



As a BI Engineer, passionate about data. I would like to share my journey through a challenging task.

The task was to analyze and transform retail invoice data collected monthly from February to May.

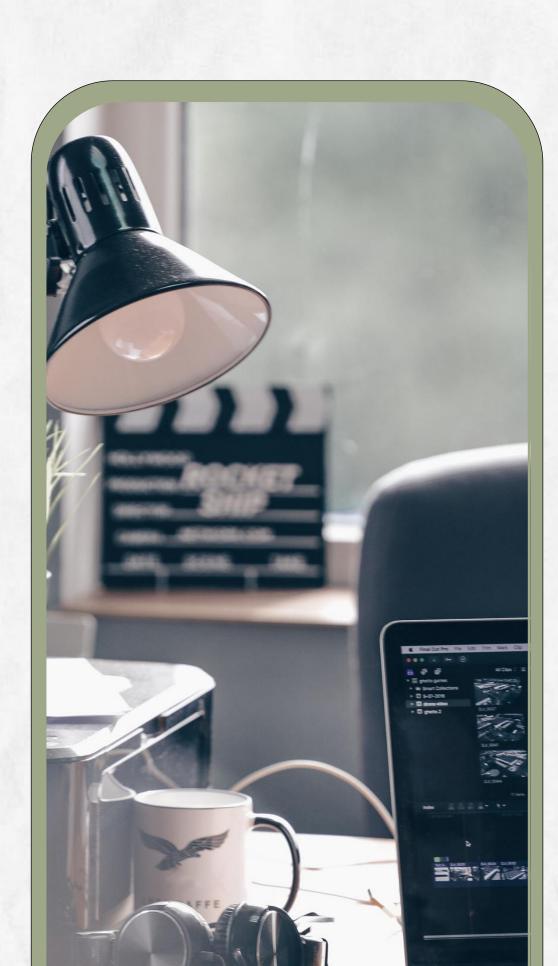


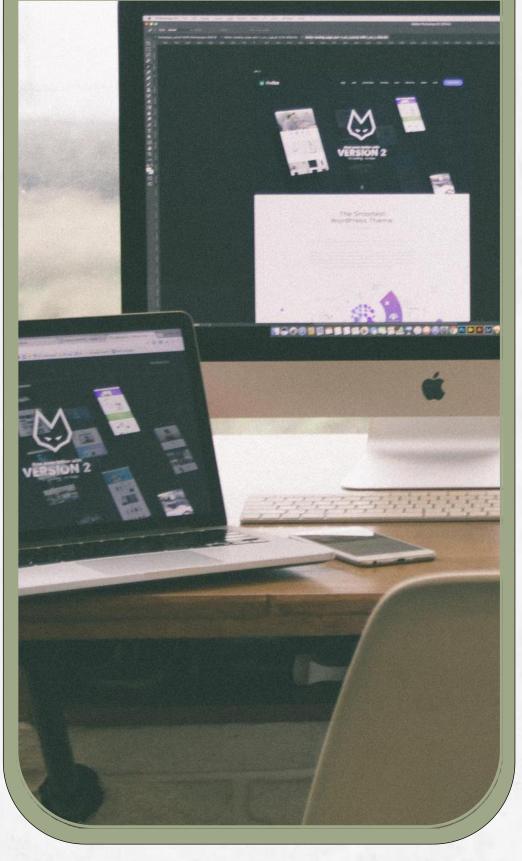
The data was divided into four sheets: Sales, Products, Reps, and Stores.

The goal was to create a comprehensive solution using various tools and present it effectively.

