WCOB Sam’s Club Data Models and Data Dictionary

# WCOB\_SAMS\_STOREVISITS



|  |  |
| --- | --- |
| TABLE NAME | NUMBER OF RECORDS |
| STORE\_INFO | 1,034 |
| VISIT | 5,049,399,530 |
| TENDER | 10,226,711,544 |

## STORE\_INFO Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column/Field Name | Key Type | Datatype | Short Description | Long Description | Sample ValuesOr Format |
| DIVISION\_NBR |  | BYTEINT | Division Number | Number 18 denotes Sam’s Club | 18 ONLY |
| STORE\_NBR | PK | INTEGER | Store Number | Any 4-digit number | 6,670 |
| STORE\_NAME |  | CHAR | Store Name | Name given to store | SEARCY SAMS DC |
| ALIGN\_SUB\_DIVISION\_NBR |  | CHAR | Subdivision Number | Denotes subdivison | A thru Z  |
| REGION\_NBR |  | SMALLINT | Region Number | Number assigned to region | 0 thru 99  |
| DISTRICT\_NBR |  | SMALLINT | District Number | Number assigned to district | 0 thru 998  |
| SIZE\_SQFT |  | INTEGER | Store Size | Store size in square feet | 144,601 |
| OPEN\_DATE |  | DATE | Opening Date | Date store opened | MM/DD/YYYY |
| OPEN\_STATUS |  | CHAR | Open Status | Denotes operating hours | 0 thru 7 |
| EXPANSION\_SIZE\_SQFT |  | INTEGER | Expansion size | Size of expansion in square feet, if applicable | 130,595 |
| EXPANSION\_OPEN\_DATE |  | DATE | Expansion Opening Date | Date expansion opened, if applicable | MM/DD/YYYY |
| DRY\_RUN\_DATE |  | DATE | “Dry Run” Date | Date store began normal operations, usually the day before grand opening | MM/DD/YYYY |
| STORE\_TYPE |  | CHAR | Store Type | Denotes if store is a regular Sam’s, Distribution Center, etc. | G, W, S, R |
| STREET\_ADDR |  | CHAR | Street Address | 1st line of mailing address | 280 WALMART RD |
| CITY |  | CHAR | City | City of mailing address | YPSILANTI, TUPELO |
| STATE |  | CHAR | State | State of mailing address | AR, WA |
| ZIP\_CODE |  | INTEGER | ZIP code | ZIP code of mailing address | 72,716 |
| PHONE\_NBR |  | CHAR | Phone number | Phone number for store | 007149656666 |
| MANAGER\_NAME |  | VARCHAR | Store Manager Name | First three letters of manager’s first name | JEF, LIS |
| OPEN\_SUNDAY\_FLAG |  | CHAR | Open Sunday Flag | Denotes if store is open on Sundays | Y or N ONLY |
| \*\_WHSE |  | CHAR | Warehouse | Warehousing Information | null |
| GEOGRAPHIC\_ZONE |  | DECIMAL | Geographic zone | Zone as determined by Sam’s Club | 0 thru 8  |
| APPAREL\_ZONE |  | SMALLINT | Apparel Zone | Denotes zone per apparel | invariant |
| SIZECLASS |  | SMALLINT | Size Class | Denotes size class | invariant |
| SALESCLASS |  | SMALLINT | Sales Class | Denotes sales class | invariant |
| STORE\_CODE |  | CHAR | Store Code | Denotes type of store | N, A, C, T ONLY |
| DELIVERY\_TYPE |  | CHAR | Delivery Type | How merchandise is delivered | WPM, 7NT |
| MDSE\_MAJOR\_ZONE |  | SMALLINT | Merchandise Major Zone | Corresponds to geographic zone | 0 thru 8  |
| MDSE\_SUB\_ZONE |  | SMALLINT | Merchandise Sub Zone | Denotes subzone for merchandise | invariant |

