

Technical Assessment

The attached excel Workbook contains sales Data Collected **Monthly** about Retail invoice data.

[\(This file from Feb to May\)](#)

Sheets:

- Sales (which contains transactions).
- Products (which contains Product's Info).
- Reps (Which Contains Sales Indoor).
- Stores (which Contains Store's Info).

Use Excel to solve the challenges:

- Add new Sheet with lookups for each ID with Related Info.
- After Lookups, Calculations (use Formula or Pivot Table)
 - a. Get Top 20 Products per Sold.
 - b. Get Top 10 Reps per Count of Order number.
 - c. Get Top & Worst 10 Brand per Value.
 - d. Rank Month in Each Stores.
 - e. Rank Reps in each Stores.
 - f. Rank Products in each Brand.

Use SQL Server and SSIS to Solve the Challenges:

- Create a star schema of the data using Microsoft SQL Server.
- create an ETL pipelines using SSIS to populate the cleaned data into the DWH.
- You should define the facts and dimensions and decide what columns belongs to the facts/dimension's tables according to your understanding of the data.

Use Power BI to Solve the Challenges:

- Connect to the DWH from Power BI and do descriptive analysis dashboard, and don't forget to give attention to the dashboard design.

Use Power Point or presentation tool:

- Provide a brief presentation explaining your process of thinking and work during the task.

Deliverables that need to be submitted:

- The cleaned Excel Workbook.
- A backup file from the DWH.
- SSIS solution folder (please make sure very well that the file is attached correctly).
- Power BI Dashboard file.
- Presentation file (make sure to include a snapshot of the star schema, SSIS Pipelines that you created).