STEPS INDEX

- Excel
- SQL
- · SSIS
- Power Query
- Power bi
- Presentation

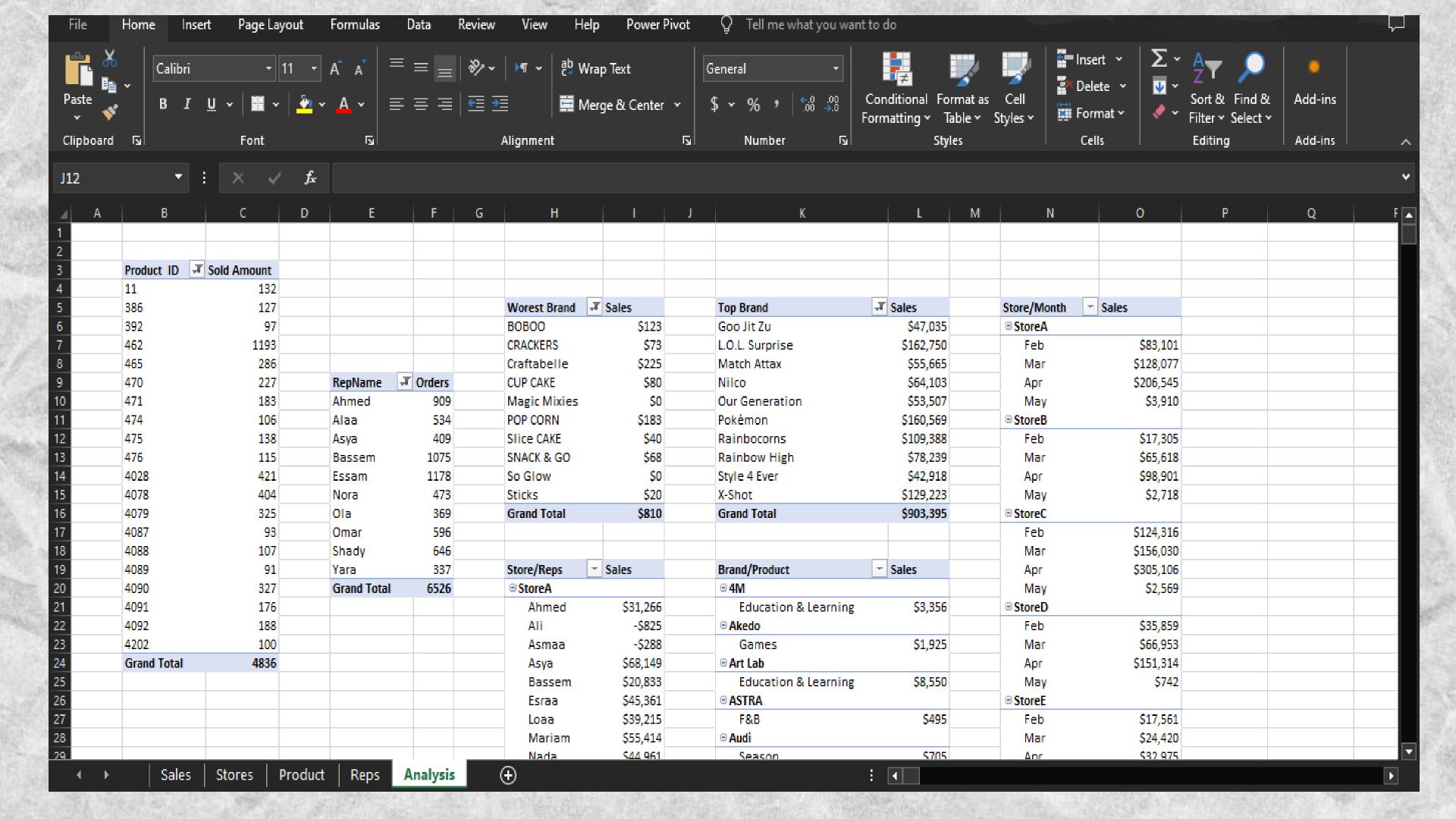


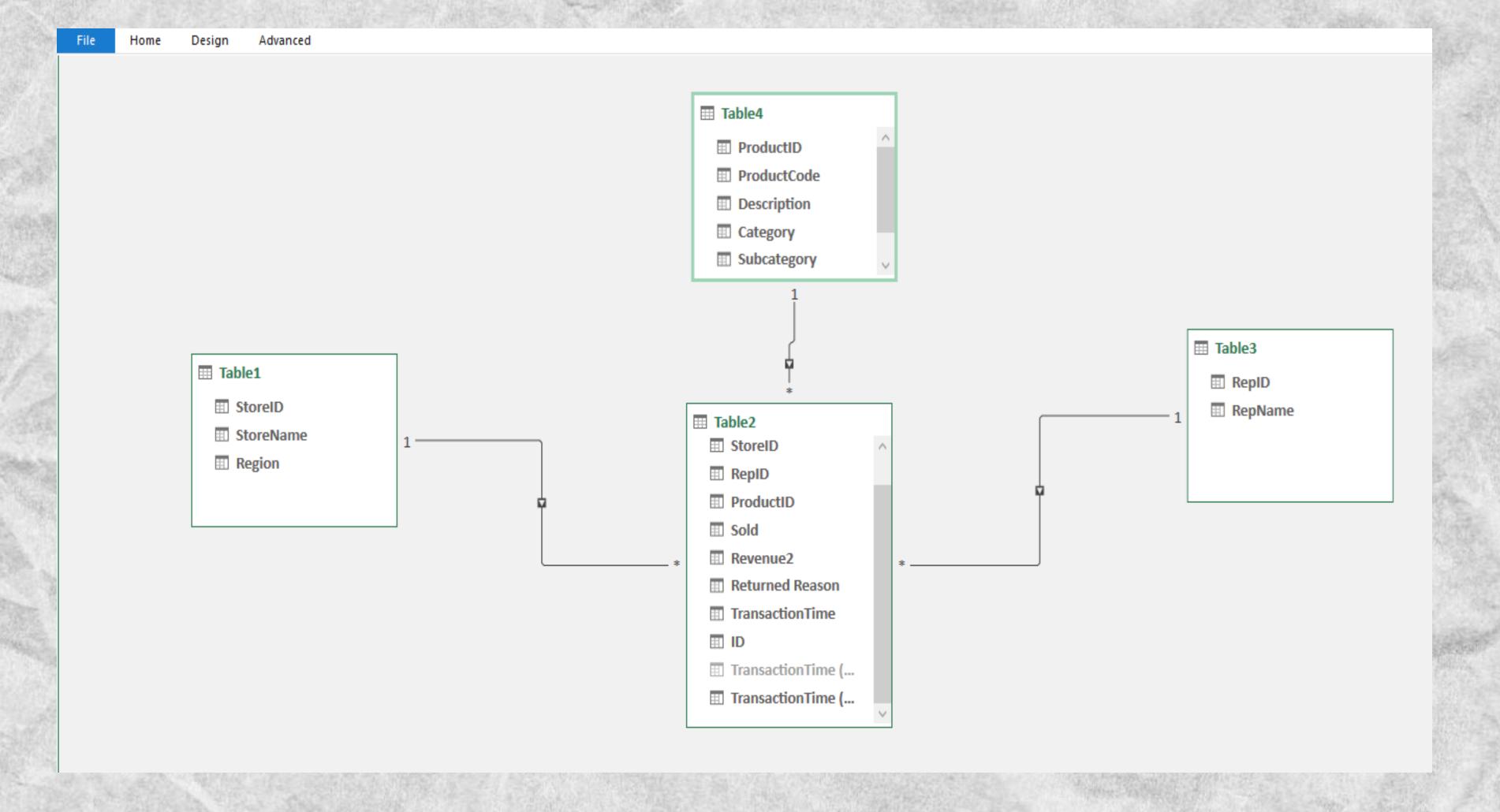


EXCEL

