility.FacilityCode = AdjInv.FacilityCode) INNER JOIN AdjInvItems ON (AdjInv.InvNo =
AdjInvItems.InvNo))
ON ItemList.ItemCode = AdjInvItems.ItemCode) ON UnitOfMeas.UnitId = ItemList.UnitId
WHERE AdjInv.InvNo=@InvNo
```

```
GO
```

Districts.rpt

Prints the list of districts in Bangladesh.

Stored Procedure Name: None (based on ad hoc query)

Parameters: None

Tables Used: District, Division

Referenced In: frmDistrict form

```
SELECT
```

```
    Division.DivName,
```

```
    District.DistCode, District.DistName
```

```
FROM
```

```
    Division INNER JOIN District ON Division.DivCode = District.DivCode
```

```

WHERE
    Division.DivCode = District.DivCode
ORDER BY
    Division.DivName, District.DistName;

```

FacilityList.rpt

Prints the list of facilities in the system, which are sorted according to their group and then by name.
 Stored Procedure Name: GetFacilityListRpt
 Parameters: None
 Tables Used: FGroup, Facility, District
 Referenced In: frmFacility form

```

CREATE PROCEDURE dbo.GetFacilityListRpt AS

SELECT [FGroup].[FGroupName], [District].[DistName], [Facility].[FacilityCode],
[Facility].[FacilityName]
FROM FGroup INNER JOIN (District INNER JOIN Facility ON [District].[DistCode]=[Facility].[DistCode])
ON [FGroup].[FGroupCode]=left([Facility].[FacilityCode],1)
Order by [FGroup].[FGroupName], [Facility].[FacilityName]

GO

```

FacilityListByDist.rpt

Prints the list of facilities in the system, which are grouped based on district and then by name.
 Stored Procedure Name: GetFacilityListRpt
 Parameters: None
 Tables Used: FGroup, Facility, District
 Referenced In: frmFacility form

```

CREATE PROCEDURE dbo.GetFacilityListRpt AS

SELECT [FGroup].[FGroupName], [District].[DistName], [Facility].[FacilityCode],
[Facility].[FacilityName]
FROM FGroup INNER JOIN (District INNER JOIN Facility ON [District].[DistCode]=[Facility].[DistCode])
ON [FGroup].[FGroupCode]=left([Facility].[FacilityCode],1)
Order by [FGroup].[FGroupName], [Facility].[FacilityName]

GO

```

GatePass.rpt

Prints the master part of a Gate Pass.
 Stored Procedure Name: GetGatePassRpt
 Parameter:
 @GPassNo—Gate Pass number to print
 Tables Used: GatePass, GatePassItems, Indent, Facility
 Referenced In: frmGatePass form

```

CREATE PROCEDURE dbo.GetGatePassRpt
(
    @GPassNo integer
)
AS

```

```

SELECT GatePass.GPassNo, GPassDate, DriverName, VehicleNo, GatePassItems.InvNo, FacilityName,
GatePassItems.InvType
FROM GatePass INNER JOIN (GatePassItems INNER JOIN (Indent INNER JOIN Facility ON
Indent.FacilityCode=facility.FacilityCode) ON GatePassItems.InvType=Indent.InvType and
GatePassItems.InvNo=Indent.InvNo)
ON GatePass.GPassNo=GatePassItems.GPassNo
WHERE GatePass.GPassNo=@GPassNo

```

GO

GatePassItems.rpt

This subreport prints the details part of a Gate Pass.

Stored Procedure Name: GetGatePassItemsRpt

Parameters: None

Tables Used: GatePassItems, Indent, Facility

Referenced In: frmGatePass form

```

CREATE PROCEDURE dbo.GetGatePassItemsRpt
AS

```

```

SELECT GPassNo, GatePassItems.InvNo, FacilityName, GatePassItems.InvType
FROM GatePassItems INNER JOIN (Indent INNER JOIN Facility ON
Indent.FacilityCode=facility.FacilityCode) ON GatePassItems.InvType=Indent.InvType and
GatePassItems.InvNo=Indent.InvNo

```

GO

IndentInv.rpt, IssueInv.rpt

Both of these reports print any issue invoice. IndentInv prints only invoices based on indent, and IssueInv prints push issue invoices.

Stored Procedure Name: GetIssueInvRpt

Parameters:

@InvType—type of issue invoice; 1: push, 2: indent

@InvNo—Invoice no. to print

Tables Used: Indent, IndentItems, Facility, UnitOfMeas, ItemList, GatePass, GatePassItems, Warehouse, Employee

Referenced In: frmIssueIndent form, frmIssueInv form

```

CREATE PROCEDURE dbo.GetIssueInvRpt
(

```

```

    @InvType integer,
    @InvNo integer
)

```

AS

```

SELECT Indent.InvType, Indent.InvNo, Indent.IndentNo, Indent.IndentPrepDate,
(select FacilityName from Warehouse) as FromFacility,
Indent.FacilityCode, Facility.FacilityName, Indent.bUpdated, IndentItems.ItemSI,
IndentItems.ItemCode, ItemList.ItemName, UnitOfMeas.UnitName, IndentItems.ReqQty,
IndentItems.IssueQty, IndentItems.ExpDate,
(select EmpName from Employee where EmpCode=Indent.PrepBy) AS NamePrepBy,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=Indent.PrepBy) AS DesigPrepBy,
Indent.PrepDate,

```

```
(select EmpName from Employee where EmpCode=Indent.AppBy1) AS NameAppBy1,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=Indent.AppBy1) AS DesigAppBy1,
Indent.AppDate1,
(select EmpName from Employee where EmpCode=Indent.IssuedBy) AS NameIssuedBy,
(select Designation from Designation inner join Employee on
Designation.DesigCode=Employee.DesigCode where EmpCode=Indent.issuedBy) AS DesigIssuedBy,
Indent.IssuedDate,
DriverName, VehicleNo, Indent.Remarks, IndentItems.LotNo
FROM ((Facility INNER JOIN Indent ON Facility.FacilityCode = Indent.FacilityCode) INNER JOIN
(UnitOfMeas INNER JOIN (ItemList INNER JOIN IndentItems ON ItemList.ItemCode =
IndentItems.ItemCode) ON
UnitOfMeas.UnitId = ItemList.UnitId) ON (Indent.InvType = IndentItems.InvType) AND
(Indent.InvNo = IndentItems.InvNo)) LEFT JOIN (GatePass INNER JOIN GatePassItems ON
GatePass.GPassNo = GatePassItems.GPassNo) ON (Indent.InvType = GatePassItems.InvType) AND
(Indent.InvNo = GatePassItems.InvNo)
WHERE Indent.InvType=@InvType and Indent.InvNo=@InvNo
order by IndentItems.ItemSI
```

GO

ItemGroups.rpt

Prints the list of Item Groups in the database.

Stored Procedure Name: None (based on ItemGroup Table)

Parameters: None

Tables Used: ItemGroup

Referenced In: frmItemGroup form

RecInv.rpt

Prints receive invoices that receive commodities from external supplier.

Stored Procedure Name: GetRecInvRpt

Parameters:

@InvType—type of receive invoice; 1: receive from external source, 2: internal transfer from warehouse to warehouse

@InvNo—invoice number to print

Tables Used: RecInv, RecInvItems, Supplier, UnitOfMeas, Employee, ItemList

Referenced In: frmRecInv form

```
CREATE PROCEDURE dbo.GetRecInvRpt
```

```
(
    @InvType integer,
    @InvNo integer
```

```
)
AS
```

```
SELECT RecInv.InvType, RecInv.InvNo, RecInv.ReceiptDate, Employee.EmpName,
Supplier.SupName, RecInv.SupRef, RecInv.SupDate, RecInv.bUpdated,
RecInvItems.ItemSI, RecInvItems.ItemCode, ItemList.ItemName,
UnitOfMeas.UnitName, RecInvItems.Qty, RecInvItems.UnitPrice, RecInvItems.ExpDate,
RecInvItems.MfgDate, RecInvItems.LotNo, RecInv.BLNo, RecInv.BLDate
FROM UnitOfMeas INNER JOIN (Supplier INNER JOIN ((Employee INNER JOIN RecInv
ON Employee.EmpCode = RecInv.ReceivedBy) INNER JOIN (ItemList INNER JOIN
RecInvItems ON ItemList.ItemCode = RecInvItems.ItemCode) ON
RecInv.InvType = RecInvItems.InvType and RecInv.InvNo = RecInvItems.InvNo) ON
Supplier.SupCode = RecInv.SupCode)
```

```
ON UnitOfMeas.UnitId = ItemList.UnitId
WHERE RecInv.InvType=@InvType and RecInv.InvNo=@InvNo
```

GO

RecInvFac.rpt

Prints receive invoices that transfer commodities from one warehouse to another.

Stored Procedure Name: GetRecInvFacRpt

Parameters:

@InvType—type of receive invoice; 1: receive from external source, 2: internal transfer from warehouse to warehouse

@InvNo—invoice number to print

Tables Used: RecInv, RecInvItems, UnitOfMeas, Employee, ItemList, Facility

Referenced In: frmrecInvfac form

```
CREATE PROCEDURE dbo.GetRecInvFacRpt
```

```
(
    @InvType integer,
    @InvNo integer
```

```
)
AS
```

```
SELECT RecInv.InvType, RecInv.InvNo, RecInv.ReceiptDate, Employee.EmpName,
Facility.FacilityName, RecInv.SupRef, RecInv.SupDate, RecInv.bUpdated,
RecInvItems.ItemSI, RecInvItems.ItemCode, ItemList.ItemName,
UnitOfMeas.UnitName, RecInvItems.Qty, RecInvItems.UnitPrice, RecInvItems.ExpDate,
RecInvItems.MfgDate, RecInvItems.LotNo, RecInv.BLNo, RecInv.BLDate
FROM UnitOfMeas INNER JOIN (Facility INNER JOIN ((Employee INNER JOIN RecInv
ON Employee.EmpCode = RecInv.ReceivedBy) INNER JOIN (ItemList INNER JOIN
RecInvItems ON ItemList.ItemCode = RecInvItems.ItemCode) ON
RecInv.InvType = RecInvItems.InvType and RecInv.InvNo = RecInvItems.InvNo) ON
Facility.FacilityCode = RecInv.FromFacility)
ON UnitOfMeas.UnitId = ItemList.UnitId
WHERE RecInv.InvType=@InvType and RecInv.InvNo=@InvNo
```

GO

StockDetails.rpt

Prints detailed transactions of a specific item. Parameters are selected from a selection form, which computes and pre-fills tmpStockDetails table. This table data are used to display the report.

Stored Procedure Name: None (tmpStockDetails Table)

Parameters: None

Tables Used: tmpStockDetails Table

Referenced In: frmStockDetails form, frmReports form

StockDetails_byFacility.rpt

Prints detailed transactions for a specific facility. Parameters are selected from a selection form that computes and pre-fills tmpStockDetails table. This table data are used to illustrate the report.

Stored Procedure Name: None (tmpStockDetails Table)

Parameters: None

Tables Used: tmpStockDetails Table

Referenced In: frmStockDetails form, frmReports form

StockSummary.rpt

Prints the summary stock of commodities as of the current date.

Stored Procedure Name: GetStockSummaryRpt

Parameters:

@pGroup—specific Item Group for which stock summary will be printed, i.e., CON, IEM. An empty string is passed to print stock summary of all groups.

@pNonZero—0: prints only non-zero items, 1: prints only zero items, 2: prints both zero and non-zero items (all items)

Tables Used: UnitOfMeas, ItemGroup, ItemList

Referenced In: frmStockSummary form, frmReports form

```

CREATE PROCEDURE dbo.GetStockSummaryRpt
(
    @pGroup varchar(10),
    @pNonZero integer
)
AS

if isnull(@pGroup,"") <> ""
    begin
        if @pNonZero=2
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemGroup.ItemName,
            ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where ItemGroup.GroupCode=@pGroup
        else if @pNonZero=0
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemGroup.ItemName,
            ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where ItemGroup.GroupCode=@pGroup and
            (ItemList.UsableQty > 0 or ItemList.UnusableQty>0)
        else if @pNonZero=1
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemGroup.ItemName,
            ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where ItemGroup.GroupCode=@pGroup and
            (ItemList.UsableQty = 0 and ItemList.UnusableQty = 0)
    end
else
    begin
        if @pNonZero=2
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemGroup.ItemName,
            ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where ItemGroup.GroupCode=@pGroup and
            (ItemList.UsableQty = 0 and ItemList.UnusableQty = 0)
        else if @pNonZero=0
    end

```

```

        SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
        ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
        FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemList.GroupCode =
        ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
        where (ItemList.UsableQty > 0 or ItemList.UnusableQty>0)
    else if @pNonZero=1
        SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
        ItemList.UsableQty, ItemList.UnusableQty, UnitOfMeas.UnitName
        FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN ItemList ON
ItemList.GroupCode =
        ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
        where (ItemList.UsableQty = 0 and ItemList.UnusableQty = 0)
    end
GO

```

StockSummaryAny.rpt

Prints the summary stock of commodities as of a previous date.

Stored Procedure Name: GetStockSummaryAnyRpt

Parameters:

@pGroup—specific Item Group for which stock summary will be printed, i.e., CON, IEM. An empty string is passed to print stock summary of all groups.

@pNonZero—0: prints only non-zero items, 1: prints only zero items, 2: prints both zero and non-zero items (all items)

@pBalDate—date of stock summary

Tables Used: UnitOfMeas, ItemGroup, ItemList, RecInv, RecInvItems, Indent, IndentItems, AdjType, AdjInv, AdjInvItems

Referenced In: frmStockSummary form, frmReports form

```
CREATE PROCEDURE dbo.GetStockSummaryAnyRpt
```

```
(
    @pGroup varchar(10),
    @pNonZero integer,
    @pBalDate varchar(20)
)
AS
```

