Retail POS Technical Reference

Microsoft Dynamics® AX 2012 Feature Pack

March 2012

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Introduction

This document provides detailed technical information about the Retail Point of Sale (Retail POS) component of Microsoft Dynamics® AX 2012 Feature Pack and its associated database. IT departments, partners, and ISVs can use this information to configure Retail POS, extend the program's features and capabilities, and create custom solutions for the specific needs of individual retail businesses.

The technical information in this document covers aspects of configuration, operations, rounding, dimensions, discounts, end-of-day procedures, infocodes, staff permissions, tax calculation, electronic funds transfer (EFT), and loyalty programs, as well as a comprehensive list of database table definitions.

Bar code system

This section provides an example of how to configure bar codes in Retail POS. Use the tables and other information in this section as a reference when creating your own bar codes for items, for example.

For additional information about the tables mentioned in this section, see Table definitions later in this document.

Suppose we have three items for sale, each with entries in the following *item tables*.

RETAILINVENTTABLE

ITEMID	ITEMGROUP	ZEROPRICEVALID
CANDY001	CANDY	0
CANDY002	CANDY	0
Shirt01	Clothes	0

INVENTTABLE

ITEMGROUPID	ITEMID	ITEMNAME
Candy	CANDY001	Chewing gum
Candy	CANDY002	Chocolate
Clothes	Shirt01	Polo shirt

INVENTTABLEMODULE

ITEMID	MODULETYPE	PRICE
CANDY001	2	.50
CANDY002	2	1.00
Shirt01	2	22.00

If we have bar codes for the items, the following *bar code tables* are used.

INVENTITEMBARCODE

ITEMBARCODE	ITEMID	QTY
2212345000005	CANDY001	1
2900123451216	Shirt01	2

INVENTTABLE

ITEMGROUPID	ITEMID	ITEMNAME
Candy	CANDY001	Chewing gum
Candy	CANDY002	Chocolate
Clothes	Shirt01	Polo shirt

RETAILBARCODEMASKTABLE

MASKID	MASK	TYPE	SYMBOLOGY
Price0	22IIIIIPPPPPM	1	7
Dimension1	29IIIIIIISCZM	1	7

RETAILBARCODEMASKSEGMENT

MASKID	SEGMENTNUM	TYPE	LENGTH	CHAR	DECIMALS
Price0	0	0	5	I	
Price0	1	7	5	P	2
Price0	2	2	1	M	
Dimension1	0	0	5	I	
Dimension1	1	3	1	S	
Dimension1	2	4	1	C	
Dimension1	3	5	1	Y	

For the dimensions used in this example, the following *dimension tables* are used.

INVENTDIMCOMBINATION

ITEMID	INVENTSIZEID	INVENTCOLORID	INVENTSTYLEID
Shirt01	1	1	1
Shirt01	1	1	2
Shirt01	2	2	1
Shirt01	2	2	2

ECORESSIZE

SIZE	NAME	DESCRIPTION
1	16	Sixteen
2	18	Eighteen

ECORESCOLOR

COLOR	NAME	DESCRIPTION
1	Red	Summer red
2	Blue	Sky blue

ECORESSTYLE

STYLE	NAME	DESCRIPTION
1	Dots	Tiny dots
2	Stripes	Vertical stripes

The following *enumerated data types* (enums) are used.

RETAILBARCODEMASKTABLE. TYPE	RETAILBARCODEMASKSEGMENT. TYPE	RETAILBARCODEMASKTABLE. SYMBOLOGY
None = 0,	NoBarcode = 0,	Item = 0,
Item = 1,	EAN128 = 1,	AnyNumber = 1,
Customer = 2,	Code39 = 2,	CheckDigit = 2,
Employee = 3,	Interleved2of5 = 3,	SizeDigit = 3,
Coupon = 4,	Code128 = 4,	ColorDigit = 4,
DataEntry = 5,	UPCA = 5,	StyleDigit = 5,
	UPCE = 6,	EANLicenseCode = 6,
	EAN13 = 7,	Price = 7,
	EAN8 = 8,	Quantity = 8,
	PDF417 = 101,	Employee = 9,
	MaxiCode = 102,	Customer = 10,
		DataEntry = 11,

Customer operations

Customer operations are handled by the customer service interface, which enables partners to extend features for the needs of specific retailers. For details, see [Customer service interface](#) later in this section.

The following customer operations are supported by Retail POS.

Customer (600)

Prompts for a customer ID, which is used to find and add the customer to the transaction.

Customer search (602)

Displays a list of customers. To add a customer to the transaction, select that customer in the list.

Customer clear (603)

Clears the customer's information from the transaction.

Customer add (612)

Displays a form where information for a new customer is entered.

Customer transactions (609)

Displays a list of transactions for the selected customer.

Customer transactions print (610)

Used to print transactions for:

- The last month
- The last three months
- The last six months
- The last year
- All transactions

  📝 **Note**
    By default, this operation is hidden when Retail POS is used with the demo data provided by Microsoft Dynamics AX for Retail. When Retail POS is used without Microsoft Dynamics AX, this operation is not available.

Customer account deposit (1100)

Used to make a payment to a customer account.

Customer service interface

The customer service interface extends all the customer operations. A typical workflow is as follows.
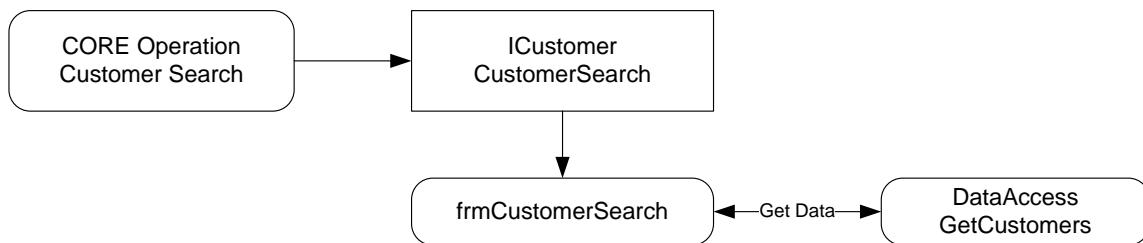
Figure 1. Customer service interface workflow.

The interface has the following methods:

- PosTransaction **Search**(PosTransaction *posTransaction*);

- RetailTransaction **Status**(RetailTransaction *retailTransaction*);

- //Run from the operation CustomerSearch (602)
  PosTransaction **Search**(PosTransaction *posTransaction*);

- //Run from the operation CustomerAdd(612)
  bool **CustomerAdd**();

- bool **Update**(string *customerId*);

- bool **Delete**(string *customerId*);

- //Run from the operation CustomerTransactions(609)
  void **Transactions**(string *customerId*);

- //Run from the operation CustomerTransactionsPrint(610)
  void **TransactionsReport**(string *customerId*);

  ☑ **Note**
  This method is not available when Retail POS is used with Microsoft Dynamics AX.

Rounding

The rounding settings are divided into three configurations:

- Item prices and balances
- Payment methods
- Taxes

Each rounding configuration can be set with a rounding parameter. For example, if the parameter is set to **0.01**, all amounts are rounded to two decimal places.

The following sections discuss each configuration and how it is applied.

> 📝 **Note:**
> The rounding module is loaded into memory the first time that it is used. If you change rounding settings, you must exit Retail POS and restart it.

Item prices and balances

Item prices

When items and their prices are displayed in the receipt pane on the Retail POS screen, the active currency settings ROUNDOFFSALES and ROUNDOFFTYPESALES are used:

- CURRENCY.ROUNDOFFSALES – The number of decimal places that the price is rounded to:
- 0.1 – The price is rounded and displayed to one decimal place.
- 0.01 – The price is rounded and displayed to two decimal places.
- And so on
- CURRENCY.ROUNDOFFTYPESALES – How the price is rounded:
- 0 – Round to nearest.
- 1 – Round down.
- 2 – Round up.

Balances

Balances and total numbers displayed on the Retail POS screen are rounded using the settings from the active currency settings ROUNDOFFAMOUNT and ROUNDOFFTYPEAMOUNT:

CURRENCY.ROUNDOFFAMOUNT – The number of decimal places that the amount is rounded to:

- 0.1 – The amount is rounded and displayed to one decimal place.
- 0.01 – The amount is rounded and displayed to two decimal places.
- And so on

CURRENCY.ROUNDOFFTYPEAMOUNT – How the amount is rounded:

- 0 – Round to nearest.
- 1 – Round down.
- 2 – Round up.

Tender types

Payment amounts are rounded using settings from the RETAILSTORETENDERTYPETABLE table, which are set on each tender type for each store. This way, cash payments and card payments do not need to be rounded with the same value. The fields ROUNDING and ROUNDINGMETHOD hold the configuration and determine the display of the **Amount due** box on the Retail POS screen:

RETAILSTORETENDERTYPETABLE.ROUNDING

- 0.1 – The number is rounded and displayed to one decimal place.
- 0.01 – The number is rounded and displayed to two decimal places.
- And so on

RETAILSTORETENDERTYPETABLE.ROUNDINGMETHOD

- 0 – None. (The default, Round to nearest, is used.)
- 1 – Round to nearest.
- 2 – Round up.
- 3 – Round down.

Taxes

Tax rounding is always set to the nearest + 0.01.

Examples of rounding item prices, balances, and tenders

Example 1

Rounding fields	Value	Retail POS screen
CURRENCY.ROUNDOFFSALES and **CURRENCY.ROUNDOFFTYPESALES**	0.01 + Round to nearest	Transaction pane, item price = 0.00 ($6.88)
CURRENCY.ROUNDOFFAMOUNT and **CURRENCY.ROUNDOFFTYPEAMOUNT**	0.1 + Round to nearest	Total panes = 0.0 ($6.9)
RETAILSTORETENDERTYPETABLE.ROUNDING and **RETAILSTORETENDERTYPETABLE.ROUNDINGMETHOD**	0.5 + Round to nearest	Tender window = 0.00 ($7.00)

Example 2

Rounding fields	Value	Retail POS screen
CURRENCY.ROUNDOFFSALES and **CURRENCY.ROUNDOFFTYPESALES**	0.1 + Round up	Transaction pane, item price = 0.0 ($6.9)
CURRENCY.ROUNDOFFAMOUNT and **CURRENCY.ROUNDOFFTYPEAMOUNT**	0.5 + Round down	Total panes = 0.0 ($6.5)
RETAILSTORETENDERTYPETABLE.ROUNDING and **RETAILSTORETENDERTYPETABLE.ROUNDINGMETHOD**	1 + Round up	Tender window = 0.0 ($7.0)

Product dimensions

Items may come in different colors, sizes, or styles while sharing the same item ID. Information about these additional product dimensions can be captured when the items are sold. Three tables are devoted to the product dimensions color, size, and style, while a fourth table combines an item's color, size, and style.

Tables

The following tables are used to prompt for color, size, and style:

- **ECORESCOLOR** – All the possible colors that the products might have.
- **ECORESSIZE** – All the possible sizes that the products might have.
- **ECORESSTYLE** – All the possible styles that the products might have.
- **INVENTDIMCOMBINATION** – The combinations of colors, sizes, and styles that each item can have.

Example

ECORESCOLOR

COLOR	NAME
BLU	Blue
GRE	Green
RED	Red

ECORESSIZE

SIZE	NAME
32	32
34	34
36	36

ECORESSTYLE

STYLE	NAME
FIN	Fine
SOL	Solid
STR	Stripes

INVENTDIMCOMBINATION

ITEMID	RETAILVARIANTID	INVENTCOLORID	INVENTSIZEID	INVENTSTYLEID
1234	1	BLU	32	FIN
1234	2	BLU	34	FIN
1234	3	RED	32	SOL
1234	4	RED	36	SOL
1234	5	GRE	32	FIN
1234	6	GRE	36	FIN
2345	1	BLU	32	STR
2345	2	BLU	34	STR

This example shows that, if item 1234 is sold, six variations of products are available: two of them are blue with fine texture, but they only come in two sizes, 32 and 34; two of them are red with solid texture, also only available in sizes 32 and 34; and two of them are green with fine texture, in sizes 32 and 36.

It is obvious that, when this item is sold, some further definition must be carried out to fully identify the product. If size 36 is chosen, the choice is limited to either red or green, which then completes the item identification.

Microsoft® SQL Server® query

For a list of all the different combinations of color, size, and style for each item, the following SQL query can be run. If any rows are returned from this query, further selection is possible.

SELECT

- I.InventSizeId SizeId
- I.InventColorId ColorId
- I.InventStyleId StyleId
- C.Name Color
- S.Name Size
- T.Name Style

FROM

- InventDimCombination I,

- EcoResColor C
- EcoResSize S
- EcoResStyle T

WHERE

- I.RBOVariantId = @RBOVariantId
- AND C.Color = I.InventColorId
- AND S.Size_ = I.InventSizeId
- AND T.Style = I.InventStyleId
- AND I.DataAreaId=@DataAreaId
- AND S.DataAreaId = I.DataAreaId
- AND C.DataAreaId = I.DataAreaId
- AND T.DataAreaId = I.DataAreaId

Item prices

Retail POS supports the price tables in Microsoft Dynamics AX. This section describes these tables, their fields, and their logic. These tables are also used for discounts, but Retail POS divides the logic into two components: one for prices, and one for discounts.

Retail POS registers belong to a store, and the store belongs to a price group. Prices are set for different items in these price groups. If a price for an item is not found in the price group, Retail POS searches for the price in an item table. A specific price can also be set for a specific customer for a specific item.

The tables used for price-related information include the following:

- **PRICEDISCTABLE** – Stores information about price and discounts.

Table field	Description	Field type	Required	Index
ITEMCODE	The ITEMCODE can have three values: • Item = 0 • Group = 1 • All = 2 For a price lookup this is always 0.	Boolean	X	C
RELATION	The RELATION sales price is always 4. Other values are used for discounts.	Integer	X	C
ITEMRELATION	Stores the item number.	Varchar[20]	X	C
ACCOUNTCODE	The field can have three values: • Customer = 0 • PriceGroup = 1 • All customers = 2	Integer	X	C
ACCOUNTRELATION	The value depends on the ACCOUNTCODE. If the ACCOUNTCODE is 0, this field stores the CUSTOMERID. If the ACCOUNTCODE is 1, this field stores the price group name.	Varchar[10]	X	C
SEARCHAGAIN	Specifies whether the search for different combinations of ITEMCODE and ACCOUNTCODE should continue. The logic starts to search prices for a customer, then price group, and then all customers. If the SEARCHAGAIN field is set to false and a price is found in a price group, the search stops there. The search logic is also controlled by the PRICEPARAMETERS table.	Boolean	X	
CURRENCY	Stores the currency code that is valid for the price agreement.	Varchar[3]	X	C

FROMDATE	Defines the start date for the price agreement.	DateTime	X	C
TODATE	Defines the end date for the price agreement.	DateTime	X	
QUANTITYAMOUNT	Defines the quantity that should be reached before the agreement becomes valid. By using this, prices can vary, depending on the quantity.	Decimal	X	C
AMOUNT	The sales price.	Decimal	X	
PRICEUNIT	Defines the price unit for the item. If 24pcs are in a box, the price is valid for 24pcs.	Decimal	X	
UNITID	The unit ID as text	Varchar[10]	X	C
MARKUP	Here a markup defined that will be added to the price, unrelated to the quantity. For example, if the price for a unit is 2.00 for less than 100 pieces and 1.50 for 100 or more, a markup value of x is added to the price whether the quantity is 100, 50, or 5, that is, markup is not dependent on unit quantity.	Decimal	X	
ALLOCATEMARKUP	Specifies whether the markup is active. • No = 0 • Yes = 1	Boolean	X	

Example 1: Price for a customer

To define a price for an item for a customer, the following fields are set as follows:

Field	Value
RELATION	4
ITEMCODE	0
ITEMRELATION	The item number
ACCOUNTCODE	0
ACCOUNTRELATION	The account number of the customer
CURRENCY	The currency of the store
FROMDATE	1.1.1900 (Equals an empty date.)
TODATE	1.1.1900 (Equals an empty date.)
PRICEUNIT	1
QUANTITYAMOUT	1
AMOUNT	The price of the item
MARKUP	0
ALLOCATEMARKUP	0
SEARCHAGAIN	0

Example 2: Price belonging to a price group

To define a price for an item for a price group, the following fields are set as follows:

Field	Value
RELATION	4
ITEMCODE	0
ITEMRELATION	The item number
ACCOUNTCODE	1
ACCOUNTRELATION	The price group that the store belongs to.
CURRENCY	The currency of the store
FROMDATE	1.1.1900 (Equals an empty date.)
TODATE	1.1.1900 (Equals an empty date.)
PRICEUNIT	1
QUANTITYAMOUNT	1
AMOUNT	The price of the item
MARKUP	0
ALLOCATEMARKUP	0
SEARCHAGAIN	0

- **PRICEPARAMETERS** – Stores configuration settings for price and discount search.

  This table controls search logic. If prices are only found in a price group, the fields SALESPRICEACCOUNTITEM and SALESPRICEALLITEM can be set to false. If no price is found, the fallback is the price in the INVENTTABLEMODULE table.

  The price found in the INVENTTABLEMODULE is in the price field where:

  o   MODULETYPE = 2
  o   ITEMID = The item number

Table field	Description	Field type	Required	Index
KEY	This can be any integer because the table has only one row.	Integer	X	C
SALESPRICEACCOUNTITEM	This can be either: No = 0 or Yes = 1 If set to 1, the logic searches for items prices based on customer ID.	Boolean	X	
SALESPRICEGROUPITEM	This can be either: No = 0 or Yes = 1 If set to 1, the logic searches for items	Boolean	X	

	prices based on price groups.			
SALESPRICEALLITEM	This can be either: No = 0 or Yes = 1 If set to 1, the logic searches for items prices set for all customers.	Boolean	X	

- **RETAILCHANNELPRICEGROUP** – Contains the link between a store and a price group.
- **INVENTTABLEMODULE** – If no price is found in PRICEDISCTABLE, the price is found here.

Item discounts

Microsoft Dynamics AX 2012 for Retail POS has two kinds of discounts:

- *Customer discounts*, which include line discounts, multiline discounts, and total discounts.
- *Periodic discounts*, which include mix and match discounts, quantity discounts, and discount offers.

Customer discounts

Customer discounts use the following tables.

Table name	Comment
PRICEDISCTABLE	Stores information about price and discounts for customers. See MSDN for [documentation about this table](#).
PRICEPARAMETERS	Stores the configuration for price and discount searches. See MSDN for [documentation about this table](#).
CUSTTABLE	Stores information about the customer and the discount groups. See MSDN for [documentation about this table](#).
INVENTTABLEMODULE	Stores information about the item and the discount groups. See MSDN for [documentation about this table](#).

Customer discounts include the following three types.

- **Line discount**

  Line discounts can be applied to one line item of a transaction at a time, and only if certain conditions are met:

  o The search for line discounts must be active, as set in the PRICEPARAMETERS table.

  o The date must be within the time limit, as set in the PRICEDISCTABLE table.

  o The minimum quantity must be met, as set in the PRICEDISCTABLE table.

  POS will only apply these discounts that are defined for customers.

  The discount is calculated as a combination of two fields storing percent1 and percent2, and also an amount field.

  Example 1

  o Item's price = $0.75

  o Percent1 = 10.0

  o Percent2 = 0.0

  o Discount amount = 0.0

- o   Items purchased = 20
- o   Minimum quantity = 10

The calculation is: 0.75 × (1 – ((100–10)/100) × 20) = 13.50

Example 2

- o   Item's price = $0.75
- o   Percent1 = 10.0
- o   Percent2 = 5.0
- o   Discount amount = 0.25
- o   Items purchased = 20
- o   Minimum quantity = 10

The calculation is: (0.75–0.25) × (1 – ((100–10)/100)) × (1 – ((100–5)/100) × 20) = 8.55

- **Multiline discount**

  The calculation method is the same as for line discounts, except that multiline discounts do not apply to one line item but include multiple line items.

  If both a line discount and a multiline discount are specified for a line item, the item uses the "find next" functionality as in a Microsoft Dynamics AX sales order. Each combination of customers and items will be searched in the described order and the search will only stop when

  1. (with next flag disabled) a valid trade agreement has been found,
  or
  2. (with the next flag enabled) all combinations have been investigated for valid trade agreements .