- Reading the data
- Cleaning Data
- Creating some calculations and Data Model

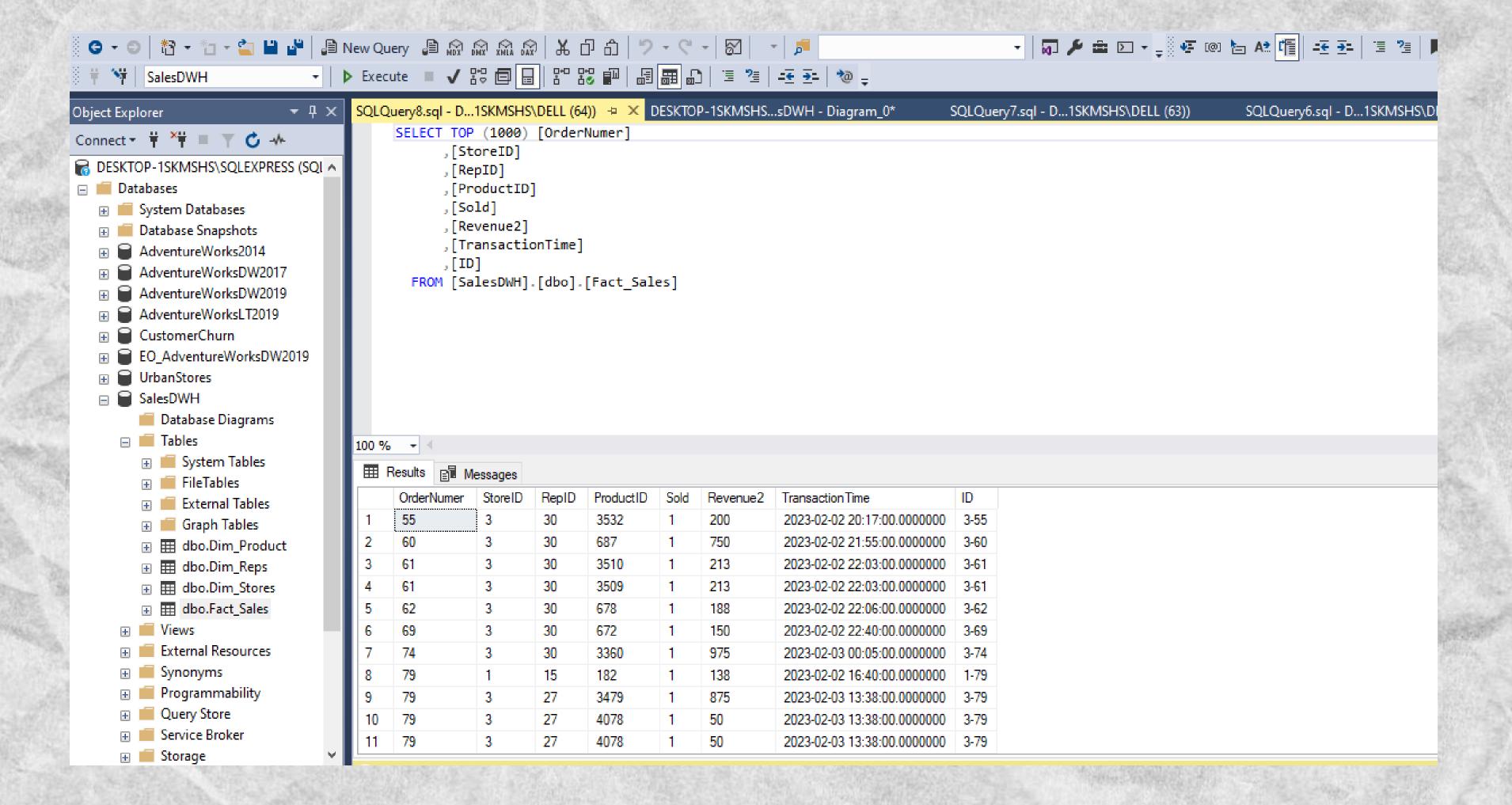






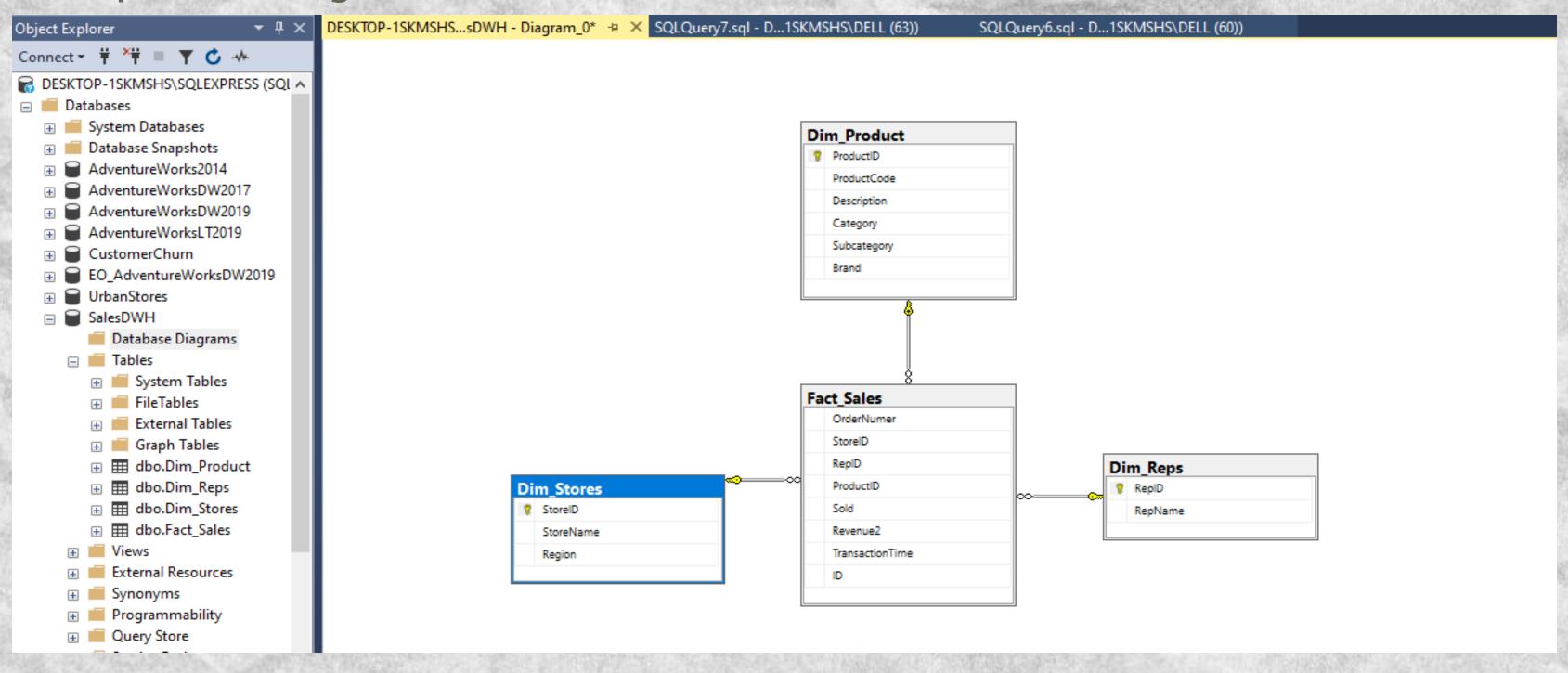