## VISIT Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Key Type | Datatype | Short Description | Long Description | Sample Values or Format |
| STORE\_NBR | PK, FK for STORE\_INFO | INTEGER | Store Number | Store Number | 6,620 |
| VISIT\_NBR | PK | INTEGER | Visit Number | Sequential visit number | 301,303,484 |
| REGISTER\_NBR |  | SMALLINT | Register Number | Number of register | 5 |
| TOTAL\_TAX\_AMOUNT |  | DECIMAL | Total Tax Amount | Amount of tax | 7.27 |
| TOT\_VISIT\_AMT |  | DECIMAL | Total Visit Amount | Transaction total | 27.49 |
| VISIT\_DATE |  | DATE | Visit Date | Date of visit | MM/DD/YYYY |
| VISIT\_TIME |  | SMALLINT | Visit Time | Time of visit | Given in 24-hour time  |
| NEW\_RFND\_PROC\_IND |  | BYTEINT | New Refund Procedure Indication | Indicates if new refund procedure used | 0 or 1 |
| RFND\_NO\_RECPT\_IND |  | BYTEINT | Refund No Receipt Indication | Denotes if refund performed without an original receipt | 0 or 1 |
| REFUND\_RECEIPT\_IND |  | BYTEINT | Refund Receipt Indication | Denotes if receipt given for refund transaction | 0 or 1 |
| TOT\_UNIQUE\_ITM\_CNT |  | SMALLINT | Total Unique Item Count | Number of unique items in transaction | 1, 14, 27 |
| TOT\_SCAN\_CNT |  | SMALLINT | Total Scan Count | Number of items scanned | 1, 14, 27 |
| OPERATOR\_NBR |  | SMALLINT | Operator Number | Employee who conducted transaction | 52, 2530 |

## TENDER Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Key Type | Datatype | Short Description | Long Description | Sample Values or Format  |
| STORE\_NBR | PK, FK for VISIT,FK for STORE\_INFO | INTEGER | Store Number | Number of store | 6,605 |
| VISIT\_NBR | PK, FK for VISIT | INTEGER | Visit Number | Sequential visit number | 104,605,375 |
| VISIT\_DATE |  | DATE | Visit Date | Date of visit | MM/DD/YYYY |
| TENDER\_TYPE |  | BYTEINT | Tender Type | Payment Method | 0 thru 99 |
| TENDER\_AMT |  | DECIMAL | Tender Amount | Amount tendered | 46.85, 103.73 |
| CASH\_BACK\_AMT |  | DECIMAL | Cashback Amount | Amount given as cashback | 0.00, 60.00 |

# WCOB\_SAMS\_SALES



|  |  |
| --- | --- |
| TABLE NAME | NUMBER OF RECORDS |
| ITEM\_DESC | 1,863,843 |
| ITEM\_SCAN | 6,106,076,262 |
| STORE\_INFO (Duplicate of WCOB\_SAMS\_STOREVISITS.STORE\_INFO) | 1,034 |

