

Microsoft RMS Database Structure

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1. Introduction

Microsoft Retail Management Software is widely used by businesses to manage their sales and items database among other tasks. However, the GUI provided by the software is suboptimal and documentation on the database is unorganized, if accessible at all.

We have endeavored, against all the odds, to provide comprehensive documentation to the public. The purpose of doing so is to foster the creation and further development of free and open-source software surrounding Microsoft RMS as everyone benefits from an open software ecosystem where fixes, tools, and documentation can be shared freely and expanded upon.

1.1. License

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2. Compatible Software

Debian packages to install:

- python-odbc
- freetds-common
- tdsodbc

3. Tables

Microsoft RMS is designed to handle a wide swath of information generated and required in businesses on a daily basis. To manage this data, the software requires the use of a MSSQL database. Information placed in this database is scattered across numerous tables. In this section of the documentation you will find the basic structure of the database tables displayed and explained.

The best way to find something in this document is to run a search for what you are looking for.

3.1. Accounting

3.1.1. Columns

- **ID**
- **TableName**
- **FieldName**
- **DetailID**
- **Description**
- **DebitAccount**
- **CreditAccount**
- **DBTimeStamp**
- **StoreID**
- **DisplayPosition**

3.2. *AccountingAccounts*

3.3. *AccountingTerms*

3.4. *AccountReceivable*

3.5. *AccountReceivableHistory*

3.6. *AccountType*

3.7. *Alias*

3.8. *ARHistory*

3.9. *AuditLog*

3.10. Batch

3.10.1. Columns

- **CustomerDepositMade**
- **CustomerDepositRedeemed**
- **LastUpdated**
- **StoreID**
- **BatchNumber**
- **Status**
- **RegisterID**
- **OpeningTime**
- **ClosingTime**
- **OpeningTotal**
- **ClosingTotal**
- **Sales**
- **Returns**
- **Tax**
- **SalesPlusTax**
- **Commission**
- **PaidOut**
- **Dropped**
- **PaidOnAccount**
- **PaidToAccount**
- **CustomerCount**
- **NoSalesCount**
- **AbortedTransCount**
- **TotalTendered**
- **TotalChange**
- **Discounts**
- **CostOfGoods**

- **LayawayPaid**
- **LayawayClosed**
- **Shipping**
- **DBTimeStamp**
- **TenderRoundingError**
- **DebitSurcharge**
- **CashBackSurcharge**
- **Vouchers**

3.11. CalendarEvent

3.11.1. Columns

- **ID**
- **StoreID**
- **CashierID**
- **DateTime**
- **Text**
- **ReminderEnabled**
- **ReminderDate**
- **IsPersonal**
- **DBTimeStamp**

3.12. Cashier

3.12.1. Columns

- **HQID**
- **LastUpdated**
- **Number**
- **StoreID**
- **ID**
- **Name**
- **Password**
- **FloorLimit**
- **ReturnLimit**
- **CashDrawerNumber**
- **SecurityLevel**
- **Privliges**
- **EmailAddress**
- **FailedLogonAttempts**
- **DBTimeStamp**
- **MaxOverShortAmount**
- **MaxOverShortPercent**
- **OverShortLimitType**
- **Telephone**
- **PasswordChangedDate**
- **PasswordResetFlag**
- **Inactive**
- **POSTaskpad**

3.13. Category

This table is used to store the list of categories which are present in the system. Categories are the children of departments (as specified in the *Department* table).

3.13.1. Columns

- **HQID:**
- **ID:** A unique identifier for the category.
- **DepartmentID:** The ID of the parent department from the *Department* table.
- **Name:** The text name of the category.
- **Code:**
- **DBTimeStamp:**

3.14. Check

3.14.1. Columns

- **ID:**
- **LookupCode:**
- **AccountName:**
- **StatusCode:**
- **DBTimeStamp:**
- **StoreID:**

3.15. Configuration

3.16. Currency

3.16.1. Columns

- **ID:**
- **HQID:**
- **ExchangeRate:**
- **Description:**
- **Code:**
- **LocaleID:**
- **DBTimeStamp:**

3.17. CustomButtons

3.17.1. Columns

- **ID:**
- **Number:**
- **Caption:**
- **Command:**
- **Description:**
- **Picture:**
- **Style:**
- **DBTimeStamp:**
- **HQID:**
- **MaskColor:**
- **UseMask:**

3.18. CustomCaption

3.18.1. Columns

- **ID:**
- **HQID:**
- **Style:**
- **Caption:**
- **DBTimeStamp:**

3.19. Customer

3.19.1. Columns

- **AccountNumber:** A string field which identifies the account. When used with Nitrosell, this is the username field for the account.
- **AccountTypeID**
- **Address2:** The second line of the customer's address.
- **AssessFinanceCharges**
- **Company:** The company the customer works for.
- **Country:** The country the customer lives in.
- **CustomDate1**
- **CustomDate2**
- **CustomDate3**
- **CustomDate4**
- **CustomDate5**
- **CustomNumber1**
- **CustomNumber2**
- **CustomNumber3**
- **CustomNumber5**
- **CustomText1**
- **CustomText2**
- **CustomText3**
- **CustomText4**
- **CustomText5**
- **GlobalCustomer**
- **HQID**
- **LastStartingDate**
- **LastClosingDate**
- **LastUpdated**
- **LimitPurchase**