  Use the **Accounts receivable parameters** form (**Accounts receivable** > **Setup** > **Accounts receivable parameters**) to specify how the actual discount on a line should be calculated as a combination of the discovered line and multiline discounts.

  POS will only apply these discounts that are defined for customers.

- **Total discount**

  A total discount applies to all the items in the transaction according to the quantities of items. This discount is always calculated after the other two.

  Customers can be grouped into total discount groups, and the items are flagged to indicate that they can be used in a total discount calculation.

Periodic discounts

Periodic discounts are discounts with a start date and an end date. Within that period, the discounts can be active or inactive, depending on the time of day or the day of the week. For example, a discount might be active from November 7, 2012 to December 24, 2012, on Saturdays only, between 8:00 and 10:00 A.M.

More than one discount can be associated with an item. Concurrency rules determine how multiple discounts are applied to an item. One of the following rules applies:

- Exclusive —If one of the applicable discounts is set to *exclusive*, it will override other discounts. If multiple exclusive discounts apply, the one with the best price for the customer wins.
- Best price — If multiple discounts are set to *best price*, the one with the best price for the customer wins.
- Compounded — If all applicable discounts are set to *compounded*, those discounts will be applied in the order of the discount ID.

There are three types of periodic discounts:

- Discount
- Quantity
- Mix and match

These discounts are defined using the following group of tables.

Discount and price adjustment tables

Table name	Comment
RETAILPERIODICDISCOUNT	• Stores the general header information for periodic discounts.
RETAILDISCOUNTOFFER	• Stores the header information specific to discount offers. • Joined by RECID with RETAILPERIODICDISCOUNT.
RETAILPERIODICDISCOUNTLINE	• Stores the general line information for periodic discount lines. • Joined by OFFERID with RETAILPERIODICDISCOUNT.
RETAILDISCOUNTLINEOFFER	• Store the line information specific to discount offers. • Joined by RECID with RETAILPERIODICDISCOUNTLINE.
RETAILGROUPMEMBERLINE	• Stores the selected category, product, or variant for the discount line by RECID. • Joined by RETAILPERIODICDISCOUNTLINE.RETAILGROUPMEMBERLINE on RETAILGROUPMEMBERLINE.RECID.

Quantity discount tables

Table name	Comment
RETAILPERIODICDISCOUNT	• Stores the general header information for periodic discounts.
RETAILDISCOUNTMULTIBUY	• Stores the header information specific to quantity discounts. • Joined by RECID with RETAILPERIODICDISCOUNT.
RETAILPERIODICDISCOUNTLINE	• Stores the general line information for periodic discount lines. • Joined by OFFERID with RETAILPERIODICDISCOUNT.
RETAILDISCOUNTLINEMULTIBUY	• Stores the line information specific to quantity discounts • Joined by RECID with RETAILPERIODICDISCOUNTLINE
RETAILGROUPMEMBERLINE	• Stores the selected category, product, or variant for the discount line by RECID. • Joined by RETAILPERIODICDISCOUNTLINE.RETAILGROUPMEMBERLINE on RETAILGROUPMEMBERLINE.RECID.
RETAILMULTIBUYDISCOUNTLINE	• Stores the quantity thresholds and values for quantity discount. • Joined by OFFERID with RETAILPERIODICDISCOUNT.

Mix-and-match tables

Table name	Comment
RETAILPERIODICDISCOUNT	• Stores the general header information for periodic discounts.
RETAILDISCOUNTMIXANDMATCH	• Stores the header information specific to mix-and-match discounts. • Joined by RECID with RETAILPERIODICDISCOUNT.
RETAILPERIODICDISCOUNTLINE	• Stores the general line information for periodic discount lines. • Joined by OFFERID with RETAILPERIODICDISCOUNT.
RETAILDISCOUNTLINEMIXANDMATCH	• Store the line information specific to mix-and-match discounts. • Joined by RECID with RETAILPERIODICDISCOUNTLINE. • Joined by LINEGROUP with RETAILMIXANDMATCHLINEGROUPSETUP.
RETAILGROUPMEMBERLINE	• Stores the selected category, product, or variant for the discount line by RECID. • Joined by RETAILPERIODICDISCOUNTLINE.RETAILGROUPMEMBERLINE on RETAILGROUPMEMBERLINE.RECID.
RETAILMIXANDMATCHLINEGROUPSETUP	• Stores basic definition of line groups which can be used by mix-and-match discounts.
RETAILMIXANDMATCHLINEGROUPS	• Stores relation between mix-and-match discount and line groups along with number of items needed for each line group. • Joined with RETAILPERIODICDISCOUNT by OFFERID or MIXANDMATCHID. • Joined with RETAILMIXANDMATCHLINEGROUPSETUP by MIXANDMATCHGROUPID

End-of-day procedure

To divide the store's sales into measurable units for accounting and reporting, an end-of-day or end-of-shift procedure must be performed. Also, cashiers must account for every transaction they perform. End-of-day and end-of-shift procedures do the same thing in relation to the transaction tables.

Data tables

Three tables are used in the end-of-day procedure:

- **RETAILTRANSACTIONTABLE** – Stores header information about each transaction, such as:
  - Transaction ID
  - Terminal ID
  - Store ID
  - Date
  - Time
- **RETAILTRANSACTIONSALESTRANS** – Stores one line of information about each item purchased in each transaction:
  - Transaction ID
  - Item ID
  - Item name
  - Price
  - VAT info
  - Line discount / total discount ratio
- **RETAILTRANSACTIONPAYMENTTRANS** – Stores payment information:
  - Transaction ID
  - Payment ID
  - Payment amount

Each register in the store processes transactions using its own terminal ID. Completed transactions are then automatically transferred from each register to identical data tables in the store database.

Transaction data

The store's transactions tables are shown in Figure 2. Transactions from terminal 1 and terminal 2 are joined together in the store database. This is possible because of the joined primary key STOREID,TERMINALID,TRANSACTIONID,LINEID.
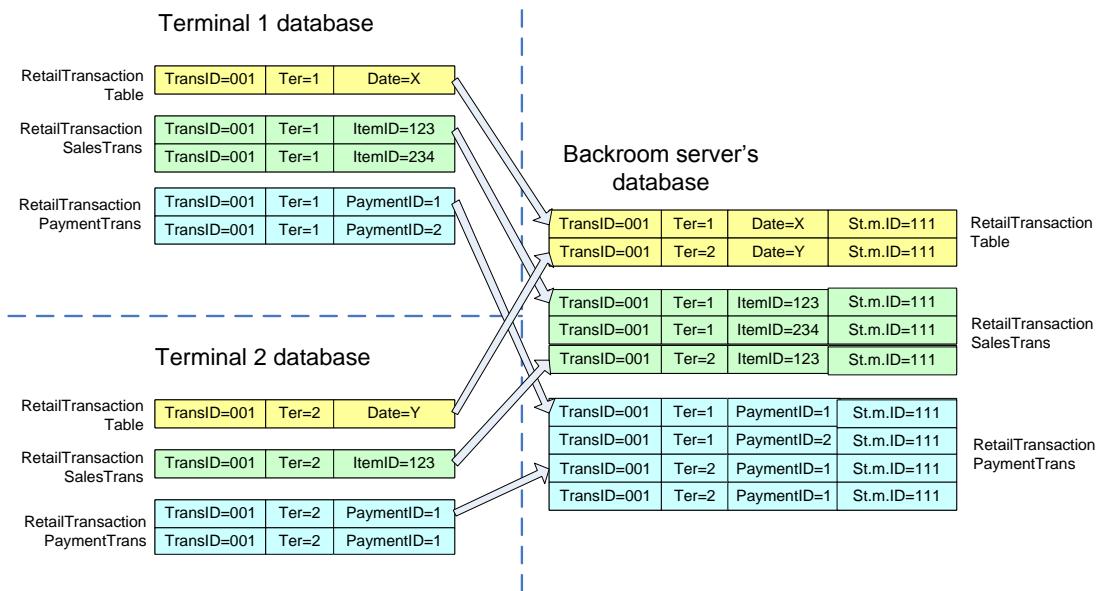
Figure 2. Collection and consolidation of store transaction data.

End-of-day data

Figure 3 shows an example of a status at the end of the day in a store. Both registers have performed three transactions, which have been replicated to a central database. Because the end-of-day procedure has not been performed, there is no statement ID.

Note:
The figures in this section have been simplified. Each transaction is shown as just one line.

Terminal 1

TransactionID	Terminal
1	1
2	1
3	1

Central database

TransactionID	Terminal	Statement ID
1	1	
1	2	
2	1	
2	2	
3	1	
3	2	

Terminal 2

TransactionID	Terminal
1	2
2	2
3	2
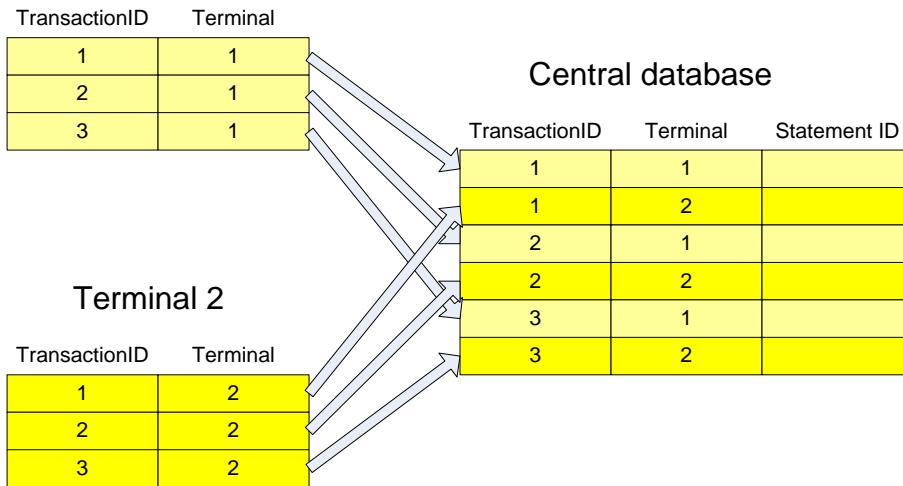
Figure 3. Replication of data to the central database at the end of the day prior to an end-of-day procedure.

Now, assume that the end-of-day procedure is performed. By default, every transaction without a statement ID is given an identical number, as shown in Figure 4.

Terminal 1

TransactionID	Terminal
1	1
2	1
3	1

Central database

TransactionID	Terminal	Statement ID
1	1	**1**
1	2	**1**
2	1	**1**
2	2	**1**
3	1	**1**
3	2	**1**

Terminal 2

TransactionID	Terminal
1	2
2	2
3	2
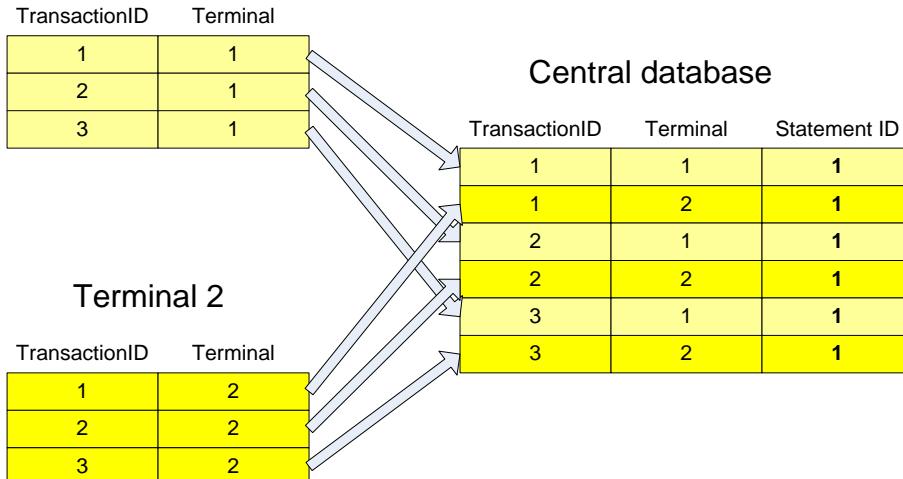
Figure 4. Data after an end-of-day procedure has been performed.

The next day, transactions continue to be replicated to the central database, as shown in Figure 5.

Terminal 1

TransactionID	Terminal
1	1
2	1
3	1
4	1
5	1

Central database

TransactionID	Terminal	Statement ID
1	1	**1**
1	2	**1**
2	1	**1**
2	2	**1**
3	1	**1**
3	2	**1**
4	1	
4	2	
5	1	
5	2	

Terminal 2

TransactionID	Terminal
1	2
2	2
3	2
4	2
5	2
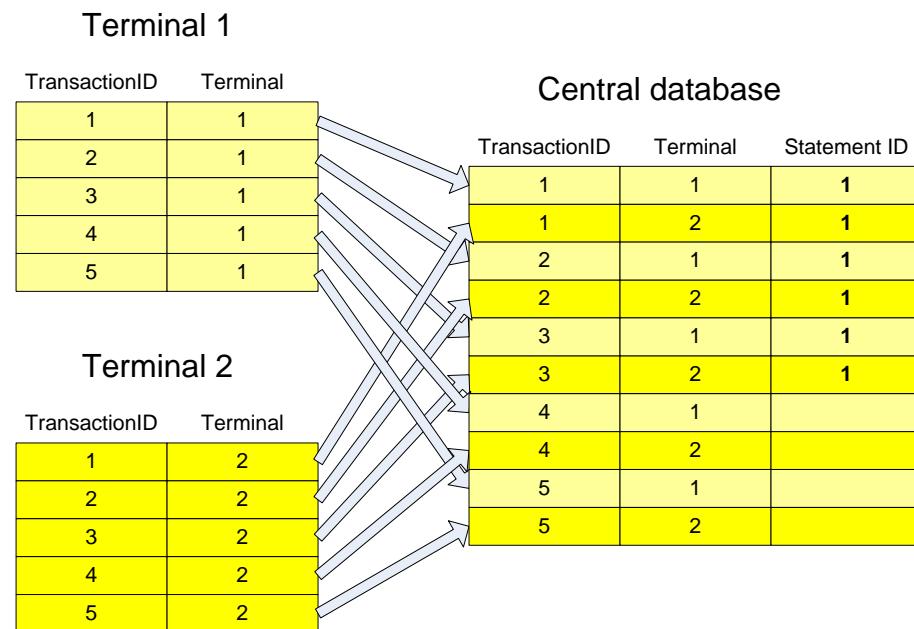
Figure 5. Status at the end of the next period.

At the end of that day, the end-of-day procedure is performed again. Retail POS finds the last row in the central database that has a statement ID. It then marks all the lines without a statement ID with an incremented number – in this case, 2, as shown in Figure 6.

Terminal 1

TransactionID	Terminal
1	1
2	1
3	1
4	1
5	1

Terminal 2

TransactionID	Terminal
1	2
2	2
3	2
4	2
5	2

Central database

TransactionID	Terminal	Statement ID
1	1	1
1	2	1
2	1	1
2	2	1
3	1	1
3	2	1
4	1	2
4	2	2
5	1	2
5	2	2
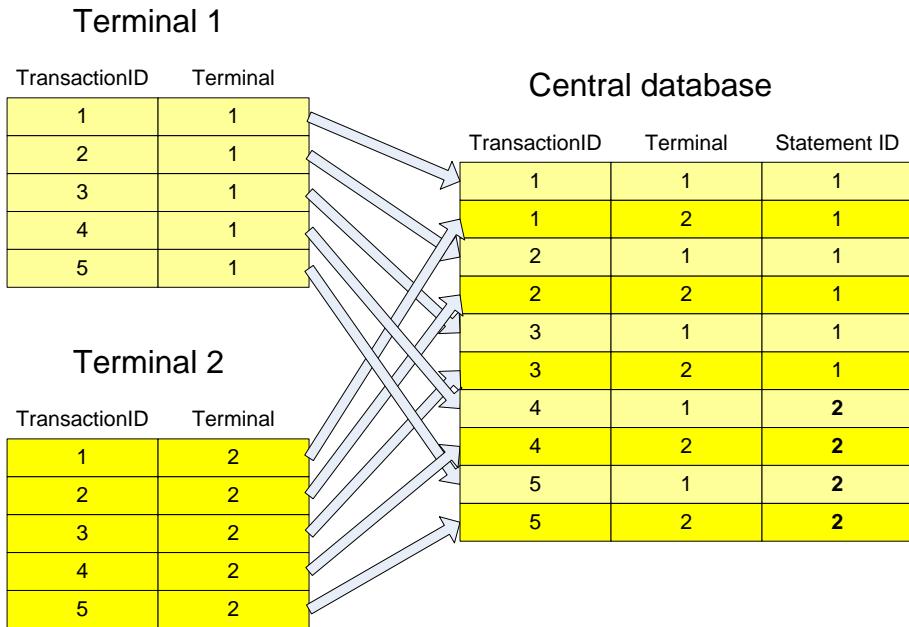
Figure 6. Status after the next end-of-day procedure is performed.

Infocodes

When items are sold, it might be necessary or useful to gather information about the customer or the transaction. Sometimes, the cashier must be prompted when specific items are sold to certain customers. For example, when alcoholic beverages are sold, Retail POS can prompt the cashier to ask for identification. Or, the cashier might need the name of the customer for the customer's account.

Infocodes can do these things and more. Infocodes can be activated by:

- Items
- Customers
- Tender types
- Specific Retail POS operations (configured on a functionality profile)

Retail POS includes several types of infocodes.

Infocode type	Comment	Specific configuration
Text input	Displays a keyboard for entering text.	• The minimum and maximum characters that can be entered.
Number input	Displays a number pad for entering numbers.	• The minimum and maximum characters that can be entered.

Infocode type	Comment	Specific configuration
Date input	Displays a number pad for entering dates.	
Item selection	Displays the item search dialog box.	
Customer selection	Displays the customer search dialog box.	
Subcode list	Displays a list of subcodes similar to the item search dialog box.	• Subcodes to be displayed must be in the RETAILINFORMATIONSUBCODETABLE table. • Subcode selection can trigger an item sale.
Subcode buttons	Displays a form with buttons for each of the subcodes.	• Subcodes to be displayed must be in the RETAILINFORMATIONSUBCODETABLE table. • Subcode selection can trigger an item sale.
Age limit	Displays a message that the customer must have a birth date before a certain date.	• The minimum number is used as the minimum age required.

Tables

The following tables are used for prompts for infocodes:

• **RETAILINFOCODETABLE** – Stores detailed information about all the registered infocodes.

• **RETAILINFOCODETABLESPECIFIC** – Stores information about connections between infocodes and items, customers, and payment types.

• **RETAILINFORMATIONSUBCODETABLE** – Stores the subcodes applicable to infocodes of type **Subcode List** and **Subcode Buttons**.

RETAILINFOCODETABLE

Field name	Field type	Primary key	Comment
INFOCODEID	Nvarchar(10)	X	The unique ID for the infocode.
DESCRIPTION	Nvarchar(60)		The description of the infocode.
PROMPT	Nvarchar(30)		The prompt displayed in the dialog box when the infocode is activated.
ONCEPERTRANSACTION	Integer		0 = Always activated 1 = Only activated once An example of this is when an infocode is linked to some item that is sold more than once in a single transaction.
VALUEISAMOUNTORQUANTITY	Integer		Not used.
PRINTPROMPTONRECEIPT	Integer		The prompt text is printed on the receipt.

Field name	Field type	Primary key	Comment
PRINTINPUTONRECEIPT	Integer		The input selected with subcode is printed on the receipt.
PRINTINPUTNAMEONRECEIPT	Integer		The input description selected with subcode is printed on the receipt.
INPUTTYPE	Integer		0 = General (same as Text) 1 = Subcode List 2 = Date 3 = Numeric 4 = Item 5 = Customer 6 = Operator (Staff) 7 = CreateDataEntry (not used) 8 = ApplyToEntry (not used) 9 = Text 10 = Subcode Buttons 11 = Age Limit
MINIMUMVALUE	Decimal		The minimum numeric value that is accepted. If set to **0**, all values are accepted. Only applies to the **Numeric** and **Age Limit** input types.
MAXIMUMVALUE	Decimal		The maximum numeric value that is accepted. Does not apply when the input type is **Text**. If set to **0**, all values are accepted. Only applies to the **Numeric** and **Age Limit** input types.
MINIMUMLENGTH	Integer		The minimum input text length that is accepted. Only applies to the **Text** and **General** input types. If set to **0**, all values are accepted.
MAXIMUMLENGTH	Integer		The maximum input text length that is accepted. Only applies to the **Text** and **General** input types. If set to **0**, all values are accepted.
INPUTREQUIRED	Integer		0 = The user does not have to enter input. 1 = Input is required. The user cannot press Cancel.
STD1INVALUE	Integer		Not used
LINKEDINFOCODEID	Nvarchar(10)		A second infocode to be activated after this one has finished.