```
declare @StrSql nvarchar(2000)
```

```
declare @Criteria nvarchar(500)
```

```
set @StrSql =
```

```
'select ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemCode, ItemList.ItemName,
sum(QtyIn-QtyOut) as UsableQty, sum(UnQtyIn-UnQtyOut) as UnusableQty, UnitName ' +
'from UnitOfMeas inner join (ItemGroup inner join (ItemList inner join (' +
'select ItemCode, InitStock as QtyIn, 0 as QtyOut, InitStockUn as UnQtyIn, 0 as UnQtyOut ' +
'from ItemList ' +
'UNION ALL ' +
'select ItemCode, sum(Qty) as QtyIn, 0 as QtyOut, 0 as UnQtyIn, 0 as UnQtyOut ' +
'from RecInv INNER JOIN RecInvItems ON (RecInv.InvNo = RecInvItems.InvNo) AND (RecInv.InvType
= RecInvItems.InvType) ' +
'where bUpdated=1 and ReceiptDate <= ' + char(39) + @pBalDate + char(39) + ' group by
ItemCode UNION ALL ' +
'select ItemCode, 0 as QtyIn, sum(IssueQty) as QtyOut, 0 as UnQtyIn, 0 as UnQtyOut ' +
'from Indent INNER JOIN IndentItems ON (Indent.InvNo = IndentItems.InvNo) AND (Indent.InvType
= IndentItems.InvType) ' +
```

```
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' and IssueQty is not
NULL group by ItemCode UNION ALL ' +
'select ItemCode, sum(IssueQty*usablein) as QtyIn, sum(IssueQty*usableout) as QtyOut,
sum(IssueQty*unusablein) as UnQtyIn, sum(IssueQty*unusableout) as UnQtyOut ' +
'from AdjType INNER JOIN (AdjInv INNER JOIN AdjInvItems ON (AdjInv.InvNo = AdjInvItems.InvNo))
ON AdjType.AdjType=AdjInv.AdjType ' +
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' group by ItemCode
' +
') a on a.ItemCode = ItemList.ItemCode) on ItemGroup.GroupCode = ItemList.GroupCode) on
UnitOfMeas.UnitId = ItemList.UnitId '
```

```
if isnull(@pGroup,") <> "
    set @StrSql = @StrSql + ' where ItemList.GroupCode=' + char(39) + @pGroup + char(39)
set @StrSql = @StrSql + ' group by ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemName,
UnitName, ItemList.ItemCode '
```

```
if @pNonZero=0
    set @StrSql = @StrSql + ' having sum(QtyIn-QtyOut)>0 '
else if @pNonZero=1
    set @StrSql = @StrSql + ' having sum(QtyIn-QtyOut)=0 '
else
    set @StrSql = @StrSql
```

```
exec sp_executesql @StrSql
```

```
GO
```

StockSummaryLot.rpt

Prints the lotwise summary stock of commodities as of the current date.

Stored Procedure Name: GetStockSummaryLotRpt

Parameters:

@pGroup—specific Item Group for which stock summary will be printed, i.e., CON, IEM. An empty string is passed to print stock summary of all groups.

@pNonZero—0: prints only non-zero items, 1: prints only zero items, 2: prints both zero and non-zero items (all items)

Tables Used: UnitOfMeas, ItemGroup, ItemList, ItemListLot

Referenced In: frmReports form

```
CREATE PROCEDURE dbo.GetStockSummaryLotRpt
```

```
(
    @pGroup varchar(10),
    @pNonZero integer
)
```

```
AS
```

```
if isnull(@pGroup,") <> "
    begin
```

```
        if @pNonZero=2
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
            LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
            (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
            ItemGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where ItemGroup.GroupCode=@pGroup
        else if @pNonZero=0
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
```

```

        LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
        FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
        (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
ItemListGroup.GroupCode =
        ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
        where ItemGroup.GroupCode=@pGroup and
        (ItemListLot.LotQty > 0 or ItemListLot.LotQtyUn>0)
    else if @pNonZero=1
        SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
        LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
        FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
        (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
ItemListGroup.GroupCode =
        ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
        where ItemGroup.GroupCode=@pGroup and
        (ItemListLot.LotQty = 0 and ItemListLot.LotQtyUn = 0)
    end
else
    begin
        if @pNonZero=2
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
            LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
            (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
ItemListGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
        else if @pNonZero=0
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
            LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
            (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
ItemListGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where (ItemListLot.LotQty > 0 or ItemListLot.LotQtyUn>0)
        else if @pNonZero=1
            SELECT ItemGroup.GroupCode, ItemGroup.GroupName, ItemList.ItemCode,
ItemList.ItemName,
            LotNo, MfgDate, ExpDate, LotQty, LotQtyUn, UnitOfMeas.UnitName
            FROM UnitOfMeas RIGHT JOIN (ItemGroup INNER JOIN
            (ItemList INNER JOIN ItemListLot ON ItemList.ItemCode=ItemListLot.ItemCode) ON
ItemListGroup.GroupCode =
            ItemList.GroupCode) ON UnitOfMeas.UnitId = ItemList.UnitId
            where (ItemListLot.LotQty = 0 and ItemListLot.LotQtyUn = 0)
        end
    end
GO

```

StockSummaryLotAny.rpt

Prints the lotwise summary stock of commodities as of a previous date.

Stored Procedure Name: GetStockSummaryLotAnyRpt

Parameters:

@pGroup—specific Item Group for which stock summary will be printed, i.e., CON, IEM. An empty string is passed to print stock summary of all groups.

@pNonZero—0" prints only non-zero items, 1: prints only zero items, 2: prints both zero and non-zero items (all items)

@pBalDate—date of stock summary

Tables Used: UnitOfMeas, ItemGroup, ItemList, RecInv, RecInvItems, Indent, IndentItems, AdjType, AdjInv, AdjInvItems, ItemListLot
 Referenced In: frmReports form

```
CREATE PROCEDURE dbo.GetStockSummaryLotAnyRpt
```

```
(
    @pGroup varchar(10),
    @pNonZero integer,
    @pBalDate varchar(20)
)
AS

declare @StrSql nvarchar(2000)
declare @Criteria nvarchar(500)

set @StrSql =
'select ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemCode, ItemList.ItemName,
LotNo, MfgDate, ExpDate,
sum(QtyIn-QtyOut) as UsableQty, sum(UnQtyIn-UnQtyOut) as UnusableQty, UnitName ' +
'from UnitOfMeas inner join (ItemGroup inner join (ItemList inner join (' +
'select ItemCode, LotNo, MfgDate, ExpDate, InitLotQty as QtyIn, 0 as QtyOut, InitLotQtyUn as
UnQtyIn, 0 as UnQtyOut ' +
'from ItemListLot ' +
'UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, sum(Qty) as QtyIn, 0 as QtyOut, 0 as UnQtyIn, 0 as
UnQtyOut ' +
'from RecInv INNER JOIN RecInvItems ON (RecInv.InvNo = RecInvItems.InvNo) AND (RecInv.InvType
= RecInvItems.InvType) ' +
'where bUpdated=1 and ReceiptDate <= ' + char(39) + @pBalDate + char(39) + ' group by
ItemCode, LotNo, MfgDate, ExpDate UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, 0 as QtyIn, sum(IssueQty) as QtyOut, 0 as UnQtyIn, 0
as UnQtyOut ' +
'from Indent INNER JOIN IndentItems ON (Indent.InvNo = IndentItems.InvNo) AND (Indent.InvType
= IndentItems.InvType) ' +
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' and IssueQty is not
NULL group by ItemCode, LotNo, MfgDate, ExpDate UNION ALL ' +
'select ItemCode, LotNo, MfgDate, ExpDate, sum(IssueQty*usablein) as QtyIn,
sum(IssueQty*usableout) as QtyOut, sum(IssueQty*unusablein) as UnQtyIn,
sum(IssueQty*unusableout) as UnQtyOut ' +
'from AdjType INNER JOIN (AdjInv INNER JOIN AdjInvItems ON (AdjInv.InvNo = AdjInvItems.InvNo))
ON AdjType.AdjType=AdjInv.AdjType ' +
'where bUpdated=1 and IssuedDate <= ' + char(39) + @pBalDate + char(39) + ' group by
ItemCode, LotNo, MfgDate, ExpDate ' +
') a on a.ItemCode = ItemList.ItemCode) on ItemGroup.GroupCode = ItemList.GroupCode) on
UnitOfMeas.UnitId = ItemList.UnitId '

if isnull(@pGroup, '') <> ''
    set @StrSql = @StrSql + ' where ItemList.GroupCode=' + char(39) + @pGroup + char(39)
set @StrSql = @StrSql + ' group by ItemList.GroupCode, ItemGroup.GroupName, ItemList.ItemName,
UnitName, ItemList.ItemCode, LotNo, MfgDate, ExpDate '

if @pNonZero=0
    set @StrSql = @StrSql + ' having sum(QtyIn-QtyOut)>0 '
else if @pNonZero=1
    set @StrSql = @StrSql + ' having sum(QtyIn-QtyOut)=0 '
else
    set @StrSql = @StrSql

exec sp_executesql @StrSql

GO
```

Suppliers.rpt

Prints the list of external suppliers of commodities.

Stored Procedure Name: None (Supplier Table)

Parameters: None

Tables Used: Supplier Table

Referenced In: frmSupplier form

Data Entry Forms

There are 25 data entry forms in WIMS, all of which follow a specific standard and structure. A sample data entry form source code is listed here.

frmIssueInv form

Option Explicit

```
'===== START of IMPLEMENTS ====='

' implementation interface for flat buttons
Implements IOwnerDrawButton
' implementation interface for listview
Implements IListViewOwner
' implementation interface for treeview
Implements ITreeViewOwner
Implements ICrystalEngine

'===== END of IMPLEMENTS ====='

'===== START of PRIVATE CONSTANTS ====='

Private Const ROOT_TEXT = "Issue Vouchers"           ' the text of the root node of treeview
Private Const FORM_CAPTION = "Issue Voucher(Push) " ' initial form caption
Private Const INV_TYPE = 1

'===== END of PRIVATE CONSTANTS ====='

'===== START of PRIVATE VARIABLES ====='

' array for storing treeview node id
Private m_NodePtr() As Long
' currently selected tree node
Private m_pSelNode As tagSelNodeOne
' user changed the data?
Private m_pUserChanged As Boolean
' is this the first time?
Private m_pFirstTime As Boolean
' count of records in tree
Private m_pRecCount As Long
Private m_PrintObject As clsPrintObject ' print engine class pointer
Private ParamValInfo As PEValueInfo
' current focused entry field in form
Private m_pCurMainCtl As Control
' owner draw button class for drawing flat graphic buttons
Private m_cODBtn As cOwnerDrawButton
Private p_txtFields() As tagCtlProp
Private p_txtSearch() As tagCtlProp
Private p_dtFilter() As tagCtlProp

'===== END of PRIVATE VARIABLES ====='

'===== START of PROPERTY VARIABLES ====='

Private m_pMainDirty As Boolean      ' main form is dirty?
Private m_pCurMode As Integer      ' currently in Edit or View mode?
Private m_pSubDirty As Boolean      ' subfor is dirty?
Private m_pCurrentCopy As Long

'===== END of PROPERTY VARIABLES ====='

'===== START of PROPERTY PROCEDURES ====='

Public Property Get pMainDirty() As Boolean
```

```

    pMainDirty = m_pMainDirty
End Property

Public Property Let pMainDirty(parMainDirty As Boolean)
    m_pMainDirty = parMainDirty
End Property

Public Property Get pCurMode() As Integer
    pCurMode = m_pCurMode
End Property

Public Property Let pCurMode(parCurMode As Integer)
On Error GoTo Err_pCurMode

    m_pCurMode = parCurMode

' set the caption of the form depending on current edit state
Select Case m_pCurMode
    Case MODE_ADD
        Caption = FORM_CAPTION & "+"

    Case MODE_VIEW
        Caption = FORM_CAPTION

    Case MODE_VIEW_AND_EDITING, MODE_ADD_AND_EDITING
        Caption = FORM_CAPTION & "*"

    Case MODE_READONLY
        Caption = FORM_CAPTION & MODE_READONLY_CAPTION

End Select

' set state of buttons and controls according to form mode
cboGroupBy.Enabled = (m_pCurMode = MODE_VIEW) Or (m_pCurMode = MODE_READONLY)
cmdMain(0).Enabled = (m_pCurMode = MODE_VIEW)
cmdMain(1).Enabled = (m_pCurMode = MODE_VIEW_AND_EDITING) Or _
    (m_pCurMode = MODE_ADD_AND_EDITING)
cmdMain(2).Enabled = (m_pCurMode = MODE_VIEW_AND_EDITING) Or _
    (m_pCurMode = MODE_ADD_AND_EDITING)
cmdMain(3).Enabled = (m_pCurMode = MODE_VIEW)
cmdMain(4).Enabled = (m_pCurMode = MODE_VIEW) Or (m_pCurMode = MODE_READONLY)
cmdMain(5).Enabled = (m_pCurMode = MODE_VIEW) Or (m_pCurMode = MODE_READONLY)
cmdMain(6).Enabled = (m_pSelNode.TypeOfNode > 0) And (chkFields(0).Value = vbUnchecked)

Exit_pCurMode:
Exit Property

Err_pCurMode:
ProcessDBError
Resume Exit_pCurMode
End Property

Public Property Get pSubDirty() As Boolean
    pSubDirty = m_pSubDirty
End Property

Public Property Let pSubDirty(parSubDirty As Boolean)
    m_pSubDirty = parSubDirty
End Property

'===== END of PROPERTY PROCEDURES ====='

'===== START of OBJECT EVENT PROCEDURES ====='

.....