- **LastClosingBalance**
- **PrimaryShipToID**
- **State:** The state portion of the customer's address.
- **StoreID**
- **ID:** a unique ID for each row in this table
- **LayawayCustomer**
- **Employee**
- **FirstName:** The first name of the customer.
- **LastName:** The last name of the customer.
- **Address:** The first line of the customer's street address.
- **City:** The city the customer lives in.
- **Zip:** The ZIP code the customer lives in.
- **AccountBalance**
- **CreditLimit**
- **TotalSales**
- **AccountOpened**
- **LastVisit**
- **TotalVisits**
- **TotalSavings**
- **CurrentDiscount**
- **PriceLevel**
- **TaxExempt**
- **Notes:** Text notes can be entered for each customer.
- **Title**
- **EmailAddress:** The customer's email address.
- **DBTimeStamp**
- **TaxNumber**
- **PictureName**
- **DefaultShippingServiceID**
- **PhoneNumber:** The customer's phone number.

- **FaxNumber**
- **CashierID**
- **SalesRepID**
- **Vouchers**

3.20. DailySales

3.20.1. Columns

- **ID:**
- **Date:**
- **Type:**
- **TypeID:**
- **Total:**
- **DbtimeStamp:**
- **StoreID:**

3.21. DatabaseMetaData

3.21.1. Columns

- **ID:**
- **PropertyName:**
- **PropertyValue:**
- **PropertyValueEx:** TODO: appears to be extra data. XML is included with the “Registration Data” entry. Random data appears to be included with the “DatabaseConfig” entry.
- **DBTimeStamp:**

3.22. Department

This table contains the top-level department names which matrices and items can be placed into.

3.22.1. Columns

- **HQID:** This field was always set to zero in our tests.
- **ID:** Unique ID for the department
- **Name:** The user-readable name of the dimension.
- **code:** a code used by our Nitrosell web-integration (specifies sort-order with that service). The lower-case field-name suggests that it was created separately from the others and might have been created solely for the integration with Nitrosell.
- **DBTimeStamp:**

3.23. Dimension

This table contains the titles of the present dimension configurations which are available by clicking the search button next to the dimension title field on the matrix editor's "component items" tab.

3.23.1. Columns

- **Id:** Unique ID for the dimension template
- **DimensionName:** Title of the dimension preset
- **Description:**
- **DBTimeStamp:** TODO: creation or modification timestamp

3.24. DimensionAttribute

This table holds dimensions for the dimension presets which have their titles stored in the “Dimension” table.

3.24.1. Columns

- **Id:** unique ID for the row entry
- **Attribute:** The full-text description of the dimension.
- **Code:** The code for the dimension.
- **DisplayOrder:** Information about the sort-order for the dimensions. TODO: what order? Lowest first?
- **DimensionId:** The ID of the entry from the “Dimension” table which this attribute belongs to.
- **DBTimeStamp:**

3.25. DropPayout

3.26. *dtproperties*

This table was empty on the system we reverse-engineered

3.26.1. *Columns*

- **id:**
- **objectid:**
- **property:**
- **value:**
- **lvalue:**
- **version:**
- **uvalue:**

3.27. DynamicsOnlineAuthorizations

This table was empty in our reverse-engineering tests.

3.27.1. Columns

- **ID:** An ID for each entry in this table.
- **TenderEntryId:**
- **DynamicsOnlineTransactionId:**
- **ResponseApprovalCode:**
- **AuthorizationStatus:**
- **AuthorizationDate:**
- **SettlementStatus:**
- **SettlementDate:**
- **TransactionRecalled:**

3.28. Exchange

3.28.1. Columns

- **ID:**
- **DBTimeStamp:**
- **DateCreated:**
- **LastUpdated:**
- **ProcessorCode:**
- **Data:**
- **Status:**
- **Comment:**

3.29. GlobalRequestlog

3.30. *HQMessage*

3.31. Import

3.32. *ImportEntry*

3.33. InventoryOffline

3.34. *InventoryTransferLog*

This table is possibly used to track inventory changes (sales and returns). However, it does not seem to meaningfully reflect the current inventory.

3.34.1. *Columns*

- **ID:**
- **ItemID:** Affected item from the Item table
- **DetailID:**
- **Quantity:**
- **DBTimeStamp:**
- **ReferenceID:**
- **ReasonCodeID:**
- **CashierID:**
- **Type:**
- **ReferenceEntryID:**
- **Cost:**
- **BatchNumber:**
- **ComputedQuantity:**

3.35. *Item*

The Items table is used to store each item which is for sale in RMS.