Field name	Field type	Primary key	Comment
RANDOMFACTOR	Decimal		The percentage random factor that determines when the infocode is activated. Values from **1** to **99** generate a percentage rate, but for values **0** and **100**, the infocode is always activated.
RANDOMCOUNTER	Decimal		Not used
DATATYPEID	Nvarchar(20)		Not used
MODIFIED FIELDS			Not used
DATAAREAID	Nvarchar(3)	X	The company ID
RECID	Integer		Not used
ADDITIONALCHECK	Integer		Not used

RETAILINFOCODETABLESPECIFIC

Field name	Field type	Primary key	Comment	Required
INFOCODEID	NVChar[10]	X	The ID that links to the infocode in the RETAILINFOCODETABLE table.	X
REFRELATION	NVChar[20]	X	The first field in the primary key in the table referenced in REFTABLEID.	X
REFRELATION2	NVChar[20]	X	The second field in the primary key in the table referenced in REFTABLEID.	X
REFRELATION3	NVChar[20]	X	The third field in the primary key in the table referenced in REFTABLEID.	X
REFTABLEID	Integer	X	A numeric value specifying what table is connected to the infocode. The values are: 0 = None 1 = Item (INVENTTABLE) 2 = Customer (CUSTTABLE) 3 = Tender (RETAILSTORETENDERTYPETABLE) 4 = Credit Card (RETAILSTORETENDERTYPECARDTABLE) 5 = Income/Expense (not yet implemented) 6 = Department (not yet implemented) 7 = Item Group (INVENTITEMGROUP)	X
WHENREQUIRED	Integer		The general conditions in which the infocode is triggered. The values are: **0** = Always **1** = PositiveAndNegative **2** = Positive **3** = Negative	

Field name	Field type	Primary key	Comment	Required
INPUTREQUIRED	Integer		Specifies whether an input is required. The values are: **0** = Input is not required. **1** = Input is required. Overrides the value in the RETAILINFCODETABLE table for the same infocode.	
DATAAREAID	NVChar[3]	X		X
RECID	Integer		Not used.	

RETAILINFORMATIONSUBCODETABLE

Field name	Field type	Primary key	Comment
INFOCODEID	Nvarchar(10)	X	The unique ID for the infocode.
SUBCODEID	Nvarchar(10)	X	The unique ID for the subcode.
DESCRIPTION	Nvarchar(60)		The subcode description that is displayed in a list or on a button.
TRIGGERFUNCTION	Integer		**0** = None – No action is taken. **1** = Item – An item is sold when the subcode is selected.
TRIGGERCODE	Nvarchar(20)		The item ID to be sold upon subcode selection.
NEWSALESLINE	Integer		Not used.
PRICETYPE	Integer		**0** None **1** From item (the normal price calculated for the item) **2** Price (A price is set in the AMOUNTPERCENT field.) **3** Percent (A discount percentage is set in the AMOUNTPERCENT field.)
AMOUNTPERCENT	Decimal		The price or discount percentage to be set on the item sold upon subcode selection.
DATAAREAID	Nvarchar(3)	X	
RECVERSION	Integer		Not used.
RECID	Integer		Not used.

Connections between infocode tables

The colors in the following tables indicate the connections.

RETAILINFOCODETABLE

INFOCODEID	PROMPT
1234	What is your name?
1235	What is your age?
2222	Do you want to buy batteries?

INVENTTABLE

ITEMID
1001
1002
1003

RETAILINFOCODETABLESPECIFIC

REFRELATION	INFOCODEID	REFTABLEID
1001	1234	1
1002	1235	1
1003	2222	1

RETAILINFORMATIONSUBCODETABLE

INFOCODEID	SUBCODEID	DESCRIPTION
2222	1	Yes.
2222	2	No thanks.

Infocode examples

The following RETAILINFOCODETABLE table lists all available infocodes in Retail POS. Each infocode can be used more than once in different configurations in RETAILINFOCODETABLESPECIFIC. The INPUTREQUIRED value can be overwritten in the RETAILINFOCODETABLESPECIFIC configuration.

Available infocodes (RETAILINFOCODETABLE)

INFOCODEID	ONCEPERTRANSACTION	INPUTTYPE	MINIMUMVALUE	MAXIMUMVALUE	RANDOMFACTOR	INPUTREQUIRED
BATTERIES	1	10	0	0	100	1
DATE	0	2	0	0	50	0

INFOCODEID	ONCEPERTRANSACTION	INPUTTYPE	MINIMUMVALUE	MAXIMUMVALUE	RANDOMFACTOR	INPUTREQUIRED
ID-CARD	1	9	0	0	100	1
AGELIMIT	1	11	18	0	100	1

As shown in the following table, the subcodes for each INFOCODEID value are displayed in Retail POS sorted by SUBCODEID value. The first subcode sells an item with item ID B-R14 and gives the customer a 10-percent discount off that item. The item sold has the property SALELINEITEM.ISINFOCODEITEM = true.

Subcodes (RETAILINFORMATIONSUBCODETABLE)

INFOCODEID	SUBCODEID	DESCRIPTION	TRIGGERFUNCTION	TRIGGERCODE	PRICE TYPE	AMOUNT PERCENT
BATTERIES	1	Yes.	1	B-R14	3	10
BATTERIES	2	No thanks.	0		0	0

In the following table, REFRELATION1, REFRELATION2, and REFRELATION3 are the three primary key fields (DATAAREAID is never included) in the table referenced in REFTABLEID.

Activate infocodes (RETAILINFOCODETABLESPECIFIC)

INFOCODEID	INPUT REQUIRED	WHEN REQUIRED	REFRELATION1	REFRELATION2	REFRELATION3	REFTABLEID
Batteries	1	1	FL-Standard			1
Agelimit	1	0	110			1
Agelimit	1	1	111			1
ID-Card	0	0	S0001	4		3
Date	1	1	4000			2

INFOCODEID comments

Batteries

The *Batteries* infocode is activated when an FL-Standard item is sold. REFTABLEID is 1 (INVENTTABLE), and the primary keys in that table are ITEMID and DATAAREAID. Therefore, only REFRELATION1 must be filled in with the ITEMID value.

Agelimit

Both *Agelimit* infocodes are attached to an item. REFTABLEID is 1 (INVENTTABLE), and the primary keys in that table are ITEMID and DATAAREAID. Therefore, only REFRELATION1 must be filled in with the ITEMID value.

ID-Card

The *ID-Card* infocode is attached to a tender type. REFTABLEID is 3 (RETAILSTORETENDERTYPETABLE), and the primary key in that table is STOREID + TENDERTYPEID + DATAAREAID. Therefore, REFRELATION1 must be filled in with the STOREID value, and REFRELATION2 must be filled in with the TENDERTYPEID value.

Date

The *Date* infocode is attached to customer number 4000. REFTABLEID is CUSTTABLE, and the primary keys in that table are ACCOUNTNR and DATAAREAID. Therefore, only REFRELATION1 must be filled in with the ACCOUNTNR value.

Log on and log off

This section describes the logon and logoff procedures in Microsoft Dynamics AX for Retail POS. Retail POS can be set up so that you can log on and log off manually by scanning a bar code, by swiping a card, or by a combination of these methods. Retail POS always starts with the logon dialog box.

Methods of logging on and off

Manual

It is always possible to log on and off manually with an ID and password. A button to log off should always be displayed on the Retail POS screen. After you log off, Retail POS displays the logon dialog box.

Bar code

Retail POS can be set up so that you can scan a bar code logon. An ID and password are not used with this method. A logon transaction is saved when this is done.

During a transaction in progress, you can scan the bar code to switch users. A new user ID is then registered with the transaction.

> ### Note
> This operation is not yet implemented. It is untested and will require customization to be usable.

Card

A card with a magnetic stripe can be used to log on. Logging on with a card is similar to logging on with a bar code, as described in the preceding section.

> ### Note
> This operation is not yet implemented. It is untested and will require customization to be usable.

Automatic logoff

- **After each transaction**
  You can set up Retail POS to automatically log you off after each transaction. In the table RETAILTERMINALTABLE, change the field EXITAFTEREACHTRANSACTION from **0** to **1**.

- **After a certain period of time**

  You can set up Retail POS to automatically log you off after a certain period of time. In the table RETAILTERMINALTABLE, change the field AUTOLOGOFFTIMEOUT from **0** to the number of minutes Retail POS is idle before automatically logging you off.

  If Retail POS is in a lengthy process or in design mode, or if a dialog box is displayed, Retail POS delays the logoff countdown until the process ends or the dialog closes, and it then starts the countdown from that time.

Printing

Connection methods

Printers can be connected to Retail POS in two ways.

One way is directly to the computer via its serial or USB port. For example, in this method, Retail POS communicates with an OPOS (OLE Retail POS) driver for a receipt printer.

The other way is to print to a network printer. In this method, Retail POS sends print jobs to the print spooler in the same way that a word processor does. Therefore, Retail POS does not receive any confirmation that the printing was successful. For example, if the printer is out of paper, the print jobs wait in the printer queue.

Figure 7 shows a typical setup where two printers are connected – a directly connected OPOS receipt printer for the point of sale and a networked Windows-based printer used for printing on letter-size paper.
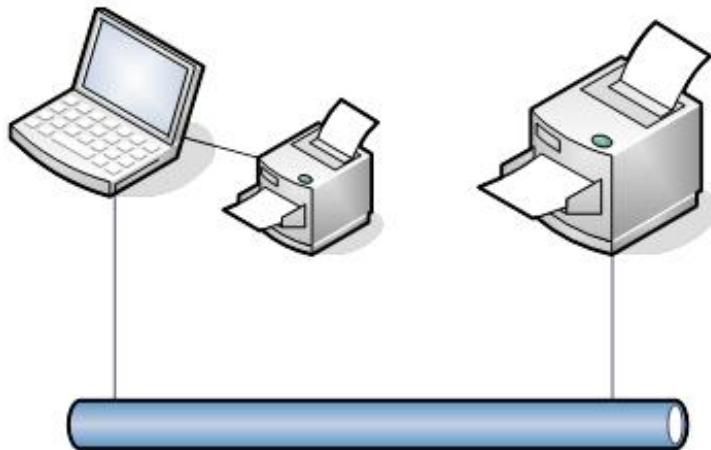
Figure 7. Possible printer connection methods.

Printing software

When communicating with an OPOS driver, the computer with Retail POS must have two kinds of software installed:

- The OPOS driver provided by the printer manufacturer.

- Common control objects from Monroe Consulting Services to ensure functional compatibility. It is often necessary to install the common control objects after the OPOS driver is installed.
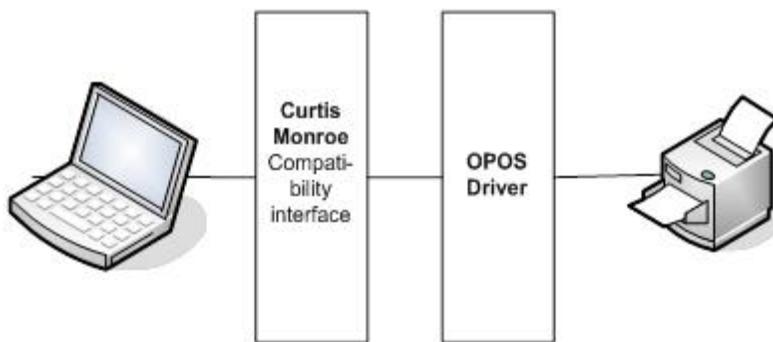
Figure 8. Printing with OPOS software.

When the OPOS driver is installed, registry entries are typically created for all devices that the manufacturer supports. Even though the OPOS driver is installed, the printer must be configured. The most common communication settings are:

- **Baud rate** – Common values for this are **4800**, **9600**, **19200**, **38400**, **57600**, or **115200**.
- **Byte size** – Can be either **7** or **8** bits.
- **Parity** – Can be **Even**, **Odd**, **Mark**, **Space**, or **None**.
- **Port number** – The number of the port where the OPOS driver can find the printer.

The printer manufacturer usually provides software to modify the OPOS driver's settings. Typically, you create a name for the device (such as **Epson1**) and specify settings that are saved in the registry.

Note that these settings can also be modified directly in the registry. (The standard path in the registry is HKEY_LOCAL_MACHINE\SOFTWARE\OLEforRetail.)

For example, a receipt printer (Epson1) might have the following settings:

- **Port number** = **com1**
- **Baud rate** = **19200**
- **Parity** = **None**
- **Byte size** = **8**

Troubleshooting the printing connection

If a directly connected OPOS printer does not work, the first thing to check is the communication port. The OPOS driver must be directed to the port where the printer is connected. No other software (including Windows) can use this port for any other purpose.

Another issue can be the installation of the common control objects. Be sure to reinstall the common control objects after the OPOS driver is installed.

Also, check the communication parameters. Do they match? The printer uses certain settings, and the OPOS driver's settings must be the same.

If the printer has no software that can print a test page, you can use the following procedure to print a test page using a Windows-based printer.

Print a test page with a Windows-based printer

1. Connect the printer, and add it using Windows printer configuration.

2. Right-click the newly added printer, and then click **Properties**.

3. Click the **Ports** tab, and then click **Configure ports**.

4. Set the communication parameters.

5. Click the **General** tab, and then click **Print Test Page**.

6. Remove the printer when the test is finished.

Figure 9 shows a configuration where the OPOS driver is communicating at a much higher speed than the printer. Either the OPOS driver must lower its speed to 9600, or the printer must be set to 19200, as in Figure 10.
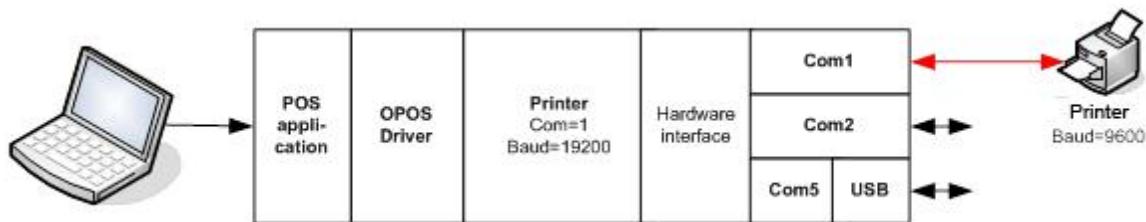
Figure 9. Incorrect configuration – baud settings do not match.
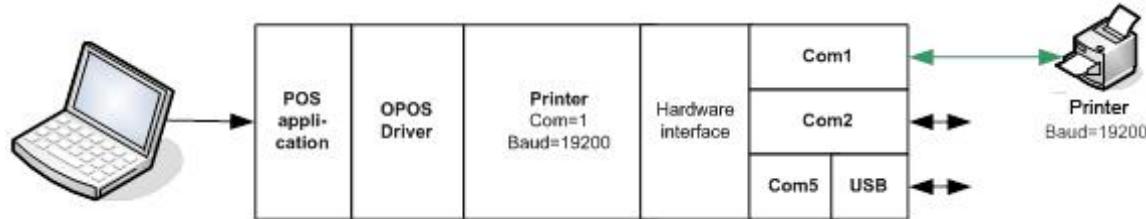
Figure 10. Correct configuration – baud settings match.

For a network printer, try to print a test page using standard Windows printing.

Print a test page using standard Windows printing

1. Add a network printer using Windows printer configuration.

2. Right-click the newly added printer, and then click **Properties**.

3. On the **General** tab, click **Print Test Page**.

4. Remove the printer when the test is finished.

Table structure for printing

The basic tables

To print, Retail POS must be aware of the printer's name and whether it is allowed to print. The table RETAILHARDWAREPROFILE stores this information.
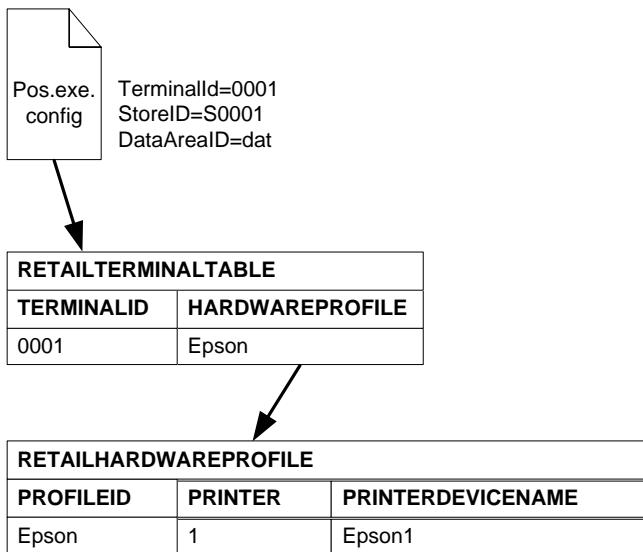
Figure 11. Basic table structure for printing.

Figure 11 shows the basic table structure, but these settings apply only to print forms that are not user-created, such as the customer balance. The setting **Printer**=**1** in the RETAILHARDWAREPROFILE table indicates that the printer is considered to be connected; however, PRINTERDEVICENAME is, in this case, set to the OPOS driver name (for example, **Epson1**).

If the printer is a network printer, **Printer** should be set to **2**. Then PRINTERDEVICENAME is set to the network path of the printer – for example, \\ServerName\PrinterName.

The form layout table

The form layout table, RETAILFORMLAYOUT, contains information about the different print layouts. Each form can print either to the OPOS printer defined in the RETAILHARDWAREPROFILE table or to the Windows-based printer specified at the layout level.

The RETAILFORMLAYOUT table has the following fields.

Field name	Description
ID	A string that identifies the layout.
TITLE	The title of the layout.
DESCRIPTION	The description of the layout.
UPPERCASE	Specifies whether all the characters will be converted to uppercase before they are printed.
HEADERXML	The XML layout of the header.
LINESXML	The XML layout of the lines.
FOOTERXML	The XML layout of the footer.

Field name	Description
PRINTASSLIP	Specifies whether the layout will be printed to the slip printer.
USEWINDOWSPRINTING	Specifies whether the layout will be printed to a Windows-based printer.
WINDOWSPRINTERNAME	The *ServerName**PrinterName* path of the Windows-based printer.
FORMLAYOUTID	The ID of the form layout in the table.
LAYOUTTYPE	The type of layout that the form will print as.

Receipt types

Retail POS provides several different *receipt types*, as listed in the **Receipt format** menu of the **Receipt format** form:

- Receipt
- Store's credit card receipt
- Customer's credit card receipt
- Store's credit card receipt – returns
- Customer's credit card receipt – returns
- EFT message
- Store's customer account receipt
- Customer's customer account receipt
- Store's customer account receipt – return
- Customer's customer account receipt - return
- Invoice
- Customer account deposit
- Credit memo
- Sales order receipt
- Sales invoice receipt
- Quotation receipt
- Packing slip
- Pickup receipt

The following diagram shows how supported receipt types are made available to a POS terminal..

```
           ┌─────────────────┐
           │   POS terminal  │
           └────────┬────────┘
                    │
                    ▼
           ┌─────────────────┐
           │ Hardware profile│
           └────────┬────────┘
                    │
                    ▼
           ┌─────────────────┐
           │ Receipt profile │
           └──┬──────┬──────┬┘
```
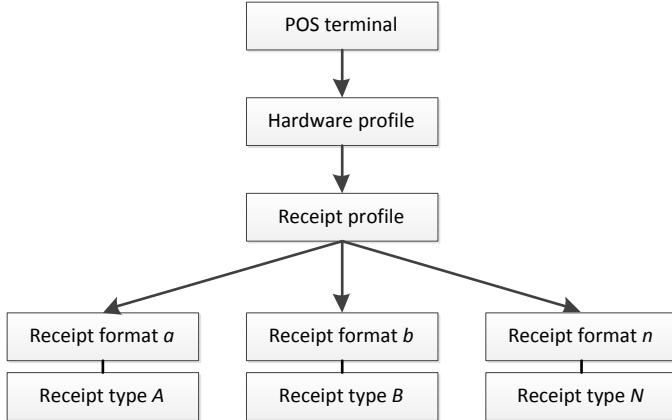
Figure 12. One-to-one and one-to-many relationships among receipt entities.