- Creating a Data Warehouse
- Hosting the stare schema and creating the modeling of DWH



Star Schema

It enhances analytical reporting by providing faster query response times and easier data navigation due to its simplified design.



SSIS



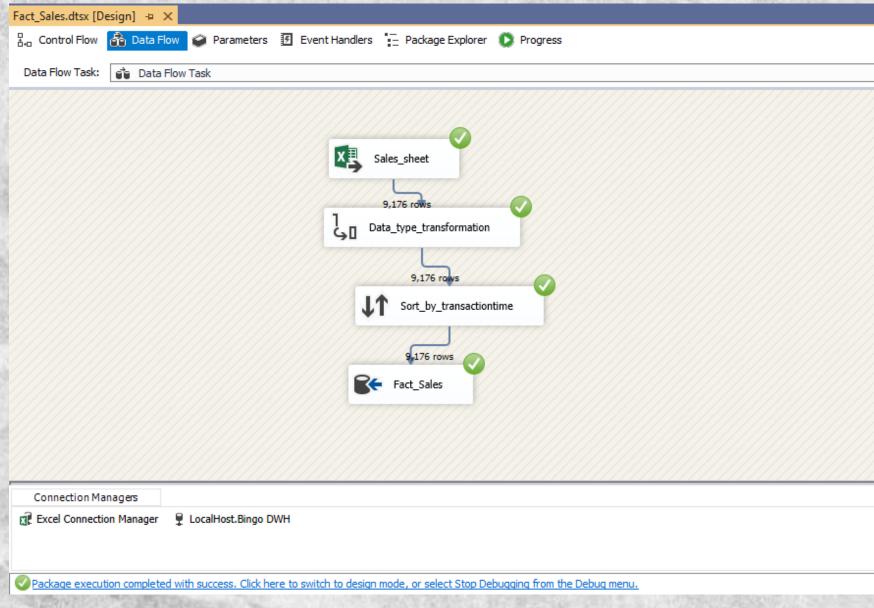
Creating data types transformation and sorting the data



