

BI System Specification Documentation



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Document versions - change tracking:

- 24/01/2024 – Initial content – V1
- 29/01/2024 – Functional characterization update, ETL processes chapter and DM tables – V2
- 30/01/2024 – The final ERD update + PBI visualization indicators chapter – V3
- 05/02/2024 - Visualization chapter – V4
- 07/02/2024 – The Power BI Service process update – distribution, scheduling, application – V5

1. General

1.1. Project objectives

The purpose of the project is to provide a Full-Scale BI Solution Creation from PriorityERP Database for Zara, a Spanish company that is a well-known international Fashion retailer.

This project aims to establish a comprehensive BI solution leveraging data from the PriorityERP system for Zara. The solution will encompass summarized data tables, with a focus on sales data, alongside customer information, employee records, product details, stores, dates, and more. The BI solution includes dashboards and reports to assist management, department heads, and sales managers in gaining insights into customer preferences, behaviors, and loyalty. The goal is to optimize marketing campaigns and reduce costs through targeted strategies.

1.2. Project Contents

In this project, we will build a Data Mart that will contain information about sales data.

1. Data Cleaning and Preparation: Prior to analysis, we will need to perform thorough data cleaning and preparation to ensure their quality and consistency.
2. Main summary tables to be built for the company's needs.
 - **FactSales** – Information about all the orders, which product in which quantity. Data loading process for this table will be incremental.
 - **Dim_Products** – Information about the products divided by categories and subcategories.
 - **Dim_Customers** – Information about the company's customers.
 - **Dim_Employees** – Information about the company's employees.
 - **Dim_Stores** – Information about the company's stores.

History Management Table:

- **Transfertable** - Information about all the updates of the tables.
- **Dim_Products_History** - Information about the historical record of changes to product information. The product history table will be included to track changes in products over time using Slowly Changing Dimensions (SCD) Type 4.

The ERD of the tables shown in the attached link: [ERD](#)

Source To Target document in this link: [S2T](#)

3. The project will contain reports & dashboard in power bi that will contribute to the achievement of the project's goal:

- **Dashboard:**

In the dashboard, you'll find detailed insights about the company. This information is tailored for senior management, providing a comprehensive overview of the company's performances. The dashboard highlights key metrics, including Resell Percentage and average basket size, allowing us to assess performance effectively.

The dashboard will display the following information:

- General KPI data.
- Resell Percentage by Continents.
- AVG Basket Size by Country.
- Physical Stores VS Online Store.
- YTD Sales VS LY Sales.
- YTD Units VS LY Units.
- YTD Orders VS LY Orders.
- Top 5 Selling Products.
- Top 5 Employees by sales.

- **Sales Department Analysis:**

The Sales Department will conduct a thorough analysis of sales data, seller performance, and revenue to evaluate market trends, refine sales strategies, and make year-on-year comparisons. The primary focus will be on identifying top-performing products and recognizing the best employees based on sales performance.

The report will display the following information:

- General KPI data.
- Employees sales performance - the total sales YTD and comparison to the same period last year, along with a percentage change, KPI, and sparkline for sales amount, units' amount, and orders amount.
- The top 5 best-selling products and their quantities.
- The top 5 best employees by sales.

- **Sales Representative Analysis:**

The Customer Sales Analysis report examines vital data and trends to provide insights into our business performance, with the goal of improving sales strategies in each country. Additionally, the report includes a comparative analysis between physical store sales and online sales. The report will display the following information:

- General KPI data
- Top 10 State Details

- Physical Stores VS Online Store by Country
- Total Sales by Country
- Monthly percentage Change in Units Sold.
- Monthly percentage Change in Total Sales
- Monthly percentage Change in Order Count
- Monthly percentage Change in ARPU (Average Revenue Per User)

2. Gantt

❖ [Gantt link](#)

3. Technical Specification

3.1. Prerequisites

- SQL Server: ERP system in the operational DB (PriorityERP)- tables, data (SQL files)
- SSIS: ETL processes using SSIS in Visual Studio
- Data refresh processes through the definition of JOBS in SSMS
- Power BI: Creating reports and dashboards using Power BI

3.2. Solution Architecture

HLD:



Data collection and exploration from the ERP system will be performed in SQL Server. The data will undergo an ETL process for organization and arrangement into a Data Mart using SSIS. Finally, the presentation of measures in reports and visuals will be presented in Power BI.