The terminal is assigned a single hardware profile in the **POS terminals** form, and the hardware profile is assigned a single receipt profile in the **POS hardware profile** form. Each receipt format defines an association between a receipt type and a design. A receipt profile can contain only a single mapping of a particular receipt type; you must create multiple receipt profiles if you wish to support more than one design format for a single receipt type. It is possible to create new formats (hence designs) without adding them to any profile, but they must be included in a profile to be used.

When creating a receipt profile, include a receipt format for each type of receipt that you will need to print.

The format of the receipt is called automatically by POS when it calls the printing service. Finer control of this behavior is available through the **Print behavior** field of the **Receipt format** form. Available values for this field are **Always print**, **Do not print**, and **Prompt user**.

Staff permissions

Every time an operation starts, Retail POS checks various settings to determine whether the operation can be performed by whoever is logged on.

Retail POS first determines whether an operation needs permission. If the field CHECKUSERSACCESS in the table RETAILOPERATIONS is set to **true**, permission is required. For general operations such as logon and logoff, this value is set to **false**, because everyone must be able to perform these operations.

Retail POS then checks the fields PERMISSIONID and PERMISONID2 in the table RETAILOPERATIONS. If they are not set, the operation is available to everyone.

Next, Retail POS checks for manager privileges for the worker. It first checks in the RETAILPOSITIONPOSPERMISSION table for all the active (date-effective) positions assigned to the worker. If any active position has manager privileges associated with it, the worker can perform any operation. Otherwise, POS checks the job associated with the position and the POS permission group associated with the job, if one has been assigned. If a POS permission group has been assigned, and it has manager privileges, the worker can perform any operation.

If the person does not have manager privileges, Retail POS finds the name of the permissions to check by looking up the name in the table RETAILPERMISSIONS by using the IDs found in the fields PERMISSION and PERMISSIONID2. Retail POS then looks up the value of the column name (found in RETAILPERMISSIONS), first in the RETAILPOSITIONPOSPERMISSION table, and then in the RETAILPOSPERMISSIONGROUP table. That value determines whether the person has permission to perform the operation.

The following is a visual representation of the order of permission checking.

POS login verification logic
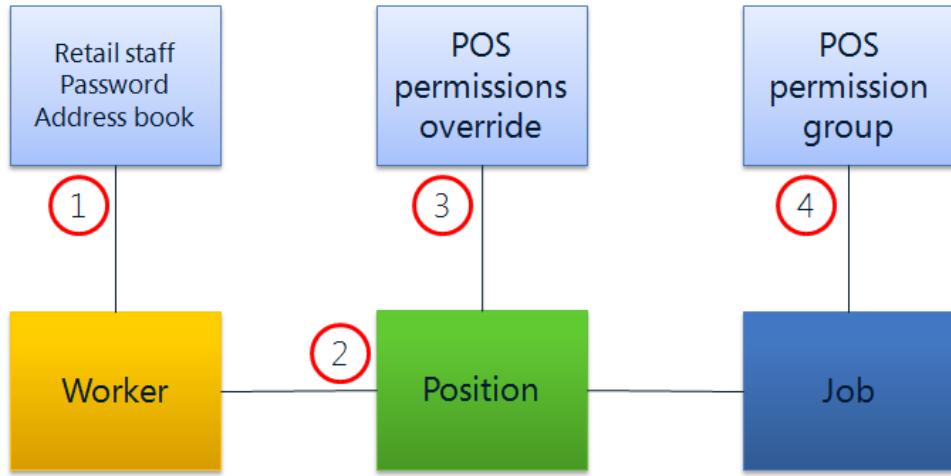
Figure 13. Logical structure used for verifying POS permissions.

The POS logon and permission verification logic is as follows:

1. Verify the user ID and password.

2. Verify the store assignment through the address book.

3. Verify a current position (date effective).

4. Check for POS permissions override on the position.

5. Check for POS permissions on the job.

Tables

RETAILSTAFFTABLE

Field name	Description	Field type	Required	Index
RECID	The unique record ID.	Bigint	X	
STAFFID	The unique number of the employee. This is also used as the login ID for POS.	nVarchar[25]	X	
RETAILHCMWORKER	The foreign key to the HCMWORKER table.	Bigint	X	

RETAILOPERATIONS

Field name	Description	Field type	Required	Index
OPERATIONID	The unique card type ID.	Integer	X	C
OPERATIONNAME	The name of the card.	varchar(50)	X	
PERMISSIONID	If permissions are not defined, there are no restrictions; but if permissions are defined, Retail POS looks them up in the POSISPERMISSIONS table.	Integer		
PERMISSIONID2	If permissions are not defined, there are no restrictions; but if permissions are defined, Retail POS looks them up in the POSISPERMISSIONS table.	Integer		
USEROPERATION	Specifies whether Retail POS is supposed to check access.	Integer		

RETAILPERMISSIONS

Field name	Description	Field type	Required	Index
PERMISSIONID	The unique ID of the permission.	Integer	X	C
PERMISSIONNAME	The name of the permission, corresponding to a field in the RETAILSTAFFTABLE table.	Varchar[100]	X	

RETAILPOSPERMISSIONGROUP

Field name	Description	Field type	Required	Index
RECID	The unique record ID.	Bigint	X	
POSPERMISSIONGROUPID	The unique ID of the POS permission group.	Nvarchar(10)	X	
MANAGERPRIVILEGES	Specifies whether the POS permission group has manager privileges.	Int		
NAME	A descriptive name of the POS permission group.	Nvarchar(60)		

RETAILPOSITIONPOSPERMISSION

Field name	Description	Field type	Required	Index
RECID	The unique record ID.	Bigint	X	
POSITION	The foreign key to the HCMPOSITION table.	Bigint	X	
POSPERMISSIONGROUP	The foreign key to the POS permission group.	Bigint		
MANAGERPRIVILEGES	Specifies whether the POS permission group has manager privileges.	Int		

RETAILJOBPOSPERMISSIONGROUP

Field name	Description	Field type	Required	Index
RECID	The unique record ID.	Bigint	X	

Field name	Description	Field type	Required	Index
JOB	The foreign key to the HCMJOB table.	Bigint	X	
RETAILPOSPERMISSIONGROUP	The foreign key to the RETAILPOSPERMISSIONGROUP table.	Bigint	X	

Example data

RETAILSTAFFTABLE

STAFFID	RETAILHCMWORKER
101	5637000001
102	5637000002

HCMWORKER

RECID	PERSONNELNUMBER
5637000001	101
5637000002	102

HCMPOSITIONWORKERASSIGNMENT

RECID	WORKER	POSITION	VALIDFROM	VALIDTO
999991	5637000001	5637000003	1/1/2001	12/30/2154
999992	5637000002	5637000004	1/1/2001	12/30/2154

HCMPOSITIONDETAIL

RECID	JOB
5637000003	5637000005
5637000004	5637000006

RETAILJOBPOSPERMISSIONGROUP

RECID	JOB	RETAILPOSPERMISSIONGROUP
5637000007	5637000005	5637000009
5637000008	5637000006	5637000010

RETAILPOSPERMISSIONGROUP

RECID	POSPERMISSIONGROUP	MANAGERPRIVILEGES	ALLOWXREPORT PRINTING	ALLOWFLOATING DECLARATION
5637000009	Cashier	0	1	0
5637000010	Manager	1	0	1

RETAILOPERATIONS

OPERATIONID	OPERATIONNAME	PERMISSIONID	PERMISSIONID2	CHECKUSERACCESS
100	ItemSale	NULL	NULL	True
115	ShowJournal	1002	1002	True
910	RestartComputer	1002	NULL	True

RETAILPERMISSIONS

PERMISSIONID	PERMISSIONNAME
1001	AllowTransactionVoiding
1002	ManagerPrivileges
1003	AllowXReportPrinting

Example

Assume that only four operations are available:

- Logon
- Logoff
- VoidTransaction
- ApplicationExit

Your store has two types of employees: cashiers and managers. You want the ability to control which employee can do what, as shown in the following table.

Employee type	Logon	Logoff	Void transaction	Exit program
Manager	X	X	X	X
Cashier	X	X		X

The first thing to do is set up the operation table for these four operations.

RETAILOPERATIONS

OPERATIONID	OPERATIONNAME	PERMISSIONID
1	Logon	NULL
2	Logoff	NULL
3	VoidTransaction	1002
4	ApplicationExit	NULL

Note that three of the operations have permission IDs that are NULL, which means that all employees can perform these operations. The permission ID 1002 for the operation VoidTransaction points to the following row in the permission table.

RETAILPERMISSIONS

PERMISSIONID	PERMISSIONNAME
1002	ManagerPrivileges

This indicates that whoever wants to void a transaction must have the ManagerPrivileges permission.

Next, we create two POS permission groups.

RETAILPOSPERMISSIONGROUP

RECID	POSPERMISSION GROUP	MANAGER PRIVILEGES	ALLOWXREPORT PRINTING	ALLOWFLOATING DECLARATION
5637000009	Cashier	0	1	0
5637000010	Manager	1	1	1

Next, we should create two jobs, one for cashiers and one for managers

HCMJOB

RECID	DESCRIPTION
5637000005	Cashier job
5637000006	Manager job

When we create each job, we assign a POS permission groups to it.

RETAILJOBPOSPERMISSIONGROUP

RECID	JOB	RETAILPOSPERMISSIONGROUP
5637000007	5637000005	5637000009
5637000008	5637000006	5637000010

Next, we create a position for each of the jobs.

HCMPOSITIONDETAIL

RECID	JOB	DESCRIPTION
5637000003	5637000005	Cashier #1
5637000004	5637000006	Manager #2

Finally, we hire a new worker for each position. If you set any property on the **Retail** tab in the **Worker** details form, the record is also created in the RETAILSTAFFTABLE table.

HCMWORKER

RECID	PERSONNELNUMBER
5637000001	1
5637000002	2

RETAILSTAFFTABLE

STAFFID	NAME
1	Nancy Anderson
2	Lucia Ceckova

Now we have two employees, one who can perform all four operations, and one who cannot void transactions.

Table definitions

This section describes the database tables used by Microsoft Dynamics AX for Retail POS.

All the decimal values, amounts, and quantities are positive values unless stated otherwise.

Table: CURRENCY

Column	Data type	Primary key
CURRENCYCODE	Nvarchar(3)	X
RECID	Bigint	
ROUNDOFFPRICE	Numeric(32,16)	
ROUNDOFFSALES	Numeric(32,16)	
ROUNDOFFTYPESALES	Int	
SYMBOL	Nvarchar(5)	
DATAAREAID	Nvarchar(4)	X

Table: CUSTGROUP

Column	Data type	Primary key
CUSTGROUP	Nvarchar(10)	X
NAME	Nvarchar(60)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: CUSTTABLE

Column	Data type	Primary key
ACCOUNTNUM	Nvarchar(20)	X
BLOCKED	Int	
CASHDISC	Nvarchar(10)	
CURRENCY	Nvarchar(3)	
CUSTGROUP	Nvarchar(10)	
ENDDISC	Nvarchar(10)	
DENTIFICATIONNUMBER	Nvarchar(50)	
INCLTAX	Int	
INVOICEACCOUNT	Nvarchar(20)	
LINEDISC	Nvarchar(10)	
MULTILINEDISC	Nvarchar(10)	

Column	Data type	Primary key
PARTY	Bigint	
PAYMTERMID	Nvarchar(10)	
PRICEGROUP	Nvarchar(10)	
RECID	Bigint	
TAXGROUP	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: DIRADDRESSBOOK

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: DIRADDRESSBOOK

Column	Data type	Primary key
ADDRESSBOOK	Bigint	
PARTY	Bigint	
RECID	Bigint	X
VALIDFROM	Datetime	
VALIDTO	Datetime	

Table: DIRPARTYLOCATION

Column	Data type	Primary key
ATTENTIONTOADDRESSLINE	Nvarchar(255)	
ISLOCATIONOWNER	Int	
ISPOSTALADDRESS	Int	
ISPRIMARY	Int	
ISPRIVATE	Int	
LOCATION	Bigint	
PARTY	Bigint	
RECID	Bigint	X
VALIDFROM	Datetime	

Column	Data type	Primary key
VALIDTO	Datetime	

Table: DIRPARTYLOCATIONROLE

Column	Data type	Primary key
LOCATIONROLE	Bigint	
PARTYLOCATION	Bigint	
RECID	Bigint	X

Table: DIRPARTYTABLE

Column	Data type	Primary key
INSTANCERELATIONTYPE	Bigint	
KNOWNAS	Nvarchar(100)	
LANGUAGEID	Nvarchar(7)	
MEMO	Nvarchar(0)	
NAME	Nvarchar(100)	
NAMEALIAS	Nvarchar(20)	
PARTYNUMBER	Nvarchar(40)	
RECID	Bigint	X

Table: DLVMODE

Column	Data type	Primary key
CODE	Nvarchar(10)	X
RECID	Bigint	
HIPCARRIERACCOUNTCODE	Nvarchar(20)	
SHIPCARRIERDLVTYPE	Int	
SHIPCARRIERID	Nvarchar(10)	
SHIPCARRIERNAME	Nvarchar(20)	
TXT	Nvarchar(60)	
DATAAREAID	Nvarchar(4)	X

Table: ECORESCATEGORY

Column	Data type	Primary key
CATEGORYHIERARCHY	Bigint	
CHANGESTATUS	Int	
CODE	Nvarchar(20)	
CREATEDBY	Nvarchar(8)	
CREATEDDATETIME	Datetime	
EFAULTPROJECTGLOBALCATEGORY	Bigint	
INSTANCERELATIONTYPE	Bigint	
ISACTIVE	Int	
ISCATEGORYATTRIBUTESINHERITED	Int	
ISTANGIBLE	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATETIME	Datetime	
NAME	Nvarchar(254)	
NESTEDSETLEFT	Bigint	
NESTEDSETRIGHT	Bigint	
PARENTCATEGORY	Bigint	
RECID	Bigint	X
RECVERSION	Int	
RELATIONTYPE	Bigint	

Table: ECORESCOLOR

Column	Data type	Primary key
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: ECORESCONFIGURATION

Column	Data type	Primary key
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: ECORESPRODUCT

Column	Data type	Primary key
DISPLAYPRODUCTNUMBER	Nvarchar(70)	
INSTANCERELATIONTYPE	Bigint	
PRODUCTTYPE	Int	
RECID	Bigint	X
RECVERSION	Int	
RELATIONTYPE	Bigint	
SEARCHNAME	Nvarchar(20)	

Table: ECORESPRODUCTCATEGORY

Column	Data type	Primary key
CATEGORY	Bigint	
CATEGORYHIERARCHY	Bigint	
MODIFIEDDATETIME	Datetime	
PRODUCT	Bigint	
RECID	Bigint	X
RECVERSION	Int	

Table: ECORESPRODUCTMASTERCOLOR

Column	Data type	Primary key
COLOR	Bigint	
OLORPRODUCTDIMENSIONATTRIBUTE	Bigint	
COLORPRODUCTMASTER	Bigint	
RECID	Bigint	X

Table: ECORESPRODUCTMASTERCONFIGURATION

Column	Data type	Primary key
CONFIGPRODUCTDIMENSIONATTRIBUTE	Bigint	
CONFIGPRODUCTMASTER	Bigint	
CONFIGURATION	Bigint	
RECID	Bigint	X

Table: ECORESPRODUCTMASTERDIMENSIONVALUE

Column	Data type	Primary key
ADDITIONALDESCRIPTION	Nvarchar(1000)	
DESCRIPTION	Nvarchar(60)	
INSTANCERELATIONTYPE	Bigint	
RECID	Bigint	X
RETAILWEIGHT	Int	

Table: ECORESPRODUCTMASTERSIZE

Column	Data type	Primary key
RECID	Bigint	X
SIZE_	Bigint	
SIZEPRODUCTDIMENSIONATTRIBUTE	Bigint	
SIZEPRODUCTMASTER	Bigint	

Table: ECORESPRODUCTMASTERSTYLE

Column	Data type	Primary key
RECID	Bigint	X
STYLE	Bigint	
STYLEPRODUCTDIMENSIONATTRIBUTE	Bigint	
STYLEPRODUCTMASTER	Bigint	

Table: ECORESPRODUCTTRANSLATION

Column	Data type	Primary key
DESCRIPTION	Nvarchar(1000)	
LANGUAGEID	Nvarchar(7)	
NAME	Nvarchar(60)	
PRODUCT	Bigint	
RECID	Bigint	X
RECVERSION	Int	

Table: ECORESSIZE

Column	Data type	Primary key
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: ECORESSTYLE

Column	Data type	Primary key
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: ECORESTRACKINGDIMENSIONGROUPFLDSETUP

Column	Data type	Primary key
ISALLOWBLANKISSUEENABLED	Int	
RECID	Bigint	X
TRACKINGDIMENSIONGROUP	Bigint	

Table: ECORESTRACKINGDIMENSIONGROUPITEM

Column	Data type	Primary key
ITEMDATAAREAID	Nvarchar(4)	
ITEMID	Nvarchar(20)	
RECID	Bigint	X
RACKINGDIMENSIONGROUP	Bigint	

Table: ECORESTRACKINGDIMENSIONGROUPPRODUCT

Column	Data type	Primary key
PRODUCT	Bigint	
RECID	Bigint	X
RACKINGDIMENSIONGROUP	Bigint	

Table: EXCHANGERATE

Column	Data type	Primary key
EXCHANGERATE	Numeric(32,16)	

Column	Data type	Primary key
EXCHANGERATECURRENCYPAIR	Bigint	
MODIFIEDDATETIME	Datetime	
RECID	Bigint	X
RECVERSION	Int	
VALIDFROM	Datetime	
VALIDTO	Datetime	

Table: EXCHANGERATECURRENCYPAIR

Column	Data type	Primary key
EXCHANGERATEDISPLAYFACTOR	Int	
EXCHANGERATETYPE	Bigint	
FROMCURRENCYCODE	Nvarchar(3)	
MODIFIEDDATETIME	Datetime	
RECID	Bigint	X
RECVERSION	Int	
TOCURRENCYCODE	Nvarchar(3)	

Table: EXCHANGERATETYPE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
NAME	Nvarchar(20)	
RECID	Bigint	X
RECVERSION	Int	

Table: HCMJOB

Column	Data type	Primary key
JOBID	Nvarchar(25)	
MAXIMUMPOSITIONS	Int	
RECID	Bigint	X

Table: HCMPOSITION

Column	Data type	Primary key
POSITIONID	Nvarchar(25)	
RECID	Bigint	X

Table: HCMPOSITIONDETAIL

Column	Data type	Primary key
COMPLOCATION	Bigint	
DEPARTMENT	Bigint	
DESCRIPTION	Nvarchar(60)	
ULLTIMEEQUIVALENCY	Numeric(32,16)	
JOB	Bigint	
POSITION	Bigint	
POSITIONTYPE	Bigint	
RECID	Bigint	X
TITLE	Bigint	
VALIDFROM	Datetime	
VALIDTO	Datetime	

Table: HCMPOSITIONWORKERASSIGNMENT

Column	Data type	Primary key
ASSIGNMENTREASONCODE	Bigint	
POSITION	Bigint	
RECID	Bigint	X
VALIDFROM	Datetime	
VALIDTO	Datetime	
WORKER	Bigint	

Table: HCMWORKER

Column	Data type	Primary key
PERSON	Bigint	
PERSONNELNUMBER	Nvarchar(25)	
RECID	Bigint	X

Table: INVENTDIM

Column	Data type	Primary key
CONFIGID	Nvarchar(10)	
INVENTBATCHID	Nvarchar(20)	
INVENTCOLORID	Nvarchar(10)	
INVENTDIMID	Nvarchar(20)	X
INVENTLOCATIONID	Nvarchar(10)	
INVENTSERIALID	Nvarchar(20)	
INVENTSIZEID	Nvarchar(10)	
INVENTSTYLEID	Nvarchar(10)	
RECID	Bigint	
WMSLOCATIONID	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: INVENTDIMCOMBINATION