3.35.1. *Columns*

- **BinLocation:** A text field describing the location of the item in the store.
- **BuydownPrice**
- **BuydownQuantity**
- **CommissionAmount**
- **CommissionMaximum**
- **CommissionMode**
- **CommissionPercentProfit**
- **CommissionPercentSale**
- **Description:** a short description of the item, the item description printed on the receipt.
- **FoodStampable**
- **HQID**
- **ItemNotDiscountable**
- **LastReceived**
- **LastUpdated**
- **Notes:** Notes describing the item.
- **QuantityCommitted**
- **SerialNumberCount**
- **TareWeightPercent**
- **ID:** a unique ID given to each item in the database
- **ItemLookupCode**
- **DepartmentID:** The ID of an entry in the *Department* table that this product belongs to.
- **CategoryID:** The ID of an entry in the *Category* table that his product belongs to.
- **MessageID**
- **Price:** the price the item is sold for (TODO: unless it is on sale)
- **PriceA:** Price for Group A
- **PriceB:** Price for Group B

- **PriceC:** Price for Group C
- **SalePrice:** A sale price given between SaleStartDate and SaleEndDate
- **SaleStartDate:** The start date for the use of SalePrice
- **SaleEndDate:** The send date for the use of SalePrice
- **QuantityDiscountID**
- **TaxID**
- **ItemType**
- **Cost:** what it costs to order this item (used to determine profit on a sale)
- **Quantity:** the number of the item available in inventory
- **ReorderPoint**
- **RestockLevel**
- **TareWeight**
- **SupplierID**
- **TagAlongItem:** A reference to an item to be included when this item is purchased. TODO: test if this is an ID or an ItemLookupCode (the GUI displays the ItemLookupCode).
- **TagAlongQuantity:** The quantity of tag along items (above) to be included with the purchase of this item.
- **ParentItem:** This field was always zero in our tests. TODO
- **ParentQuantity**
- **BarcodeFormat:** integer: TODO
- **PriceLowerBound**
- **PriceUpperBound**
- **PictureName:** file name for the picture of this item. TODO: info about storage location
- **LastSold**
- **ExtendedDescription:** a long description of the item providing specific details.
- **SubDescription1:** subdescription1 field
- **SubDescription2:** subdescription2 field
- **Subdescription3:** subdescription3 field
- **UnitOfMeasures**
- **SubCategoryID**

- **QuantityEntreyNotAllowed**
- **PriceMustBeEntered**
- **BlockSalesReason**
- **BlockSalesAfterDate**
- **Weight:** weight of the item (package weight). Units are not specified for this field. Instead, the weight must be consistent and any software using this field must be able to handle the unit.
- **Taxable:** boolean: should this item be taxed
- **DBTimeStamp**
- **BlockSalesBeforeDate**
- **LastCost**
- **ReplacementCost**
- **WebItem:** boolean; is the item visible on the website?
- **BlockSalesType**
- **BlockSalesScheduleID**
- **SaleType**
- **SaleScheduleID**
- **Consignment:** boolean: TODO
- **Inactive:** Boolean field specifying if the item is inactive. Setting this to true is almost like deleting the item from the database. We suspect that the purpose of this is to allow the item to remain in database for reference by receipts which can still be printed.
- **LastCounted**
- **DoNotOrder**
- **MSRP:** Minimum suggested retail price.
- **DateCreated:** The date this item was created (added to the database)
- **Content**
- **UsuallyShip**
- **NumberFormat**
- **ItemCannotBeRet**
- **ItemCannotBeSold**
- **IsAutogenerated:** boolean field specifying if the item was generated automatically.
- **IsGlobalvoucher**

- **DeleteZeroBalanceEntry**
- **TenderID**

3.36. *item_copy*

This table is probably not present in a default RMS install and most likely reflects a backup of the Item table.

3.37. *ItemClass*

Hold the data for the matrix items which show up in the Items database. This table stores information such as the titles of the dimensions and information which is sometimes applicable to the component items such as the price (although not all information need be applied to the component items).

3.37.1. *Columns*

- **ID:** unique ID for the matrix item
- **Description:** description for the matrix item
- **Dimensions:** the number of dimensions which this matrix item uses
- **Title1:** The name of dimension 1
- **Title2:** The name of dimension 2
- **Title3:** The name of dimension 3
- **ClassType:** denotes the type of matrix item:
 - 0: standard matrix item
 - 1: assembly matrix item
 - 2: lot matrix item
- **DBTimeStamp**
- **UseComponentPrice:** a boolean field that should theoretically denote if the component price overrides the *ItemClass* price. However, in our tests, this field was always False and the component price took precedence. This feature might have been replaced by having this *Price* and *Cost* fields overwrite the component prices/costs when edited.
- **HQID**
- **ItemLookupCode:** barcode for the matrix item
- **Notes**
- **DepartmentID:** The ID for the *Department* table specifying the department of this *ItemClass*.
- **CategoryID:** The ID for the *Category* table specifying the department of this *ItemClass*.
- **Price:** price setting which can be applied to child elements. If the *UseComponentPrice* column is set to true, this value is ignored.
- **Cost:** cost settings which can be applied to child elements. If the *UseComponentPrice* column is set to true, this value is ignored.
- **SupplierID**
- **BarcodeFormat**

- **SubDescription1**
- **SubDescription2**
- **SubDescription3**
- **TaxID**

3.38. *ItemClassComponent*

This table contains the associations between items in the Item table and the matrices in the ItemClass table. The columns hold information denoting the dimension(s) each ItemID has been placed into and the parent matrix ownership.