' This procedure is called when the form is first loaded. This is the entry point.
'     1. Initialize listview, treeview, combo, and tab controls
'     2. Set form-level flags

```

```
' 3. Specify field names to which controls are bound
' 4. Fill the dropdown combos
' 5. Fill the tree with primary keys
' 4. If there are records, select the first one
' 5. Position the form
' Last Update Date: April 10, 2003
'
' Parameters: none
' Return Value: none
.....
```

```
Private Sub Form_Load()
On Error GoTo Err_Form_Load
```

```
Dim idx As Long
Dim RecCount As Long
Dim pWidth As String
Dim m_BasicTypeArray() As Variant
Dim m_GroupByArray() As Variant
Dim m_EmpArray() As Variant
Dim m_FacilityArray() As Variant
Dim m_IndDesigArray() As Variant
Dim m_ReasonArray() As Variant
Dim m_ItemsArray() As Variant
Dim ddwidth As Long
```

```
' it may take some time...
Call Hourglass(hwnd, True)
```

```
' set form to pixel mode
ScaleMode = vbPixels
```

```
' this form is implementing the treeview interface
twwMain.Attach Me
' attach imagelist to treeview
twwMain.SetImageList m_pImageBtn.hIml, TVSIL_NORMAL
```

```
' this form is implementing listview interface
lvwSub.Attach Me
' attach imagelist to listview
lvwSub.SetImageList m_pImageBtn.hIml, LVSIL_SMALL
```

```
' owner-drawn flat button interface object
Set m_cODBtn = New cOwnerDrawButton
' this form is implementing flat button interface
m_cODBtn.Attach Me
' buttons are in these containers
m_cODBtn.AddhWnd picContainerSearch.hwnd
m_cODBtn.AddhWnd picContainerFilter.hwnd
m_cODBtn.AddhWnd Me.hwnd
```

```
m_pFirstTime = True
m_pUserChanged = True
' we are in view mode first
pCurMode = MODE_VIEW
' the master and sub forms are not dirty initially
m_pMainDirty = False
m_pSubDirty = False
```

```
' insert 3 tabs in tab control - info, search and filter
tabMain.AddTab BASIC_TAB, , , BASIC_TAB
tabMain.AddTab SEARCH_TAB, , , SEARCH_TAB
tabMain.AddTab FILTER_TAB, , , FILTER_TAB
' select first tab
tabMain.SelectTab BASIC_TAB
tabMain_TabClick 1
```

```
' only one item can be selected in listview
lvwSub.SetStyle LVS_SINGLESEL
```

```

' enable grid lines and full row select in listview
lvwSub.SetExtendedListViewStyle LVS_EX_GRIDLINES Or LVS_EX_FULLROWSELECT
' show the listview headers
CreateLVWHeaders
' we want to catch the click event on header
lvwSub.SubClassHeader

' initialize the array which will hold field information
ReDim p_txtFields(txtFields.LBound To txtFields.UBound)
ReDim p_txtSearch(txtSearch.LBound To txtSearch.UBound)
ReDim p_dtFilter(dtFilter.LBound To dtFilter.UBound)

' set field data types for each control
p_txtSearch(0).pDataFormat = dfinteger
p_dtFilter(0).pDataFormat = dfSQLDate
p_dtFilter(1).pDataFormat = dfSQLDate

p_txtFields(0).pDataFormat = dfinteger
p_txtFields(1).pDataFormat = dfSQLDate
p_txtFields(2).pDataFormat = dfSQLDate
p_txtFields(3).pDataFormat = dfSQLDate

p_txtFields(1).pUserFormat = DATE_FORMAT
p_txtFields(2).pUserFormat = DATE_FORMAT
p_txtFields(3).pUserFormat = DATE_FORMAT
p_dtFilter(0).pUserFormat = DATE_FORMAT
p_dtFilter(1).pUserFormat = DATE_FORMAT
txtSub(1).pUserFormat = NUMBER_FORMAT
txtSub(3).pUserFormat = DATE_FORMAT
txtSub(4).pUserFormat = DATE_FORMAT

' filter the data within a specific date range
dtFilter(1) = ConvertDateDMY(Date)
dtFilter(0) = ConvertDateDMY(DateAdd("d", -90, Date))

' set the field name that is bound to the control
cboFields(0).pBoundField = "FacilityCode"
cboFields(1).pBoundField = "PrepBy"
cboFields(2).pBoundField = "AppBy1"
cboFields(3).pBoundField = "IssuedBy"
p_txtFields(0).pBoundField = "InvNo"
p_txtFields(1).pBoundField = "PrepDate"
p_txtFields(2).pBoundField = "AppDate1"
p_txtFields(3).pBoundField = "IssuedDate"
p_txtFields(4).pBoundField = "InvType"
p_txtFields(5).pBoundField = "Remarks"

' store the associated field name in the tag
chkFields(0).Tag = "bUpdated"

txtSub(0).pBoundField = ""
txtSub(1).pBoundField = "IssueQty"
txtSub(2).pBoundField = "LotNo"
txtSub(3).pBoundField = "MfgDate"
txtSub(4).pBoundField = "ExpDate"
txtSub(5).pBoundField = "CurStockQty"
cboSub(0).pBoundField = "ItemCode"

' checkbox window has a property which handles dirty mode
For idx = chkFields.LBound To chkFields.UBound
    SetProp chkFields(idx).hwnd, "IsDirty", False
Next idx

' initialize the combo boxes
pWidth = CLng(cboFields(0).Width / Screen.TwipsPerPixelX * 0.25) & ";" & CLng(cboFields(0).Width /
Screen.TwipsPerPixelX * 0.75)
NewInitCombo cboFields(0), True, bbExtendedBound, 2, 0, 1, pWidth, dfText
pWidth = "0;" & CLng(cboFields(1).Width / Screen.TwipsPerPixelX)
NewInitCombo cboFields(1), True, bbExtendedBound, 2, 0, 1, pWidth, dfinteger

```

```

pWidth = "0;" & CLng(cboFields(2).Width / Screen.TwipsPerPixelX)
NewInitCombo cboFields(2), True, bbExtendedBound, 2, 0, 1, pWidth, dfinteger
pWidth = "0;" & CLng(cboFields(3).Width)
NewInitCombo cboFields(3), True, bbExtendedBound, 2, 0, 1, pWidth, dfinteger

ddwidth = cboSub(0).DropDownWidth
pWidth = CLng(ddwidth * 0.5) & ";0;" & CLng(ddwidth * 0.1) & ";" & CLng(ddwidth * 0.1) & ";0;" &
CLng(ddwidth * 0.1) & ";" & CLng(ddwidth * 0.2) & ";0"
NewInitCombo cboSub(0), True, bbExtendedBound, 8, 2, 0, pWidth, dfText

' fill the combo boxes with values from database
Call FillFormCombo(m_FacilityArray, m_EmpArray, m_IndDesigArray, m_ItemsArray)
cboFields(0).SetUnboundData m_FacilityArray
cboFields(1).SetUnboundData m_EmpArray
cboFields(2).SetUnboundData m_EmpArray
cboFields(3).SetUnboundData m_EmpArray
cboSub(0).SetUnboundData m_ItemsArray

' data grouping options are...
cboGroupBy.AddItem "Invoice No"
cboGroupBy.AddItem "Facility"
cboGroupBy.AddItem "Invoice Date"

' link the edit controls with the listview
With lvwSub
    .EditEnabled = True
    .bEditing = False
    .ParentHwnd = Me.hwnd
    .AddControl cboSub(0), True, False
    .AddControl txtSub(1)
    .AddControl txtSub(0)
    .AddControl txtSub(5)
    .AddControl txtSub(2)
    .AddControl txtSub(3)
    .AddControl txtSub(4)
End With

' fill the tree with primary keys
cboGroupBy.ListIndex = 0

If Not CanEditForm(Me.Name) Then
    LockFormEditing
End If

m_pCurrentCopy = 1

Move 0, 0

Exit_Form_Load:
    m_pFirstTime = False

    Erase m_GroupByArray
    Erase m_EmpArray
    Erase m_FacilityArray
    Erase m_IndDesigArray
    Erase m_ItemsArray
    Call Hourglass(hwnd, False)
    Exit Sub

Err_Form_Load:
    ProcessDBError
    Resume Exit_Form_Load
End Sub

.....

' This procedure is called before the form is unloaded.
' 1. If the current record is not saved, try to save first
' 2. Get confirmation from user whether he or she really wants to Quit
' 3. If user does not want to quit, then set focus to the last control

```

```

' 4. If it is exit time, then release array and object memory
' Last Update Date: February 5, 2003
'
' Parameters:
'   Cancel—True will stop unloading of the form
'   UnloadMode—how unload was invoked
' Return Value: none
.....

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
On Error GoTo Err_Form_QueryUnload

Dim idx As Long

' the form is closing...
' if the for is dirty then try to save first and then quit
If Not SaveMainRecord Then
' whether the user wants to quit without saving...
If MsgBox("You have changes which will be lost if you Close now." & vbCrLf & _
"Do you really want to close the form and discard changes?", vbQuestion + vbYesNo) = vbNo Then
' if not, return to current operations
Cancel = True
If Not m_pCurMainCtl Is Nothing Then
m_pCurMainCtl.SetFocus
End If
End If
End If

' save was successful or the form was not dirty...
If Not Cancel Then
Call Hourglass(hwnd, True)
' Hide the mess we're about to make...
Visible = False
Erase p_txtFields
Erase p_txtSearch
Erase p_dtFilter
' clear the treeview
twvMain.EmptyTreeView False
Set m_cODBtn = Nothing
' clear the report object
Set m_PrintObject = Nothing
Set m_pCurMainCtl = Nothing
' delete tree nodes
Erase m_NodePtr
' remove any property that we added to check box window
For idx = chkFields.LBound To chkFields.UBound
RemoveProp chkFields(idx).hwnd, "IsDirty"
Next idx
lvwSub.UnSubClassHeader
Call Hourglass(hwnd, False)
End If

Exit_Form_QueryUnload:
Exit Sub

Err_Form_QueryUnload:
ProcessDBError
Resume Exit_Form_QueryUnload
End Sub

.....

' This procedure is called when the form gets resized. It positions
' the picture box containers that are holding controls
' Last Update Date: February 5, 2003
'
' Parameters: none
' Return Value: none
.....

```

```

Private Sub Form_Resize()
On Error GoTo Err_Form_Resize

' resize the picture box containers
With tabMain
    picContainerBasic.Move .ClientLeft, .ClientTop, .ClientWidth, .ClientHeight
    picContainerSearch.Move .ClientLeft, .ClientTop, .ClientWidth, .ClientHeight
    picContainerFilter.Move .ClientLeft, .ClientTop, .ClientWidth, .ClientHeight
End With

Exit_Form_Resize:
Exit Sub

Err_Form_Resize:
ProcessDBError
Resume Exit_Form_Resize
End Sub

```

```

.....
' This procedure is called before user clicks on any of the tabs
' on the Tab control. It tries to save the editing before
' moving from one tab to another.
' Last Update Date: February 5, 2003
'
' Parameters: none
' Return Value: none
.....

```

```

Private Sub tabMain_BeforeClick(ByVal ITab As Long, bCancel As Boolean)
' try to save before changing tab
bCancel = Not SaveSuccess
End Sub

```

```

.....
' This procedure is called when user clicks on any of the tabs
' on the Tab control. Depending on the tab, it makes one of the
' picture box container visible and sets focus to a specific control.
'
' Last Update Date: February 5, 2003
'
' Parameters:
' ITab—index of tab that was clicked
' Return Value: none
.....

```

```

Private Sub tabMain_TabClick(ByVal ITab As Long)
On Error GoTo Err_tabMain_Click

```

```

' make the appropriate picture container visible
picContainerBasic.Visible = (ITab = 1)
picContainerSearch.Visible = (ITab = 2)
picContainerFilter.Visible = (ITab = 3)
' set focus to specific control
If ITab = 2 Then
    txtSearch(0).SetFocus
ElseIf ITab = 3 Then
    dtFilter(0).SetFocus
End If

```

```

Exit_tabMain_Click:
Exit Sub

```

```

Err_tabMain_Click:
ProcessDBError
Resume Exit_tabMain_Click

```

End Sub

```

.....
' Click event handler for command buttons
' Last Update Date: 05 Feb, 2003
'
' Parameters:
'   Index—index of the button in the button array
' Return Value: none
.....

```

```

Private Sub cmdMain_Click(Index As Integer)
On Error GoTo Err_cmdMain_Click

```

```

    Select Case Index
    Case 0          ' new record
        AddNewMainRecord

    Case 1          ' save record
        SaveSuccess

    Case 2          ' undo record
        UndoMainRecord

    Case 3          ' delete record
        DeleteMainRecord

    Case 4          ' preview report
        picPrintOptions.Visible = True

    Case 5          ' close form
        UnloadMainForm

    Case 6          ' post to stock
        PostToStock

```

End Select

```

Exit_cmdMain_Click:
Exit Sub

```

```

Err_cmdMain_Click:
ProcessDBError
Resume Exit_cmdMain_Click
End Sub

```

```

.....
' Click event handler for Search button.
'   1. Gets the searched invoice from database
'   2. Try to find the invoice in the tree
'   3. If found, select the tree node
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of the button in the button array
' Return Value: none
.....

```

```

Private Sub cmdSearch_Click()
On Error GoTo Err_cmdSearch_Click

```

```

Dim RecCount As Long
Dim nodex As Long
Dim recArray() As Variant

```

```

' search for invoice no.
If txtSearch(0) <> "" Then
' try to find the invoice no. from database
Call GetTreeWoList(recArray, RecCount, 9999, CStr(dtFilter(0)), CStr(dtFilter(1)), CLng(txtSearch(0)))

```

```

' if a matching record is found...
If RecCount > 0 Then
    ' find the node and select it in the tree
    nodex = FindNodeInTree(CLng(recArray(0, 0)))
    If nodex <> 0 Then
        tvwMain.SelectItem nodex
    End If
Else
    MsgBox "Invoice Not Found", vbInformation
End If
End If

Exit_cmdSearch_Click:
Erase recArray
Exit Sub

Err_cmdSearch_Click:
ProcessDBError
Resume Exit_cmdSearch_Click
End Sub

.....

' Click event handler for Filter button; refills the tree with
' records from database based on filter criteria.
' Last Update Date: February 5, 2003
'
' Parameters: none
' Return Value: none
.....

Private Sub cmdFilter_Click()
    RefreshTree True
End Sub

.....

' This procedure runs when user presses any key in a text box.
' Special handling is done for ENTER and ESC keys
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of text box in control array
'     KeyAscii—integer value of keyboard key pressed
' Return Value: none
.....

Private Sub txtFields_KeyPress(Index As Integer, KeyAscii As Integer)
    Main_KeyPress Index, KeyAscii, txtFields(Index).MultiLine
End Sub

.....

' This procedure runs when user presses any key in a check box
' Special handling is done for ENTER and ESC keys
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of check box in control array
'     KeyAscii—integer value of keyboard key pressed
' Return Value: none
.....

Private Sub chkFields_KeyPress(Index As Integer, KeyAscii As Integer)
    Main_KeyPress Index, KeyAscii
End Sub

.....

' This procedure runs when user presses any key in a combo box
' Special handling is done for ENTER and ESC keys
' Last Update Date: February 5, 2003

```

```

'
' Parameters:
'   Index—index of text box in control array
'   KeyAscii—integer value of keyboard key pressed
' Return Value: none
.....

Private Sub cboFields_KeyPress(Index As Integer, KeyAscii As Integer)
    Main_KeyPress Index, KeyAscii
End Sub

.....

' This procedure is called when any editing is done in a text box
' If user is editing in the text box, then set its Dirty flag
' Also set the form flags
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of text box in control array
' Return Value: none
.....