Column	Data type	Primary key
DISTINCTPRODUCTVARIANT	Bigint	
INVENTDIMID	Nvarchar(20)	X
ITEMID	Nvarchar(20)	X
RECID	Bigint	
RETAILVARIANTID	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: INVENTITEMBARCODE

Column	Data type	Primary key
BLOCKED	Int	
DESCRIPTION	Nvarchar(60)	
INVENTDIMID	Nvarchar(20)	
ITEMBARCODE	Nvarchar(80)	
ITEMID	Nvarchar(20)	
MODIFIEDDATE	Datetime	
QTY	Numeric(32,16)	
RBOVARIANTID	Nvarchar(10)	
RECID	Bigint	X
UNITID	Nvarchar(10)	

Column	Data type	Primary key
DATAAREAID	Nvarchar(4)	X

Table: INVENTITEMGROUP

Column	Data type	Primary key
ITEMGROUPID	Nvarchar(10)	X
NAME	Nvarchar(60)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: INVENTITEMGROUPITEM

Column	Data type	Primary key
ITEMDATAAREAID	Nvarchar(4)	
ITEMGROUPDATAAREAID	Nvarchar(4)	
ITEMGROUPID	Nvarchar(10)	
ITEMID	Nvarchar(20)	
RECID	Bigint	X

Table: INVENTSERIAL

Column	Data type	Primary key
DESCRIPTION	Nvarchar(0)	
INVENTSERIALID	Nvarchar(20)	X
ITEMID	Nvarchar(20)	X
PRODDATE	Datetime	
RECID	Bigint	
RFIDTAGID	Nvarchar(24)	
DATAAREAID	Nvarchar(4)	X

Table: INVENTTABLE

Column	Data type	Primary key
ITEMID	Nvarchar(20)	X
PRODUCT	Bigint	
RECID	Bigint	

Column	Data type	Primary key
DATAAREAID	Nvarchar(4)	X

Table: INVENTTABLEMODULE

Column	Data type	Primary key
ENDDISC	Int	
ITEMID	Nvarchar(20)	X
LINEDISC	Nvarchar(10)	
MODULETYPE	Int	X
MULTILINEDISC	Nvarchar(10)	
PRICE	Numeric(32,16)	
RECID	Bigint	
TAXITEMGROUPID	Nvarchar(10)	
UNITID	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: LEDGER

Column	Data type	Primary key
ACCOUNTINGCURRENCY	Nvarchar(3)	
BUDGETEXCHANGERATETYPE	Bigint	
CHARTOFACCOUNTS	Bigint	
DEFAULTEXCHANGERATETYPE	Bigint	
DESCRIPTION	Nvarchar(60)	
FISCALCALENDAR	Bigint	
ISBUDGETCONTROLENABLED	Int	
NAME	Nvarchar(20)	
PRIMARYFORLEGALENTITY	Bigint	
RECID	Bigint	X
RECVERSION	Int	
REPORTINGCURRENCY	Nvarchar(3)	

Table: LOGISTICSADDRESSCOUNTRYREGION

Column	Data type	Primary key
ADDRESSUSEZIPPLUS4	Int	
ADDRFORMAT	Nvarchar(10)	

Column	Data type	Primary key
COUNTRYREGIONID	Nvarchar(10)	X
CURRENCYCODE	Nvarchar(3)	
ISIMMUTABLE	Int	
ISOCODE	Nvarchar(2)	
RECID	Bigint	
RECVERSION	Int	
TIMEZONE	Int	

Table: LOGISTICSADDRESSCOUNTRYREGIONTRANSLATION

Column	Data type	Primary key
COUNTRYREGIONID	Nvarchar(10)	
LANGUAGEID	Nvarchar(7)	
LONGNAME	Nvarchar(255)	
RECID	Bigint	X
SHORTNAME	Nvarchar(255)	

Table: LOGISTICSADDRESSCOUNTY

Column	Data type	Primary key
COUNTRYREGIONID	Nvarchar(10)	X
COUNTYCODE_SP	Nvarchar(2)	
COUNTYID	Nvarchar(10)	X
NAME	Nvarchar(60)	
RECID	Bigint	
STATEID	Nvarchar(10)	X

Table: LOGISTICSADDRESSDISTRICT

Column	Data type	Primary key
CITY	Bigint	
DESCRIPTION	Nvarchar(60)	
NAME	Nvarchar(60)	
RECID	Bigint	X

Table: LOGISTICSADDRESSSCITY

Column	Data type	Primary key
COUNTRYREGIONID	Nvarchar(10)	
COUNTYID	Nvarchar(10)	
DESCRIPTION	Nvarchar(60)	
NAME	Nvarchar(60)	
RECID	Bigint	X
STATEID	Nvarchar(10)	

Table: LOGISTICSADDRESSSTATE

Column	Data type	Primary key
COUNTRYREGIONID	Nvarchar(10)	X
INTRASTATCODE	Nvarchar(10)	
NAME	Nvarchar(60)	
RECID	Bigint	
RECVERSION	Int	
STATEID	Nvarchar(10)	X
TIMEZONE	Int	

Table: LOGISTICSADDRESSZIPCODE

Column	Data type	Primary key
CITY	Nvarchar(60)	
CITYALIAS	Nvarchar(30)	
CITYRECID	Bigint	
COUNTRYREGIONID	Nvarchar(10)	
COUNTY	Nvarchar(10)	
DISTRICT	Bigint	
DISTRICTNAME	Nvarchar(60)	
EVENODD	Int	
FROMNUM	Int	
RECID	Bigint	X
RECVERSION	Int	
STATE	Nvarchar(10)	
STREETNAME	Nvarchar(60)	
TIMEZONE	Int	

Column	Data type	Primary key
TONUM	Int	
ZIPCODE	Nvarchar(10)	

Table: LOGISTICSELECTRONICADDRESS

Column	Data type	Primary key
COUNTRYREGIONCODE	Nvarchar(5)	
LOCATION	Bigint	
LOCATOR	Nvarchar(255)	
LOCATOREXTENSION	Nvarchar(10)	
RECID	Bigint	X
TYPE	Int	
VALIDFROM	Datetime	
VALIDTO	Datetime	

Table: LOGISTICSLOCATION

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
DUNSNUMBERRECID	Bigint	
ISPOSTALADDRESS	Int	
LOCATIONID	Nvarchar(30)	
PARENTLOCATION	Bigint	
RECID	Bigint	X

Table: LOGISTICSLOCATIONEXT

Column	Data type	Primary key
LOCATION	Bigint	
RECID	Bigint	X
SALESCALENDARID	Nvarchar(10)	
TAXGROUP	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	

Table: LOGISTICSLOCATIONROLE

Column	Data type	Primary key
ISCONTACTINFO	Int	
ISPOSTALADDRESS	Int	
NAME	Nvarchar(40)	
RECID	Bigint	X
TYPE	Int	

Table: LOGISTICSLOCATIONROLETRANSLATION

Column	Data type	Primary key
DESCRIPTION	Nvarchar(255)	
LANGUAGEID	Nvarchar(7)	
LOCATIONROLE	Bigint	
RECID	Bigint	X

Table: LOGISTICSPOSTALADDRESS

Column	Data type	Primary key
ADDRESS	Nvarchar(250)	
BUILDINGCOMPLIMENT	Nvarchar(60)	
CITY	Nvarchar(60)	
CITYRECID	Bigint	
COUNTRYREGIONID	Nvarchar(10)	
COUNTY	Nvarchar(10)	
DISTRICT	Bigint	
DISTRICTNAME	Nvarchar(60)	
LATITUDE	Numeric(32,16)	
LOCATION	Bigint	
LONGITUDE	Numeric(32,16)	
MODIFIEDDATETIME	Datetime	
POSTBOX	Nvarchar(20)	
RECID	Bigint	X
RECVERSION	Int	
STATE	Nvarchar(10)	
STREET	Nvarchar(250)	
STREETNUMBER	Nvarchar(20)	

Column	Data type	Primary key
TIMEZONE	Int	
VALIDFROM	Datetime	
VALIDTO	Datetime	
ZIPCODE	Nvarchar(10)	
ZIPCODERECID	Bigint	

Table: MARKUPTABLE

Column	Data type	Primary key
CUSTOMERLEDGERDIMENSION	Bigint	
CUSTPOSTING	Int	
CUSTTYPE	Int	
INTRASTAT_FI	Int	
ISLETTEROFCREDIT_SA	Int	
MARKUPCODE	Nvarchar(10)	X
MAXAMOUNT	Numeric(32,16)	
MODULETYPE	Int	X
RECID	Bigint	
RETAILCONCESSIONFEE	Int	
TAXITEMGROUP	Nvarchar(10)	
TXT	Nvarchar(60)	
USEINMATCHING	Int	
VENDORLEDGERDIMENSION	Bigint	
VENDPOSTING	Int	
VENDTYPE	Int	
DATAAREAID	Nvarchar(4)	X

Table: OMOPERATINGUNIT

Column	Data type	Primary key
HCMWORKER	Bigint	
OMOPERATINGUNITNUMBER	Nvarchar(8)	
OMOPERATINGUNITTYPE	Int	
RECID	Bigint	X

Table: POSDISCVALIDATIONPERIOD

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
ENDINGTIME	Int	
ENDTIMEAFTERMID	Int	
FRIAFTERMIDNIGHT	Int	
FRIENDINGTIME	Int	
FRISTARTINGTIME	Int	
FRIWITHINBOUNDS	Int	
ID	Nvarchar(10)	X
MONAFTERMIDNIGHT	Int	
MONENDINGTIME	Int	
MONSTARTINGTIME	Int	
MONWITHINBOUNDS	Int	
RECID	Bigint	
SATAFTERMIDNIGHT	Int	
SATENDINGTIME	Int	
SATSTARTINGTIME	Int	
SATWITHINBOUNDS	Int	
STARTINGTIME	Int	
SUNAFTERMIDNIGHT	Int	
SUNENDINGTIME	Int	
SUNSTARTINGTIME	Int	
SUNWITHINBOUNDS	Int	
THUAFTERMIDNIGHT	Int	
THUENDINGTIME	Int	
THUSTARTINGTIME	Int	
THUWITHINBOUNDS	Int	
TIMEWITHINBOUNDS	Int	
TUEAFTERMIDNIGHT	Int	
TUEENDINGTIME	Int	
TUESTARTINGTIME	Int	
TUEWITHINBOUNDS	Int	
VALIDFROM	Datetime	
VALIDTO	Datetime	
WEDAFTERMIDNIGHT	Int	
WEDENDINGTIME	Int	

Column	Data type	Primary key
WEDSTARTINGTIME	Int	
WEDWITHINBOUNDS	Int	
DATAAREAID	Nvarchar(4)	X

Table: POSMULTIBUYDISCOUNTLINE

Column	Data type	Primary key
MINQUANTITY	Decimal(32,16)	
OFFERID	Nvarchar(40)	
RECID	Bigint	X
UNITPRICEORDISCPCT	Decimal(32,16)	
DATAAREAID	Nvarchar(4)	X

Table: POSSEEDVALUES

Column	Data type	Primary key
STOREID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TYPEID	Int	X
VALUE	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: PRICEDISCGROUP

Column	Data type	Primary key
GROUPID	Nvarchar(10)	X
MODULE	Int	X
NAME	Nvarchar(60)	
RECID	Bigint	
TYPE	Int	X
DATAAREAID	Nvarchar(4)	X

Table: PRICEDISCTABLE

Column	Data type	Primary key
ACCOUNTCODE	Int	

Column	Data type	Primary key
ACCOUNTRELATION	Nvarchar(20)	
ALLOCATEMARKUP	Int	
AMOUNT	Numeric(32,16)	
CURRENCY	Nvarchar(3)	
FROMDATE	Datetime	
GENERICCURRENCY	Int	
INVENTDIMID	Nvarchar(20)	
ITEMCODE	Int	
ITEMRELATION	Nvarchar(20)	
MARKUP	Numeric(32,16)	
MODULE	Int	
PERCENT1	Numeric(32,16)	
PERCENT2	Numeric(32,16)	
PRICEINCLVAT	Numeric(32,16)	
PRICEUNIT	Numeric(32,16)	
QUANTITYAMOUNTFROM	Numeric(32,16)	
QUANTITYAMOUNTTO	Numeric(32,16)	
RECID	Bigint	X
RELATION	Int	
SEARCHAGAIN	Int	
TODATE	Datetime	
UNITID	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	

Table: PRICEPARAMETERS

Column	Data type	Primary key
KEY_	Int	X
RECID	Bigint	
SALESENDACCOUNTALL	Int	
SALESENDALLALL	Int	
SALESENDGROUPALL	Int	
SALESLINEACCOUNTALL	Int	
SALESLINEACCOUNTGROUP	Int	
SALESLINEACCOUNTITEM	Int	
SALESLINEALLALL	Int	
SALESLINEALLGROUP	Int	

Column	Data type	Primary key
SALESLINEALLITEM	Int	
SALESLINEGROUPALL	Int	
SALESLINEGROUPGROUP	Int	
SALESLINEGROUPITEM	Int	
SALESMULTILNACCOUNTALL	Int	
SALESMULTILNACCOUNTGROUP	Int	
SALESMULTILNALLALL	Int	
SALESMULTILNALLGROUP	Int	
SALESMULTILNGROUPALL	Int	
SALESMULTILNGROUPGROUP	Int	
SALESPRICEACCOUNTITEM	Int	
SALESPRICEALLITEM	Int	
SALESPRICEGROUPITEM	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILASSORTMENTEXPLODED

Column	Data type	Primary key
ASSORTMENTRECID	Bigint	
CREATEDDATETIME	Datetime	
INVENTDIMID	Nvarchar(20)	
ITEMID	Nvarchar(20)	
MODIFIEDDATETIME	Datetime	
OMOPERATINGUNITID	Bigint	
RECID	Bigint	X
VALIDFROM	Datetime	
VALIDTO	Datetime	

Table: RETAILBARCODEMASKCHARACTER

Column	Data type	Primary key
CHARACTER	Nvarchar(1)	
CHARACTERTYPE	Int	X
COMMENT_	Nvarchar(50)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILBARCODEMASKSEGMENT

Column	Data type	Primary key
DECIMALS	Int	
LENGTH	Numeric(32,16)	
MASKID	Nvarchar(10)	X
RECID	Bigint	
SEGMENTNUM	Int	X
TYPE	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILBARCODEMASKTABLE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(50)	
MASK	Nvarchar(22)	
MASKID	Nvarchar(10)	X
PREFIX	Nvarchar(22)	
RECID	Bigint	
SYMBOLOGY	Int	
TYPE	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILBUTTONGRID

Column	Data type	Primary key
BUTTONGRIDID	Nvarchar(10)	X
DEFAULTCOLOR	Int	
DEFAULTFONTSIZE	Int	
DEFAULTFONTSTYLE	Int	
FONT	Nvarchar(32)	
KEYBOARDUSED	Nvarchar(10)	
NAME	Nvarchar(50)	
RECID	Bigint	
SPACEBETWEENBUTTONS	Int	

Table: RETAILBUTTONGRIDBUTTONS

Column	Data type	Primary key
ACTION	Int	
ACTIONPROPERTY	Nvarchar(1000)	
BUTTONGRIDID	Nvarchar(10)	X
COL	Int	
COLOUR	Int	
COLSPAN	Int	
DISPLAYTEXT	Nvarchar(50)	
FONTSIZE	Int	
FONTSTYLE	Int	
ID	Int	X
IMAGEALIGNMENT	Int	
PICTUREID	Int	
RECID	Bigint	
ROWNUM	Int	
ROWSPAN	Int	

Table: RETAILCATEGORYCONTAINMENTLOOKUP

Column	Data type	Primary key
CATEGORY	Bigint	
CONTAINEDCATEGORY	Bigint	
RECID	Bigint	X

Table: RETAILCHANNELPRICEGROUP

Column	Data type	Primary key
PRICEGROUP	Bigint	
RECID	Bigint	X
RETAILCHANNEL	Bigint	

Table: RETAILCHANNELTABLE

Column	Data type	Primary key
CHANNELTYPE	Int	
INSTANCERELATIONTYPE	Bigint	

Column	Data type	Primary key
OMOPERATINGUNITID	Bigint	
PRICEINCLUDESSALESTAX	Int	
RECID	Bigint	X

Table: RETAILCUSTTABLE

Column	Data type	Primary key
ACCOUNTNUM	Nvarchar(20)	X
RECEIPTEMAIL	Nvarchar(80)	
RECEIPTOPTION	Int	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILDISCOUNTCODE

Column	Data type	Primary key
BARCODE	Nvarchar(80)	
DISCOUNTCODE	Nvarchar(15)	
DISCOUNTOFFERID	Nvarchar(20)	
RECID	Bigint	X
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTLINEMIXANDMATCH

Column	Data type	Primary key
BLOCKED	Int	
DISCOUNTTYPE	Int	
LINEGROUP	Nvarchar(10)	
MANDATORY	Int	
NUMBEROFITEMSNEEDED	Int	
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTLINEMULTIBUY

Column	Data type	Primary key
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTLINEOFFER

Column	Data type	Primary key
DISCAMOUNT	Numeric(32,16)	
DISCAMOUNTINCLTAX	Numeric(32,16)	
DISCOUNTMETHOD	Int	
DISCOUNTVALUE	Numeric(32,16)	
DISCPCT	Numeric(32,16)	
OFFERPRICE	Numeric(32,16)	
OFFERPRICEINCLTAX	Numeric(32,16)	
QTYONHAND	Numeric(32,16)	
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTMIXANDMATCH

Column	Data type	Primary key
DEALPRICEVALUE	Numeric(32,16)	
DIFFERENTSAMEMANDMLINES	Int	
DISCOUNTAMOUNTVALUE	Numeric(32,16)	
MIXANDMATCHDISCOUNTTYPE	Int	
NOOFLEASTEXPENSIVELINES	Int	
NUMBEROFTIMESAPPLICABLE	Int	
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTMULTIBUY

Column	Data type	Primary key
MULTIBUYDISCOUNTTYPE	Int	
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILDISCOUNTOFFER

Column	Data type	Primary key
DISCONPOS	Int	
RECID	Bigint	X
RELATIONTYPE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILERRORS

Column	Data type	Primary key
ACTIVE	Int	
CODEUNIT	Nvarchar(100)	
DATECREATED	Datetime	
DATEUPDATED	Datetime	
DESCRIPTION	Nvarchar(255)	
ERRORID	Int	X
ERRORMESSAGEID	Int	X
FIRSTINVERSION	Nvarchar(20)	
RECID	Bigint	

Table: RETAILFORMLAYOUT

Column	Data type	Primary key
DESCRIPTION	Nvarchar(255)	
FOOTERXML	Nvarchar(0)	
FORMLAYOUTID	Nvarchar(10)	X
HEADERXML	Nvarchar(0)	
LAYOUTTYPE	Int	
LINESXML	Nvarchar(0)	

Column	Data type	Primary key
PRINTASSLIP	Int	
PRINTBEHAVIOUR	Int	
PROMPTQUESTION	Int	
RECID	Bigint	
TITLE	Nvarchar(30)	
UPPERCASE	Int	
USEWINDOWSPRINTER	Int	
WINDOWSPRINTERNAME	Nvarchar(512)	

Table: RETAILFUNCTIONALITYPROFILE

Column	Data type	Primary key
ADDTAXONPRICES	Int	
AGGREGATEITEMS	Int	
AGGREGATEITEMSFORPRINTING	Int	
AGGREGATEPAYMENTS	Int	
AMOUNTDECIMALPLACES	Nvarchar(10)	
AMOUNTROUNDINGTO	Numeric(32,16)	
BACKUPTRAININGTRANSACTIONS	Int	
BLOCKEDCLOSEDACCOUNT	Int	
CENTRALTABLESERVER	Nvarchar(20)	
CENTRALTABLESERVERPORT	Nvarchar(10)	
CURRENCYSYMBOL	Nvarchar(10)	
CUSTOMER	Nvarchar(50)	
CUSTOMER2	Nvarchar(50)	
DATAENTRIES	Nvarchar(50)	
DAYSTRANSACTIONSEXISTS	Int	
DISCOUNTATTOTAL	Nvarchar(10)	
DISPLAYSECONDARYTOTALCURRENCY	Int	
ENDOFTRANSACTION	Nvarchar(10)	
FLOATINGCASHIER	Nvarchar(50)	
INVENTORYLOOKUP	Nvarchar(50)	
ITEMNOTONFILE	Nvarchar(10)	
LIMITSTAFFLISTTOSTORE	Int	
LINEITEMTAXCHANGE	Nvarchar(10)	
LOGLEVEL	Int	
MARKDOWN	Nvarchar(10)	