Some columns in this table did not have differing values leading us to believe that the column is unused in the current version of the RMS software.

TODO: verify this item

3.38.1. *Columns*

- **ID:** unique ID for the matrix-component to item connection
- **ItemClassID:** ID of the parent matrix in the ItemClass table
- **ItemID:** ID of the associated item in the Item table
- **Quantity:** in our reverse engineering efforts, this column always contained the value 1. NOTE: Nsc Sync sets the product_stock to 1. Related?
- **Detail1:** dimension 1 value
- **Detail2:** dimension 2 value
- **Detail3:** dimension 3 value
- **LastUpdated:** this field denotes the creation time of the item (TODO: test if this field is updated with subsequent changes to the matrix and check what value it holds for items added to the matrix after the matrix was created (i.e., items not added with the “Create Component Items” functionality; currently we suspect that this field will be given the date and time that the link to the matrix was created).
- **DBTimeStamp:**
- **Price:** in our reverse engineering efforts, this column was always 0.00

3.38.2. *Nitrosell*

Nitrosell uses the data from the Detail fields to generate the on-page drop-down boxes.

3.39. *ItemMessage*

3.40. *Items_New*

3.41. *ItemTax*

3.42. *ItemValueLog*

3.43. Journal

3.44. *Kit*

3.45. *LimitEntry*

3.46. Macro

3.47. MacroEvent

3.48. *MatrixAttributeDisplayOrder*

This table holds the pairings between a matrix dimension's name and code (displayed in the RMS software's matrix editor GUI on the "Component Items" tab).

3.48.1. *Columns*

- **ID:** A specific ID for the dimension/code pairing.
- **ItemClassID:** A reference to the ID of the associated row in the ItemClass table.
- **Dimension:** A numerical index (values 1 though 3) indicating which dimension this specific value is associated with .
- **Attribute:** The human-readable full-text description of the attribute.
- **Code:** The short-code (should be in some way representative of the text in the Attribute field). Can be automatically placed in Description field (from the Item table) when automatically creating component items with the RMS GUI's matrix editor.
- **DisplayOrder:** Sort order of the fields.
- **Inactive:**
- **HQID:** This field was always zero in our tests.

3.48.2. *Nitrosell*

Nitrosell does not use the *Attribute* field from this table when generating the drop-downs on the item pages. Instead, they use the information from the *ItemClassComponent* table.

3.49. *Message*

3.50. NetDisplayChannel

3.51. NetDisplayURL

3.51.1. Columns

- **ID:**
- **ChannelID:**
- **URL:**
- **Seconds:**
- **LastUpdated:**
- **OrderPosition:**
- **DBTimeStamp:**

3.52. NonTenderTransaction

3.52.1. Columns

- **ID:**
- **StoreID:**
- **TransactionType:**
- **BatchNumber:**
- **Time:**
- **CashierID:**
- **Comment:**
- **DBTimeStamp:**
- **ReasonCodeID:**

3.53. OldJournal

3.53.1. Columns

- **ID:**
- **StoreID:**
- **BatchNumber:**
- **ClosingTime:**
- **Journal:**
- **DBTimeStamp:**

3.54. Order

3.54.1. Columns

- **StoreID:**
- **ID:** A unique identifier for each order object.
- **Closed:**
- **Time:**
- **Type:**
- **Comment:**
- **CustomerID:** An ID that matches the *ID* field of the *Customer* table.
- **ShipToID:**
- **DepositOverride:**
- **Deposit:**
- **Tax:**
- **Total:**
- **LastUpdated:**
- **ExpirationOrDueDate:**
- **Taxable:**
- **SalesRepId:**
- **ReferenceNumber:**
- **ShippingChargeOnOrder:**
- **ShippingChargeOverride:**
- **ShippingServiceID:**
- **ShippingTrackingNumber:**
- **DefaultTaxChangeReasonCodeID:**

3.55. OrderEntry

3.55.1. Columns

- **Chost:**
- **StoreID:**
- **ID:**
- **OrderID:**
- **ItemID:**
- **FullPrice:**
- **PriceSource:**
- **Price:**
- **QuantityOnOrder:**
- **SalesRepID:**
- **Taxable:**
- **DetailID:**
- **Description:**
- **QuantityRTD:**
- **LastUpdated:**
- **Comment:**
- **DBTimeStamp:**
- **DiscountReasonID:**
- **ReturnReasonCodeID:**
- **TaxChangeReasonCodeID:**
- **TransactionTime:**
- **IsAddMoney:**
- **VoucherID:**

3.56. OrderHistory

3.56.1. Columns

- **ID:**
- **StoreID:**
- **BatchNumber:**
- **Date:**
- **OrderID:**
- **CashierID:**
- **DeltaDeposit:**
- **TransactionNumber:**
- **Comment:**
- **DBTimeStamp:**

3.57. PasswordHistory

This table was empty during our testing. It could contain the password history for accounts from the *Customer* table or it could contain past account passwords for the POS users. But, there does not seem to be a reference to individual accounts in the columns.