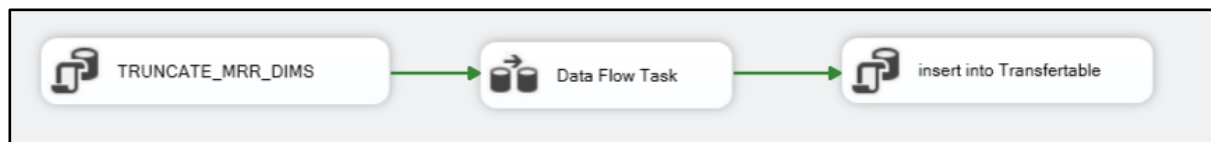
4. Functional Specification

4.1. ETL processes.

1. MRR_Dim package:

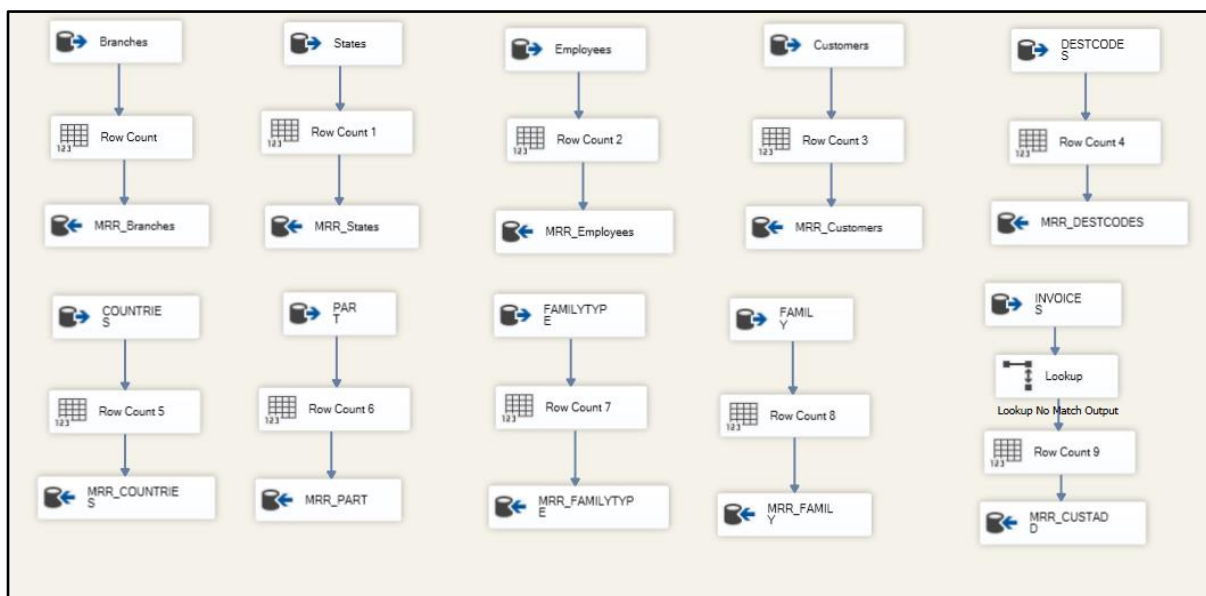
Into the Execute SQL Task - truncate_mrr:

This stored procedure, named truncate_mrr_tables, is designed to truncate (delete all rows) from multiple tables.



Finally, we insert the values to the transfer table. The TransferTable serves as a comprehensive log, meticulously capturing every update and insertion step as data moves through the stages from the database (DB) to the Data Mart.

In the Data Flow- dim_mrr - We will transfer information from OLTP tables to MRR tables

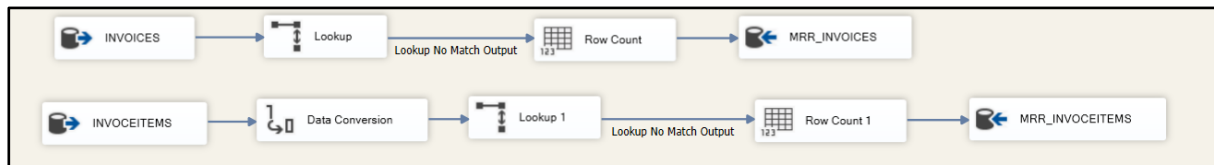


Initially, we migrated all customer data to our "DIM" (Dimension) table. Subsequently, we established a business rule stipulating that only customers who made purchases within the last three years would be considered. This rule was implemented to enable the identification and display of customers who have not engaged in any transactions within the last three years, marking them as inactive. This approach ensures that we are working with the most current and updated data, allowing us to make informed decisions based on the latest trends and developments.

We use a lookup in the Invoices table because it serves as our transaction table, utilized in both the MRR dimension package and MRR fact package.

2. MRR_Fact package:

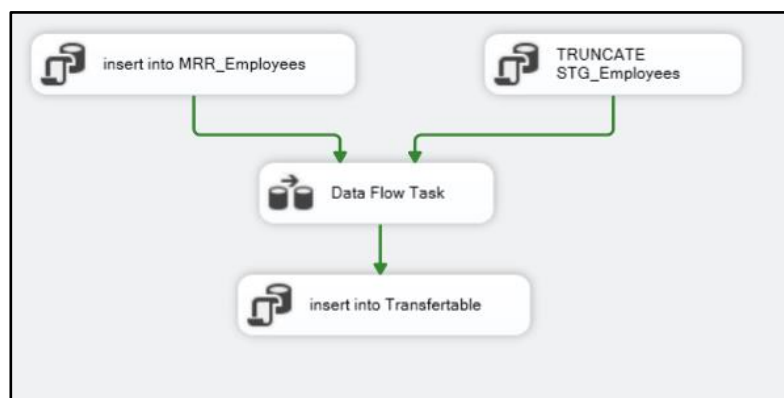
Into the Lookup - Invoices & InvoiceItems :



We used the LOOKUP transformation to load only the new rows to the MRR table. The target was to identify the gap (only the new rows from the operational DB that don't exist in the fact sales)

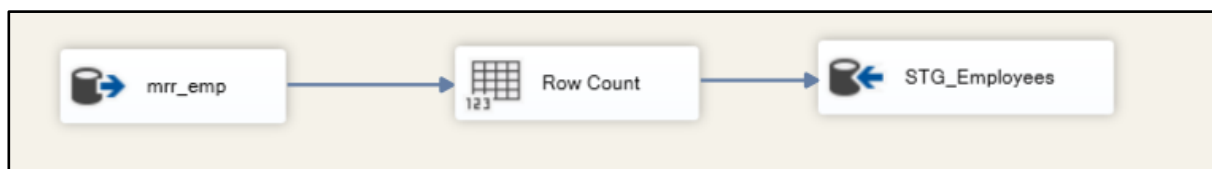
3. STG_Dim_Employees package:

In the Control Flow:



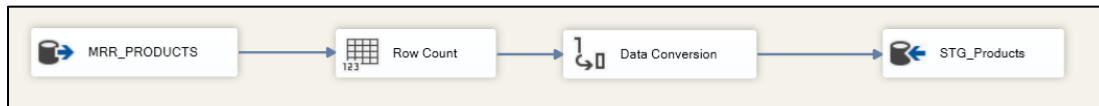
We updated the MRR_Employees table manually with a SQL command that adds a new employee that is associated with the Employee ID "77777". We want to make sure that orders placed online are properly associated with the employee we manually added to the MRR_Employee table. We want to maintain the connection between this employee and the online store that contains the order information.