Column	Data type	Primary key
MARKUP	Nvarchar(10)	
MAXIMUMPRICE	Numeric(32,16)	
MAXIMUMQTY	Numeric(32,16)	
MAXIMUMSTORETRANSLOG	Int	
MINIMUMPASSWORDLENGTH	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
MULTIBLEITEMSYMBOL	Nvarchar(10)	
MUSTKEYINPRICEIFZERO	Int	
NAME	Nvarchar(60)	
NEGATIVEADJUSTMENT	Nvarchar(10)	
NEGATIVESALESLINE	Nvarchar(10)	
NOTAXUSED	Int	
OVERRIDEPRICE	Nvarchar(10)	
PRICEDECIMALPLACES	Nvarchar(10)	
PRICEROUNDINGTO	Numeric(32,16)	
PRINTXREPORTONTERMINAL	Int	
PROFILEID	Nvarchar(10)	X
RECID	Bigint	
REFUNDSALE	Nvarchar(10)	
REQUIREAMOUNTDECLARATION	Int	
SALESPERSON	Nvarchar(10)	
SALESPERSONMODE	Int	
SECONDARYTOTALCURRENCY	Nvarchar(3)	
SENDTRANSACTION	Nvarchar(50)	
SERIALNUMBER	Nvarchar(10)	
SHOWSTAFFLISTATLOGON	Int	
SKIPTAXONRECEIPT	Int	
STAFFBARCODELOGON	Int	
STAFFCARDLOGON	Int	
STAFFVALIDATION	Nvarchar(50)	
STARTOFTRANSACTION	Nvarchar(10)	
SUPPORTEDCOUNTRYREGIONISOCODE	Nvarchar(2)	
SUSPENDRETRIEVETRANSACTION	Nvarchar(50)	
TAXREGISTRATIONNUMBERONRECEIPT	Int	
TENDERDECLARATION	Nvarchar(10)	
TRANSACTIONDELETEREMINDER	Int	

Column	Data type	Primary key
TRANSACTIONTAXCHANGE	Nvarchar(10)	
TSCENTRALTABLESERVER	Int	
TSCUSTOMER	Int	
TSDATAENTRIES	Int	
TSFLOATINGCASHIER	Int	
TSINVENTORYLOOKUP	Int	
TSRESENDDELAY	Int	
TSSENDTRANSACTIONS	Int	
TSSENDVOIDTRANSACTIONS	Int	
TSSTAFF	Int	
TSSUSPENDRETRIEVETRANSACTIONS	Int	
TSTRANSACTIONRESENDLIMIT	Int	
TSUPDATEREPLICATIONCOUNTER	Int	
VOIDISPRESSED	Nvarchar(10)	
VOIDPAYMENT	Nvarchar(10)	
VOIDPOSTEDTRANSACTION	Nvarchar(50)	
VOIDTRANSACTION	Nvarchar(10)	

Table: RETAILGROUPMEMBERLINE

Column	Data type	Primary key
CATEGORY	Bigint	
PRODUCT	Bigint	
RECID	Bigint	X
VARIANT	Bigint	

Table: RETAILHARDWAREPROFILE

Column	Data type	Primary key
CAPTUREEXTRADATA	Int	
CASHCHANGER	Int	
CASHCHANGERINITSETTINGS	Nvarchar(100)	
CASHCHANGERPORTSETTINGS	Nvarchar(50)	
CCTV	Int	
CCTVCAMERA	Nvarchar(60)	
CCTVHOSTNAME	Nvarchar(60)	
CCTVPORT	Int	

Column	Data type	Primary key
DELAYFORLINKEDITEMS	Int	
DISPLAYBALANCETEXT	Nvarchar(60)	
DISPLAYBINCONVERSION	Int	
DISPLAYCHARACTERSET	Int	
DISPLAYCLOSEDLINE1	Nvarchar(60)	
DISPLAYCLOSEDLINE2	Nvarchar(60)	
DISPLAYDESCRIPTION	Nvarchar(60)	
DISPLAYDEVICE	Int	
DISPLAYDEVICENAME	Nvarchar(60)	
DISPLAYLINKEDITEM	Int	
DISPLAYTERMINALCLOSED	Int	
DISPLAYTOTALTEXT	Nvarchar(60)	
DOCINSERTREMOVALTIMEOUT	Int	
DRAWER	Int	
DRAWERDESCRIPTION	Nvarchar(60)	
DRAWERDEVICENAME	Nvarchar(512)	
DUALDISPLAY	Int	
DUALDISPLAYBROWSERURL	Nvarchar(255)	
DUALDISPLAYIMAGEINTERVAL	Int	
DUALDISPLAYIMAGEPATH	Nvarchar(259)	
DUALDISPLAYRECEIPTPERCENTAGE	Numeric(32,16)	
DUALDISPLAYTYPE	Int	
EFT	Int	
EFTCOMPANYID	Nvarchar(50)	
EFTCONFIGURATION	Int	
EFTDATA	Nvarchar(128)	
EFTDESCRIPTION	Nvarchar(60)	
EFTMERCHANTID	Nvarchar(25)	
EFTPASSWORD	Nvarchar(16)	
EFTSERVERNAME	Nvarchar(80)	
EFTSERVERPORT	Nvarchar(10)	
EFTUSERID	Nvarchar(60)	
ENDTRACK1	Nvarchar(5)	
ENDTRACK2	Nvarchar(1)	
FORMXPOS	Int	
FORMYPOS	Int	
HARDTOTAL	Int	

Column	Data type	Primary key
HARDTOTALDESCRIPTION	Nvarchar(60)	
HARDTOTALDEVICENAME	Nvarchar(512)	
KEYBOARDMAPPINGID	Nvarchar(10)	
KEYLOCK	Int	
KEYLOCKDESCRIPTION	Nvarchar(60)	
KEYLOCKDEVICENAME	Nvarchar(512)	
LOGO	Int	
LOGOALIGNMENT	Int	
MANUALINPUTALLOWED	Int	
MAXINVOICELINES	Int	
MICR	Int	
MICRDESCRIPTION	Nvarchar(60)	
MICRDRIVERNAME	Nvarchar(30)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
MSR	Int	
MSRDESCRIPTION	Nvarchar(60)	
MSRDEVICENAME	Nvarchar(512)	
NAME	Nvarchar(60)	
PINPAD	Int	
PINPADDESCRIPTION	Nvarchar(60)	
PINPADDEVICENAME	Nvarchar(512)	
PRINTBINARYCONVERSION	Int	
PRINTER	Int	
PRINTERCHARACTERSET	Int	
PRINTERDESCRIPTION	Nvarchar(60)	
PRINTERDEVICENAME	Nvarchar(512)	
PRINTERRECEIPTPROFILEID	Nvarchar(10)	
PROFILEID	Nvarchar(10)	X
RECID	Bigint	
RFIDDESCRIPTION	Nvarchar(60)	
RFIDDEVICENAME	Nvarchar(512)	
RFIDSCANNERTYPE	Int	
SCALE	Int	
SCALEDESCRIPTION	Nvarchar(60)	
SCALEDEVICENAME	Nvarchar(512)	
SCANNER	Int	

Column	Data type	Primary key
SCANNERDESCRIPTION	Nvarchar(60)	
SCANNERDEVICENAME	Nvarchar(512)	
SCREENKEYBOARD	Int	
SEPARATOR1	Nvarchar(1)	
SHOWPICTURE	Int	
STARTTRACK1	Nvarchar(5)	
STARTTRACK2AFTER	Int	
TIMEOUTINSEC	Int	

Table: RETAILIMAGES

Column	Data type	Primary key
PICTURE	Varbinary	
PICTUREID	Int	X
RECID	Bigint	

Table: RETAILINCOMEEXPENSEACCOUNTTABLE

Column	Data type	Primary key
ACCOUNTNUM	Nvarchar(10)	X
ACCOUNTTYPE	Int	
MESSAGELINE1	Nvarchar(30)	
MESSAGELINE2	Nvarchar(30)	
NAME	Nvarchar(60)	
NAMEALIAS	Nvarchar(20)	
RECID	Bigint	
SLIPTEXT1	Nvarchar(30)	
SLIPTEXT2	Nvarchar(30)	
STOREID	Nvarchar(10)	X
DATAAREAID	Nvarchar(4)	X

Table: RETAILINFOCODETABLE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
INFOCODEID	Nvarchar(10)	X
INPUTREQUIRED	Int	

Column	Data type	Primary key
INPUTTYPE	Int	
LINKEDINFOCODEID	Nvarchar(10)	
MAXIMUMLENGTH	Int	
MAXIMUMVALUE	Numeric(32,16)	
MINIMUMLENGTH	Int	
MINIMUMVALUE	Numeric(32,16)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
ONCEPERTRANSACTION	Int	
PRINTINPUTNAMEONRECEIPT	Int	
PRINTINPUTONRECEIPT	Int	
PRINTPROMPTONRECEIPT	Int	
PROMPT	Nvarchar(60)	
RANDOMCOUNTER	Numeric(32,16)	
RANDOMFACTOR	Numeric(32,16)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILINFOCODETABLESPECIFIC

Column	Data type	Primary key
INFOCODEID	Nvarchar(10)	X
INPUTREQUIRED	Int	
RECID	Bigint	
REFRELATION	Nvarchar(20)	X
REFRELATION2	Nvarchar(20)	X
REFRELATION3	Nvarchar(20)	X
REFTABLEID	Int	X
SEQUENCE	Int	
WHENREQUIRED	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILINFORMATIONSUBCODETABLE

Column	Data type	Primary key
AMOUNTPERCENT	Numeric(32,16)	
DESCRIPTION	Nvarchar(60)	

Column	Data type	Primary key
INFOCODEID	Nvarchar(10)	X
NEWSALESLINE	Int	
PRICETYPE	Int	
RECID	Bigint	
SUBCODEID	Nvarchar(10)	X
TRIGGERCODE	Nvarchar(20)	
TRIGGERFUNCTION	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILINVENTLINKEDITEM

Column	Data type	Primary key
BLOCKED	Int	
ITEMID	Nvarchar(20)	X
LINKEDITEMID	Nvarchar(20)	X
QTY	Numeric(32,16)	
RECID	Bigint	
UNIT	Nvarchar(10)	X
DATAAREAID	Nvarchar(4)	X

Table: RETAILINVENTTABLE

Column	Data type	Primary key
BLOCKEDONPOS	Int	
DATEBLOCKED	Datetime	
DATETOACTIVATEITEM	Datetime	
DATETOBEBLOCKED	Datetime	
ITEMID	Nvarchar(20)	X
KEYINGINPRICE	Int	
KEYINGINQTY	Int	
MUSTKEYINCOMMENT	Int	
NODISCOUNTALLOWED	Int	
QTYBECOMESNEGATIVE	Int	
RECID	Bigint	
SCALEITEM	Int	
UNITPRICEINCLUDINGTAX	Numeric(32,16)	
ZEROPRICEVALID	Int	

Column	Data type	Primary key
DATAAREAID	Nvarchar(4)	X

Table: RETAILJOBPOSPERMISSIONGROUP

Column	Data type	Primary key
JOB	Bigint	
RECID	Bigint	X
RETAILPOSPERMISSIONGROUP	Bigint	

Table: RETAILKEYBOARDBUTTONCONTROL

Column	Data type	Primary key
BUTTONCONTROLID	Int	X
DEFAULTCOLOR	Nvarchar(10)	
DEFAULTFONT	Nvarchar(32)	
DEFAULTFONTSIZE	Int	
DEFAULTFONTSTYLE	Int	
NAME	Nvarchar(50)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILKEYBOARDBUTTONCONTROLB

Column	Data type	Primary key
ACTION	Int	
ACTIONPROPERTY	Nvarchar(1000)	
BUTTONCONTROLID	Int	
COLOUR	Nvarchar(20)	
DISPLAYTEXT	Nvarchar(50)	
FONTSIZE	Int	
FONTSTYLE	Int	
ID	Int	X
PICTURE	Nvarchar(0)	
RECID	Bigint	
ROWNUM	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILKEYBOARDMAPPINGTABLE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
KEYBOARDMAPPINGID	Nvarchar(10)	X
RECID	Bigint	
ACTION	Int	
ACTIONPROPERTY	Nvarchar(1000)	
ASCIIVALUE	Int	X
KEYBOARDMAPPINGID	Nvarchar(10)	X
KEYCHAR	Nvarchar(1)	
RECID	Bigint	

Table: RETAILKEYBOARDMAPPINGTRANS

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
KEYBOARDMAPPINGID	Nvarchar(10)	X
RECID	Bigint	
ACTION	Int	
ACTIONPROPERTY	Nvarchar(1000)	
ASCIIVALUE	Int	X
KEYBOARDMAPPINGID	Nvarchar(10)	X
KEYCHAR	Nvarchar(1)	
RECID	Bigint	

Table: RETAILLANGUAGETEXT

Column	Data type	Primary key
ACTIVE	Int	
DATECREATED	Datetime	
DATEUPDATED	Datetime	
ERRORTEXT	Int	
FIRSTINVERSION	Nvarchar(20)	
LANGUAGEID	Nvarchar(7)	X
MODULEID	Int	
RECID	Bigint	
TEXT	Nvarchar(250)	

Column	Data type	Primary key
TEXTID	Int	X

Table: RETAILLOG

Column	Data type	Primary key
CODEUNIT	Nvarchar(100)	
DURATIONINMILLISEC	Int	
ID	Int	X
LOGDATE	Datetime	
LOGLEVEL	Int	
LOGSTRING	Nvarchar(0)	
STOREID	Nvarchar(10)	
TERMINALID	Nvarchar(10)	

Table: RETAILLOYALTYCUSTTABLE

Column	Data type	Primary key
ACCOUNTNUM	Nvarchar(20)	
CREATEDBY	Nvarchar(8)	
CREATEDDATE	Datetime	
CUSTNAME	Nvarchar(60)	
LOYALTYCUSTID	Nvarchar(10)	X
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILLOYALTYMSRCARDTABLE

Column	Data type	Primary key
CARDNUMBER	Nvarchar(30)	X
CREATEDBY	Nvarchar(8)	
CREATEDDATE	Datetime	
EXPIREDPOINTS	Numeric(32,16)	
ISSUEDPOINTS	Numeric(32,16)	
LINKID	Nvarchar(10)	
LINKTYPE	Int	

Column	Data type	Primary key
LOYALTYCUSTID	Nvarchar(10)	
LOYALTYSCHEMEID	Nvarchar(10)	
LOYALTYTENDER	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
POINTSTATUS	Numeric(32,16)	
RECID	Bigint	
USEDPOINTS	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X

Table: RETAILLOYALTYMSRCARDTRANS

Column	Data type	Primary key
CARDNUMBER	Nvarchar(30)	X
CREATEDBY	Nvarchar(8)	
CREATEDDATE	Datetime	
DATEOFISSUE	Datetime	
ENTRYTYPE	Int	
EXPIRATIONDATE	Datetime	
LINENUM	Numeric(32,16)	X
LOYALTYCUSTID	Nvarchar(10)	
LOYALTYPOINTTRANSLINENUM	Numeric(32,16)	
LOYALTYSCHEMEID	Nvarchar(10)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
POINTS	Numeric(32,16)	
RECEIPTID	Nvarchar(18)	
RECID	Bigint	
SEQUENCENUMBER	Int	
STAFFID	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STATEMENTID	Nvarchar(20)	
STOREID	Nvarchar(10)	
TERMINALID	Nvarchar(10)	
TRANSACTIONID	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: RETAILLOYALTYPOINTSTABLE

Column	Data type	Primary key
BASECALCULATIONON	Int	
CONTACTSEGMENT_EDIT	Nvarchar(20)	
CUSTOMERGROUP_EDIT	Nvarchar(10)	
LOYALTYSCHEMEID	Nvarchar(10)	
POINTS	Numeric(32,16)	
PRODUCTTENDERTYPE	Int	
QTYAMOUNTLIMIT	Numeric(32,16)	
RECID	Bigint	X
RETAILGROUPMEMBERLINE	Bigint	
RETAILTENDERTYPEID	Nvarchar(10)	
VALIDFROM	Datetime	
VALIDTO	Datetime	
DATAAREAID	Nvarchar(4)	

Table: RETAILLOYALTYSCHEMESTABLE

Column	Data type	Primary key
CALCULATIONCODEUNIT_EDIT	Int	
CALCULATIONTYPE	Int	
CARDFLITER_EDIT	Nvarchar(10)	
CARDNUMBERLENGTH	Int	
CARDREGISTRATION	Int	
CREATEDBY	Nvarchar(8)	
CREATEDDATE	Datetime	
CUSTOMERNOLINK_LINKSTOCUS20017	Nvarchar(20)	
DATEFILTER	Datetime	
DESCRIPTION	Nvarchar(60)	
DISPLAYMESSAGEONPOS	Int	
EXPIRATIONCALCULATION	Datetime	
EXPIRATIONTIMEUNIT	Int	
EXPIRATIONTIMEVALUE	Int	
LOYALTYSCHEMEID	Nvarchar(10)	
LOYALTYTENDERTYPE	Nvarchar(10)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	

Column	Data type	Primary key
RECID	Bigint	X
SHOWPOINTSONRECIEPT	Int	
STARTINGCARDNO_EDIT	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: RETAILMIXANDMATCHLINEGROUPS

Column	Data type	Primary key
DISCOUNTLINECOLORID	Int	
MIXANDMATCHID	Nvarchar(20)	X
MIXANDMATCHLINEGROUP	Nvarchar(10)	X
NUMBEROFITEMSNEEDED	Int	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILOFFLINEPROFILE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(256)	
NAME	Nvarchar(10)	
RECID	Bigint	X

Table: RETAILOFFLINEPROFILESCOPES

Column	Data type	Primary key
PROFILEID	Bigint	
RECID	Bigint	X
SCOPEID	Bigint	

Table: RETAILOFFLINESCOPE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(256)	
LASTSYNCTIME	Datetime	
RECID	Bigint	X
SYNCDIRECTION	Int	

Column	Data type	Primary key
SYNCFREQUENCY	Int	

Table: **RETAILOFFLINESCOPETABLES**

Column	Data type	Primary key
RECID	Bigint	X
SCOPEID	Bigint	
SYNCTABLEID	Bigint	

Table: **RETAILOFFLINETABLE**

Column	Data type	Primary key
RECID	Bigint	X
TABLENAME	Nvarchar(50)	

Table: **RETAILOFFLINETABLECOLUMNS**

Column	Data type	Primary key
RECID	Bigint	X
SYNCCOLUMNNAME	Nvarchar(40)	
SYNCTABLE	Bigint	

Table: **RETAILOPERATIONS**

Column	Data type	Primary key
CHECKUSERACCESS	Int	
OPERATIONID	Int	X
OPERATIONNAME	Nvarchar(50)	
PERMISSIONID	Int	
PERMISSIONID2	Int	
RECID	Bigint	
USEROPERATION	Int	

Table: RETAILPARAMETERS

Column	Data type	Primary key
CANCELLATIONCHARGE	Numeric(32,16)	
CANCELLATIONCHARGECODE	Nvarchar(10)	
DEFAULTORDERTYPE	Int	
EXPIRATIONDATE	Int	
KEY_	Int	X
MINIMUMDEPOSITFORSALESORDER	Numeric(32,16)	
PICKUPDELIVERYMODECODE	Nvarchar(10)	
RECEIPTOPTION	Int	
RECID	Bigint	
SHIPPINGCHARGECODE	Nvarchar(10)	
DATAAREAID	Nvarchar(4)	X