Defining the fact tables and dimension tables

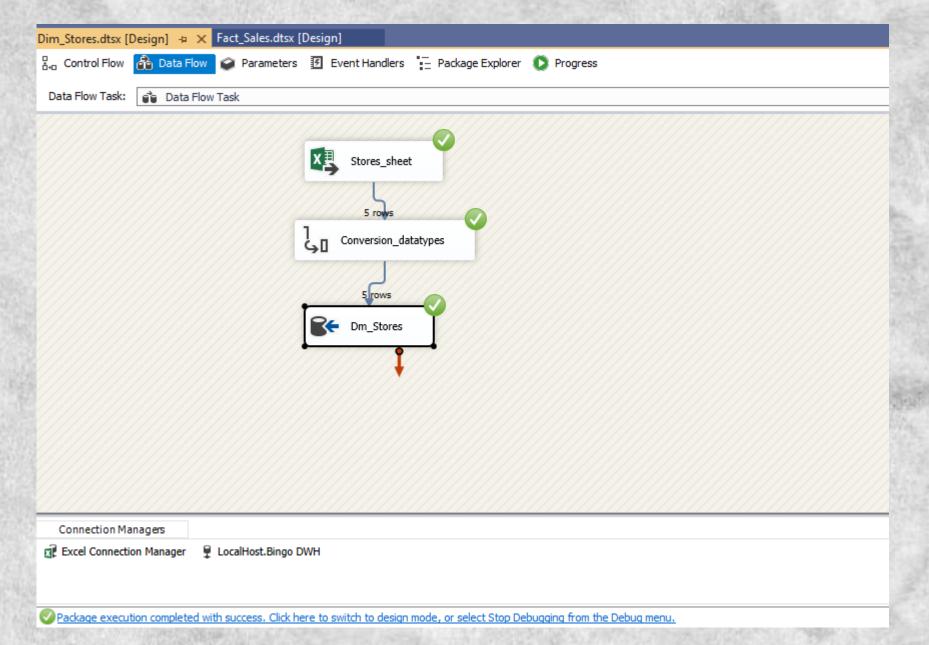


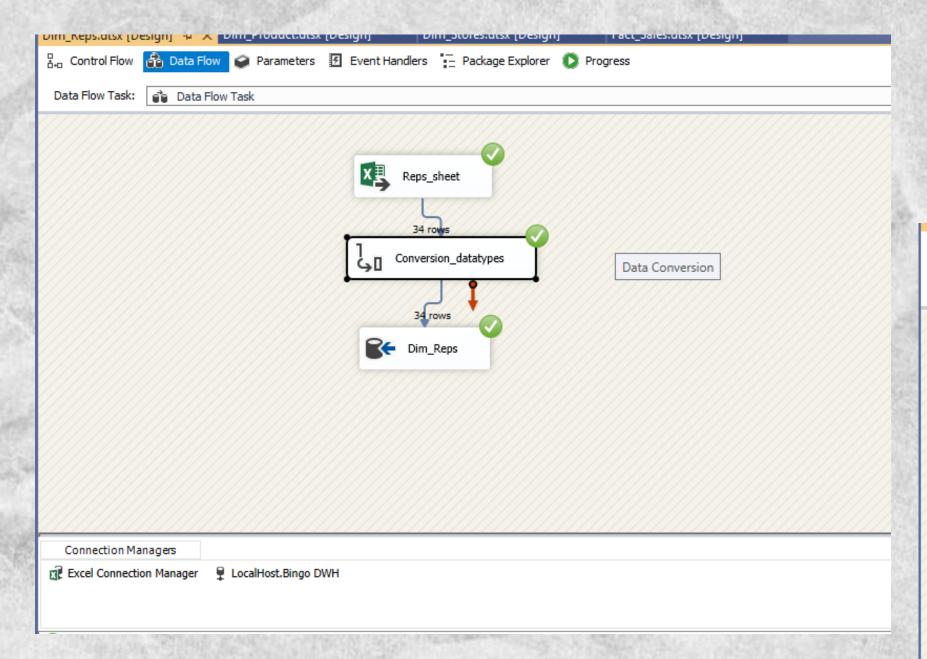
Creating ETL pipelines to populate the data into the DWH