In the Data Flow:



We collected information about employees from the employees' table. The selected columns include details such as Emp_ID, First_Name, Last_Name, Job_Title, Hire_Date, Phone_Number, Email_Address etc. Additionally, we have selectively retrieved specific columns from the 'MRR_Employees' table, focusing on entries where the 'skill' column contains the term 'sales.' Finally, we will insert the information into the stg_Employees table.

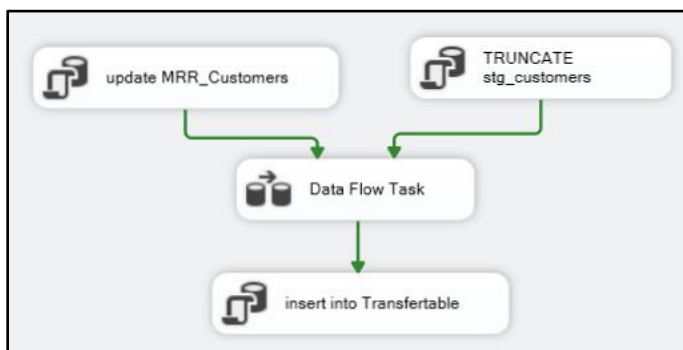
4. STG_Products package



We will collect information about products from three tables: MRR_Part, MRR_Familly and MRR_FamillyType. The selected columns include details: ProductID, Product_Name, Category_Name and Sub_Category_Name. In the Data Conversion phase, we will meticulously refine data types that necessitate modification. Finally, we will insert all the information into the stg_products table.

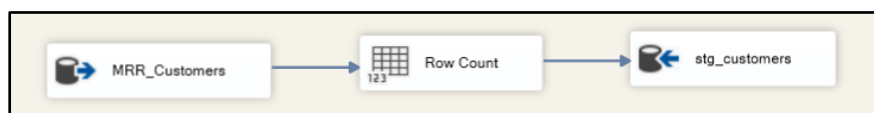
5. STG CUSTOMERS package

In the Control Flow:



We updated the MRR_Customers table manually with SQL command, that every customer who has an order in the invoices table, and does not associated with any store id, will receive the store id "99999" as a sign for "Online Store". We made this in order to maintain the association between the orders and the stores through the customers.

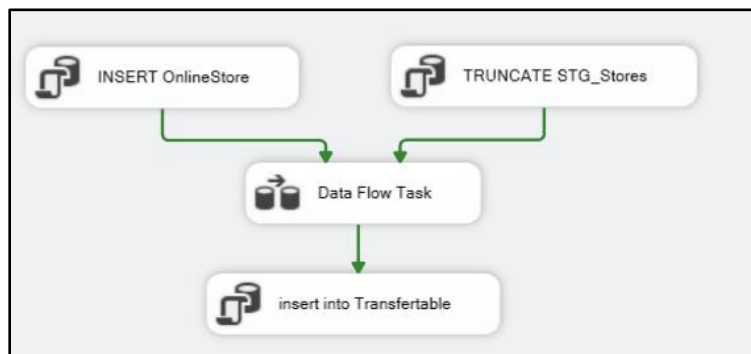
In the Data Flow:



We collected information about Customers from the Customers, Destcode, State and Country tables. The selected columns include details such as Customer ID, Name, store ID, Address, City, State, Country.

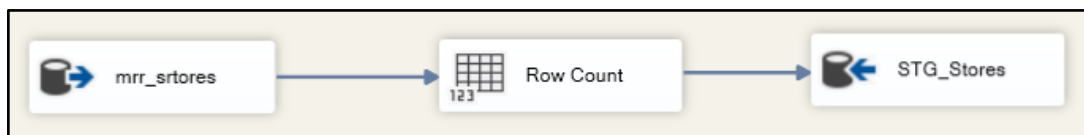
6. STG STORES

In the Control Flow:



We updated the MRR_Branches table manually with SQL command with a new Online Store that is associated with the Store ID "99999".

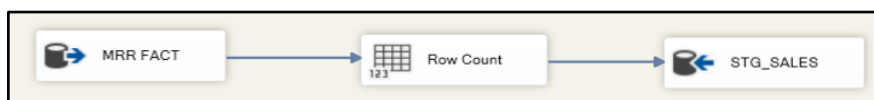
In the Data Flow:



We will collect information about stores from five tables: MRR_Branches, MRR_Customers, MRR_CustAdd, MRR_Destcodes and MRR_States. The selected columns include details such as StoreId, StoreName and State. Additionally, we add to our join query a statement that if the branch ID is 99999, it's labeled as 'OnlineStore'; otherwise, it takes the actual state name from the 'MRR_States' table based on the relationship between the tables established in the LEFT JOIN operations.