3.57.1. Columns

- **ID**
- **Password**
- **LastUpdated**

3.58. Payment

3.58.1. Columns

- **ID:**
- **BatchNumber:**
- **CashierID:**
- **StoreID:**
- **CustomerID:**
- **Time:**
- **Amount:**
- **Comment:**
- **DBTimeStamp:**

3.59. PhysicalInventory

3.59.1. Columns

- **ID**
- **StoreID**
- **OpenTime**
- **CloseTime**
- **Status**
- **LastRefresh**
- **Description**
- **Code**
- **DBTimeStamp**

3.60. PhysicalInventoryEntry

This table was empty during our reverse engineering attempt but we suspect that it is used to store inventory across multiple stores.

3.60.1. Columns

- **ID**
- **StoreID**
- **PhysicalInventoryID**
- **ReasonCodeID**
- **CountTime**
- **ItemID**
- **BinLocation**
- **Price**
- **Cost**
- **QuantityCounted**
- **QuantitySold**
- **QuantityReturned**
- **QuantityXferIn**
- **QuantityXferOut**
- **QuantityAdjusted**
- **QuantityToOffline**
- **QuantityFromOffline**
- **QuantityRefreshed**
- **DBTimeStamp**

3.61. PoleDisplayMessage

This table contains the messages which are displayed on the pole display (the display on cash registers which faces the customer).

3.61.1. Columns

- **ID:**
- **Description:**
- **MessageLine1**
- **EffectLine1:**
- **UpdateRateLine1:**
- **DateAndTimeLine1:**
- **ScrollChangeSizeLine1:**
- **MessageLine2:**
- **EffectLine2:**
- **UpdateRateLine2:**
- **DateAndTimeLine2:**
- **ScrollChangeSizeLine2:**
- **DBTimeStamp:**
- **StoreID:**

3.62. PriceRounding

3.62.1. Columns

- **ID:**
- **HQID:**
- **PriceFrom:**
- **PriceTo**
- **UseMultipleOfRule:**
- **MultipleOf:**
- **UseEndsInRule:**
- **EndsIn:**
- **DBTimeStamp:**

3.63. PurchaseOrder

3.63.1. Columns

- **LastUpdated:**
- **POTitle:**
- **POType:**
- **StoreID:**
- **WorksheetID:**
- **ID:**
- **PONumber:**
- **DateCreated:**
- **To:**
- **ShipTo:**
- **Requisitioner:**
- **ShipVia:**
- **FOBPoint:**
- **Terms:**
- **TaxRate:**
- **Shipping:**
- **Freight:**
- **RequiredDate:**
- **ConfirmingTo:**
- **Remarks:**
- **SupplierID:**
- **DBTimeStamp:**
- **OtherStoreID:**
- **CurrencyID:**
- **ExchangeRate:**
- **OtherPOID:**
- **InventoryLocation:**

- **IsPlaced:**
- **DatePlaced:**
- **BatchNumber:**
- **EstShipping:**
- **CurrentShipping:**
- **EstOtherFees:**
- **CurrentOtherFees:**
- **OtherFees:**
- **CostDistributionMethod:**
- **ParrentPOId:**
- **RootPOId:**
- **OriginPOId:**
- **MasterPO:**
- **DiscrepancyStatus:**

3.64. PurchaseOrderEntry

3.64.1. Columns

- **ItemDescription:**
- **LastUpdated:**
- **QuantityReceivedToDate:**
- **StoreID;**
- **ID:**
- **PurchaseOrderID:**
- **QuantityOrdered:**
- **QuantityReceived:**
- **ItemID:**
- **OrderNumber:**
- **Price:**
- **DBTimeStamp:**
- **TaxRate:**
- **InventoryOfflineID:**
- **ShippingPerItem:**
- **OtherFeesPerItem:**
- **LastQuantityReceived:**
- **LastReceivedDate:**

3.65. PurchaseOrderEntryDetail

3.65.1. Columns

- **ID:**
- **StoreID:**
- **PurchaseOrderEntryID:**
- **Date:**
- **Status:**
- **SerialID:**
- **SerialNumber1:**
- **SerialNumber2:**
- **SerialNumber3:**
- **DBTimeStamp:**
- **InventoryOfflineID:**

3.66. QuantityDiscount

3.66.1. Columns

- **Description:**
- **HQID:**
- **ID:**
- **DiscountOddItems:**
- **Quantity1:**
- **Price1:**
- **Price1A:**
- **Price1B:**
- **Price1C:**
- **Quantity2:**
- **Price2:**
- **Price2A:**
- **Price2B:**
- **Price2C:**
- **Quantity3:**
- **Price3:**
- **Price3A:**
- **Price3B:**
- **Price3C:**
- **Quantity4:**
- **Price4:**
- **Price4A:**
- **Price4B:**
- **Price4C:**
- **DBTimeStamp:**
- **Type:**
- **PercentOffPrice1:**

- **PercentOffPrice1A:**
- **PercentOffPrice1B:**
- **PercentOffPrice1C:**
- **PercentOffPrice2:**
- **PercentOffPrice2A:**
- **PercentOffPrice2B:**
- **PercentOffPrice2C:**
- **PercentOffPrice3:**
- **PercentOffPrice3A:**
- **PercentOffPrice3B:**
- **PercentOffPrice3C:**
- **PercentOffPrice4:**
- **PercentOffPrice4A:**
- **PercentOffPrice4B:**
- **PercentOffPrice4C:**