Table: RETAILPERIODICDISCOUNT

Column	Data type	Primary key
CONCURRENCYMODE	Int	
CURRENCYCODE	Nvarchar(3)	
DATEVALIDATIONTYPE	Int	
DISCOUNTPERCENTVALUE	Numeric(32,16)	
INSTANCERELATIONTYPE	Bigint	
ISDISCOUNTCODEREQUIRED	Int	
NAME	Nvarchar(60)	
OFFERID	Nvarchar(20)	
PERIODICDISCOUNTTYPE	Int	
PRICEDISCGROUP	Bigint	
PRIORITY	Int	
RECID	Bigint	X
RELATIONTYPE	Bigint	
STATUS	Int	
VALIDATIONPERIODID	Nvarchar(10)	
VALIDFROM	Datetime	
VALIDTO	Datetime	
DATAAREAID	Nvarchar(4)	

Table: RETAILPERIODICDISCOUNTLINE

Column	Data type	Primary key
CURRENCYCODE	Nvarchar(3)	
DISCOUNTPERCENTORVALUE	Numeric(32,16)	
INSTANCERELATIONTYPE	Bigint	
ISDISCOUNTCODEREQUIRED	Int	
LINENUM	Numeric(32,16)	
NAME	Nvarchar(60)	
OFFERID	Nvarchar(20)	
RECID	Bigint	X
RELATIONTYPE	Bigint	
RETAILGROUPMEMBERLINE	Bigint	
STATUS	Int	
UNITOFMEASURE	Bigint	
DATAAREAID	Nvarchar(4)	

Table: RETAILPERMISSIONS

Column	Data type	Primary key
PERMISSIONID	Int	X
PERMISSIONNAME	Nvarchar(100)	
RECID	Bigint	

Table: RETAILPOSBATCHACCOUNTTRANS

Column	Data type	Primary key
ACCOUNTNUM	Nvarchar(10)	X
ACCOUNTTYPE	Int	
AMOUNT	Numeric(32,16)	
BATCHID	Bigint	X
DATAAREAID	Nvarchar(4)	X
REPLICATIONCOUNTER	Int	
STOREID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X

Table: RETAILPOSBATCHTABLE

Column	Data type	Primary key
BATCHID	Bigint	X
CLOSEDATE	Datetime	
CLOSEDATETIMEUTC	Datetime	
CLOSETIME	Int	
CUSTOMERSCOUNT	Int	
DATAAREAID	Nvarchar(4)	X
DISCOUNTTOTAL	Numeric(32,16)	
LOGONSCOUNT	Int	
NOSALECOUNT	Int	
PAIDTOACCOUNTTOTAL	Numeric(32,16)	
REPLICATIONCOUNTER	Int	
RETURNSTOTAL	Numeric(32,16)	
ROUNDEDAMOUNTTOTAL	Numeric(32,16)	
SALESCOUNT	Int	
SALESTOTAL	Numeric(32,16)	
STAFFID	Nvarchar(25)	
STARTDATE	Datetime	
STARTDATETIMEUTC	Datetime	
STARTTIME	Int	
STATUS	Int	
STOREID	Nvarchar(10)	X
TAXTOTAL	Numeric(32,16)	
TERMINALID	Nvarchar(10)	X
TRANSACTIONSCOUNT	Int	
VOIDSCOUNT	Int	

Table: RETAILPOSBATCHTENDERTRANS

Column	Data type	Primary key
ADDTOTENDERAMOUNT	Numeric(32,16)	
ADDTOTENDERAMOUNTCUR	Numeric(32,16)	
BANKDROPAMOUNT	Numeric(32,16)	
BANKDROPAMOUNTCUR	Numeric(32,16)	
BATCHID	Bigint	X
CARDTYPEID	Nvarchar(10)	X

Column	Data type	Primary key
CHANGEAMOUNT	Numeric(32,16)	
CHANGEAMOUNTCUR	Numeric(32,16)	
COUNT	Int	
COUNTINGREQUIRED	Int	
CURRENCY	Nvarchar(3)	X
DATAAREAID	Nvarchar(4)	X
DECLARETENDERAMOUNT	Numeric(32,16)	
DECLARETENDERAMOUNTCUR	Numeric(32,16)	
REMOVETENDERAMOUNT	Numeric(32,16)	
REMOVETENDERAMOUNTCUR	Numeric(32,16)	
REPLICATIONCOUNTER	Int	
SAFEDROPAMOUNT	Numeric(32,16)	
SAFEDROPAMOUNTCUR	Numeric(32,16)	
STARTINGAMOUNT	Numeric(32,16)	
STARTINGAMOUNTCUR	Numeric(32,16)	
STOREID	Nvarchar(10)	X
TENDEREDAMOUNT	Numeric(32,16)	
TENDEREDAMOUNTCUR	Numeric(32,16)	
TENDERTYPEID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X

Table: RETAILPOSITIONPOSPERMISSION

Column	Data type	Primary key
ALLOWBLINDCLOSE	Int	
ALLOWCHANGENOVOID	Int	
ALLOWCREATEORDER	Int	
ALLOWEDITORDER	Int	
ALLOWFLOATINGTENDERDECLARATION	Int	
ALLOWMULTIPLELOGINS	Int	
ALLOWMULTIPLESHIFTLOGON	Int	
ALLOWOPENDRAWERONLY	Int	
ALLOWPRICEOVERRIDE	Int	
ALLOWRETRIEVEORDER	Int	
ALLOWSALESTAXCHANGE	Int	
ALLOWTENDERDECLARATION	Int	
ALLOWTRANSACTIONSUSPENSION	Int	

Column	Data type	Primary key
ALLOWTRANSACTIONVOIDING	Int	
ALLOWXREPORTPRINTING	Int	
ALLOWZREPORTPRINTING	Int	
MANAGERPRIVILEGES	Int	
MAXIMUMDISCOUNTPCT	Numeric(32,16)	
MAXLINEDISCOUNTAMOUNT	Numeric(32,16)	
MAXLINERETURNAMOUNT	Numeric(32,16)	
MAXTOTALDISCOUNTAMOUNT	Numeric(32,16)	
MAXTOTALDISCOUNTPCT	Numeric(32,16)	
MAXTOTALRETURNAMOUNT	Numeric(32,16)	
NAME	Nvarchar(60)	
POSITION	Bigint	
POSPERMISSIONGROUP	Bigint	
RECID	Bigint	X
USEHANDHELD	Int	

Table: RETAILPOSPERMISSIONGROUP

Column	Data type	Primary key
ALLOWBLINDCLOSE	Int	
ALLOWCHANGENOVOID	Int	
ALLOWCREATEORDER	Int	
ALLOWEDITORDER	Int	
ALLOWFLOATINGTENDERDECLARATION	Int	
ALLOWMULTIPLELOGINS	Int	
ALLOWMULTIPLESHIFTLOGON	Int	
ALLOWOPENDRAWERONLY	Int	
ALLOWPRICEOVERRIDE	Int	
ALLOWRETRIEVEORDER	Int	
ALLOWSALESTAXCHANGE	Int	
ALLOWTENDERDECLARATION	Int	
ALLOWTRANSACTIONSUSPENSION	Int	
ALLOWTRANSACTIONVOIDING	Int	
ALLOWXREPORTPRINTING	Int	
ALLOWZREPORTPRINTING	Int	
MANAGERPRIVILEGES	Int	
MAXIMUMDISCOUNTPCT	Numeric(32,16)	

Column	Data type	Primary key
MAXLINEDISCOUNTAMOUNT	Numeric(32,16)	
MAXLINERETURNAMOUNT	Numeric(32,16)	
MAXTOTALDISCOUNTAMOUNT	Numeric(32,16)	
MAXTOTALDISCOUNTPCT	Numeric(32,16)	
MAXTOTALRETURNAMOUNT	Numeric(32,16)	
NAME	Nvarchar(60)	
POSPERMISSIONGROUPID	Nvarchar(10)	
RECID	Bigint	X
USEHANDHELD	Int	

Table: RETAILRECEIPTMASKS

Column	Data type	Primary key
FUNCPROFILEID	Nvarchar(10)	X
ISINDEPENDENT	Int	
MASK	Nvarchar(18)	
RECEIPTTRANSTYPE	Int	X
RECID	Bigint	

Table: RETAILRECEIPTPROFILE

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
PROFILEID	Nvarchar(10)	X
RECID	Bigint	

Table: RETAILRECEIPTPROFILELINE

Column	Data type	Primary key
FORMLAYOUTID	Nvarchar(10)	
PROFILEID	Nvarchar(10)	X
RECEIPTTYPE	Int	X
RECID	Bigint	

Table: RETAILSALESTAXOVERRIDE

Column	Data type	Primary key
ADDITIONALDESCRIPTION	Nvarchar(60)	
CODE	Nvarchar(25)	X
DESCRIPTION	Nvarchar(60)	
DESTINATIONITEMTAXGROUP	Nvarchar(10)	
DESTINATIONTAXGROUP	Nvarchar(10)	
OVERRIDEBY	Int	
OVERRIDEFROM	Int	
OVERRIDETO	Int	
OVERRIDETYPE	Int	
RECID	Bigint	
SOURCEITEMTAXGROUP	Nvarchar(10)	
SOURCETAXGROUP	Nvarchar(10)	
STATUS	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILSALESTAXOVERRIDEGROUP

Column	Data type	Primary key
CODE	Nvarchar(25)	X
DESCRIPTION	Nvarchar(60)	
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILSALESTAXOVERRIDEGROUPMEMBER

Column	Data type	Primary key
RBOSALESTAXOVERRIDECODE	Nvarchar(25)	X
RBOSALESTAXOVERRIDEGROUPCODE	Nvarchar(25)	X
RECID	Bigint	
DATAAREAID	Nvarchar(4)	X

Table: RETAILSHAREDPARAMETERS

Column	Data type	Primary key
EXCHANGERATETYPE	Bigint	

Column	Data type	Primary key
KEY_	Int	
RECID	Bigint	X

Table: RETAILSPECIALCATEGORYMEMBER

Column	Data type	Primary key
CATEGORY	Bigint	
RECID	Bigint	X
RETAILGROUPMEMBER	Bigint	

Table: RETAILSTAFFTABLE

Column	Data type	Primary key
CHANGEPASSWORD	Int	
CONTINUEONTSERRORS	Int	
EMPLOYMENTTYPE	Int	
LAYOUTID	Nvarchar(10)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
NAMEONRECEIPT	Nvarchar(15)	
OPERATORCULTURE	Nvarchar(7)	
PASSWORD	Nvarchar(32)	
PASSWORDDATA	Nvarchar(128)	
RECID	Bigint	X
RETAILHCMWORKER	Bigint	
STAFFID	Nvarchar(25)	

Table: RETAILSTOREADDRESSBOOK

Column	Data type	Primary key
ADDRESSBOOK	Bigint	
ADDRESSBOOKTYPE	Int	
RECID	Bigint	X
STORERECID	Bigint	

Table: RETAILSTORECASHDECLARATIONTABLE

Column	Data type	Primary key
AMOUNT	Numeric(32,16)	X
CURRENCY	Nvarchar(3)	X
RECID	Bigint	
STOREID	Nvarchar(10)	X
TYPE	Int	X
DATAAREAID	Nvarchar(4)	X

Table: RETAILSTORETABLE

Column	Data type	Primary key
CLOSINGMETHOD	Int	
CREATELABELSFORZEROPRICE	Int	
CULTURENAME	Nvarchar(7)	
CURRENCY	Nvarchar(3)	
DEFAULTCUSTACCOUNT	Nvarchar(20)	
DEFAULTCUSTDATAAREAID	Nvarchar(4)	
FUNCTIONALITYPROFILE	Nvarchar(10)	
HIDETRAININGMODE	Int	
INCOMEEXEPENSEACCOUNT	Nvarchar(10)	
INCOMEEXPENSEACCOUNTDATAAREAID	Nvarchar(4)	
INCOMEEXPENSEACCOUNTSTOREID	Nvarchar(10)	
INVENTLOCATION	Nvarchar(10)	
INVENTLOCATIONDATAAREAID	Nvarchar(4)	
INVENTLOCATIONIDFORCUSTOMERORDER	Nvarchar(10)	
INVENTORYLOOKUP	Int	
ITEMIDONRECEIPT	Int	
LAYOUTID	Nvarchar(10)	
MAXIMUMPOSTINGDIFFERENCE	Numeric(32,16)	
MAXIMUMTEXTLENGTHONRECEIPT	Int	
MAXROUNDINGAMOUNT	Numeric(32,16)	
MAXROUNDINGTAXAMOUNT	Numeric(32,16)	
MAXSHIFTDIFFERENCEAMOUNT	Numeric(32,16)	
MAXTRANSACTIONDIFFERENCEAMOUNT	Numeric(32,16)	
NUMBEROFTOPORBOTTOMLINES	Int	
OFFLINEPROFILE	Bigint	

Column	Data type	Primary key
ONESTATEMENTPERDAY	Int	
OPENFROM	Int	
OPENTO	Int	
PHONE	Nvarchar(20)	
RECID	Bigint	X
REMOVEADDTENDER	Nvarchar(10)	
REPLICATIONCOUNTER	Int	
ROUNDINGTAXACCOUNT	Nvarchar(20)	
SERVICECHARGEPCT	Numeric(32,16)	
SERVICECHARGEPROMPT	Nvarchar(30)	
STATEMENTMETHOD	Int	
STORENUMBER	Nvarchar(10)	
TAXGROUP	Nvarchar(10)	
TAXGROUPDATAAREAID	Nvarchar(4)	
TAXIDENTIFICATIONNUMBER	Nvarchar(25)	
TAXOVERRIDEGROUP	Bigint	
TENDERDECLARATIONCALCULATION	Int	
USECUSTOMERBASEDTAX	Int	
USEDEFAULTCUSTACCOUNT	Int	
USEDESTINATIONBASEDTAX	Int	

Table: RETAILSTORETENDERTYPECARDTABLE

Column	Data type	Primary key
ACCOUNTTYPE	Int	
ALLOWMANUALINPUT	Int	
CARDFEE	Numeric(32,16)	
CARDNUMBERSWIPED	Int	
CARDTYPEID	Nvarchar(10)	X
CASHBACKLIMIT	Numeric(32,16)	
CHECKEXPIREDDATE	Int	
CHECKMODULUS	Int	
COUNTINGREQUIRED	Int	
CURRENCYCODE	Nvarchar(3)	
CURRENCYONTOTALSCODE	Nvarchar(3)	
ENTERFLEETINFO	Int	
MANUALAUTHORIZATION	Int	

Column	Data type	Primary key
MAXNORMALDIFFERENCEAMOUNT	Numeric(32,16)	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
NAME	Nvarchar(60)	
PROCESSLOCALLY	Int	
RECID	Bigint	
SAMECARDALLOWED	Int	
STOREID	Nvarchar(10)	X
TENDERTYPEID	Nvarchar(10)	X
DATAAREAID	Nvarchar(4)	X

Table: RETAILSTORETENDERTYPETABLE

Column	Data type	Primary key
ABOVEMINIMUMTENDERID	Nvarchar(10)	
ALLOWOVERTENDER	Int	
ALLOWUNDERTENDER	Int	
CHANGETENDERID	Nvarchar(10)	
COUNTINGREQUIRED	Int	
FUNCTION_	Int	
MAXCOUNTINGDIFFERENCE	Numeric(32,16)	
MAXIMUMAMOUNTALLOWED	Numeric(32,16)	
MAXIMUMAMOUNTENTERED	Numeric(32,16)	
MAXIMUMOVERTENDERAMOUNT	Numeric(32,16)	
MAXRECOUNT	Int	
MINIMUMAMOUNTALLOWED	Numeric(32,16)	
MINIMUMAMOUNTENTERED	Numeric(32,16)	
MINIMUMCHANGEAMOUNT	Numeric(32,16)	
NAME	Nvarchar(60)	
OPENDRAWER	Int	
POSOPERATION	Int	
RECID	Bigint	
ROUNDING	Numeric(32,16)	
ROUNDINGMETHOD	Int	
STOREID	Nvarchar(10)	X
TAKENTOBANK	Int	
TAKENTOSAFE	Int	

Column	Data type	Primary key
TENDERTYPEID	Nvarchar(10)	X
UNDERTENDERAMOUNT	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X

Table: RETAILSUSPENDEDTRANSACTIONS

Column	Data type	Primary key
BYTELENGTH	Int	
NETAMOUNT	Numeric(32,16)	
STAFF	Nvarchar(25)	
STOREID	Nvarchar(10)	X
SUSPENDEDTRANSACTIONID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TRANSACTIONDATA	Varbinary	
TRANSDATE	Datetime	
DATAAREAID	Nvarchar(4)	X

Table: RETAILTENDERTYPECARDNUMBERS

Column	Data type	Primary key
CARDNUMBERFROM	Nvarchar(30)	X
CARDNUMBERLENGTH	Int	X
CARDNUMBERTO	Nvarchar(30)	X
CARDTYPEID	Nvarchar(10)	X
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
RECID	Bigint	

Table: RETAILTENDERTYPECARDTABLE

Column	Data type	Primary key
CARDISSUER	Nvarchar(60)	
CARDTYPEID	Nvarchar(10)	X
CARDTYPES	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
NAME	Nvarchar(60)	

Column	Data type	Primary key
RECID	Bigint	

Table: RETAILTERMINALCUSTOMFIELD

Column	Data type	Primary key
CAPTIONTEXTID	Int	
NAME	Nvarchar(50)	
RECID	Bigint	X
TYPE	Int	

Table: RETAILTERMINALTABLE

Column	Data type	Primary key
AUTOLOGOFFTIMEOUT	Int	
CLOSINGSTATUS	Int	
CUSTOMERDISPLAYTEXT1	Nvarchar(40)	
CUSTOMERDISPLAYTEXT2	Nvarchar(40)	
EFTSTORERECID	Bigint	
EFTTERMINALID	Nvarchar(10)	
EXITAFTEREACHTRANSACTION	Int	
HARDWAREPROFILE	Nvarchar(10)	
IPADDRESS	Nvarchar(30)	
ITEMIDONRECEIPT	Int	
LAYOUTID	Nvarchar(10)	
LOCATION	Nvarchar(60)	
MANAGERKEYONRETURN	Int	
MAXDISPLAYTEXTLENGTH	Int	
MAXRECEIPTTEXTLENGTH	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
NAME	Nvarchar(60)	
NOTACTIVE	Int	
NUMBEROFTOPBOTTOMLINES	Int	
ONLYTOTALINSUSPENDEDTRANS20015	Int	
OPENDRAWERATLILO	Int	
PRINTVATREFUNDCHECKS	Int	
RECEIPTBARCODE	Int	

Column	Data type	Primary key
RECEIPTPRINTINGDEFAULTOFF	Int	
RECEIPTSETUPLOCATION	Int	
RECID	Bigint	
RETURNINTRANSACTION	Int	
SLIPIFRETURN	Int	
STANDALONE	Int	
STATEMENTMETHOD	Int	
STORERECID	Bigint	
TERMINALID	Nvarchar(10)	X
TERMINALSTATEMENT	Int	
TRANSACTIONSERVICEPROFILE	Nvarchar(10)	
UPDATESERVICEPORT	Int	
VISUALPROFILE	Nvarchar(10)	

Table: RETAILTILLLAYOUT

Column	Data type	Primary key
BUTTONGRID1	Nvarchar(10)	
BUTTONGRID2	Nvarchar(10)	
BUTTONGRID3	Nvarchar(10)	
BUTTONGRID4	Nvarchar(10)	
BUTTONGRID5	Nvarchar(10)	
CASHCHANGERLAYOUTXML	Nvarchar(0)	
CUSTOMERLAYOUTID	Nvarchar(10)	
CUSTOMERLAYOUTXML	Nvarchar(0)	
HEIGHT	Int	
IMG_CASHCHANGERLAYOUTXML	Varbinary	
LAYOUTID	Nvarchar(10)	X
LAYOUTXML	Nvarchar(0)	
LOGOPICTUREID	Int	
NAME	Nvarchar(50)	
RECEIPTID	Nvarchar(10)	
RECEIPTITEMSLAYOUTXML	Nvarchar(0)	
RECEIPTPAYMENTLAYOUTXML	Nvarchar(0)	
RECID	Bigint	
TOTALID	Nvarchar(10)	
TOTALSLAYOUTXML	Nvarchar(0)	