## ITEM\_DESC Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column name | Key  | Datatype | Short Description | Long Description | Sample Values or Format |
| Item\_Nbr | PK | INTEGER | Item Number | Item Number in New System | 53102146, 2468055 |
| Old\_Nbr |  | INTEGER | Item Number | Item Number in previous system | 957117, 44857 |
| Order\_Dept\_Nbr |  | SMALLINT | Ordering Department Number | Dept number used for ordering | 90, 34 |
| Acct\_Dept\_Nbr |  | SMALLINT | Accounting Department Number | Dept number used for accounting | 0, 50 |
| Primary\_Desc |  | CHAR | Primary Description | General Description | JKT GREY M, CELERY HEARTS |
| Secondary\_Desc |  | CHAR | Secondary Description | Denotes further categorical details | 8, HO |
| Color\_Desc |  | CHAR | Color Description | Color of item | CLEAR, ASST |
| Size\_Desc |  | CHAR | Size Description | Sizes of item | 32-42, S-XXL |
| Status\_Code |  | CHAR | Status Code | Denotes status | D or A |
| Type\_Code |  | CHAR | Type Code | Denotes type | 20 or 22 |
| Fineline |  | CHAR | Fineline | Number assigned to items with similar sales patterns | 7018, 2392 |
| UPC |  | CHAR | UPC | Universal Product Code | 13 digit number |
| UPC\_Desc |  | CHAR | UPC Description | General description | TARTAR SAUCE, FASHION BOOT |
| PLU\_Nbr |  | SMALLINT | PLU Number | Price lookup code | 0, 94285 |
| Create\_Date |  | DATE | Created Date | Date of data creation | MM/DD/YYYY |
| Effective\_Date |  | DATE | Effective Date | Date item became active | MM/DD/YYYY |
| Obsolete\_Date |  | DATE | Obsolete Date | Date item deactivates | MM/DD/YYYY |
| Vendor\_Nbr |  | CHAR | Vendor Number | Vendor Number | 029579, 244884 |
| Vendor\_Nbr\_Fineline |  | CHAR | Vendor Fineline Number | Vendor Fineline Number | null |
| Vendor\_Name |  | CHAR | Vendor Name | Name of supplier | CLUB CAFE, VF IMAGEWEAR |
| Vendor\_Stock\_Nbr |  | CHAR | Vendor Stock Number | Supplier’s item number | FATHOM, 19068 |
| VNPK\_Qty |  | INTEGER | VNPK Quantity | Quantity field in Retail Link system | 1, 72 |
| VNPK\_Cubic\_Ft |  | DECIMAL | VNPK Cubic Feet | Size of packaged item | 0.1, 49.6 |
| WHPK\_Qty |  | INTEGER | WHPK Quantity | WHPK Quantity | Invariant |
| WHPK\_Cubic\_Ft |  | DECIMAL | WHPK Cubic Feet | WHPK Cubic Feet | 0, 4.52 |
| Return\_Sheet\_Nbr |  | INTEGER |  |  | Invariant |
| UOM\_Code |  | CHAR | UOM Code | Unit of measure | EA, UN |
| Fact\_Flag |  | CHAR | Fact Flag | Tag used for display | Y or N or null |
| DSD\_Flag |  | CHAR | DSD Flag |  | null |
| Scale\_Flag |  | CHAR | Scale Flag | Denotes if scale flag made | Y or N |
| RX\_Flag |  | CHAR | RX Flag | Tag used to show item is prescription | N or null |
| Catalog\_Code |  | CHAR | Catalog Code | Denotes if coded in catalog | N or null |
| Ordbk\_Stars\_Qty |  | SMALLINT |  |  | Invariant |
| Multi\_Hdl\_Code |  | CHAR |  |  | Invariant |
| Seasonal\_Code |  | CHAR |  |  | Invariant |
| Promo\_Ordbk\_Flag |  | CHAR |  |  | N or null |
| Xref\_From\_Nbr |  | INTEGER |  |  | Invariant |
| Xref\_To\_Nbr |  | INTEGER |  |  | Invariant |
| Trait\_Flag |  | CHAR |  |  | Y or N or null |
| Asm\_Week\_Code |  | CHAR |  |  | 0 or null |
| Asm\_Interval\_Code |  | CHAR |  |  | 0 or null |
| Ordbk\_Flag |  | CHAR |  |  | N or null |
| Whse\_Align |  | CHAR |  |  | null |
| Min\_Order\_Qty |  | INTEGER | Minimum Order Quantity | Smallest orderable amount | 0, 1 |
| Max\_Order\_Qty |  | INTEGER | Maximum Order Quantity | Largest orderable amount | 0 or 999 only |
| Never\_Out\_Flag |  | CHAR | Never-Out Flag | Requirement for item to always be available | Y or N |
| Cancel\_When\_Out\_Flag |  | CHAR |  |  | N or null |
| Last\_Change\_Date |  | DATE | Last Change Date | Date of last change | MM/DD/YYYY |
| Last\_Change\_Time |  | INTEGER | Last Change Time | Time of last change | 20383703 |
| Order\_Book\_Sequence\_Number |  | INTEGER | Order Book Sequence Number | Order Book Sequence Number | 0 or 21 only |
| Priced\_Flag |  | CHAR | Priced Flag | Denotes if priced flag made | Y or null |
| Shelf\_Label\_Print\_Flag |  | CHAR | Shelf Label Print Flag | Denotes if label made | N or null |
| Foodstamp\_Flag |  | CHAR | Foodstamp Flag | Denotes if covered by foodstamps | Y or N |
| Stock\_Status\_Flag |  | CHAR |  |  | null |
| New\_Order\_Book\_Page\_Code |  | CHAR | New Order Book Page Code | Denotes if code for item is in New Order Book | Y or N or null |
| Expiration\_Date |  | DATE | Expiration Date | Date product expires | MM/DD/YYYY |
| Status\_Chg\_Date |  | DATE | Status Change Date | Date of last status change | MM/DD/YYYY |
| Shelf\_Label\_Flag |  | CHAR | Shelf Label Flag | Denotes if shelf label made | Y or null |
| Mfg\_Nbr |  | CHAR | Manufacturing Number | Number used by manufacturer | 129510, 478107 |
| Itm\_Master\_Pk\_Cd |  | CHAR | Item Master Pack Code | Denotes if in a master pack | B or C or null |
| International\_Code |  | CHAR |  |  | invariant |
| Product\_Code |  | INTEGER | Product Code | Product Code | 667773 |
| Activity\_CD |  | CHAR | Activity Code | Activity Code | Y or N |
| Activity\_TY\_IND |  | CHAR | Activity This Year Indicator | Activity this year indicator | Y or N |
| Activity\_LY\_IND |  | CHAR | Activity Last Year Indicator | Activity last year indicator | Y or N |
| Activity\_TY\_Q1\_IND thruActivity\_LY\_Q4\_IND |  | CHAR | Activity This Year, Quarter 1 thru Activity Last Year, Quarter 4 | Shows activity by quarter | Y or N |
| Catg\_User\_Key |  | CHAR |  |  | 0 or null |
| Shelf\_User\_Key |  | CHAR |  |  | 0 or null |
| Division\_Nbr |  | CHAR |  |  | 0 or null |
| Dept\_Desc\_ID |  | CHAR |  |  | 0 or null |
| Catg\_Desc\_ID |  | CHAR |  |  | 0 or null |
| Fineline\_Desc\_ID |  | CHAR |  |  | 0 or null |
| Product\_Desc\_Id |  | CHAR |  |  | 0 or null |
| Shelf\_Desc\_ID |  | CHAR |  |  | 0 or null |
| ITEM\_STORE\_TYPE |  | CHAR |  |  | 0 or null |
| WHPK\_WGT\_QTY |  | DECIMAL |  |  | 0.1, 12.5 |
| VNPK\_WGT\_QTY |  | DECIMAL | VNPK Weight Quantity | Weight used in Retail Link system | 0.1, 38.0 |
| frsh\_ITM\_SHELF\_LIFE |  | DECIMAL | Fresh Item Shelf Life | Gives shelf life in days for fresh items | 5.0, 10.0 |
| Vendor\_Nbr\_Dept |  | CHAR | Vendor Department Number | Dept number used by supplier | 61, 64 |