3.67. QuoteTenderEntry

3.67.1. Columns

- **ID:**
- **OrderID:**
- **TenderID:**
- **CreditCardExpiration:**
- **CreditCardNumber:**
- **CreditCardApprovalCode:**
- **Amount:**
- **RoundingError:**
- **AccountHolder:**
- **DBTimeStamp:**

3.68. ReasonCode

3.68.1. Columns

- **ID:**
- **HQID:**
- **Code:**
- **Description:**
- **DBTimeStamp:**
- **Type:**
- **StartDate:**
- **EndDate:**

3.69. Receipt

3.69.1. Columns

- **ID**
- **Description**
- **Title**
- **TemplateCancel**
- **TemplateDrop**
- **TemplateLayaway**
- **TemplatePayment**
- **TemplatePayout**
- **TemplateQuote**
- **TemplateSale**
- **TemplateWorkOrder**
- **TemplateReport**
- **DBTimeStamp**
- **StoreID**

3.70. RecordDeletedLog

3.70.1. Columns

- **TableName:**
- **IDFieldName:**
- **RecordID:**
- **WhenDeleted:**
- **StoreID:**
- **DBTimeStamp:**
- **ID:**

3.71. Register

This table contains a list of all all cash-registers added to the RMS software in addition to the settings for each register such as the names of the printers which should be used, the settings for the screen, and so on.

3.71.1. Columns

- **Description:**
- **PoleDisplayEnabled:**
- **Receipt2ID:**
- **ScaleEnabled:**
- **ScannerEnabled:**
- **ZZBatchNumber:**
- **ID:**
- **Number:**
- **CurrentBatchNumber:**
- **Receipt1ID:**
- **PoleDisplayMessageID:**
- **Printer1Name:**
- **Printer1Options:**
- **Printer2Name:**
- **Printer2Options:**
- **ChannelID:**
- **NetDisplayEnabled:**
- **DBTimeStamp:**
- **DefaultPriceLevel:**
- **PoleDisplayName:**
- **ScaleName:**
- **ScannerName:**
- **Printer1Type:**
- **Printer2Type:**

- **CashDrawer1Name:**
- **CashDrawer1Enabled:**
- **CashDrawer1WaitForClose:**
- **CashDrawer1OpenTimeout:**
- **CashDrawer2Name:**
- **CashDrawer2Enabled:**
- **CashDrawer3WaitForClose:**
- **CashDrawer2OptionTimeout:**
- **StoreID:**
- **MICRName:**
- **MICREnabled:**
- **MICRTimeout:**
- **MSRName:**
- **MSREnabled:**
- **SignatureCaptureName:**
- **SignatureCaptureEnabled:**
- **SignatureCaptureFormName:**
- **TouchScreenEnabled:**
- **KeyboardID:**
- **DefaultServiceID:**
- **PINPadEnabled:**
- **PINPadName:**
- **PINPadSystem:**
- **TransactionHost:**
- **RealTimeSigCap:**
- **Printer1GiftOptions:**
- **Printer2GiftOptions:**
- **POSTaskpad:**

3.72. Report

3.73. SalesRep

3.74. ScheduleSegment

3.75. Security

3.76. *Serial*

3.77. Shipping

Contains information used for shipping such as the shipping address, customer name, and other information which is used to address a package to the proper recipient.

3.77.1. Columns

- **ID:** unique ID for each entry in this table.
- **StoreID:** the unique ID of a store object in the *Stores* table.
- **ServiceID**
- **TransactionNumber:** the transaction number these shipping details are associated with.
- **OrderHistoryID**
- **Charge**
- **TrackingNumber**
- **Notes**
- **DBTimeStamp**
- **Name:** The name this shipment is going to.
- **Company:** The company name this shipment is going to.
- **Address:** The address this shipment is going to.
- **Address2:** The second line of this shipment's address.
- **City:** The city this shipment is destined for.
- **State:** The state this shipment is destined for.
- **Zip:** The ZIP code this shipment is destined for.
- **Country:** The country this shipment is destined for.
- **EmailAddress**
- **Status**
- **CODReturnTrackingNumber**
- **PackagingDate**
- **NetShipCost**
- **CarrierName:** The name of the shipping service selected.
- **ServiceName:** An additional note about free shipping.
- **TotalWeight**

- **DeclaredValue**
- **DateCreated**
- **DateProcessed**
- **PhoneNumber**
- **FaxNumber**

3.78. ShippingCarrier

3.78.1. Columns

- **ID**
- **Name**
- **URL**
- **TrackingURL**
- **ShippingURL**
- **LastUpdated**
- **DBTimeStamp**
- **HQID**
- **Code**

3.79. ShippingService

3.80. ShippingWebPair

3.81. ShipTo

3.82. *SignatureCapture*

3.83. Store

3.84. *Substitute*

3.85. Supplier

TODO: Check the ItemClassComponent and Item columns as they contain a SupplierID field