Private Sub txtFields_Change(Index As Integer)
    If m_pUserChanged Then
        p_txtFields(Index).IsDirty = True
    End If
    Main_Change
End Sub

.....

' This procedure is called when any editing is done in a combo box
' If user is editing in the combo box, then set its Dirty flag
' Also set the form flags
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of text box in control array
' Return Value: none
.....

Private Sub cboFields_Change(Index As Integer)
    Main_Change
End Sub

.....

' This procedure is called when user clicks on a check box
' If user has clicked in the combo box, then set its Dirty flag
' Also set the form flags
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of check box in control array
' Return Value: none
.....

Private Sub chkFields_Click(Index As Integer)
    Main_Change
    If m_pUserChanged Then
        ' check box is dirty, so set flag
        SetProp chkFields(Index).hwnd, "IsDirty", True
    End If
    If (Index = 0) Then
        lvwSub.EditEnabled = (chkFields(Index).Value = vbUnchecked)
        txtFields(0).Enabled = (chkFields(Index).Value = vbUnchecked)
        txtFields(1).Enabled = (chkFields(Index).Value = vbUnchecked)
        txtFields(2).Enabled = (chkFields(Index).Value = vbUnchecked)
        txtFields(3).Enabled = (chkFields(Index).Value = vbUnchecked)
        cboFields(0).Enabled = (chkFields(Index).Value = vbUnchecked)
        cboFields(1).Enabled = (chkFields(Index).Value = vbUnchecked)
    End If
End Sub

```

```

        cboFields(2).Enabled = (chkFields(Index).Value = vbUnchecked)
        cboFields(3).Enabled = (chkFields(Index).Value = vbUnchecked)
    End If
End Sub

```

```

.....
' This procedure is called when user selects an item in a
' combo box
' If user has selected an item, then set its Dirty flag
' Also set the form flags
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index - index of combo box in control array
' Return Value: none
.....

```

```

Private Sub cboFields_Click(Index As Integer)
    Main_Change
End Sub

```

```

.....
' This procedure is called when focus is moving from text box
' If the text box has formatting set and it has values,
' then the formatting is applied on the data
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of combo box in control array
' Return Value: none
.....

```

```

Private Sub txtFields_LostFocus(Index As Integer)
    Dim m_text As String

    If p_txtFields(Index).IsDirty Then
        If p_txtFields(Index).pDataFormat = dfSQLDate Then
            m_text = txtFields(Index)
            If m_text <> "" Then
                txtFields(Index) = Format(m_text, p_txtFields(Index).pUserFormat)
            End If
        End If
    End If
End Sub

```

```

.....
' This procedure is called before focus is leaving from a text box.
'     1. If the text format is numeric, then check whether it's a valid number
'     2. If the text format is date type, then check whether it's
'         a valid date
'     3. If the data are not valid, then set Cancel flag to true to prevent
'         the focus from leaving the text box
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of text box in control array
'     Cancel —rue will stop the focus from leaving the control
' Return Value: none
.....

```

```

Private Sub txtFields_Validate(Index As Integer, Cancel As Boolean)
    On Error GoTo Err_txtFields_Validate

    Set m_pCurMainCtl = txtFields(Index)
    With txtFields(Index)
        If VBA.Trim$(.text) <> "" Then
            If (p_txtFields(Index).pDataFormat = dfinteger Or p_txtFields(Index).pDataFormat = dfDouble) And _
                (Not IsNumeric(.text)) Then

```

```

        MsgBox "Pls Enter a Numeric Value", vbInformation
        Cancel = True
        m_pCurMainCtl.SetFocus
    ElseIf (p_txtFields(Index).pDataFormat = dfSQLDate) And (Not IsValidDate(.text)) Then
        MsgBox "Pls Enter a Date", vbInformation
        Cancel = True
        m_pCurMainCtl.SetFocus
    End If
End If
End With

Exit_txtFields_Validate:
Exit Sub

Err_txtFields_Validate:
ProcessDBError
Resume Exit_txtFields_Validate
End Sub

.....

' This procedure is called before focus is leaving from a combo box
' It just keeps the reference of the combo box to a variable for later use
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of combo box in control array
'     Cancel—True will stop the focus from leaving the control
' Return Value: none
.....

Private Sub cboFields_Validate(Index As Integer, Cancel As Boolean)
' set the current focus control
' Set m_pCurMainCtl = cboFields(Index)
End Sub

.....

' This procedure runs when user presses any key in the Search text box
' Special handling is done for ENTER and ESC keys
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of text box in control array
'     KeyAscii—integer value of keyboard key pressed
' Return Value: none
.....

Private Sub txtSearch_KeyPress(Index As Integer, KeyAscii As Integer)
    If (KeyAscii = 10 Or KeyAscii = 13) Then
        SendKeys "{TAB}"
        KeyAscii = 0
    End If
End Sub

.....

' This procedure runs when user presses any key in filter date text boxes
' Special handling is done for ENTER and ESC keys
' Last Update Date: February 5, 2003
'
' Parameters:
'     Index—index of text box in control array
'     KeyAscii—integer value of keyboard key pressed
' Return Value: none
.....

Private Sub dtFilter_KeyPress(Index As Integer, KeyAscii As Integer)
    If (KeyAscii = 10 Or KeyAscii = 13) Then
        SendKeys "{TAB}"
        KeyAscii = 0
    End If

```

End Sub

```

.....
' This procedure is called before focus is leaving from Search text box.
'   1. If the text format is numeric, then check whether it's a valid number
'   2. If the text format is date type, then check whether it's
'      a valid date
'   3. If the data are not valid, then set Calcel flag to true to prevent
'      the focus from leaving the text box
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of text box in control array
'   Cancel—True will stop the focus from leaving the control
' Return Value: none
.....

```

```

Private Sub txtSearch_Validate(Index As Integer, Cancel As Boolean)
On Error GoTo Err_txtSearch_Validate

```

```

    With txtSearch(Index)
    If VBA.Trim$(.text) <> "" Then
    If (p_txtSearch(Index).pDataFormat = dfInteger Or p_txtSearch(Index).pDataFormat = dfDouble) And _
        (Not IsNumeric(.text)) Then
        MsgBox "Enter a Numeric Value", vbInformation
        Cancel = True
        .SetFocus
    End If
    End If
    End With

```

```

Exit_txtSearch_Validate:
Exit Sub

```

```

Err_txtSearch_Validate:
    ProcessDBError
    Resume Exit_txtSearch_Validate
End Sub

```

```

.....
' This procedure is called before focus is leaving from date filter text box.
'   1. If the text format is numeric, then check whether it's a valid number
'   2. If the text format is date type, then check whether it's
'      a valid date
'   3. If the data are not valid, then set Calcel flag to true to prevent
'      the focus from leaving the text box
' Last Update Date: February 5, 2003
'
' Parameters:
'   Index—index of text box in control array
'   Cancel—True will stop the focus from leaving the control
' Return Value: none
.....

```

```

Private Sub dtFilter_Validate(Index As Integer, Cancel As Boolean)
On Error GoTo Err_dtFilter_Validate

```

```

    With dtFilter(Index)
    If VBA.Trim$(.text) <> "" Then
    If (p_dtFilter(Index).pDataFormat = dfSQLDate) And (Not IsValidDate(.text)) Then
        MsgBox "Pls Enter a Date", vbInformation
        Cancel = True
        .SetFocus
    End If
    End If
    End With

```

```

Exit_dtFilter_Validate:
Exit Sub

```

```
Err_dtFilter_Validate:
  ProcessDBError
  Resume Exit_dtFilter_Validate
End Sub

Private Sub cboGroupBy_Click()
On Error GoTo Err_cboGroupBy_Click

  If SaveSuccess Then
    RefreshTree True
  End If

Exit_cboGroupBy_Click:
  Exit Sub

Err_cboGroupBy_Click:
  ProcessDBError
  Resume Exit_cboGroupBy_Click
End Sub

Private Sub cboGroupBy_GotFocus()
  SaveSuccess
End Sub

Private Sub txtSub_Change(Index As Integer)
  Sub_Change
End Sub

Private Sub cboSub_Click(Index As Integer)
Dim bLock As Boolean

  Sub_Change
  If Index = 0 Then
    If cboSub(0) <> "" Then
      txtSub(0) = cboSub(0).Column(7)
      txtSub(5) = cboSub(0).Column(6)
      txtSub(5).IsDirty = True
      txtSub(2) = cboSub(0).Column(3)
      txtSub(2).IsDirty = True
      txtSub(3) = cboSub(0).Column(4)
      txtSub(3).IsDirty = True
      txtSub(4) = cboSub(0).Column(5)
      txtSub(4).IsDirty = True
    End If
  End If

End Sub

Private Sub txtSub_KeyPress(Index As Integer, KeyAscii As Integer, Shift As Integer)
  Sub_KeyPress Index, KeyAscii
End Sub

Private Sub cboSub_KeyPress(Index As Integer, KeyAscii As Integer)
  Sub_KeyPress Index, KeyAscii
End Sub

Private Sub txtSub_LostFocus(Index As Integer)
  lvwSub.ProcessLostFocus Screen.ActiveControl.hwnd, txtSub(Index).hwnd, tvwMain.hwnd
End Sub

Private Sub cboSub_LostFocus(Index As Integer)
  lvwSub.ProcessLostFocus Screen.ActiveControl.hwnd, cboSub(Index).hwnd, tvwMain.hwnd
End Sub

Private Sub txtSub_Validate(Index As Integer, Cancel As Boolean)
On Error GoTo Err_txtSub_Validate
```

```

With txtSub(Index)
' if the field contains text
If VBA.Trim$(.text) <> "" Then
' if format is numeric
If (.pDataFormat = dfinteger Or .pDataFormat = dfDouble) And _
    (Not IsNumeric(.text)) Then
    MsgBox "Enter a Numeric Value", vbInformation
    Cancel = True
    .SetFocus
' if format is date
ElseIf (.pDataFormat = dfSQLDate) And (Not IsValidDate(.text)) Then
    MsgBox "Pls Enter a Date", vbInformation
    Cancel = True
    .SetFocus
End If
End If
End With

Exit_txtSub_Validate:
Exit Sub

Err_txtSub_Validate:
ProcessDBError
Resume Exit_txtSub_Validate
End Sub

Private Sub cmdSub_Click(Index As Integer)
Select Case Index
Case 0 ' add
    If (m_pSelNode.TypeOfNode > 0) And (chkFields(0).Value = vbUnchecked) Then
        AddNewSubRecord
    End If
Case 1 ' delete
    If (m_pSelNode.TypeOfNode > 0) And (chkFields(0).Value = vbUnchecked) Then
        DeleteSubRecord
    End If
End Select
End Sub

'===== END of OBJECT EVENT PROCEDURES ====='

'===== START of USER DEFINED FUNCTIONS ====='

Private Sub RefreshTree(brefresh As Boolean)
On Error GoTo Err_RefreshTree

Dim recArray() As Variant

Select Case cboGroupBy.ListIndex
Case 0
    Call GetTreeWoList(recArray, m_pRecCount, 0, CStr(dtFilter(0)), CStr(dtFilter(1)))
    PopulateTreeMain twwMain, recArray, m_pRecCount, m_NodePtr, brefresh

Case 1
    Call GetTreeWoList(recArray, m_pRecCount, 1, CStr(dtFilter(0)), CStr(dtFilter(1)))
    PopulateTreeMain twwMain, recArray, m_pRecCount, m_NodePtr, brefresh, True

Case 2
    Call GetTreeWoList(recArray, m_pRecCount, 2, CStr(dtFilter(0)), CStr(dtFilter(1)))
    PopulateTreeMain twwMain, recArray, m_pRecCount, m_NodePtr, brefresh, True

End Select

UpdateTotalNode
SetFocusAPI twwMain.GetContainerHWND

Exit_RefreshTree:
Erase recArray
Exit Sub

```

```
Err_RefreshTree:
    ProcessDBError
    Resume Exit_RefreshTree
End Sub

Private Sub ClearControls()
On Error GoTo Err_ClearControls

Dim idx As Integer

    m_pUserChanged = False

    For idx = txtFields.LBound To txtFields.UBound
        txtFields(idx) = ""
    Next idx

    For idx = chkFields.LBound To chkFields.UBound
        SetCheckValue chkFields(idx).hwnd, Null
    Next idx

    For idx = cboFields.LBound To cboFields.UBound
        cboFields(idx) = Null
    Next idx

    lvwSub.DeleteAllItems

    m_pUserChanged = True

Exit_ClearControls:
Exit Sub

Err_ClearControls:
    ProcessDBError
    Resume Exit_ClearControls
End Sub

Private Sub FillOneInfo(recArray As Variant, RecCount As Long)
On Error GoTo Err_FillOneInfo

Dim idx As Integer

    If m_pSelNode.SelNodeId = -1 Then
        Exit Sub
    End If

    If RecCount = 1 Then
        m_pUserChanged = False

        txtFields(0) = recArray(0, 0)
        cboFields(0) = recArray(1, 0)
        cboFields(1) = recArray(2, 0)
        txtFields(1) = recArray(3, 0)
        cboFields(2) = recArray(4, 0)
        txtFields(2) = nz(recArray(5, 0), "")
        cboFields(3) = recArray(6, 0)
        txtFields(3) = nz(recArray(7, 0), "")
        txtFields(5) = nz(recArray(9, 0), "")

        SetCheckValue chkFields(0).hwnd, recArray(8, 0)

        m_pUserChanged = True

    End If

Exit_FillOneInfo:
Exit Sub
```

```

Err_FillOneInfo:
    ProcessDBError
    Resume Exit_FillOneInfo
End Sub

Private Sub FillManyInfo(recArray As Variant, RecCount As Long)
On Error GoTo Err_FillManyInfo

Dim idx As Long
Dim totAmt As Double

    lvwSub.DeleteAllItems

    For idx = 0 To RecCount - 1
        lvwSub.AddItem recArray(2, idx), 12
        lvwSub.SetTag idx, 0, CLng(SaveStringToMemory(CStr(recArray(1, idx))))

        lvwSub.AddSubItem idx, 1, Format$(nz(recArray(5, idx), 0), NUMBER_FORMAT)
        lvwSub.SetTag idx, 1, CLng(recArray(0, idx))

        lvwSub.AddSubItem idx, 2, CStr(recArray(3, idx))
        lvwSub.AddSubItem idx, 3, Format$(nz(recArray(9, idx), 0), NUMBER_FORMAT)
        lvwSub.AddSubItem idx, 4, CStr(nz(recArray(7, idx), ""))
        lvwSub.AddSubItem idx, 5, Format$(nz(recArray(8, idx), ""), DATE_FORMAT)
        lvwSub.AddSubItem idx, 6, Format$(nz(recArray(6, idx), ""), DATE_FORMAT)
    Next idx

