WHOLESALE STORE ORDER DATA TRANSFORMATION PROJECT

ASSIGNMENT

1. Update the Existing Data Warehouse Orders table with the latest POS orders, placed in August 2021.

2. Update the POS and Existing Data Warehouse Orders table with the returns information. That is, set the RETURNED column, to the right value.

3. Update the Data Warehouse Customers table with the latest customer information from the POS input. That is, a customer may have changed their details, like address (anything that s not the customer ID) during their latest order. We want the Data Warehouse to be updated with the most recent customer details. Note that the POS system has the US State name in full. Ensure you change that to the State code prior to loading it into the Data Warehouse Customers table. For example, "Florida" should become "FL". The State Lookup file provides a mapping you may use.

DATA INPUTS

Data Warehouse - ORDERS

Orders Table.xlsx
Query=`Sheet1$`

This is the existing ORDERS table in the data warehouse. It contains all orders placed prior to August 2021.

Returns

Completed Returns - August 2021.xlsx
Query=`Sheet1$`

These are returns received in August 2021 (Order could be placed prior or during August 202

POS Orders Data

STORE_TRANSACTIONS_ALL_AUG_2021.csv

This is the Point of Sale (POS) data from August 2021

Data Warehouse - CUSTOMERS

Existing Customer table

This is the existing CUSTOMERS table in the data warehouse. It contains details for each customer.

US State Codes Reference List

US State code reference list

This static lookup list maps US state names to US State codes

DATA VALIDATION

Fix data types

Fix data types

Fix data types

Fix data types

Fix data types

Task 1 & 2: Update Existing & New Orders with Return Indicator - DATA TRANSFORMATION

Prior August Orders

Join on ORDER_ID

Prior August Orders - Not Returned
Prior August Orders - August Returned

Renamed to RETURNED field

Prior August Orders - Returned

Set RETURNED field to False

Join on ORDER_ID

August Orders - August Returned

August Orders - Not Returned

Union: Prior August Orders

#1

#1

#2

Union: August Orders

Union: All Orders

Remove Customer detail fields

Task 1 & 2: DATA OUTPUT

Output: Updated Order table

Task 3: Update Customer Details - DATA TRANSFORMATION

Remove Order detail fields

Unique: ID

Replace by State Code

August Customers

Join on ID

Existing Customers

Updated Customer details
Unchanged Customer details

Union: All Customers

Task 3: DATA OUTPUT

Output: Updated Customer table

August Orders