3.86. *SupplierList*

3.87. Table_Items_both_new_prices

3.88. Tax

3.89. *TaxEntry*

3.90. *TaxTotals*

3.91. Tender

3.92. *TenderDenominations*

3.93. *TenderEntry*

3.94. *TenderTotals*

3.95. TimeCard

3.96. *TimeClock*

3.97. TimeStampLog

3.97.1. Columns

- **ID**
- **ServerTime**
- **ServerTimeStamp**
- **DBTimeStamp**
- **StoreID**

3.98. TouchScreenKeyboard

3.99. TouchScreenKeyboardEntry

3.100. Transaction

3.100.1. Columns

- **ShipToID:**
- **StoreID:** The ID of the store the order was placed at.
- **TransactionNumber:** acts as an ID specific to the transaction.
- **BatchNumber**
- **Time:** The date and time of the transaction.
- **CustomerID:** The ID of the customer who made the transaction (from the Customer table).
- **CashierID:** The ID of the cashier that processed this transaction.
- **Total:** The total value of the transaction. This value may be negative in some situations (returns).
- **SalesTax:** The amount of sales tax on the transaction.
- **Comment:** Comment entered by the customer at the order page. This field is also used by the NitroSell integration to warn if the address and ZIP code do not match.
- **ReferenceNumber:** This field was used by the NitroSell integration to hold the order number in the following string format: "Order #<timestamp>" where <timestamp> is an integer representing the date and time of the order.
- **DBTimeStamp**
- **Status:** This field was always set to 0 in our tests.
- **ExchangeID**
- **ChannelType**
- **RecallID**
- **RecallType**

3.101. TransactionEntry

3.101.1. Columns

- **Commission**
- **Cost**
- **FullPrice**
- **StoreID**
- **ID**
- **TransactionNumber**
- **ItemID**
- **Price**
- **PriceSource**
- **Quantity**
- **SalesRepID**
- **Taxable**
- **DetailID**
- **Comment**
- **DBTimeStamp**
- **DiscountReasonCodeID**
- **ReturnReasonCodeID**
- **TaxChangeReasonCodeID**
- **SalesTax**
- **QuantityDiscountID**
- **ItemType**
- **ComputedQuantity**
- **TransactionTime**
- **IsAddMoney**
- **VoucherID**

3.102. TransactionHold

3.102.1. Columns

- **ID**
- **StoreID**
- **TransactionType**
- **HoldComment**
- **RecallID**
- **Comment**
- **PriceLevel**
- **DiscountMethod**
- **DiscountPercent**
- **Taxable**
- **CustomerID**
- **DeltaDeposit**
- **DepositOverride**
- **DepositPrevious**
- **PaymentsPrevious**
- **TaxPrevious**
- **SalesRepID**
- **ShipToID**
- **TransactionTime**
- **ExpirationOrDueDate**
- **ReturnMode**
- **ReferenceNumber**
- **ShippingChargePurchased**
- **ShippingChargeOverride**
- **ShippingServiceID**
- **ShippingTrackingNumber**
- **ShippingNotes**

- **DBTimeStamp**
- **ReasonCodeID**
- **ExchangeID**
- **ChannelType**
- **DefaultDiscountReasonCodeID**
- **DefaultReturnReasonCodeID**
- **DefaultTaxChangeReasonCodeID**
- **BatchNumber**

3.103. TransactionHoldEntry

3.103.1. Columns

- **ID**
- **EntryKey**
- **StoreID**
- **TransactionHoldID**
- **RecallID**
- **Description**
- **QuantityPurchased**
- **QuantityOnOrder**
- **QuantityRTD**
- **QuantityReserved**
- **Price**
- **FullPrice**
- **PriceSource**
- **Comment**
- **DetailID**
- **Taxable**
- **ItemID**
- **SalesRepID**
- **SerialNumber1**
- **SerialNumber2**
- **SerialNumber3**
- **VoucherNumber**
- **VoucherExpirationDate**
- **DBTimeStamp**
- **DiscountReasonCodeID**
- **ReturnReasonCodeID**
- **TaxChangeReasonCodeID**

- **ItemTaxID**
- **ComponentQuantityReserved**
- **TransactionTime**
- **IsAddMoney**
- **VoucherID**

3.104. UserTopic

3.105. VersionHistory

3.106. VisaNetAuthorization

3.107. VisaNetBatch

3.108. Voucher

3.109. VoucherEntry

3.110. VoucherFormatNumber

3.111. WebLink_Category

3.111.1. Columns

- **ChecksumID:**
- **Checksum:**

3.112. WebLinK_Currency

3.113. WebLink_Customer

3.114. WebLink_Department

3.114.1. Columns

- **ChecksumID**
- **Checksum**

3.115. WebLink_Item

3.115.1. Columns

- **ChecksumID**
- **Checksum**

3.116. WebLink_ItemTax

3.117. WebLink_ItemType

3.118. WebLink_ItemTypeDetails

3.119. WebLinK_ProductImages

3.120. WebLinK_ProductNavigation

3.120.1. Columns

- **ChecksumID:**
- **Checksum:**

3.121. WebLink_QuantityDiscount

3.122. WebLinK_SalesTax

3.123. WebLinK_Shipping

3.124. WebLink_Store

3.125. WebLink_StoreDetails

3.126. WebLink_SubCategories

3.127. WebLink_Tenders

3.128. WebLink_Vouchers

3.129. WeblinX

3.129.1. Columns

- **id**
- **ConfigVersion**
- **webusernamefield**
- **webpasswordfield**
- **WebStoreURL**