    CalcSubTotFields

Exit_FillManyInfo:
Exit Sub

Err_FillManyInfo:
    MsgBox Err.description
    Resume Exit_FillManyInfo
End Sub

Private Sub CreateLVWHeaders()
On Error GoTo Err_CreateLVWHeaders

    lvwSub.SetHeaderFont 18
    lvwSub.AddColumn 0, "Item", 155, LVCFMT_LEFT
    lvwSub.AddColumn 1, "Issued Qty", 75, LVCFMT_RIGHT
    lvwSub.AddColumn 2, "Unit", 35, LVCFMT_LEFT
    lvwSub.AddColumn 3, "Stock Qty", 75, LVCFMT_RIGHT
    lvwSub.AddColumn 4, "Lot No", 100, LVCFMT_LEFT
    lvwSub.AddColumn 5, "Mfg. Date", 80, LVCFMT_LEFT
    lvwSub.AddColumn 6, "Expiry Date", 80, LVCFMT_LEFT

Exit_CreateLVWHeaders:
Exit Sub

Err_CreateLVWHeaders:
    MsgBox Err.description
    Resume Exit_CreateLVWHeaders
End Sub

Private Sub AddNewMainRecord()
On Error GoTo Err_AddNewMainRecord

    If pCurMode <> MODE_ADD And SaveSuccess Then
        ' we are entering add mode
        pCurMode = MODE_ADD
        ' clear the controls
        ClearControls
        ' initialize the fields
        InitOneFields
        ' recalc the sum fields

```

```

    CalcSubTotFields
    ' select the first tab
    If tabMain.SelectedTab <> 1 Then
        tabMain.SelectTab BASIC_TAB
        tabMain_TabClick 1
    End If
    cboFields(0).SetFocus
End If

Exit_AddNewMainRecord:
Exit Sub

Err_AddNewMainRecord:
ProcessDBError
Resume Exit_AddNewMainRecord

End Sub

Private Sub UndoMainRecord()
On Error GoTo Err_UndoMainRecord

    Select Case pCurMode
        Case MODE_VIEW_AND_EDITING, MODE_ADD, MODE_ADD_AND_EDITING
            If tvwMain.GetCount > 0 Then
                'reset to view mode
                pCurMode = MODE_VIEW
                pMainDirty = False
                'mimic node selection
                ITreeViewOwner_AfterSelectionChange m_pSelNode.SelTreeNodePtr
            End If
        End Select
    End Select

Exit_UndoMainRecord:
Exit Sub

Err_UndoMainRecord:
ProcessDBError
Resume Exit_UndoMainRecord
End Sub

Private Sub DeleteMainRecord()
On Error GoTo Err_DeleteMainRecord

Dim strsql As String
Dim RecCount As Long
Dim nodex As Long
Dim nextselptr As Long
Dim cData As clsGetData

    Select Case pCurMode
        Case MODE_VIEW, MODE_VIEW_AND_EDITING, MODE_ADD_AND_EDITING
            If m_pSelNode.SelNodeId = -1 Then
                Exit Sub
            End If

            If SaveSuccess Then
                If MsgBox("Do you really want to delete the selected Invoice?", vbYesNo + vbQuestion +
vbDefaultButton2) = vbYes Then
                    strsql = "delete from Indent " & _
                        " where InvType=" & INV_TYPE & " and InvNo=" & m_pSelNode.SelNodeId
                    Set cData = New clsGetData
                    Call cData.RunQuery(m_ConStr, strsql, RecCount, CURRENT_USERID, CURRENT_COMPUTERNAME)

                    If RecCount > 0 Then

                        m_pRecCount = m_pRecCount - 1
                        UpdateTotalNode
                    End If
                End If
            End If
        End Select
    End Sub

```

```

' change the node selection in tree
nodex = m_pSelNode.SelTreeNodePtr
If tvwMain.GetNextSibling(nodex) = 0 Then
' if no sibling (brother) next then look for one before
If tvwMain.GetPrevSibling(nodex) = 0 Then
' select the parent of the deleted node
nextselptr = tvwMain.GetParentNode(nodex)
Else
' if sibling before, then select
nextselptr = tvwMain.GetPrevSibling(nodex)
End If
Else
' if there is a sibling (brother) next, then select
nextselptr = tvwMain.GetNextSibling(nodex)
End If
' delete the node from tree
tvwMain.DeleteItem nodex
' select the node in the tree
tvwMain.SelectItem nextselptr
End If
End If
End If
End Select

Exit_DeleteMainRecord:
Set cData = Nothing
Exit Sub

Err_DeleteMainRecord:
ProcessDBError
Resume Exit_DeleteMainRecord
End Sub

Private Sub PreviewRecord(pCopyNumber As Integer)
On Error GoTo Err_PreviewRecord

If Not m_PrintObject Is Nothing Then
Set m_PrintObject = Nothing
End If
Set m_PrintObject = New clsPrintObject
With m_PrintObject
.Attach Me
' print engine handle
.EngineHandle = m_prnHandle
.UID = REPORT_UID
.PWD = REPORT_PWD
' parent window of print preview window
.ParenthWnd = frmMain.hwnd
.ReportName = App.Path & "\Reports\IssueInv.rpt"
.WindowTitle = "Report - Indent Voucher"
' show the report preview

If pCopyNumber = 0 Then
m_pCurrentCopy = 1
Do
.PrintReportDirectly
m_pCurrentCopy = m_pCurrentCopy + 1
Loop While m_pCurrentCopy <= 5
Else
m_pCurrentCopy = pCopyNumber
.PrintReport
End If
End With

Exit_PreviewRecord:
Exit Sub

Err_PreviewRecord:

```

```

ProcessDBError
Resume Exit_PreviewRecord
End Sub

Private Sub UnloadMainForm()
Unload Me
End Sub

' Check the saving status; if not successful, then get focus back
' to the previous control
Private Function SaveSuccess() As Boolean
On Error GoTo Err_SaveSuccess

SaveSuccess = True

SaveSuccess = SaveMainRecord
If (Not SaveSuccess) And (Not m_pCurMainCtl Is Nothing) Then
m_pCurMainCtl.SetFocus
End If

Exit_SaveSuccess:
Exit Function

Err_SaveSuccess:
ProcessDBError
Resume Exit_SaveSuccess
End Function

Private Function SaveMainRecord() As Boolean
On Error GoTo Err_SaveMainRecord

Dim idx As Integer
Dim nodex As Long
Dim lastText As Long
Dim lastType As String

SaveMainRecord = False

' if the form is not dirty, then nothing to do
If Not pMainDirty Then
SaveMainRecord = True
Exit Function
End If

Select Case pCurMode
Case MODE_VIEW_AND_EDITING
If SaveRecord Then
' if user changed the field that is shown as node label, then update the label
If txtFields(0) <> tvwMain.GetNodeText(m_pSelNode.SelTreeNodePtr) Then
UpdateNode m_pSelNode.SelTreeNodePtr, CStr(txtFields(0))
End If
pCurMode = MODE_VIEW
SaveMainRecord = True
pMainDirty = False
End If

Case MODE_ADD_AND_EDITING
If SaveRecord Then
lastText = txtFields(0)
pCurMode = MODE_VIEW
pMainDirty = False
RefreshTree False

' find the newly added node and select
nodex = FindNodeInTree(lastText)
If nodex <> 0 Then
tvwMain.SelectItem nodex
End If
SaveMainRecord = True

```

```

    End If
  End Select

Exit_SaveMainRecord:
  Exit Function

Err_SaveMainRecord:
  ProcessDBError
  Resume Exit_SaveMainRecord
End Function

Private Function SaveRecord() As Boolean
  On Error GoTo Err_SaveRecord

  Dim strSQL As String
  Dim RecCount As Long
  Dim updstring As String
  Dim insstring As String
  Dim cData As clsGetData

  SaveRecord = False

  If Not RecordIsValid Then
    Exit Function
  End If

  Select Case pCurMode
    Case MODE_ADD_AND_EDITING
      ' try to insert the new record
      insstring = CreateOneInsertString
      strSQL = "insert into Indent " & insstring

      Set cData = New clsGetData
      Call cData.RunQuery(m_ConStr, strSQL, RecCount, CURRENT_USERID, CURRENT_COMPUTERNAME)

      If RecCount > 0 Then
        ' if save was successful then reset the dirty flags of entry fields
        ResetDirtyFlag
        SaveRecord = True
      End If

    Case MODE_VIEW_AND_EDITING
      updstring = CreateOneUpdateString
      If m_pSelNode.SelNodeId <> -1 Then
        If updstring <> "" Then
          ' if need to update, then update
          strSQL = "update Indent set " & updstring & _
            " where InvType=" & INV_TYPE & " and InvNo=" & m_pSelNode.SelNodeId

          Set cData = New clsGetData
          Call cData.RunQuery(m_ConStr, strSQL, RecCount, CURRENT_USERID, CURRENT_COMPUTERNAME)

          If RecCount > 0 Then
            ResetDirtyFlag
            SaveRecord = True
          End If
        Else
          ResetDirtyFlag
          SaveRecord = True
        End If
      End If
    End Select

Exit_SaveRecord:
  Set cData = Nothing
  Exit Function

Err_SaveRecord:
  ProcessDBError

```

```

Resume Next
End Function

' Create a string that will be used for updating the record
Private Function CreateOneUpdateString() As String
On Error GoTo Err_CreateOneUpdateString

Dim idx As Integer
Dim strsql As String

    strsql = ""
    For idx = txtFields.LBound To txtFields.UBound
        ' if the control is dirty then include it in the update string
        If p_txtFields(idx).IsDirty Then
            strsql = strsql & p_txtFields(idx).pBoundField & "=" & _
                mGetDBText(txtFields(idx), p_txtFields(idx).pDataFormat, p_txtFields(idx).pUserFormat) & ","
        End If
    Next idx

    For idx = cboFields.LBound To cboFields.UBound
        ' if the control is dirty then include it in the update string
        If cboFields(idx).IsDirty Then
            strsql = strsql & cboFields(idx).pBoundField & "=" & cboFields(idx).mGetDBText & ","
        End If
    Next idx

    ' if check box is dirty
    For idx = chkFields.LBound To chkFields.UBound
        If GetProp(chkFields(idx).hwnd, "IsDirty") Then
            strsql = strsql & chkFields(idx).Tag & "=" & GetCheckValue(chkFields(idx).hwnd) & ","
        End If
    Next idx

    If Right$(strsql, 1) = "," Then
        strsql = Left$(strsql, Len(strsql) - 1)
    End If

    CreateOneUpdateString = strsql

Exit_CreateOneUpdateString:
Exit Function

Err_CreateOneUpdateString:
ProcessDBError
Resume Exit_CreateOneUpdateString

End Function

' Create the string that will be used for inserting records into the table
Private Function CreateOneInsertString() As String
On Error GoTo Err_CreateOneInsertString

Dim idx As Integer
Dim strsql As String
Dim strfields As String
Dim strvals As String

    For idx = txtFields.LBound To txtFields.UBound
        ' if the control is dirty, then include in the insert string
        If p_txtFields(idx).pBoundField <> "" Then
            strfields = strfields & p_txtFields(idx).pBoundField & ","
            strvals = strvals & mGetDBText(txtFields(idx), p_txtFields(idx).pDataFormat,
p_txtFields(idx).pUserFormat) & ","
        End If
    Next idx

    For idx = cboFields.LBound To cboFields.UBound
        ' if the control is dirty, then include in the insert string
        If cboFields(idx).pBoundField <> "" Then

```

```

        strfields = strfields & cboFields(idx).pBoundField & ","
        strvals = strvals & cboFields(idx).mGetDBText & ","
    End If
Next idx

For idx = chkFields.LBound To chkFields.UBound
    strfields = strfields & chkFields(idx).Tag & ","
    strvals = strvals & GetCheckValue(chkFields(idx).hwnd) & ","
Next idx

If Right$(strfields, 1) = "," Then
    strfields = Left$(strfields, Len(strfields) - 1)
End If

If Right$(strvals, 1) = "," Then
    strvals = Left$(strvals, Len(strvals) - 1)
End If

If strfields <> "" And strvals <> "" Then
    CreateOneInsertString = "(" & strfields & ") values (" & strvals & ")"
End If

Exit_CreateOneInsertString:
Exit Function

Err_CreateOneInsertString:
ProcessDBError
Resume Exit_CreateOneInsertString

End Function

' Reset all the dirty controls to normal state
Private Sub ResetDirtyFlag()
On Error GoTo Err_ResetDirtyFlag

Dim idx As Integer

    For idx = txtFields.LBound To txtFields.UBound
        If p_txtFields(idx).IsDirty Then
            p_txtFields(idx).IsDirty = False
        End If
    Next idx

    For idx = cboFields.LBound To cboFields.UBound
        If cboFields(idx).IsDirty Then
            cboFields(idx).IsDirty = False
        End If
    Next idx

    For idx = chkFields.LBound To chkFields.UBound
        SetProp chkFields(idx).hwnd, "IsDirty", False
    Next idx

Exit_ResetDirtyFlag:
Exit Sub

Err_ResetDirtyFlag:
ProcessDBError
Resume Exit_ResetDirtyFlag

End Sub

Private Function AddBlankItem() As Long
On Error GoTo Err_AddBlankItem

Dim idx As Integer
Dim nextid As Long

```

```

AddBlankItem = 0

nextid = lvwSub.Count
lvwSub.AddItem "", 12

For idx = 1 To 6
    lvwSub.AddSubItem nextid, idx, ""
Next idx

AddBlankItem = nextid

Exit_AddBlankItem:
Exit Function

Err_AddBlankItem:
ProcessDBError
Resume Exit_AddBlankItem
End Function

Private Function SaveSubRecord(LastIndex As Long) As Boolean
On Error GoTo Err_SaveSubRecord

Dim strSQL As String
Dim RecCount As Long
Dim updstring As String
Dim insstring As String
Dim cData As clsGetData
Dim newID As Long

SaveSubRecord = False

' if the form is not dirty, then nothing to do
If Not pSubDirty Then
    SaveSubRecord = True
    Exit Function
End If