## STORE\_INFO Table

(Duplicate of WCOB\_SAMS\_STOREVISITS.STORE\_INFO)

## ITEM\_SCAN Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column name | Key Type | Datatype | Short Description | Long Description | Sample Values or Format |
| STORE\_NBR | FK to STORE\_INFO | INTEGER | Store Number | Store Number | 6556, 6670 |
| VISIT\_NBR |  | INTEGER | Visit Number | Number assigned to transaction | 430500019,430500528 |
| SCAN\_TYPE |  | INTEGER | Scan Type | Denotes method used for UPC input | 0, 3 |
| SCAN\_ID  | FK to ITEM\_DESC**\*** | INTEGER | Scan Identifier | Gives code to interpret SCAN\_ID using rules given following this table  | 83815, 40899111 |
| VISIT\_DATE |  | DATE | Visit Date | Date of visit | MM/DD/YYYY |
| RETURNED\_ITEM\_IND |  | INTEGER | Returned Item Indicator | Indicates if an item was returned | 0 or 1 |
| VOIDED\_ITEM\_IND |  | INTEGER | Voided Item Indicator | Indicates if an item was voided | 0 or 1 |
| unit\_qty |  | DECIMAL | Unit Quantity | Quantity of item per scan | 1.00, 4.79 |
| retail\_price |  | DECIMAL | Retail Price | Price per unit quantity | 5.35, 10.96 |

\***See the rules for joining ITEM\_SCAN and ITEM\_DESC tables on following page**

## Rules for Joining ITEM\_SCAN and ITEM\_DESC tables

The scan data can be joined to the item data based on the SCAN\_TYPE and SCAN\_ID.

* If SCAN\_TYPE = 0 (corporate item) then  SCAN\_ID = Item\_Nbr on item table
* If SCAN\_TYPE = 1 (department ring) then SCAN\_ID is the department number (Order\_Dept\_Nbr) of the item sold.
* If SCAN\_TYPE = 2 (local item/70 type item) then SCAN\_ID is a local Item\_Nbr sold only at that store.
* If SCAN\_TYPE = 3 (Rx item) then SCAN\_ID is a prescription id number.
* If SCAN\_TYPE = 4 (Old\_Nbr) then SCAN\_ID = Old\_Nbr on the item table. The Old\_Nbr can be reused for a new item; it cannot always be definitively linked to the correct item.

# WCOB\_SAMS\_INTEGRATED



|  |  |
| --- | --- |
| TABLE NAME | NUMBER OF RECORDS |
| ITEM\_DESC | 1,863,843 |
| ITEM\_SCAN | 964,534,605 |
| STORE\_INFO | 1,034 |
| TENDER | 367,741,511 |
| VISIT | 180,567,699 |

This database links all the tables to allow for more complex queries that use data fields from multiple tables across the SALES and STOREVISITS databases. All of the columns and keys are the same for the respective tables, but the data is only the same for the ITEM\_DESC and STORE\_INFO tables; the others contain fewer records in this database, but all other qualities are the same.

## ITEM\_DESC Table

Duplicate of WCOB\_SAMS\_SALES.ITEM\_DESC

## ITEM\_SCAN Table

Contains distinct data, but uses the same columns as WCOB\_SAMS\_SALES.ITEM\_SCAN

## STORE\_INFO Table

Duplicate of WCOB\_SAMS\_STOREVISITS.STORE\_INFO

TENDER Table

Contains distinct data, but uses the same columns as WCOB\_SAMS\_STOREVISITS.TENDER

VISIT Table

Contains distinct data, but uses the same columns as WCOB\_SAMS\_STOREVISITS.VISIT