3.130. PUBLIC_Cashier

3.131. PUBLIC_Category

3.131.1. Columns

- **ID:**
- **DepartmentD:**
- **Name:**
- **Code:**
- **DBTimeStamp:**

3.132. PUBLIC_Customer

3.133. PUBLIC_Department

3.134. PUBLIC_Item

3.135. PUBLIC_Register

3.136. PUBLIC_SalesRep

3.137. PUBLIC_Store

3.138. PUBLIC_Supplier

3.139. PUBLIC_Tax

3.140. PUBLIC_TaxEntry

3.141. PUBLIC_Tender

3.142. PUBLIC_TenderEntry

3.143. PUBLIC_Transaction

3.144. PUBLIC_TransactionEntry

3.145. VIEWITEMMOVEMENT

3.146. VIEWITEMMOVEMENTHISTORY

3.147. vwUpdateItemPricing

4. Nitrosell Tables

4.1. nitroasl_3rdlevelcat

- **subcatid**
- **subcatname**
- **subcatcatid**

4.2. *nitroasl_applicationsettings*

- **app**
- **key**
- **value**

4.3. NitroASL_CategoryPictures

- **CategoryID**
- **ItemID**

4.4. *nitroasl_license*

- **licenseid**
- **licenseapp**
- **licenseregister**
- **licensekey**

4.5. nitroasl_mailer

- **mailid**
- **mailto**
- **mailweborder**
- **mailtemplate**
- **mailretries**
- **maillastretry**
- **mailcreated**
- **maildata**
- **mailvariables**
- **maillaststatus**
- **maillasthandler**

4.6. *nitroasl_mailertemplates*

- **templateid**
- **templatefile**
- **templatedescription**
- **templateallowmanual**

4.7. NitroASL_PAMtable

4.7.1. Columns

- **ItemID** : integer: matches with Item.ID
- **DBTimestamp**
- **PAM_SpecialOffer**
- **PAM_Promotion**
- **PAM_NewProduct**
- **PAM_Rating**
- **PAM_Priority** : ranking in category pages. TODO: does this affect search?
- **PAM_LeadTime**
- **PAM_Theme**
- **PAM_ReleaseDate**
- **PAM_WebPrice** : price at which the item is sold on the website (or, the original price before a sale was added using PAM_WebSalePrice). TODO: verify
- **PAM_WebSalePrice** : the price which an item is on sale for/
- **PAM_Brand** : the brand name of the item. Websites can dis
- **PAM_SubCategory**
- **PAM_Keywords** : product keywords or tags (used for searching)
- **WebDescription** : short description (a human-readable product “title”)
- **WebCategoryID**
- **WebDepartmentID**
- **DescriptionWeb**
- **SpoofWebStock**
- **RepresentsMatrixItem**: *nondefault column (see KB #) TODO: KB#*; boolean: should this item be shown to represent a matrix of items on category pages. This affects the displayed price and picture, for example. This does not currently affect search results.

4.8. *nitrosell_gwosettings*

4.9. *nitroasl_picturedetails*

4.10. NitroSell_ProductNavigation

This table contains connections between items and the departments and categories they are in. The main department/category which is set with the item's DepartmentID and CategoryID properties is included in this table as well. Two entries are created for each item which is entered: a connection is created between the item and the department as well as the item and the category. See the example section for more information.

4.10.1. Columns

- **productnavigation_id**
- **productnavigation_itemid**
- **productnavigation_navid**
- **productnavigation_level**
- **productnavigation_parentnavid**
- **productnavigation_typeid**

4.10.2. Example

```
SELECT * FROM NitroSell_ProductNavigation WHERE  
productnavigation_itemid = 1209
```

```
('1-56-1209      ', 1209, 56, 1, 0, 0)  
( '1-7-1209      ', 1209, 7, 1, 0, 0)  
( '2-175-1209    ', 1209, 175, 2, 56, 0)  
( '2-202-1209    ', 1209, 202, 2, 7, 0)
```

In this example 1209 is the ID of the Item object which is placed into these departments and categories. The department numbers are 7 and 56. You can see that the productnavigation_parentnavid is set to zero when linking an item to a department. When an item is linked to a category (175 and 202), the department's ID is stored in productnavigation_parentnavid.

4.11. nitrosell_productphotos

4.12. NitroSell_WebCategory

4.12.1. Columns

- **ID:**
- **DepartmentID:**
- **Name:**
- **Code:**
- **DBTimeStamp:**

4.13. NitroSell_WebDepartment

4.14. nitrosell_weborder

4.15. nitrosell_weborderdetail

4.16. NitroSell_WebProductNavigation

This table was empty in our reverse-engineering efforts, but it has the same columns as the NitroSell_ProductNavigation table so its intended functionality is probably similar (or this table was an older version which is no longer used but is still inserted).

4.16.1. Columns

- productnavigation_id
- productnavigation_itemid
- productnavigation_navid
- productnavigation_level
- productnavigation_parentnavid
- productnavigation_typeid