If Not SubRecordIsValid Then
    Exit Function
End If

If Not CanSaveSubRecord Then
    Exit Function
End If

Select Case pCurMode
Case MODE_ADD_AND_EDITING
    ' try to insert the new record
    insstring = CreateSubInsertString(LastIndex)
    strSQL = "insert into IndentItems " & insstring
    Set cData = New clsGetData
    Call cData.InsertRecIdentity(m_ConStr, strSQL, newID, "ItemSI", RecCount, CURRENT_USERID,
CURRENT_COMPUTERNAME)

    If RecCount > 0 Then
        lvwSub.SetTag LastIndex, 1, newID
        SaveSubRecord = True
        pSubDirty = False
        pCurMode = MODE_VIEW
    End If

Case MODE_VIEW_AND_EDITING
    updstring = CreateSubUpdateString
    If updstring <> "" Then
        ' if need to update, then update
        strSQL = "update IndentItems set " & updstring & _
" where ItemSI=" & lvwSub.GetTag(LastIndex, 1)

```

```

        Set cData = New clsGetData
        Call cData.RunQuery(m_ConStr, strsql, RecCount, CURRENT_USERID, CURRENT_COMPUTERNAME)
        If RecCount > 0 Then
            SaveSubRecord = True
            pSubDirty = False
            pCurMode = MODE_VIEW
        End If
    Else
        SaveSubRecord = True
        pSubDirty = False
        pCurMode = MODE_VIEW
    End If
End Select

Exit_SaveSubRecord:
    Set cData = Nothing
    Exit Function

Err_SaveSubRecord:
    ProcessDBError
    Resume Next
End Function

' Create a string which will be used for updating the record
Private Function CreateSubUpdateString() As String
    On Error GoTo Err_CreateSubUpdateString

    Dim idx As Integer
    Dim strsql As String

    strsql = ""
    For idx = txtSub.LBound To txtSub.UBound
        ' if the control is dirty then include it in the update string
        If txtSub(idx).IsDirty Then
            strsql = strsql & txtSub(idx).pBoundField & "=" & txtSub(idx).mGetDBText & ","
        End If
    Next idx

    For idx = cboSub.LBound To cboSub.UBound
        ' if the control is dirty then include it in the update string
        If cboSub(idx).IsDirty Then
            strsql = strsql & cboSub(idx).pBoundField & "=" & cboSub(idx).mGetDBText & ","
        End If
    Next idx

    If Right$(strsql, 1) = "," Then
        strsql = Left$(strsql, Len(strsql) - 1)
    End If

    CreateSubUpdateString = strsql

Exit_CreateSubUpdateString:
    Exit Function

Err_CreateSubUpdateString:
    ProcessDBError
    Resume Exit_CreateSubUpdateString

End Function

' Create the string that will be used for inserting records into the table
Private Function CreateSubInsertString(NewIndex As Long) As String
    On Error GoTo Err_CreateSubInsertString

    Dim idx As Integer
    Dim strsql As String
    Dim strfields As String
    Dim strvals As String

```

```

strfields = "InvNo,InvType,"
strvals = m_pSelNode.SelNodeId & "," & INV_TYPE & ","

For idx = txtSub.LBound To txtSub.UBound
  ' if the control is dirty, then include in the insert string
  If txtSub(idx).pBoundField <> "" Then
    strfields = strfields & txtSub(idx).pBoundField & ","
    strvals = strvals & txtSub(idx).mGetDBText & ","
  End If
Next idx

For idx = cboSub.LBound To cboSub.UBound
  ' if the control is dirty, then include in the insert string
  If cboSub(idx).pBoundField <> "" Then
    strfields = strfields & cboSub(idx).pBoundField & ","
    strvals = strvals & cboSub(idx).mGetDBText & ","
  End If
Next idx

If Right$(strfields, 1) = "," Then
  strfields = Left$(strfields, Len(strfields) - 1)
End If

If Right$(strvals, 1) = "," Then
  strvals = Left$(strvals, Len(strvals) - 1)
End If

If strfields <> "" And strvals <> "" Then
  CreateSubInsertString = "(" & strfields & ") values (" & strvals & ")"
End If

Exit_CreateSubInsertString:
Exit Function

Err_CreateSubInsertString:
ProcessDBError
Resume Exit_CreateSubInsertString

End Function

' Reset all the dirty controls to normal state
Private Sub ResetSubDirtyFlag()
On Error GoTo Err_ResetSubDirtyFlag

Dim idx As Integer

  For idx = txtSub.LBound To txtSub.UBound
    If txtSub(idx).IsDirty Then
      txtSub(idx).IsDirty = False
    End If
  Next idx

  For idx = cboSub.LBound To cboSub.UBound
    If cboSub(idx).IsDirty Then
      cboSub(idx).IsDirty = False
    End If
  Next idx

Exit_ResetSubDirtyFlag:
Exit Sub

Err_ResetSubDirtyFlag:
ProcessDBError
Resume Exit_ResetSubDirtyFlag
End Sub

Private Sub AddNewSubRecord()
On Error GoTo Err_AddNewSubRecord

```

```
Dim newidx As Long
```

```
    If m_pSelNode.SelNodeId = -1 Or _
        pCurMode = MODE_ADD Then
        Exit Sub
    End If
```

```
    If SaveSuccess Then
        newidx = AddBlankItem
        lvwSub.SetSelectedItem newidx
        lvwSub.EnsureVisible newidx, False
        lvwSub.ActivateEditControls newidx, 0
        pCurMode = MODE_ADD
    End If
```

```
Exit_AddNewSubRecord:
    Exit Sub
```

```
Err_AddNewSubRecord:
    ProcessDBError
    Resume Exit_AddNewSubRecord
End Sub
```

```
Private Sub DeleteSubRecord()
    On Error GoTo Err_DeleteSubRecord
```

```
    Dim strsql As String
    Dim RecCount As Long
    Dim delIndex As Long
    Dim idx As Long
    Dim totItemCount As Long
    Dim cData As clsGetData
```

```
    delIndex = lvwSub.GetSelectedItem
    totItemCount = lvwSub.Count
```

```
    If m_pSelNode.SelNodeId = -1 Or _
        totItemCount = 0 Or _
        lvwSub.GetSelectedItem = -1 Or _
        pCurMode = MODE_ADD Then
        Exit Sub
    End If
```

```
    If SaveSuccess Then
        If MsgBox("Do you really want to delete the selected Indent Item?", vbYesNo + vbQuestion +
vbDefaultButton2) = vbYes Then
            strsql = "delete from IndentItems " & _
                " where ItemSI=" & lvwSub.GetTag(delIndex, 1)

            Set cData = New clsGetData
            Call cData.RunQuery(m_ConStr, strsql, RecCount, CURRENT_USERID, CURRENT_COMPUTERNAME)

            If RecCount > 0 Then
                lvwSub.DeleteItem delIndex
            End If
        End If
        lvwSub.SetFocus
    End If
```

```
Exit_DeleteSubRecord:
    Set cData = Nothing
    Exit Sub
```

```
Err_DeleteSubRecord:
    ProcessDBError
    Resume Exit_DeleteSubRecord
End Sub
```

```

Private Sub UndoSubRecord()
On Error GoTo Err_UndoSubRecord

    lvwSub.SetFocus
    lvwSub.HideEditControls

    Select Case pCurMode
        Case MODE_ADD, MODE_ADD_AND_EDITING
            lvwSub.DeleteItem lvwSub.GetSelectedItem
    End Select

    pCurMode = MODE_VIEW

Exit_UndoSubRecord:
    Exit Sub

Err_UndoSubRecord:
    ProcessDBError
    Resume Exit_UndoSubRecord
End Sub

Private Sub InitOneFields()
On Error GoTo Err_InitOneFields

Dim cData As clsGetData
Dim strSQL As String
Dim nextWo As Variant
Dim curDate As Date
Dim RecCount As Long
Dim recArray As Variant

    strSQL = "select max(InvNo) From Indent "
    Set cData = New clsGetData
    nextWo = nz(cData.RunSQLReturnValue(m_ConStr, strSQL), 0) + 1

    strSQL = "select InvPrepBy, InvAppBy, InvSupBy from Warehouse"
    Call cData.GetRecordsFromSQL(m_ConStr, strSQL, RecCount, recArray)

    m_pUserChanged = False

    txtFields(0) = nz(nextWo, "")
    txtFields(4) = INV_TYPE
    curDate = ConvertDateDMY(Date)
    txtFields(1) = curDate
    txtFields(2) = curDate
    txtFields(3) = curDate
    If RecCount = 1 Then
        cboFields(1) = nz(recArray(0, 0), 0)
        cboFields(2) = nz(recArray(1, 0), 0)
        cboFields(3) = nz(recArray(2, 0), 0)
    End If

    m_pUserChanged = True

Exit_InitOneFields:
    Set cData = Nothing
    Erase recArray
    Exit Sub

Err_InitOneFields:
    ProcessDBError
    Resume Exit_InitOneFields
End Sub

Private Sub Sub_Change()
On Error GoTo Err_Sub_Change

```

```
If lvwSub.RaiseUpdate Then
  lvwSub.bEditing = True
  If pCurMode = MODE_VIEW Then
    pCurMode = MODE_VIEW_AND_EDITING
  ElseIf pCurMode = MODE_ADD Then
    pCurMode = MODE_ADD_AND_EDITING
  End If
  pSubDirty = True
End If

Exit_Sub_Change:
Exit Sub

Err_Sub_Change:
ProcessDBError
Resume Exit_Sub_Change
End Sub

Private Sub Sub_KeyPress(Index As Integer, KeyAscii As Integer)
On Error GoTo Err_Sub_KeyPress

  If KeyAscii = 10 Or KeyAscii = 13 Then
    SendKeys "{TAB}"
    KeyAscii = 0
  ElseIf KeyAscii = 27 Then
    UndoSubRecord
    KeyAscii = 0
  End If

Exit_Sub_KeyPress:
Exit Sub

Err_Sub_KeyPress:
ProcessDBError
Resume Exit_Sub_KeyPress
End Sub

Private Sub Main_KeyPress(Index As Integer, KeyAscii As Integer, Optional pMultiline As Boolean = False)
On Error GoTo Err_Main_KeyPress

  If (KeyAscii = 10 Or KeyAscii = 13) And (Not pMultiline) Then
    SendKeys "{TAB}"
    KeyAscii = 0
  ElseIf KeyAscii = 27 Then
    UndoMainRecord
    KeyAscii = 0
  End If

Exit_Main_KeyPress:
Exit Sub

Err_Main_KeyPress:
ProcessDBError
Resume Exit_Main_KeyPress
End Sub

Private Sub Main_Change()
On Error GoTo Err_Main_Change

  If m_pUserChanged Then
    If pCurMode = MODE_VIEW Then
      pCurMode = MODE_VIEW_AND_EDITING
    ElseIf pCurMode = MODE_ADD Then
      pCurMode = MODE_ADD_AND_EDITING
    End If
    pMainDirty = True
  End If

Exit_Main_Change:
```

```

Exit Sub

Err_Main_Change:
  ProcessDBError
  Resume Exit_Main_Change
End Sub

Private Sub CalcSubTotFields()
On Error GoTo Err_CalcSubTotFields

Dim tmpC As Long
Dim tmpA As Double
Dim qty As Double
Dim idx As Long
Dim amt As Variant
Dim qtystr As String
Dim amtstr As String

  tmpC = lvwSub.Count
  tmpA = 0

  totFields(0) = tmpC

Exit_CalcSubTotFields:
  Exit Sub

Err_CalcSubTotFields:
  ProcessDBError
  Resume Exit_CalcSubTotFields

End Sub

Private Sub UpdateTotalNode()
  lblTotalNode = lblTotalNode.Tag & CStr(m_pRecCount)
End Sub

Private Sub GetNodeInfo(tNode As tagSelNodeOne, nodePtr As Long)
On Error GoTo Err_GetNodeInfo

Dim thNode As tagHSelNodeOne
Dim hitemptr As Long

  ' first get the hitem from node
  hitemptr = tvwMain.GetHItem(nodePtr)

  If hitemptr <> 0 Then
    CopyMemory thNode, ByVal hitemptr, Len(thNode)
    tNode.SelNodeId = thNode.SelNodeId
    tNode.SelNodeType = thNode.SelNodeType
    tNode.TypeOfNode = thNode.TypeOfNode
    tNode.SelTreeNodePtr = nodePtr
  Else
    tNode.SelNodeId = -1
    tNode.SelNodeType = ""
    tNode.TypeOfNode = 0
    tNode.SelTreeNodePtr = nodePtr
  End If

Exit_GetNodeInfo:
  Exit Sub

Err_GetNodeInfo:
  ProcessDBError
  Resume Exit_GetNodeInfo
End Sub

Private Sub FreeNodeInfo(tvhid As Long)
On Error GoTo Err_FreeNodeInfo

```

```

Dim tvId As tagHSelNodeOne
Dim hItemPtr As Long

' after a node is deleted, clear the memory associated with it
hItemPtr = tvwMain.GetItem(tvId)
If hItemPtr <> 0 Then
    MoveMemory tvId, ByVal hItemPtr, Len(tvId)
    isMalloc.Free ByVal hItemPtr
End If

Exit_FreeNodeInfo:
Exit Sub

Err_FreeNodeInfo:
ProcessDBError
Resume Exit_FreeNodeInfo
End Sub

' Finds a specific node pointer from the nodes array. take a long
' value as parameter and compares with a field in hItem of every
' node in the node array
Private Function FindNodeInTree(recId As Long) As Long
On Error GoTo Err_FindNodeInTree

Dim idx As Long
Dim tvId As tagSelNodeOne

FindNodeInTree = 0
' search through the node pointer array
For idx = LBound(m_NodePtr, 1) To UBound(m_NodePtr, 1)
    ' if there is hItem associated
    ' get the item to tvId
    GetNodeInfo tvId, m_NodePtr(idx)
    ' does the search id matches with this node?
    If tvId.SelNodeId = recId Then
        ' if yes, then return the node id
        FindNodeInTree = m_NodePtr(idx)
        Exit For
    End If
Next

Exit_FindNodeInTree:
Exit Function

Err_FindNodeInTree:
ProcessDBError
Resume Exit_FindNodeInTree
End Function

Private Sub UpdateNode(nodePtr As Long, updateText As String)
On Error GoTo Err_UpdateNode

Dim thNode As tagHSelNodeOne
Dim hItemPtr As Long

' first get the hItem from node
hItemPtr = tvwMain.GetItem(nodePtr)