Fact Sales SSIS Package

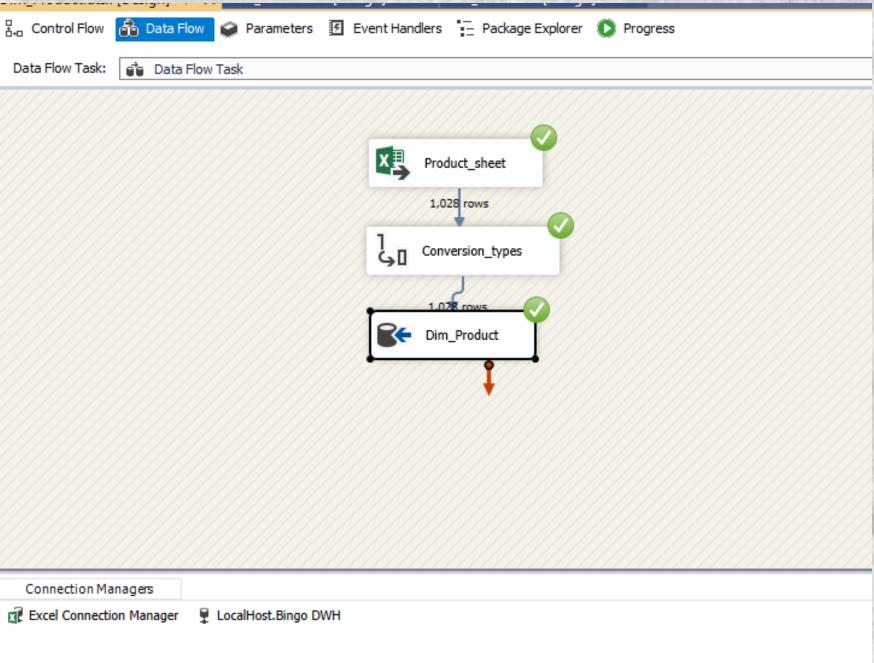
Store Dimension SSIS Package





Reps Dimension SSIS Package

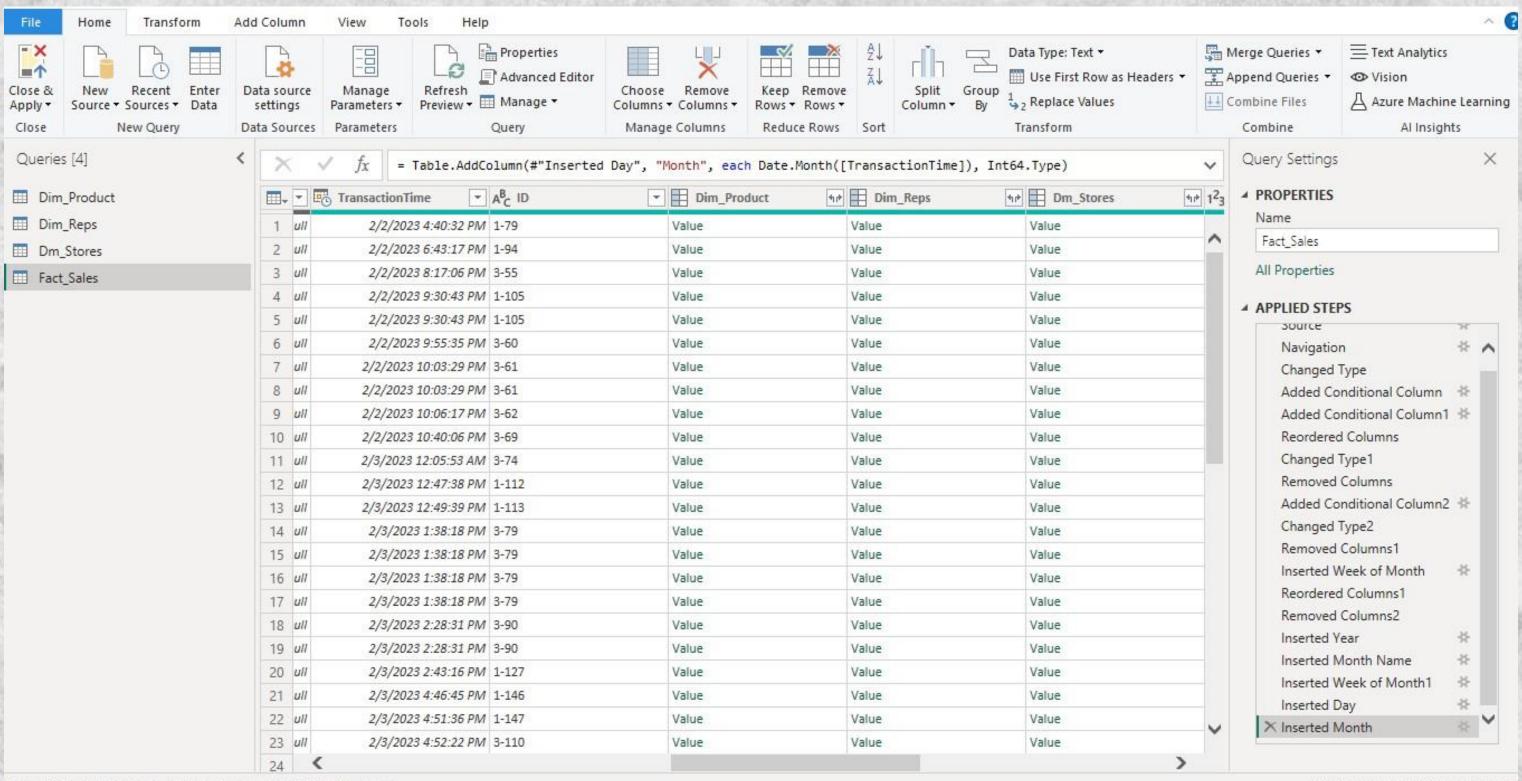
Product Dimension SSIS Package





 Explaining our process of thinking and working during the task Providing a brief presentation and dashboard