7. STG SALES

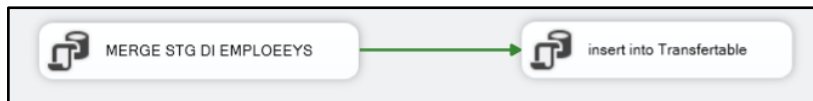
In the Data Flow:



We will collect sales order information, including order details and product specific details, connecting the two tables MRR_INVOICES and MRR_INVOCEITEMS. Based on IV.

The selected columns include the details: OrderID, OrderDate, CustomerID, EmpID, ZoneID, ProductID, Qty, Price and Discount.

8. DW EMPLOYEES

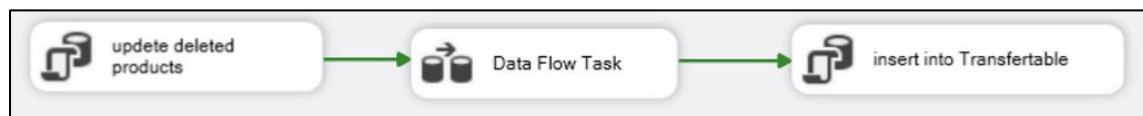


Into the Execute SQL Task – MERGE:

Using to synchronize data between the Dim_Employees and stg_employees tables based on EMP_ID. It performs the following actions:

- Insert: If there is a record in stg_employees that does not match Dim_Employees, insert a new record.
- Update: If there is a match and certain columns have changed, update the corresponding columns in Dim_Employees with values from stg_employees.
- Update (IsActive): If there is a record in Dim_Employees that does not exist in stg_Employees, set IsActive to 0 in Dim_Employees.

9. DW PRODUCTS



The query updates records in the dim_Products table in a database. The general description of the query is as follows:

The query iterates over each record in the dim_Products table and updates the columns UpdateDate and IsActive. The update conditions are complex and include:

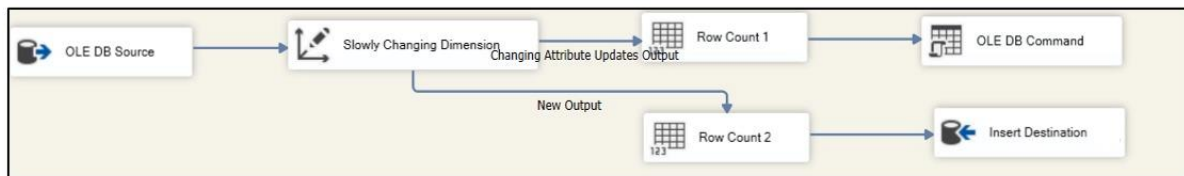
The ProductID column should match the values returned by a subquery that retrieves Dim_ID from the join of the PART table in the PriorityERP database with the dim_Products table.

The IsActive column should be different from 0.

The record must be identified based on the criterion that its ProductID is not found in the PART table in the PriorityERP database.

After the update, the UpdateDate column is set to the current timestamp, and the IsActive column is set to 0.

We implemented this query as part of our Slowly Changing Dimension (SCD) strategy, which inherently manages new dates and updated data. Specifically, we created this query to address situations where records have been deleted. The query ensures that our 'dim_Products' table accurately reflects changes in external data, including the handling of deleted lines.



In the Slowly Changing Dimensions (SCD), the approach involves distinguishing between new lines and updated lines using the 'ProductID.' In the process of updating using the OLE DB Command, we focus on the changed fields. New lines, identified by a unique 'ProductID,' are handled separately to ensure proper management of evolving data. Meanwhile, for updated lines, the OLE DB Command's update operation selectively targets and updates only the fields that have changed.

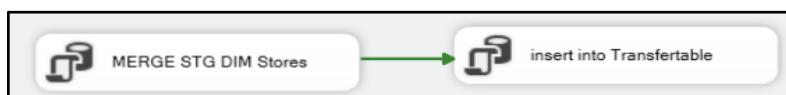
10. DW CUSTOMERS



Using to synchronize data between the Dim_Customers and stg_Customers tables based on CustomersID. It performs the following actions:

- Insert: If there is a record in stg_Customers that does not match Dim_Customers, insert a new record.
- Update: If there is a match and certain columns have changed, update the corresponding columns in Dim_Customers with values from stg_Customers.
- Update (IsActive): If there is a record in Dim_Customers that does not exist in stg_Customers, set IsActive to 0 in Dim_Customers.

11. DW STORES



Using to synchronize data between the Dim_Stores and stg_Stores tables based on StoreID. It performs the following actions:

- Insert: If there is a record in stg_Stores that does not match Dim_Stores, insert a new record.
- Update: If there is a match and certain columns have changed, update the corresponding columns in Dim_Stores with values from stg_Stores.
- Update (IsActive): If there is a record in Dim_Stores that does not exist in stg_Stores, set IsActive to 0 in Dim_Stores.

12. DW FACT SALES



In the OLE DB Source - STG_SALES, we will channel comprehensive data into the FACT_Sales table. Subsequently, in the Data Conversion phase, we will meticulously refine data types that necessitate modification. Following this, within the Derived Column transformation, we will dynamically compute the Total column using the specified formula: $(Qty * Price * (1 - Discount))$. Finally, the meticulously transformed and calculated data will be inserted into the DWH_FACT_SALES table.