If hItemPtr <> 0 Then
    CopyMemory thNode, ByVal hItemPtr, Len(thNode)
    thNode.SelNodeId = CLng(updateText)
    CopyMemory ByVal hItemPtr, thNode, Len(thNode)
End If

twMain.SetNodeText nodePtr, updateText
GetNodeInfo m_pSelNode, nodePtr

Exit_UpdateNode:
Exit Sub

```

```

Err_UpdateNode:
    ProcessDBError
    Resume Exit_UpdateNode

```

```
End Sub
```

```

.....
' This procedure fills the dropdown list of the form
' that will be used for data selection
' Last Update Date: April 2, 2003
'
' Parameters: none
' Return Value: none
.....

```

```

Private Sub FillFormCombo( _
    m_FacilityArray As Variant, _
    m_EmpArray As Variant, _
    m_IndDesigArray As Variant, _
    m_ItemsArray As Variant _
)

```

```
On Error GoTo Err_FillFormCbo
```

```

Dim cData As clsGetData
Dim RecCount As Long
Dim strSQL As String
Dim idx As Long

```

```
    Set cData = New clsGetData
```

```
    Call cData.GetRecordsFromSP(m_ConStr, "GetFacilityList", RecCount, m_FacilityArray)
```

```
    Call cData.GetRecordsFromSP(m_ConStr, "GetEmpList", RecCount, m_EmpArray)
```

```
    Call cData.GetRecordsFromSP(m_ConStr, "GetIndentDesigList", RecCount, m_IndDesigArray)
```

```
    Call cData.GetRecordsFromSP(m_ConStr, "GetLotPickListForIssue", RecCount, m_ItemsArray,
Array(mp("@SqlType", adInteger, 4, 0), mp("@GroupCode", adVarChar, 100, "(ALL)")))
```

```

Exit_FillFormCbo:
    Set cData = Nothing
    Exit Sub

```

```

Err_FillFormCbo:
    ProcessDBError
    Resume Exit_FillFormCbo
End Sub

```

```

Private Sub GetTreeWoList( _
    recArray As Variant, _
    RecCount As Long, _
    pQtype As Long, _
    Optional pSDate As String, _
    Optional pEDate As String, _
    Optional pInvNo As Long _
)

```

```

Dim cData As clsGetData
Dim strSQL As String

```

```
    Set cData = New clsGetData
```

```
    If pSDate = "" Then
        pSDate = "01/01/1900"
```

```
    Else
        pSDate = FormatDateADO(pSDate)
    End If

```

```

End If
If pEDate = "" Then
    pEDate = "01/01/2900"
Else
    pEDate = FormatDateADO(pEDate)
End If

    Call cData.GetRecordsFromSP(m_ConStr, "GetIssueInvTree", RecCount, recArray, _
        Array(mp("@SqlType", adInteger, 4, pQtype), _
            mp("@InvType", adInteger, 4, INV_TYPE), _
            mp("@pSDate", adVarChar, 10, pSDate), _
            mp("@pEDate", adVarChar, 10, pEDate), _
            mp("@InvNo", adInteger, 4, pInvNo)))

End Sub

Public Sub PopulateTreeMain( _
    twwMain As MyTreeView, _
    recArray As Variant, _
    m_pRecCount As Long, _
    m_NodePtr() As Long, _
    Optional brefresh As Boolean, _
    Optional bGrouping As Boolean = False _
)
On Error GoTo Err_PopulateTreeMain

Dim lptvid As Long
Dim tvhid_one As tagHSelNodeOne
Dim lastclient As String
Dim lastdate As String
Dim lastdyeline As Long
Dim hitemRoot As Long
Dim hitemchild As Long
Dim hitemClient As Long
Dim hitemParent As Long
Dim idx As Long
Dim tmpIdx As Long
Dim tmpNodeIdx As Long
Dim ntext As String
Dim curstdate As String

Dim zProgBar As CProgBar32
Dim zProgBarMax As Integer
Dim zProgBarStep As Integer
Dim zIter As Integer
Dim pRect As RECT

    Set zProgBar = New CProgBar32
    ' initialize the progress bar
    With zProgBar
        .SethWndParent = frmMain.sBar.GetStatBarHwnd 'Me.hwnd
        frmMain.sBar.GetPanelRect "Panel_1", pRect.Left, pRect.Top, pRect.Right, pRect.Bottom
        .Create pRect.Left, pRect.Top, pRect.Right - pRect.Left, pRect.Bottom - pRect.Top, False
    End With

    ' clear the tree first
    twwMain.DeleteAllItems

    ' insert root node
    hitemRoot = twwMain.AddNode(, ROOT_TEXT, m_pRecCount <> 0, , ROOT_NODE_ICON, ROOT_NODE_ICON)

    If m_pRecCount <> 0 Then
        zProgBarMax = m_pRecCount
        zProgBar.setrange 0, zProgBarMax
        zProgBarStep = zProgBarMax \ 100
        If zProgBarStep = 0 Then
            zProgBarStep = m_pRecCount
        End If
        zProgBar.SetStep zProgBarStep
    End If

```

```

End If

' create the node pointer array
ReDim m_NodePtr(0 To m_pRecCount)
m_NodePtr(0) = hitemRoot

lastclient = -999
lastdate = ""
lastdyeline = -999
' create all the nodes
For idx = 1 To m_pRecCount
  If Not bGrouping Then
    tvhid_one.SelNodeId = recArray(0, idx - 1)
    tvhid_one.SelNodeType = -1
    tvhid_one.TypeOfNode = 1
    lptvid = SetNodeInfo_One(tvhid_one)
    hitemchild = tvwMain.AddNode(hitemRoot, recArray(0, idx - 1), , lptvid, LEAF_NODE_ICON,
LEAF_NODE_SELICON)
  Else
    If lastclient <> recArray(0, idx - 1) Then
      hitemClient = tvwMain.AddNode(hitemRoot, recArray(0, idx - 1), True, , PARENT_NODE_ICON,
PARENT_NODE_SELICON)
      lastclient = recArray(0, idx - 1)
    End If
    tvhid_one.SelNodeId = recArray(1, idx - 1)
    tvhid_one.SelNodeType = -1
    tvhid_one.TypeOfNode = 1
    lptvid = SetNodeInfo_One(tvhid_one)
    hitemchild = tvwMain.AddNode(hitemClient, recArray(1, idx - 1), , lptvid, LEAF_NODE_ICON,
LEAF_NODE_SELICON)
  End If

  ' store node id and hitem id in node pointer array
  m_NodePtr(idx) = hitemchild

  If idx Mod zProgBarStep = 0 Then
    zProgBar.StepIt
  End If

Next idx

' Expand the root
twwMain.Expand hitemRoot, TVE_EXPAND

Call UpdateWindow(tvwMain.hwnd)

If brefresh Then
  ' find the first child
  hitemchild = tvwMain.GetChild(hitemRoot)
  If hitemchild = 0 Then
    ' if no child, then select the root
    tvwMain.SelectItem (hitemRoot)
  Else
    ' else, select the first child
    tvwMain.SelectItem hitemchild
  End If
End If

Exit_PopulateTreeMain:
zProgBar.DestroyProgBar
Exit Sub

Err_PopulateTreeMain:
ProcessDBError
Resume Exit_PopulateTreeMain
End Sub

```

```

Private Sub GetOneWoInfo(ByVal plnvNo As Long, oneCount As Long, oneArray As Variant, Optional manyCount As
Long, Optional manyArray As Variant)
Dim cData As clsGetData
Dim strsql As String

    Set cData = New clsGetData

    Call cData.GetRecordsFromSP(m_ConStr, "GetIssueInvOneInfo", oneCount, oneArray, _
        Array(mp("@SqlType", adInteger, 4, 1), mp("@InvType", adInteger, 4, INV_TYPE), mp("@InvNo",
adInteger, 4, m_pSelNode.SelNodeId)))

    If Not IsMissing(manyArray) Then
        Call cData.GetRecordsFromSP(m_ConStr, "GetIssueInvManyInfo", manyCount, manyArray, _
            Array(mp("@SqlType", adInteger, 4, 1), mp("@InvType", adInteger, 4, INV_TYPE), mp("@InvNo",
adInteger, 4, m_pSelNode.SelNodeId)))
        End If

    Set cData = Nothing
End Sub

Private Function PostToStock() As Boolean
On Error GoTo Err_PostToStock

Dim cData As clsGetData
Dim strsql As String
Dim RecCount As Long

    PostToStock = False

    If m_pSelNode.SelNodeId <> -1 And lvwSub.Count > 0 Then
        If MsgBox("Do you really want to update " & lvwSub.Count & " items to stock?" & vbCrLf & _
            "You will not be able to edit this invoice after update", vbYesNo + vbQuestion + vbDefaultButton2) =
vbYes Then
            Set cData = New clsGetData

            RecCount = cData.RunSPReturnInteger(m_ConStr, "PostToStock_IssueInv", Array(mp("@InvType",
adInteger, 4, INV_TYPE), mp("@InvNo", adInteger, 4, m_pSelNode.SelNodeId)))
            If RecCount > 0 Then
                MsgBox lvwSub.Count & " items posted to stock successfully", vbInformation
                m_pUserChanged = False
                SetCheckValue chkFields(0).hwnd, vbChecked
                m_pUserChanged = True
                cmdMain(6).Enabled = False
                cmdMain(3).Enabled = False
                PostToStock = True
            Else
                MsgBox "Cannot post more than Stock Quantity", vbInformation
            End If
        End If
    End If

Exit_PostToStock:
    Set cData = Nothing
Exit Function

Err_PostToStock:
    ProcessDBError
    Resume Exit_PostToStock
End Function

Private Sub LockFormEditing()
On Error GoTo Err_LockFormEditing

Dim idx As Long

    For idx = txtFields.LBound To txtFields.UBound
        txtFields(idx).Locked = True
    Next idx

```

```

For idx = cboFields.LBound To cboFields.UBound
    cboFields(idx).Enabled = False
Next idx

For idx = chkFields.LBound To chkFields.UBound
    chkFields(idx).Enabled = False
Next idx

lvwSub.EditEnabled = False

For idx = cmdSub.LBound To cmdSub.UBound
    cmdSub(idx).Enabled = False
Next idx

cmdMain(0).Enabled = False
cmdMain(1).Enabled = False
cmdMain(2).Enabled = False
cmdMain(3).Enabled = False
cmdMain(6).Enabled = False

pCurMode = MODE_READONLY

Exit_LockFormEditing:
Exit Sub

Err_LockFormEditing:
ProcessDBError
Resume Exit_LockFormEditing
End Sub

Private Sub ICrystalEngine_getParameters(ByVal jobHandle As Integer)
    ParamValInfo.StructSize = PE_SIZEOF_VALUE_INFO
    ParamValInfo.ValueType = PE_VI_STRING
    ParamValInfo.viString = GetWarehouseForReport & Chr$(0)
    Call PEAddParameterCurrentValue(jobHandle, "FacilityHeader" & Chr$(0), "" + Chr$(0), ParamValInfo)

    ParamValInfo.StructSize = PE_SIZEOF_VALUE_INFO
    ParamValInfo.ValueType = PE_VI_NUMBER
    ParamValInfo.viNumber = INV_TYPE
    Call PEAddParameterCurrentValue(jobHandle, "@InvType" & Chr$(0), "" + Chr$(0), ParamValInfo)

    ParamValInfo.ValueType = PE_VI_NUMBER
    ParamValInfo.viNumber = m_pSelNode.SelNodeId
    Call PEAddParameterCurrentValue(jobHandle, "@InvNo" & Chr$(0), "" + Chr$(0), ParamValInfo)

    ParamValInfo.StructSize = PE_SIZEOF_VALUE_INFO
    ParamValInfo.ValueType = PE_VI_NUMBER
    ParamValInfo.viNumber = m_pCurrentCopy
    Call PEAddParameterCurrentValue(jobHandle, "pCopy" & Chr$(0), "" + Chr$(0), ParamValInfo)

End Sub

Private Function RecordIsValid() As Boolean

Dim pInvNo As String
Dim pIndentor As Long
Dim pIndentNo As String
Dim pPrepDate As String
Dim pPrepBy As Long
Dim pErrorMsg As String
Dim pFocusGiven As Boolean
Dim pAppDate As String
Dim pAppBy As Long
Dim pSupDate As String
Dim pSupBy As Long

RecordIsValid = False

pErrorMsg = ""

```

```

pInvNo = Trim(txtFields(0))
pIndentor = cboFields(0).ListIndex
pPrepBy = cboFields(1).ListIndex
pPrepDate = Trim(txtFields(1))
pAppBy = cboFields(2).ListIndex
pAppDate = Trim(txtFields(2))
pSupBy = cboFields(3).ListIndex
pSupDate = Trim(txtFields(3))

If (pInvNo = "") Then
    pErrorMsg = pErrorMsg & "'Invoice No.', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = txtFields(0)
        pFocusGiven = True
    End If
End If

If (pIndentor = -1) Then
    pErrorMsg = pErrorMsg & "'Indentor', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = cboFields(0)
        pFocusGiven = True
    End If
End If

If (pPrepBy = -1) Then
    pErrorMsg = pErrorMsg & "'Prepared By', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = cboFields(1)
        pFocusGiven = True
    End If
End If

If (pPrepDate = "") Then
    pErrorMsg = pErrorMsg & "'Preparation Date', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = txtFields(1)
        pFocusGiven = True
    End If
End If

If (pAppBy = -1) Then
    pErrorMsg = pErrorMsg & "'Approved By', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = cboFields(2)
        pFocusGiven = True
    End If
End If

If (pAppDate = "") Then
    pErrorMsg = pErrorMsg & "'Approved Date', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = txtFields(2)
        pFocusGiven = True
    End If
End If

If (pSupBy = -1) Then
    pErrorMsg = pErrorMsg & "'Supplied By', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = cboFields(3)
        pFocusGiven = True
    End If
End If

If (pSupDate = "") Then
    pErrorMsg = pErrorMsg & "'Supplied Date', "
    If Not pFocusGiven Then
        Set m_pCurMainCtl = txtFields(3)
        pFocusGiven = True
    End If
End If

If pErrorMsg <> "" Then
    pErrorMsg = Left$(pErrorMsg, Len(pErrorMsg) - 2)
    pErrorMsg = pErrorMsg & " cannot be Empty"

```