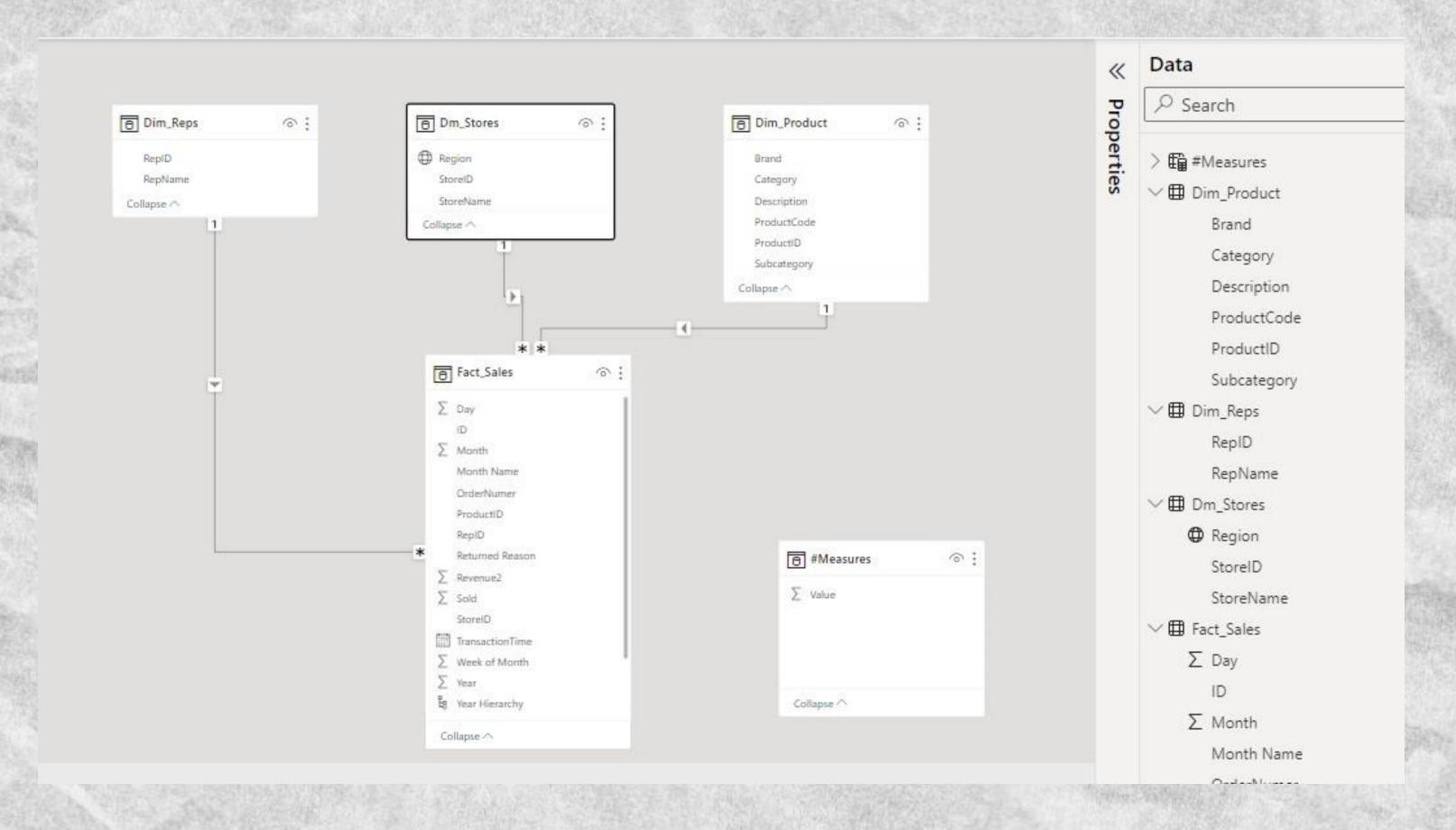
Power Query Processes



17 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:06 PM

Data Modeling Processes



Power BI Dashboard





- What is the Total Sales?
- What is the Total Orders?
- · How much are the products sold?
- · How much are the products returned?



- What are the Top Products sold?
- · Who are the top sales representatives?
- How are the sales and orders by time?
- What are the most common reasons for returns?