13. DW PRODUCTS HISTORY

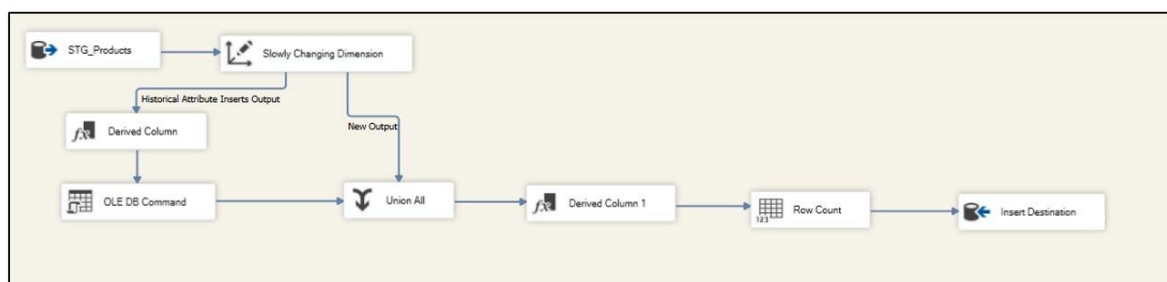


The query updates records in the Dim_Products_History table. Here's a brief description:

The UPDATE statement modifies the EndDate column in the Dim_Products_History table. It sets the EndDate to the current timestamp for records that meet the following conditions:

- The ProductID is not found in the PART table of the PriorityERP database.
- The EndDate is currently NULL.

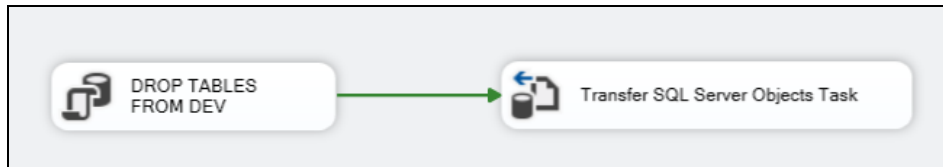
In summary, the query effectively marks records in the history table as ended for products that are no longer present in the PART table and have a NULL EndDate. This action helps differentiate between products actively selling in the company and those that are no longer part of the inventory history.



In the "dim_Products_History" package, when a record in the "dim_Products" table gets updated, we store its previous version in the "dim_Products_History" table. This historical table is structured like

"dim_Products" but includes extra date fields indicating when each version began and ended. This approach enables us to track changes over time, providing a clear timeline for the evolution of product information in the data model. It's a valuable strategy for maintaining a historical record and ensuring transparency in understanding how product data has changed.

14. DEV – DROP & CREATE DATABASE



In this package, we've created a procedure in our development environment (using SSMS) that drops all the tables. Subsequently, we use an SQL task to execute this procedure. Afterward, we employ the Transfer SQL Server Objects Task to copy all tables from the production to the development environment. This entire process ensures that our development database is always up to date with what's in production.

4.2. Defining JOBS in SSIS:

To facilitate the daily refresh and loading process, a deploy was executed from SSIS to SSMS. Subsequently, a job was created to run on a daily schedule at a fixed time. This job comprises 13 steps, each representing a distinct SSIS package responsible for handling various phases of the project.

Error-handling rules have been defined to halt the process in case of an error, ensuring data integrity and reliability. Additionally, a success message is generated upon the successful completion of all 13 steps.

The entire process underwent testing by PQA, resulting in a successful validation without encountering any errors.

Step	Name	Type	On Success	On Failure
1	MRR DIM	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
2	MRR FACT	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
3	STG CUST	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
4	STG EMP	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
5	STG SRORES	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
6	STG PRODUCTS	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
7	STG FACT	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
8	DIM STORES	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
9	DIM CUST	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
10	DIM EMP	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
11	DIM PRODUCTS	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
12	DIM Products History	SQL Server Integration Services Package	Go to the next step	Quit the job reporting failure
13	FACT SALES	SQL Server Integration Services Package	Quit the job reporting success	Quit the job reporting failure

It will automatically run each day at 02:00.

New Job Schedule

Name: Jobs in Schedule

Schedule type: Recurring ☒ Enabled

One-time occurrence

Date: Time:

Frequency

Occurs: Daily

Recurs every: day(s)

Daily frequency

☒ Occurs once at:

☐ Occurs every: hour(s)

Starting at: Ending at:

Duration

Start date: ☐ End date: ☒ No end date:

Summary

Description:

In addition, we've implemented a recurring job that executes this update process weekly, ensuring our development environment stays current with production.

Step	Name	Type	On Success	On Failure
1	UPDATES_Dev	SQL Server Integratio...	Quit the job reporting success	Quit the job reporting failure

It will automatically run each week on Sunday 06:00 am.

Job Schedule Properties - UPDATES_Dev_StradivariusDM

Name:UPDATES_Dev

Jobs in Schedule

Schedule type:Recurring

☒ Enabled

One-time occurrence

Date:1/29/2024

Time:6:30:00 PM

Frequency

Occurs:Weekly

Recurs every:1 week(s) on

☐ Monday

☐ Wednesday

☐ Friday

☐ Saturday

☐ Tuesday

☐ Thursday

☒ Sunday

Daily frequency

☒ Occurs once at:6:00:00 AM

☐ Occurs every:1 hour(s)

Starting at:6:00:00 AM

Ending at:11:59:59 PM

Duration

Start date:1/29/2024

☒ End date:2/18/2024

☐ No end date:

Summary

Description:Occurs every week on Sunday at 6:00:00 AM. Schedule will be used between 1/29/2024 and 2/18/2024.

OK

Cancel

Help

5. Power BI

In this chapter, I delve into the dynamic realm of Power BI, a pivotal component in my project's data analysis and visualization strategy. Using this tool, I have created 2 reports: customers and sales and also a dashboard. Those reports will help the senior management of the company to uncover trends, make informed decisions, and drive meaningful outcomes.