```

    MsgBox pErrorMsg, vbCritical, "ERROR"
Else
    RecordIsValid = True
End If

End Function

Private Function SubRecordIsValid() As Boolean

Dim pltem As Long
Dim pReqQty As String
Dim plssueQty As String
Dim pReason As Long
Dim pErrorMsg As String
Dim pFocusGiven As Boolean

    SubRecordIsValid = False

    pErrorMsg = ""
    pltem = cboSub(0).ListIndex
    plssueQty = Trim(txtSub(1))

    If (pltem = -1) Then
        pErrorMsg = pErrorMsg & "'Item Name', "
        If Not pFocusGiven Then
            Set m_pCurMainCtl = cboSub(0)
            pFocusGiven = True
        End If
    End If

    If pErrorMsg <> "" Then
        pErrorMsg = Left$(pErrorMsg, Len(pErrorMsg) - 2)
        pErrorMsg = pErrorMsg & " cannot be Empty"
    End If

    If (plssueQty <> "" And (Not IsNumeric(plssueQty))) Then
        If pErrorMsg <> "" Then
            pErrorMsg = pErrorMsg & vbCrLf
        End If
        pErrorMsg = pErrorMsg & "'Issued Qty' is not a Valid Value"
        If Not pFocusGiven Then
            Set m_pCurMainCtl = txtSub(1)
            pFocusGiven = True
        End If
    End If

    If (plssueQty = "") Then
        If pErrorMsg <> "" Then
            pErrorMsg = pErrorMsg & vbCrLf
        End If
        pErrorMsg = pErrorMsg & "'Issued Qty' cannot be Empty"
        If Not pFocusGiven Then
            Set m_pCurMainCtl = txtSub(1)
            pFocusGiven = True
        End If
    End If

    If pErrorMsg <> "" Then
        MsgBox pErrorMsg, vbCritical, "ERROR"
    Else
        SubRecordIsValid = True
    End If

End Function

Private Function CanSaveSubRecord() As Boolean

```

```
On Error GoTo Err_CanSaveSubRecord
```

```
Dim pItemCode As String
Dim pItemQty As Double
Dim pLotNo As String
Dim pMfgDate As String
Dim pExpDate As String
Dim pErrorMsg As String
Dim pFocusGiven As Boolean
Dim cData As clsGetData
Dim RecCount As Long
Dim recArray() As Variant
```

```
CanSaveSubRecord = False
```

```
Set cData = New clsGetData
```

```
pErrorMsg = ""
pItemCode = Trim(cboSub(0))
pItemQty = CDBl(Trim(txtSub(1)))
pLotNo = Trim(txtSub(2))
pMfgDate = FormatDateADO(Trim(txtSub(3)))
pExpDate = FormatDateADO(Trim(txtSub(4)))
```

```
Call cData.GetRecordsFromSP(m_ConStr, "GetItemCurStockQty", _
    RecCount, recArray, Array(mp("@ItemCode", adVarChar, 100, pItemCode), mp("@LotNo", adVarChar,
    100, pLotNo), mp("@MfgDate", adVarChar, 100, pMfgDate), mp("@ExpDate", adVarChar, 100, pExpDate)))
```

```
If RecCount > 0 Then
```

```
    If pItemQty > CDBl(recArray(0, 0)) Then
```

```
        pErrorMsg = pErrorMsg & "Cannot Issue More Than Stock Quantity." & vbCrLf & _
            "Current Stock Quantity: " & Format(CDBl(recArray(0, 0)), "#,###")
```

```
    If Not pFocusGiven Then
```

```
        Set m_pCurMainCtl = txtSub(1)
```

```
        pFocusGiven = True
```

```
    End If
```

```
End If
```

```
End If
```

```
If pErrorMsg <> "" Then
```

```
    MsgBox pErrorMsg, vbCritical, "ERROR"
```

```
Else
```

```
    CanSaveSubRecord = True
```

```
End If
```

```
Exit_CanSaveSubRecord:
```

```
    Set cData = Nothing
```

```
    Erase recArray
```

```
    Exit Function
```

```
Err_CanSaveSubRecord:
```

```
    CanSaveSubRecord = False
```

```
    Resume Exit_CanSaveSubRecord
```

```
End Function
```

```
Private Sub cmdClose_Click()
```

```
    picPrintOptions.Visible = False
```

```
End Sub
```

```
Private Sub cmdPrint_Click()
```

```
    Dim idx As Integer
```

```
    Dim bPosted As Boolean
```

```
    If chkFields(0).Value = vbUnchecked Then
```

```
        bPosted = PostToStock
```

```
    Else
```

```
        bPosted = True
```

```
    End If
```

```

    If bPosted Then
        For idx = optPrint.LBound To optPrint.UBound
            If optPrint(idx).Value Then
                PreviewRecord idx
                Exit For
            End If
        Next idx
    End If
    cmdClose_Click
End Sub

'===== END of USER-DEFINED FUNCTIONS ====='

'===== START of LISTVIEW INTERFACE IMPLEMENTATION ====='

Private Sub IListViewOwner_AfterEditComplete(hwndLVW As Long)
'
End Sub

Private Sub IListViewOwner_AfterItemClick(hwndLVW As Long, ItemIndex As Long, subitemIndex As Long)
'
End Sub

Private Sub IListViewOwner_AfterUpdate(hwndLVW As Long, ItemIndex As Long)
On Error GoTo Err_IListViewOwner_AfterUpdate

    If lwSub.hwnd = hwndLVW Then
        ' recalc the total fields
        CalcSubTotFields
    End If

Exit_IListViewOwner_AfterUpdate:
    Exit Sub

Err_IListViewOwner_AfterUpdate:
    ProcessDBError
    Resume Exit_IListViewOwner_AfterUpdate
End Sub

Private Sub IListViewOwner_BeforeListViewClick(hwndLVW As Long, isOK As Boolean, ItemIndex As Long)
On Error GoTo Err_IListViewOwner_BeforeListViewClick

    If lwSub.hwnd = hwndLVW Then
        ' return the save status before clicking on the listview
        isOK = SaveSuccess
    End If

Exit_IListViewOwner_BeforeListViewClick:
    Exit Sub

Err_IListViewOwner_BeforeListViewClick:
    ProcessDBError
    Resume Exit_IListViewOwner_BeforeListViewClick
End Sub

Private Sub IListViewOwner_BeforeUpdate(hwndLVW As Long, isOK As Boolean, ItemIndex As Long)
On Error GoTo Err_IListViewOwner_BeforeUpdate

    If lwSub.hwnd = hwndLVW Then
        If ItemIndex <> -1 Then
            Select Case pCurMode
                Case MODE_VIEW_AND_EDITING, MODE_ADD_AND_EDITING
                    isOK = SaveSubRecord(ItemIndex)

                Case MODE_ADD
                    isOK = False

                Case MODE_VIEW
                    isOK = True
            End Select
        End If
    End If

Exit_IListViewOwner_BeforeUpdate:
    Exit Sub

Err_IListViewOwner_BeforeUpdate:
    ProcessDBError
    Resume Exit_IListViewOwner_BeforeUpdate
End Sub

```

```

        End Select
    Else
        isOK = True
    End If
End If

Exit_IListViewOwner_BeforeUpdate:
Exit Sub

Err_IListViewOwner_BeforeUpdate:
ProcessDBError
Resume Exit_IListViewOwner_BeforeUpdate
End Sub

Private Sub IListViewOwner_AfterItemDbClick(hwndLVW As Long, ItemIndex As Long, subitemIndex As Long)
'
End Sub

Private Sub IListViewOwner_AfterItemSelected(hwndLVW As Long, ItemIndex As Long)
'
End Sub

Private Sub IListViewOwner_CustomDraw(hwndLVW As Long, iItem As Long, iSubItem As Long, TextBkColor As Long, TextForeColor As Long, bBold As Boolean)
'
End Sub

Private Sub IListViewOwner_CustomDrawIcon(hwndLVW As Long, iItem As Long, hdc As Long, rcLeft As Long, rcTop As Long, rcRight As Long, rcBottom As Long, bSelState As Boolean)
'
End Sub

'===== END of LISTVIEW INTERFACE IMPLEMENTATION ====='

'===== START of TREEVIEW INTERFACE IMPLEMENTATION ====='

Private Sub ITreeViewOwner_AfterNodeDelete(nodePtr As Long)
On Error GoTo Err_tvwMain_AfterNodeDelete

    FreeNodeInfo nodePtr

Exit_tvwMain_AfterNodeDelete:
Exit Sub

Err_tvwMain_AfterNodeDelete:
ProcessDBError
Resume Exit_tvwMain_AfterNodeDelete
End Sub

Private Sub ITreeViewOwner_AfterSelectionChange(nodePtr As Long)
On Error GoTo Err_tvwMain_AfterSelectionChange

Dim oneCount As Long
Dim manyCount As Long
Dim oneArray() As Variant
Dim manyArray() As Variant

' select the first tab
If tabMain.SelectedTab <> 1 Then
    tabMain.SelectTab BASIC_TAB
    tabMain_TabClick 1
End If

GetNodeInfo m_pSelNode, nodePtr

If m_pSelNode.TypeOfNode = 0 Then
' if the node has children then clear everything
ClearControls
CalcSubTotFields

```

```

Else
    Call GetOneWoInfo(m_pSelNode.SelNodeId, oneCount, oneArray, manyCount, manyArray)
    ' show basic information
    FillOneInfo oneArray, oneCount
    FillManyInfo manyArray, manyCount

End If
cmdMain(3).Enabled = (m_pSelNode.TypeOfNode > 0) And (m_pCurMode = MODE_VIEW) And
(chkFields(0).Value = vbUnchecked)
cmdMain(4).Enabled = (m_pSelNode.TypeOfNode > 0)
cmdMain(6).Enabled = (m_pSelNode.TypeOfNode > 0) And (chkFields(0).Value = vbUnchecked)

Exit_tvwMain_AfterSelectionChange:
    Erase oneArray
    Erase manyArray
    Exit Sub

Err_tvwMain_AfterSelectionChange:
    ProcessDBError
    Resume Exit_tvwMain_AfterSelectionChange
End Sub

Private Sub ITreeViewOwner_BeforeNodeClick(isOK As Boolean, tItem As Long)
On Error GoTo Err_tvwMain_BeforeNodeClick

Dim oneArray() As Variant
Dim oneCount As Long

    ' user clicked on node, so try to save first
    If pMainDirty Then
        If pMainDirty Then
            isOK = SaveSuccess
        ElseIf pSubDirty Then
            lvwSub.UpdateLVWStatus 0, 0, 0, 0, isOK
            Exit Sub
        End If

    ' if adding a new record, then just reset the flag
    If pCurMode = MODE_ADD Then
        pCurMode = MODE_VIEW
        If tItem = m_pSelNode.SelTreeNodePtr Then
            Call GetOneWoInfo(m_pSelNode.SelNodeId, oneCount, oneArray)
            FillOneInfo oneArray, oneCount
        End If
    End If

Exit_tvwMain_BeforeNodeClick:
    Erase oneArray
    Exit Sub

Err_tvwMain_BeforeNodeClick:
    ProcessDBError
    Resume Exit_tvwMain_BeforeNodeClick

End Sub

Private Sub ITreeViewOwner_BeforeSelectionChange(isOK As Boolean)
    ' before changing the node selection, to save first
    isOK = SaveSuccess
    ' if adding a new record, then just reset the flag
    If pCurMode = MODE_ADD Then
        pCurMode = MODE_VIEW
    End If
End Sub

'===== END of TREEVIEW INTERFACE IMPLEMENTATION ====='
'===== START of OWNERDRAW BUTTON INTERFACE IMPLEMENTATION ====='

Private Property Get IOwnerDrawButton_ButtonContainerhWnd() As Long

```

```

    IOwnerDrawButton_ButtonContainerhWnd = Me.frameButtons.hwnd
End Property

```

```

Private Property Get IOwnerDrawButton_DoOwnerDraw(ByVal IHwnd As Long) As Boolean
    IOwnerDrawButton_DoOwnerDraw = True
End Property

```

```

Private Sub IOwnerDrawButton_DrawItem(ByVal IHwnd As Long, ByVal IHDC As Long, ByRef ILeft As Long, ByRef
ITop As Long, ByRef IRight As Long, ByRef IBottom As Long, ByVal bPushed As Boolean, ByVal bChecked As
Boolean, ByVal bEnabled As Boolean, ByVal bInFocus As Boolean, ByRef bDoDefault As Boolean)
On Error GoTo Err_IOwnerDrawButton_DrawItem

```

```

Dim ImgIndex As Long
Dim cmdCaption As String

```

```

    Select Case IHwnd
    Case cmdMain(0).hwnd
        ImgIndex = 0
        cmdCaption = cmdMain(0).Caption

```

```

    Case cmdMain(1).hwnd
        ImgIndex = 1
        cmdCaption = cmdMain(1).Caption

```

```

    Case cmdMain(2).hwnd
        ImgIndex = 2
        cmdCaption = cmdMain(2).Caption

```

```

    Case cmdMain(3).hwnd
        ImgIndex = 3
        cmdCaption = cmdMain(3).Caption

```

```

    Case cmdMain(4).hwnd
        ImgIndex = 16
        cmdCaption = cmdMain(4).Caption

```

```

    Case cmdMain(5).hwnd
        ImgIndex = 5
        cmdCaption = cmdMain(5).Caption

```

```

    Case cmdMain(6).hwnd
        ImgIndex = 23
        cmdCaption = cmdMain(6).Caption

```

```

    Case cmdSearch.hwnd
        ImgIndex = 6
        cmdCaption = cmdSearch.Caption

```

```

    Case cmdFilter.hwnd
        ImgIndex = 7
        cmdCaption = cmdFilter.Caption

```

```

    Case cmdSub(0).hwnd
        ImgIndex = 0
        cmdCaption = ""

```

```

    Case cmdSub(1).hwnd
        ImgIndex = 3
        cmdCaption = ""

```

```

End Select

```

```

DrawButton IHwnd, IHDC, ILeft, ITop, IRight, IBottom, _
    m_pImageBtn.hIml, ImgIndex, m_pImageBtn.IconSizeX, cmdCaption, _
    bPushed, bEnabled, bInFocus

```

```

Exit_IOwnerDrawButton_DrawItem:

```

```
Exit Sub  
  
Err_IOwnerDrawButton_DrawItem:  
    ProcessDBError  
    Resume Exit_IOwnerDrawButton_DrawItem  
End Sub
```

```
'===== END of OWNERDRAW BUTTON INTERFACE IMPLEMENTATION ====='
```

For more information, please visit deliver.jsi.com.

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