

Okay, let's break down this Qlik Sense script.

📖 Section Title: Customer Load

- 🔄 **What it does:** Loads customer data from a CSV file.
- 📁 **Data Source:** Customers.csv located in a library named Data.
- 📊 **Fields:** CustomerID, FirstName, LastName, Country, JoinDate (derived from DateJoined).
- 🎯 **Filters or Conditions:** None.
- 🔗 **Joins or Relationships:** None in this section.
- ✎ **Variables Used:** None.
- ⚠️ **Warnings or Red Flags:** None.
- ✅ **Suggestions for Improvement:** Consider adding a Keep statement to filter unnecessary columns if this table is only used for a specific purpose (e.g., only displaying CustomerId and Name in a UI table).

📖 Section Title: Product Load



- 🔄 **What it does:** Loads product data from a CSV file.
- 📁 **Data Source:** Products.csv located in the Data library.
- 📊 **Fields:** ProductID, ProductName, Category, Price.
- 🎯 **Filters or Conditions:** None.
- 🔗 **Joins or Relationships:** None in this section.
- ✎ **Variables Used:** None.
- ⚠️ **Warnings or Red Flags:** None.
- ✅ **Suggestions for Improvement:** None.

📖 Section Title: Orders Raw Load









- 🔄 **What it does:** Loads raw order data from a CSV file.
- 📁 **Data Source:** Orders.csv located in the Data library.
- 📊 **Fields:** OrderID, CustomerID, ProductID, OrderDate (derived from OrderDate), Quantity.
- 🎯 **Filters or Conditions:** None.
- 🔗 **Joins or Relationships:** None in this section.
- ✎ **Variables Used:** None.
- ⚠️ **Warnings or Red Flags:** None.
- ✅ **Suggestions for Improvement:** None.

📖 Section Title: Orders Enrichment









- 🔄 **What it does:** Calculates the total amount for each order and joins product prices to calculate the order totals.
- 📁 **Data Source:** OrdersRaw (RESIDENT) and Products (RESIDENT).
- 📊 **Fields:** All fields from OrdersRaw, plus TotalAmount (calculated as Quantity * Price).
- 🎯 **Filters or Conditions:** None.
- 🔗 **Joins or Relationships:** OrdersRaw table is built using a LEFT JOIN with the Products table on ProductID.
- ✎ **Variables Used:** None.

-  **Warnings or Red Flags:** The code loads `Price` from `Products` which is inefficient. Consider performing a join with the `Products` table earlier to avoid having to load the same data multiple times.
-  **Suggestions for Improvement:** Change the `Orders` load to join all necessary fields from `Products` in the first load.









Section Title: Drop OrdersRaw

-  **What it does:** Drops the `OrdersRaw` table from the data model.
-  **Data Source:** `OrdersRaw` (Table within the Qlik Model)
-  **Fields:** N/A
-  **Filters or Conditions:** N/A
-  **Joins or Relationships:** N/A
-  **Variables Used:** None.
-  **Warnings or Red Flags:** None.
-  **Suggestions for Improvement:** None.









Section Title: Customer Spend Summary

-  **What it does:** Calculates the total spend for each customer.
-  **Data Source:** `Orders` (RESIDENT).
-  **Fields:** `CustomerID`, `TotalSpend` (calculated as the sum of `TotalAmount`).
-  **Filters or Conditions:** None.
-  **Joins or Relationships:** None in this section.
-  **Variables Used:** None.
-  **Warnings or Red Flags:** None.
-  **Suggestions for Improvement:** None.

Section Title: Customer Spend Join

-  **What it does:** Joins the `Customer Spend` to the `Customers` table.
-  **Data Source:** `CustomerSpend` (RESIDENT), and `Customers` (RESIDENT).
-  **Fields:** All fields from `Customers` and `TotalSpend`.
-  **Filters or Conditions:** None.
-  **Joins or Relationships:** `LEFT JOIN` with the `Customers` table on `CustomerID`.
-  **Variables Used:** None.
-  **Warnings or Red Flags:** None.
-  **Suggestions for Improvement:** Consider calculating `TotalSpend` in the initial `Orders` load and joining into `Customers` in one go.

Section Title: Drop CustomerSpend

-  **What it does:** Drops the `CustomerSpend` table.
-  **Data Source:** `CustomerSpend` (Table within the Qlik Model)
-  **Fields:** N/A
-  **Filters or Conditions:** N/A
-  **Joins or Relationships:** N/A
-  **Variables Used:** None.
-  **Warnings or Red Flags:** None.
-  **Suggestions for Improvement:** None.

Final Summary

This script loads data from three CSV files: `Customers`, `Products`, and `Orders`. The script then calculates the total amount for each order by joining `Products` to the `Orders` data and multiplying quantity by price. Finally, it calculates the total spend per customer and joins this data into the `Customers` table.

- **Main Tables:** `Customers`, `Products`, and `Orders` (transformed).
- **Key KPIs:** `TotalAmount` (calculated at the order level) and `TotalSpend` (calculated per customer).
- **Data Refresh Logic:** The script performs a full load, meaning all data is loaded each time the script is run.
- **Redundant Loads:** The script could be optimized by joining product information directly in the orders load instead of using a resident load of `Products`. The final `CustomerSpend` calculation could be optimized as well.
- **Overall Data Flow:** `Customers.csv` → `Customers`; `Products.csv` → `Products`; `Orders.csv` → `OrdersRaw` → `Orders` (joined with `Products` and calculating `TotalAmount`) → `CustomerSpend` → `Customers` (joined with `CustomerSpend`).