5.1. DAX Measures:

➤ In Power BI, I have created several measures:

1. Total Sales = `CALCULATE(SUM(Fact_Sales[Total]))`
2. YTD Sales = `TOTALYTD([Total Sales], 'Dim_Date'[Date])`
3. LY Sales = `CALCULATE([Total Sales], SAMEPERIODLASTYEAR(datesytd(Dim_Date[Date])))`
4. Sales Difference = `[YTD Sales] - [LY Sales]`
5. Sales Difference % = `DIVIDE([YTD Sales] - [LY Sales], [LY Sales],0)`
6. Average Revenue Per User = `DIVIDE([Total Sales], COUNTROWS(SUMMARIZE(Fact_Sales, Fact_Sales[CustomerID])))`
7. Best Sales Day = `CALCULATE(MAXX(FILTER(VALUES(Dim_Date[Date]), YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])), [Total Sales]), ALLEXCEPT(Dim_Date, Dim_Date[date]))`
8. Lowest Sales Day = `CALCULATE(MINX(FILTER(Dim_Date,[Total Sales] <> BLANK() && YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])),[Total Sales]), ALLEXCEPT(Dim_Date, Dim_Date[Date]))`
9. Total Orders = `DISTINCTCOUNT(Fact_Sales[OrderID])`
10. YTD Orders = `TOTALYTD([Total Orders], 'Dim_Date'[Date])`
11. LY Orders = `CALCULATE([Total Orders], SAMEPERIODLASTYEAR(datesytd(Dim_Date[Date])))`
12. Order Difference = `[YTD Orders] - [LY Orders]`
13. Order Difference % = `DIVIDE([Order Difference], [LY Orders],0)`
14. Best Sales Day Orders = `CALCULATE(MAXX(FILTER(VALUES(Dim_Date[Date]), YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])), [Total Orders]), ALLEXCEPT(Dim_Date, Dim_Date[date]))`
15. Lowest Sales Day Orders = `CALCULATE(MINX(FILTER(Dim_Date,[Total Sales] <> BLANK() && YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])),[Total Orders]), ALLEXCEPT(Dim_Date, Dim_Date[Date]))`
16. Total Units = `CALCULATE (SUM(Fact_Sales[Quantity]))`
17. YTD Units = `TOTALYTD([Total Units], 'Dim_Date'[Date])`
18. LY Units = `CALCULATE([Total Units], SAMEPERIODLASTYEAR(datesytd(Dim_Date[Date])))`
19. Units Difference = `[YTD Units] - [LY Units]`
20. Units Difference % = `DIVIDE([YTD Units] - [LY Units], [LY Units],0)`
21. Best Sales Day Units = `CALCULATE(MAXX(FILTER(VALUES(Dim_Date[Date]), YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])), [Total Units]), ALLEXCEPT(Dim_Date, Dim_Date[date]))`
22. Lowest Sales Day Units = `CALCULATE(MINX(FILTER(Dim_Date,[Total Sales] <> BLANK() && YEAR(Dim_Date[Date]) = max(Dim_Date[YEAR])),[Total Units]), ALLEXCEPT(Dim_Date, Dim_Date[Date]))`
23. online Sales = `CALCULATE(SUM(Fact_Sales[Total]), Fact_Sales[EmpID]=77777)`
24. Physical Store Sales = `CALCULATE(SUM(Fact_Sales[Total]), Fact_Sales[EmpID]<>77777)`
25. Total average per OrderID = `AVERAGEX(KEEPFILTERS(VALUES('Fact_Sales'[OrderID])), CALCULATE(SUM('Fact_Sals'[Total])))`

26. Average Basket Size = `DIVIDE([Total Units], [Total Orders], 0)`
27. Average Revenue Per User MoM % = `VAR __PREV_MONTH = CALCULATE([Average Revenue Per User], DATEADD('Dim_Date'[Date], -1, MONTH))RETURN DIVIDE([Average Revenue Per User] - __PREV_MONTH, __PREV_MONTH)`
28. Total Orders MoM % = `VAR __PREV_MONTH = CALCULATE([Total Orders], DATEADD('Dim_Date'[Date], -1, MONTH))RETURN DIVIDE([Total Orders] - __PREV_MONTH, __PREV_MONTH)`
29. Total Sales MoM % = `VAR __PREV_MONTH = CALCULATE([Total Sales], DATEADD('Dim_Date'[Date], -1, MONTH))RETURN DIVIDE([Total Sales] - __PREV_MONTH, __PREV_MONTH)`
30. Total Units MoM % = `VAR __PREV_MONTH = CALCULATE([Total Units], DATEADD('Dim_Date'[Date], -1, MONTH))RETURN DIVIDE([Total Units] - __PREV_MONTH, __PREV_MONTH)`
31. Number of Resold Units = `CALCULATE(SUM(Fact_Sales[Quantity]),FILTER(VALUES(Fact_Sales[OrderID]), CALCULATE(COUNTROWS(Fact_Sales), Fact_Sales[OrderID] = EARLIER(Fact_Sales[OrderID])) > 1))`
32. Resell Percentage = `DIVIDE([Number of Resold Units], [Total Units], 0)`

5.2. Sales Overview:

The dashboard presents a complete picture of the providers in the company, organized visually according to different filters, for example when selecting a specific year, the report will dynamically display key sales indicators such as total sales, total units sold, number of orders, average shopping basket size, repeat purchase percentage, etc.

