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**TO:** William Cunningham

**DATE:** December 12, 2022

**RE:** Assignment 4 for DBAS 2104

PROJECT SPECIFICATIONS

Design the following:

1. A concise (short, to the point) description of the stakeholder’s decision-making role in the Clearwater organization, referencing specific data points where necessary,
2. A visual depiction of the SSOT structure
3. An Explanation/justification for the choices you made in the design of the SSOT.

Description of the stakeholder’s decision-making role

The stakeholder in charge of inventory will need to have full on access to information related to the various types of inventory sold by the business, the average turn around time for each of the items sold, The amount of days it takes the item to go through the procurement process i.e (from the time the product is ordered to the time it arrives at the store ), The type of inventory management methodology used i.e (FIFO,LIFO or AVCO) ,the shelf life of the product sold, the current reorder level used by the business, the quantity of goods on hand as well as current market trends. Being armed with the information outlined above will help the inventory manager to help foster the growth of the organization by ensuring the maintenance and upkeep of a well-run inventory management system

Visual depiction of the SSOT structure

ERD Diagram

Diagram

Description automatically generated

Explanation/Justification for the design of the SSOT

Customer Data Dictionary(Dimension Table)

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description of Data |
| PK (C\_ID) | Varchar(255) | Stores the unique ID which uniquely identifies each customer |
| C\_last | Varchar(255) | Stores Customer’s last name |
| C\_first | Varchar(255) | Stores Customer’s first name |
| C\_address | Varchar(255) | Record customers address |
| C\_telephone | Varchar(255) | Used to store customer’s phone number |
| C\_userid | Varchar(255) | Used to provide customers with online access to the inventory sold by the store (works with the c\_password attribute) |
| C\_password | Varchar(255) | Used to provide customers with access to the inventory sold by the store (works with the c\_userid attribute) |

Order Data Dictionary(Dimension Table)

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description of Data |
| O\_id(PK) | Varchar (255) | Stores the unique key used to identify each order made |
| O\_date | Date | Records the date in which each order was made |
| O\_source | Varchar(255) | Shows the source of the item sold / where the item sold came from |
| O\_meth\_pmt | Varchar(255) | Records the payment method used to purchase item |
| O\_quantity | Int | Stores information on the amount of goods sold |
| O\_desc | Varchar(255) | Provides information on the item sold |

Product Data Dictionary(Dimension Table)

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description of Data |
| P\_id (PK) | Varchar (255) | Store the unique number used to identify each item bought |
| Item\_desc | Varchar(255) | Records a description of the item ordered |
| Item\_image | Varchar(255) | Displays an image of the products ordered |
| Color | Varchar(255) | Stores the color of the item bought |
| Cat\_desc | Varchar(255) | Stores information on the category each item sold falls under |

Shipping Data Dictionary(Dimension Table)

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description of Data |
| Ship\_id(PK) | Varchar (255) | Store the unique number used to identify products shipped |
| Ship\_date\_expected | date | Records the expected date shipped items are expected by the organization |
| Ship\_quantity | Varchar(255) | Stores the number of items ordered |
| Ship\_date\_received | Varchar(255) | Records the actual date shipment was received |

Inventory Data Dictionary(FACT Table)

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description of Data |
| Inv\_id(PK) | Varchar (255) | Store the unique number used to identify each item in stock / in the inventory |
| O\_ID (FK) | Varchar(255) | References the primary key in the Order Table |
| C\_ID (FK) | Varchar(255) | References the primary key in the Customer table |
| P\_ID(FK) | Varchar(255) | References the primary key in the Product table |
| S\_ID (FK) | Varchar(255) | References the primary key in the shipping table |