Column	Data type	Primary key
WIDTH	Int	

Table: RETAILTRANSACTIONBANKEDTENDERTRANS

Column	Data type	Primary key
AMOUNTCUR	Numeric(32,16)	
AMOUNTCURPOS	Numeric(32,16)	
AMOUNTMST	Numeric(32,16)	
AMOUNTMSTPOS	Numeric(32,16)	
AMOUNTTENDERED	Numeric(32,16)	
AMOUNTTENDEREDPOS	Numeric(32,16)	
BANKBAGNO	Nvarchar(30)	
CARDORACCOUNT	Nvarchar(30)	
CARDTYPEID	Nvarchar(10)	
CHANGELINE	Int	
COUNTER	Numeric(32,16)	
CURRENCY	Nvarchar(3)	
DATAAREAID	Nvarchar(4)	X
EXCHRATE	Numeric(32,16)	
EXCHRATEMST	Numeric(32,16)	
LINENUM	Numeric(32,16)	X
MANAGERSKEYLIVE	Int	
MESSAGENUM	Int	
QTY	Numeric(32,16)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STATUSTYPE	Int	
STORE	Nvarchar(10)	X
TENDERTYPE	Nvarchar(10)	
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	

Column	Data type	Primary key
TRANSTIME	Int	

Table: RETAILTRANSACTIONDISCOUNTTRANS

Column	Data type	Primary key
AMOUNT	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X
DISCOUNTCODE	Nvarchar(15)	
PERIODICDISCOUNTOFFERID	Nvarchar(20)	X
REPLICATIONCOUNTER	Int	
SALELINENUM	Numeric(32,16)	X
STOREID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X

Table: RETAILTRANSACTIONINCOMEEXPENSETRANS

Column	Data type	Primary key
ACCOUNTTYPE	Int	
AMOUNT	Numeric(32,16)	
COUNTER	Int	
DATAAREAID	Nvarchar(4)	X
INCOMEEXEPENSEACCOUNT	Nvarchar(10)	
LINENUM	Numeric(32,16)	X
RECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STATEMENTID	Nvarchar(20)	
STORE	Nvarchar(10)	X
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	

Column	Data type	Primary key
TRANSTIME	Int	

Table: RETAILTRANSACTIONINFOCODETRANS

Column	Data type	Primary key
AMOUNT	Numeric(32,16)	
COUNTER	Int	
DATAAREAID	Nvarchar(4)	X
INFOAMOUNT	Numeric(32,16)	
INFOCODEID	Nvarchar(10)	X
INFORMATION	Nvarchar(100)	
INPUTTYPE	Int	
ITEMTENDER	Nvarchar(10)	
LINENUM	Numeric(32,16)	X
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SOURCECODE	Nvarchar(20)	
SOURCECODE2	Nvarchar(20)	
SOURCECODE3	Nvarchar(20)	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STORE	Nvarchar(10)	X
SUBINFOCODEID	Nvarchar(10)	
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSDATE	Datetime	
TRANSTIME	Int	
TYPE	Int	X

Table: RETAILTRANSACTIONLOYALTYPOINTTRANS

Column	Data type	Primary key
CARDNUMBER	Nvarchar(30)	
DATAAREAID	Nvarchar(4)	X
DATEOFISSUE	Datetime	
ENTRYTYPE	Int	
EXPIRATIONDATE	Datetime	

Column	Data type	Primary key
LINENUM	Numeric(32,16)	X
LOYALTYCUSTID	Nvarchar(10)	
LOYALTYSCHEMEID	Nvarchar(10)	
POINTS	Numeric(32,16)	
RECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SEQUENCENUMBER	Int	
STAFFID	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STOREID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X

Table: RETAILTRANSACTIONORDERINVOICETRANS

Column	Data type	Primary key
AMOUNTCUR	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X
INVOICEID	Nvarchar(20)	
LINENUM	Numeric(32,16)	X
REPLICATIONCOUNTER	Int	
SALESID	Nvarchar(20)	
SALESORDERINVOICETYPE	Int	
STOREID	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X

Table: RETAILTRANSACTIONPAYMENTTRANS

Column	Data type	Primary key
AMOUNTCUR	Numeric(32,16)	
AMOUNTMST	Numeric(32,16)	
AMOUNTTENDERED	Numeric(32,16)	
CARDORACCOUNT	Nvarchar(30)	
CARDTYPEID	Nvarchar(10)	
CHANGELINE	Int	

Column	Data type	Primary key
COUNTER	Int	
CREDITVOUCHERID	Nvarchar(30)	
CURRENCY	Nvarchar(3)	
DATAAREAID	Nvarchar(4)	X
EXCHRATE	Numeric(32,16)	
EXCHRATEMST	Numeric(32,16)	
GIFTCARDID	Nvarchar(30)	
LINENUM	Numeric(32,16)	X
LOYALTYCARDID	Nvarchar(30)	
MANAGERKEYLIVE	Int	
MESSAGENUM	Int	
QTY	Numeric(32,16)	
RECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STORE	Nvarchar(10)	X
TENDERTYPE	Nvarchar(10)	
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	
TRANSTIME	Int	

Table: RETAILTRANSACTIONSAFETENDERTRANS

Column	Data type	Primary key
AMOUNTCUR	Numeric(32,16)	
AMOUNTCURPOS	Numeric(32,16)	
AMOUNTMST	Numeric(32,16)	
AMOUNTMSTPOS	Numeric(32,16)	
AMOUNTTENDERED	Numeric(32,16)	
AMOUNTTENDEREDPOS	Numeric(32,16)	
CARDORACCOUNT	Nvarchar(30)	

Column	Data type	Primary key
CARDTYPEID	Nvarchar(10)	
CHANGELINE	Int	
COUNTER	Numeric(32,16)	
CURRENCY	Nvarchar(3)	
DATAAREAID	Nvarchar(4)	X
EXCHRATE	Numeric(32,16)	
EXCHRATEMST	Numeric(32,16)	
LINENUM	Numeric(32,16)	X
MANAGERSKEYLIVE	Int	
MESSAGENUM	Int	
QTY	Numeric(32,16)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STATEMENTID	Nvarchar(20)	X
STATUSTYPE	Int	
STORE	Nvarchar(10)	X
TENDERTYPE	Nvarchar(10)	
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	
TRANSTIME	Int	

Table: RETAILTRANSACTIONSALESTRANS

Column	Data type	Primary key
BARCODE	Nvarchar(80)	
COMMENT	Nvarchar(60)	
COSTAMOUNT	Numeric(32,16)	
COUNTER	Int	
CUSTACCOUNT	Nvarchar(20)	
CUSTDISCAMOUNT	Numeric(32,16)	
CUSTINVOICEDISCAMOUNT	Numeric(32,16)	

Column	Data type	Primary key
DATAAREAID	Nvarchar(4)	X
DISCAMOUNT	Numeric(32,16)	
DISCAMOUNTFROMSTDPRICE	Numeric(32,16)	
DISCGROUPID	Nvarchar(10)	
DISCOFFERID	Nvarchar(40)	
DISCOUNTAMOUNTFORPRINTING	Numeric(32,16)	
FILELOGID	Nvarchar(10)	
GIFTCARD	Int	
INFOCODEDISCAMOUNT	Numeric(32,16)	
INVENTSERIALID	Nvarchar(20)	
ITEMCORRECTEDLINE	Int	
ITEMID	Nvarchar(20)	
ITEMIDSCANNED	Int	
ITEMPOSTINGGROUP	Nvarchar(20)	
KEYBOARDITEMENTRY	Int	
LINEDSCAMOUNT	Numeric(32,16)	
LINENUM	Numeric(32,16)	X
LINEWASDISCOUNTED	Int	
LINKEDITEMNOTORIGINAL	Int	
NETAMOUNT	Numeric(32,16)	
NETAMOUNTINCLTAX	Numeric(32,16)	
NETPRICE	Numeric(32,16)	
ORIGINALOFLINKEDITEMLIST	Int	
ORIGINALTAXGROUP	Nvarchar(10)	
ORIGINALTAXITEMGROUP	Nvarchar(10)	
PERIODICDISCAMOUNT	Numeric(32,16)	
PERIODICDISCGROUP	Nvarchar(10)	
PERIODICDISCTYPE	Int	
PRESCRIPTIONID	Nvarchar(10)	
PRICE	Numeric(32,16)	
PRICECHANGE	Int	
PRICEINBARCODE	Int	
PURCHID	Nvarchar(20)	
QTY	Numeric(32,16)	
RECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	

Column	Data type	Primary key
RETURNNOSALE	Int	
RFIDTAGID	Nvarchar(24)	
SALESTYPE	Int	
SCALEITEM	Int	
SECTION	Nvarchar(10)	
SHELF	Nvarchar(10)	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STAFFID	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STDNETPRICE	Numeric(32,16)	
STORE	Nvarchar(10)	X
TAXAMOUNT	Numeric(32,16)	
TAXGROUP	Nvarchar(10)	
TAXITEMGROUP	Nvarchar(10)	
TERMINALID	Nvarchar(10)	X
TOTALDISCAMOUNT	Numeric(32,16)	
TOTALDISCINFOCODELINENUM	Numeric(32,16)	
TOTALDISCPCT	Numeric(32,16)	
TOTALROUNDEDAMOUNT	Numeric(32,16)	
TRANSACTIONCODE	Int	
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	
TRANSTIME	Int	
UNIT	Nvarchar(10)	
UNITPRICE	Numeric(32,16)	
UNITQTY	Numeric(32,16)	
VARIANTID	Nvarchar(10)	
WEIGHTITEM	Int	
WEIGHTMANUALLYENTERED	Int	

Table: RETAILTRANSACTIONSERVICEPROFILE

Column	Data type	Primary key
CENTRALTABLESERVER	Nvarchar(20)	

Column	Data type	Primary key
CENTRALTABLESERVERPORT	Nvarchar(10)	
LANGUAGE	Nvarchar(7)	
NAME	Nvarchar(60)	
POSTSDATA	Nvarchar(256)	
PROFILEID	Nvarchar(10)	X
RECID	Bigint	
TSSTAFF	Int	

Table: RETAILTRANSACTIONTABLE

Column	Data type	Primary key
AMOUNTTOACCOUNT	Numeric(32,16)	
BATCHID	Bigint	
BATCHTERMINALID	Nvarchar(10)	
COMMENT	Nvarchar(60)	
COSTAMOUNT	Numeric(32,16)	
COUNTER	Int	
CREATEDOFFLINE	Int	
CREATEDONPOSTERMINAL	Nvarchar(10)	
CURRENCY	Nvarchar(3)	
CUSTACCOUNT	Nvarchar(20)	
CUSTDISCAMOUNT	Numeric(32,16)	
CUSTPURCHASEORDER	Nvarchar(20)	
DATAAREAID	Nvarchar(4)	X
DISCAMOUNT	Numeric(32,16)	
ENTRYSTATUS	Int	
EXCHRATE	Numeric(32,16)	
GROSSAMOUNT	Numeric(32,16)	
INCLUDEDINSTATISTICS	Int	
INCOMEEXPENSEAMOUNT	Numeric(32,16)	
INFOCODEDISCGROUP	Nvarchar(10)	
ITEMSPOSTED	Int	
NETAMOUNT	Numeric(32,16)	
NUMBEROFINVOICES	Int	
NUMBEROFITEMLINES	Numeric(32,16)	
NUMBEROFITEMS	Numeric(32,16)	
NUMBEROFPAYMENTLINES	Int	

Column	Data type	Primary key
OPENDRAWER	Int	
PAYMENTAMOUNT	Numeric(32,16)	
POSTASSHIPMENT	Int	
RECEIPTEMAIL	Nvarchar(80)	
RECEIPTID	Nvarchar(18)	
REFUNDRECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
RETRIEVEDFROMRECEIPTID	Nvarchar(18)	
ROUNDEDAMOUNT	Numeric(32,16)	
SALEISRETURNSALE	Int	
SALESINVOICEAMOUNT	Numeric(32,16)	
SALESORDERAMOUNT	Numeric(32,16)	
SALESPAYMENTDIFFERENCE	Numeric(32,16)	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STORE	Nvarchar(10)	X
TERMINAL	Nvarchar(10)	X
TIMEWHENTOTALPRESSED	Int	
TIMEWHENTRANSCLOSED	Int	
TOACCOUNT	Int	
TOTALDISCAMOUNT	Numeric(32,16)	
TRANSACTIONID	Nvarchar(10)	X
TRANSCODE	Int	
TRANSDATE	Datetime	
TRANSTABLEID	Int	
TRANSTIME	Int	
TYPE	Int	
WRONGSHIFT	Int	

Table: RETAILTRANSACTIONTAXTRANS

Column	Data type	Primary key
AMOUNT	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X

Column	Data type	Primary key
ISINCLUDEDINPRICE	Int	
REPLICATIONCOUNTER	Int	
SALELINENUM	Numeric(32,16)	X
STOREID	Nvarchar(10)	X
TAXCODE	Nvarchar(10)	X
TERMINALID	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X

Table: RETAILTRANSACTIONTENDERDECLARATIONTRANS

Column	Data type	Primary key
AMOUNTCUR	Numeric(32,16)	
AMOUNTMST	Numeric(32,16)	
AMOUNTTENDERED	Numeric(32,16)	
CARDID	Nvarchar(10)	
CURRENCY	Nvarchar(3)	
DATAAREAID	Nvarchar(4)	X
EXCHRATE	Numeric(32,16)	
EXCHRATEMST	Numeric(32,16)	
LINENUM	Numeric(32,16)	X
POSCURRENCY	Nvarchar(3)	
QTY	Numeric(32,16)	
RECEIPTID	Nvarchar(18)	
REPLICATED	Int	
REPLICATIONCOUNTER	Int	
SHIFT	Nvarchar(10)	
SHIFTDATE	Datetime	
STAFF	Nvarchar(25)	
STATEMENTCODE	Nvarchar(25)	
STORE	Nvarchar(10)	X
TENDERTYPE	Nvarchar(10)	
TERMINAL	Nvarchar(10)	X
TRANSACTIONID	Nvarchar(10)	X
TRANSACTIONSTATUS	Int	
TRANSDATE	Datetime	
TRANSTIME	Int	

Table: RETAILUNIT

Column	Data type	Primary key
MINDENOMINATOR	Numeric(32,16)	
RECID	Bigint	
UNITID	Nvarchar(10)	X
WEIGHTUNITOFMEASURE	Int	
DATAAREAID	Nvarchar(4)	X

Table: RETAILVISUALPROFILE

Column	Data type	Primary key
DESIGNALLOWEDONPOS	Int	
FULLSCREENMODE	Int	
HIDECURSOR	Int	
MODIFIEDBY	Nvarchar(8)	
MODIFIEDDATE	Datetime	
NAME	Nvarchar(60)	
PICTUREID	Int	
PROFILEID	Nvarchar(10)	X
RECID	Bigint	
SCREENHEIGHT	Int	
SCREENWIDTH	Int	

Table: TAXCOLLECTLIMIT

Column	Data type	Primary key
RECID	Bigint	X
TAXCODE	Nvarchar(10)	X
TAXFROMDATE	Datetime	
TAXMAX	Numeric(32,16)	
TAXMIN	Numeric(32,16)	
TAXTODATE	Datetime	
DATAAREAID	Nvarchar(4)	X

Table: TAXDATA

Column	Data type	Primary key
RECID	Bigint	X
TAXCODE	Nvarchar(10)	X
TAXFROMDATE	Datetime	X
TAXLIMITMAX	Numeric(32,16)	
TAXLIMITMIN	Numeric(32,16)	X
TAXTODATE	Datetime	X
TAXVALUE	Numeric(32,16)	
VATEXEMPTPCT	Numeric(32,16)	
DATAAREAID	Nvarchar(4)	X

Table: TAXGROUPDATA

Column	Data type	Primary key
EXEMPTTAX	Int	
RECID	Bigint	
TAXCODE	Nvarchar(10)	X
TAXGROUP	Nvarchar(10)	X
USETAX	Int	
DATAAREAID	Nvarchar(4)	X

Table: TAXGROUPHEADING

Column	Data type	Primary key
RECID	Bigint	
SEARCHFIELD1	Nvarchar(60)	
SEARCHFIELD2	Nvarchar(60)	
TAXGROUP	Nvarchar(10)	X
TAXGROUPNAME	Nvarchar(60)	
TAXGROUPROUNDING	Int	
TAXGROUPSETUP	Int	
TAXPRINTDETAIL	Int	
TAXREVERSEONCASHDISC	Int	
DATAAREAID	Nvarchar(4)	X

Table: TAXONITEM

Column	Data type	Primary key
RECID	Bigint	
TAXCODE	Nvarchar(10)	X
TAXITEMGROUP	Nvarchar(10)	X
DATAAREAID	Nvarchar(4)	X

Table: TAXTABLE

Column	Data type	Primary key
CUSTOMSPRACTICE_FI	Int	
NEGATIVETAX	Int	
NOTEUSALESLIST	Int	
PAYMENTTAXCODE	Nvarchar(10)	
PRINTCODE	Nvarchar(10)	
RECID	Bigint	
REPFIELDBASEINCOMING	Int	
REPFIELDBASEINCOMINGCREDITNOTE	Int	
REPFIELDBASEOUTGOING	Int	
REPFIELDBASEOUTGOINGCREDITNOTE	Int	
REPFIELDBASEUSETAX	Int	
REPFIELDBASEUSETAXCREDITNOTE	Int	
REPFIELDBASEUSETAXOFFSET	Int	
REPFIELDBASEUSETAXOFFSETCREDITNOTE	Int	
REPFIELDTAXFREEBUY	Int	
REPFIELDTAXFREEBUYCREDITNOTE	Int	
REPFIELDTAXFREESALES	Int	
REPFIELDTAXFREESALESCREDITNOTE	Int	
REPFIELDTAXINCOMING	Int	
REPFIELDTAXINCOMINGCREDITNOTE	Int	
REPFIELDTAXOUTGOING	Int	
REPFIELDTAXOUTGOINGCREDITNOTE	Int	
REPFIELDUSETAX	Int	
REPFIELDUSETAXCREDITNOTE	Int	
REPFIELDUSETAXOFFSET	Int	
REPFIELDUSETAXOFFSETCREDITNOTE	Int	
TAXACCOUNTGROUP	Nvarchar(10)	

Column	Data type	Primary key
TAXBASE	Int	
TAXBORDERNUMREQ_FI	Int	
TAXCALCMETHOD	Int	
TAXCODE	Nvarchar(10)	X
TAXCOUNTRYREGIONTYPE	Int	
TAXCURRENCYCODE	Nvarchar(3)	
TAXINCLUDEINTAX	Int	
TAXJURISDICTIONCODE	Nvarchar(10)	
TAXLIMITBASE	Int	
TAXNAME	Nvarchar(30)	
TAXONTAX	Nvarchar(10)	
TAXPACKAGINGSORT	Nvarchar(10)	
TAXPACKAGINGTAX	Int	
TAXPERIOD	Nvarchar(10)	
TAXPURCHASETAX	Int	
TAXROUNDOFF	Numeric(32,16)	
TAXROUNDOFFTYPE	Int	
TAXTYPE_SG	Int	
TAXUNIT	Nvarchar(10)	
TAXWRITESELECTION	Int	
UNREALIZEDTAX	Int	
DATAAREAID	Nvarchar(4)	X

Table: UNITOFMEASURE

Column	Data type	Primary key
DECIMALPRECISION	Int	
RECID	Bigint	X
SYMBOL	Nvarchar(10)	
SYSTEMOFUNITS	Int	
UNITOFMEASURECLASS	Int	

Table: UNITOFMEASURECONVERSION

Column	Data type	Primary key
DENOMINATOR	Int	
FACTOR	Numeric(32,16)	

Column	Data type	Primary key
FROMUNITOFMEASURE	Bigint	
INNEROFFSET	Numeric(32,16)	
NUMERATOR	Int	
OUTEROFFSET	Numeric(32,16)	
PRODUCT	Bigint	
RECID	Bigint	X
ROUNDING	Int	
TOUNITOFMEASURE	Bigint	

Table: UNITOFMEASURETRANSLATION

Column	Data type	Primary key
DESCRIPTION	Nvarchar(60)	
LANGUAGEID	Nvarchar(7)	