The report also includes:

1. Repeat purchase percentage by continent.
2. Average shopping basket size by country.
3. The percentage of online sales VS sales in physical stores.
4. Top 5 Best-Selling Products.
5. Top 5 Best-Employees by Sales

With bookmarks, I've integrated three graphs offering a comprehensive year-to-date (YTD) overview, comparing current totals for sales, orders, and units with the same period from the previous year. Easily navigate between time periods, aggregate data by year and categories, and clear all slicers with intuitive buttons for a seamless user experience.



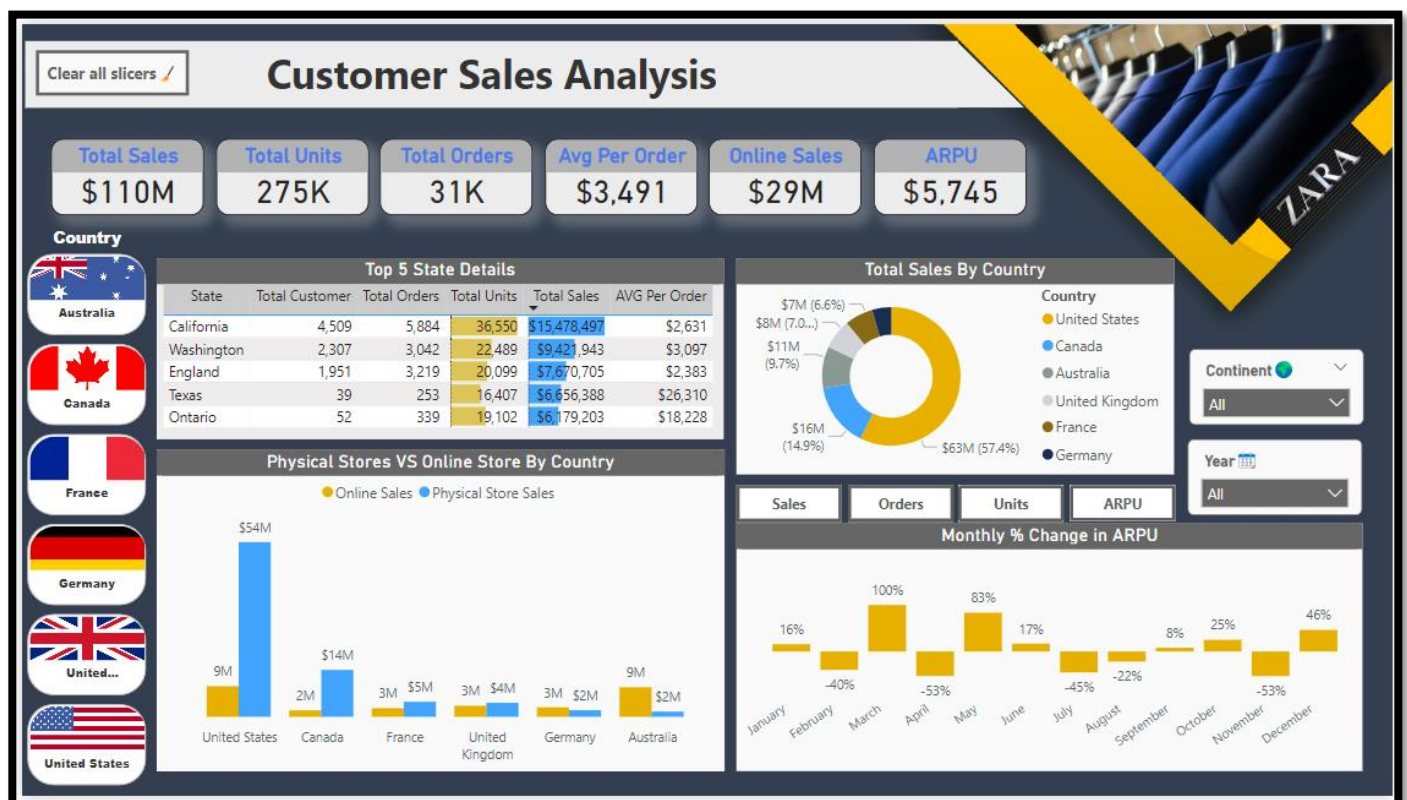
5.3. Customer Sales Analysis:

In the Customer Sales Report, comprehensive details about the company's customers are presented, organized visually through the display of country flags. When selecting a specific country, the report dynamically showcases key sales metrics, including total sales, total units, total orders, average per order, online sales, and average revenue per user.

The report also includes:

1. Detailed information on the top 5 states.
2. Total Sales breakdown by country.
3. A comparison of total sales between Physical Stores and the Online Store, categorized by country.

With bookmarks, I've incorporated four graphs that highlight monthly percentage changes in Order Count, Units Sold, Total Sales, and ARPU. Easily navigate through time periods, aggregate data by year or continent, and clear all slicers with intuitive buttons for a seamless user experience.

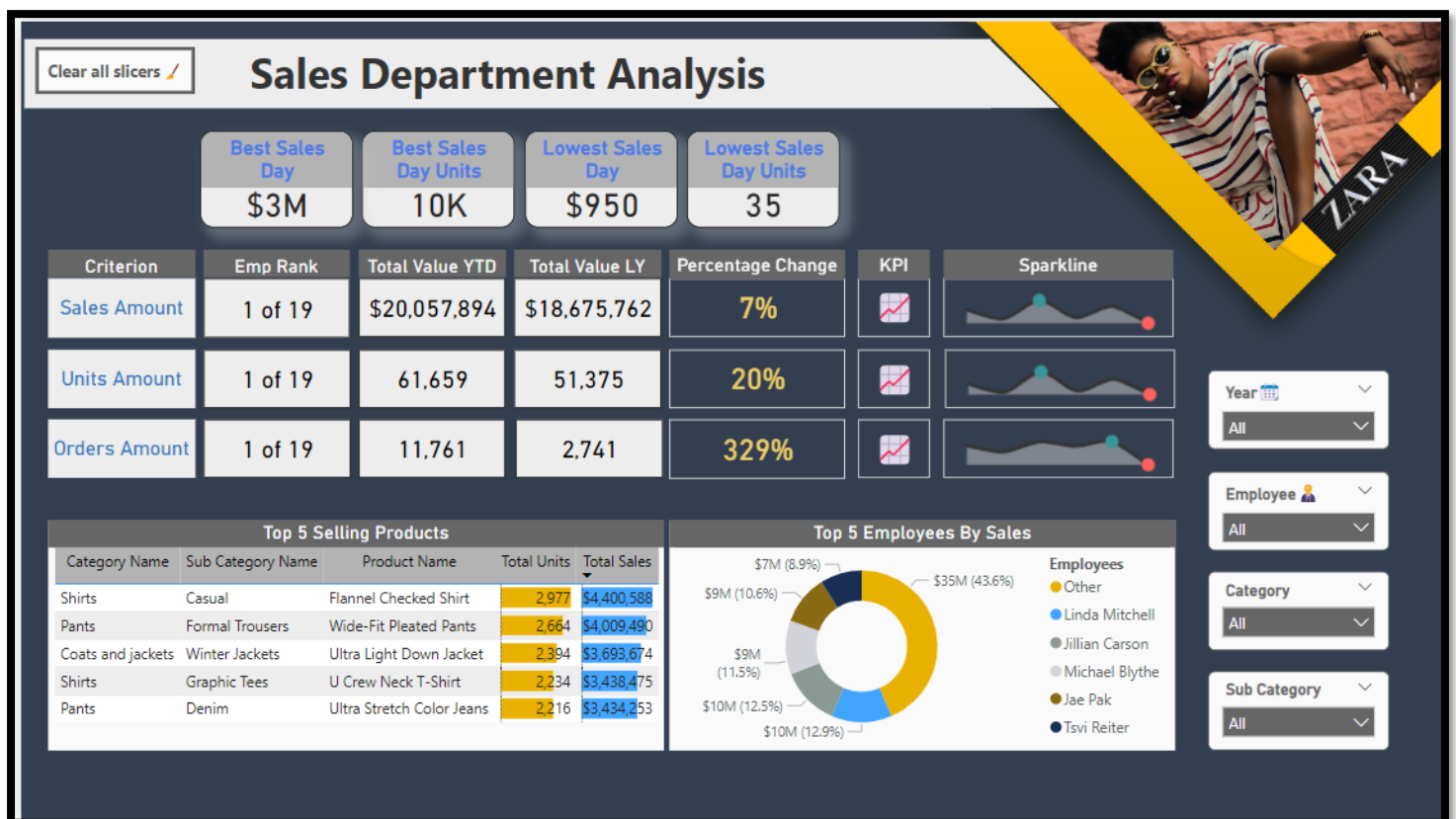


5.4. Sales Department Analysis:

In the Sales Department Report, you'll find essential insights and key performance indicators (KPIs) tailored for the sales team. The report includes:




1. General KPI Data: Highlights the Best and Lowest Sales Days along with corresponding unit metrics.
2. Employees Sales Performance: Provides employee rankings, year-to-date (YTD) total sales, a comparison to the same period last year, percentage change, KPIs, and sparklines for sales amount, units amount, and orders amount.
3. Top 5 Best-Selling Products: Identifies the top-performing products along with their quantities.
4. Top 5 Best-Employees by Sales: Showcases the top-performing employees based on sales.

The report is designed for easy navigation with buttons for filtering data by year, employee, category, and sub-category. Additionally, a 'Clear All Slicers' button ensures a seamless user experience.



5.5. Refreshing reports and dashboards:

Similar to the data refresh procedure outlined in Chapter 4.3 for the Data Mart the settings for refreshing report and dashboard data are configured on a daily basis. This ensures complete consistency between the Data Mart and the Power BI dashboards. The information synchronization takes place through the Gateway to the ASUS-F15 computer, where the databases are stored.

Gateway	Department	Contact information	Status	Actions
  Personal Gateway			 Running on ASUS-F15	

The report is scheduled for daily refresh at 5:00 AM, following the completion of the data refresh procedure in the Data Mart. Alerts have also been configured to notify of any timing errors during this process.

Refresh

Configure a refresh schedule

Define a data refresh schedule to import data from the data source into the semantic model. [Learn more](#)

On

Refresh frequency

Daily

Time zone

(UTC+02:00) Jerusalem

Time

500AM

[Add another time](#)

Send refresh failure notifications to

☒ Semantic model owner

☐ These contacts:

Enter email addresses

ApplyDiscard

5.6. Application:

To improve user accessibility and convenience, we've centralized all reports and dashboards into a user-friendly application named "Final Project." This consolidation ensures that users can easily navigate and access the necessary information from a single, organized platform. The Final Project application serves as a comprehensive hub for streamlined and efficient data utilization.

	Name	Publisher	Published	App type
	Final Project Tal Shani Zara	tal	2/7/24, 1:12:34 PM	Org app

Link: [Final Project Tal Shani Zara](#)



The application is accessible on mobile devices either by directly connecting to the provided link or by using the link within the POWER BI application. This flexibility allows users to access the application seamlessly, ensuring a convenient and responsive experience whether they prefer accessing it directly through a web link or through the dedicated POWER BI mobile application.

