

# Project-1 Data Leverager

## Sources Used:

- Imported monthly sales data from Excel files stored in a folder (Jan–Apr).
- Loaded Employee Master Data from a separate Excel file.
- Extracted an HTML table from the web as an example of an online data source.

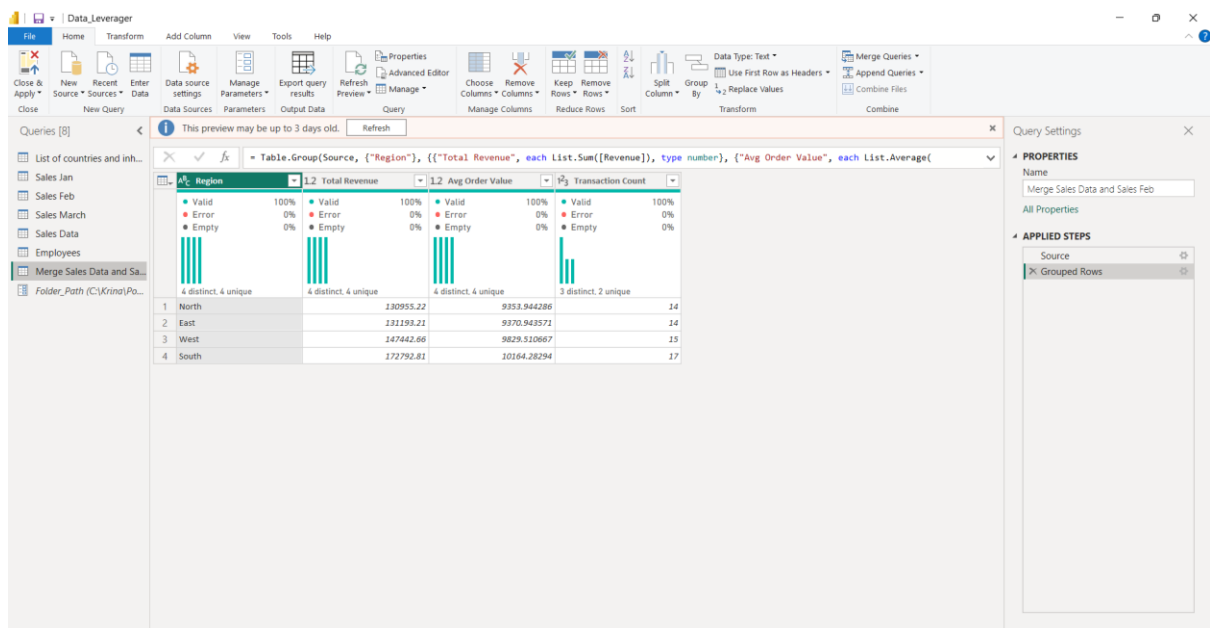
## Transformation applied:

Table.ReorderColumns(#"Added Index",{"Index", "OrderID", "Order Date", "Day", "Month Name", "Year", "Quarter", "Customer Name", "City"})

Index	OrderID	Order Date	Day	Month Name	Year	Quarter
1	03803	10-03-2025	10	March	2025	
2	03313	13-03-2025	13	March	2025	
3	02525	10-02-2025	10	February	2025	
4	05915	06-03-2025	6	March	2025	
5	04727	02-02-2025	2	February	2025	
6	03553	25-03-2025	25	March	2025	
7	05571	03-01-2025	3	January	2025	
8	07975	18-03-2025	18	March	2025	
9	06914	12-03-2025	12	March	2025	
10	07666	06-03-2025	6	March	2025	
11	06946	15-02-2025	15	February	2025	
12	07533	25-02-2025	25	February	2025	
13	07603	10-03-2025	10	March	2025	
14	01690	01-03-2025	1	March	2025	
15	02660	06-01-2025	6	January	2025	
16	09597	17-02-2025	17	February	2025	
17	04123	24-01-2025	24	January	2025	
18	07969	12-02-2025	12	February	2025	
19	04842	11-02-2025	11	February	2025	
20						

Table.AddColumn(#"Lowercased Text", "Age", each Date.Year(DateTime.LocalNow()) - Date.Year([Birthdate]))

EmployeeID	Name	Department	Region	Join Date	Birthdate	Age
101	Employee 101	IT	south	07-02-2020	06-02-1995	
102	Employee 102	Finance	west	18-04-2020	10-02-1995	
103	Employee 103	HR	east	14-12-2020	13-09-1995	
104	Employee 104	Sales	east	17-01-2020	13-01-1995	
105	Employee 105	IT	west	10-02-2020	07-06-1995	
106	Employee 106	Sales	north	12-05-2020	13-07-1995	
107	Employee 107	Finance	north	13-08-2020	03-01-1995	
108	Employee 108	IT	east	13-11-2020	19-12-1995	
109	Employee 109	Sales	west	12-04-2020	26-07-1995	
110	Employee 110	Finance	east	15-05-2020	22-06-1995	



## Challenges Faced:

- Sales files had inconsistent formatting and null values.
- Column headers and data types were not standardized across files.
- Duplicate and blank records existed in the raw data.
- Required combining multiple files without breaking queries.
- Employee age and sales category needed to be derived from existing data.

## How These Challenges Were Solved:

- Cleaned the dataset using Remove Blank Rows, Remove Columns, and Remove Duplicates.
- Promoted headers and renamed columns for consistency.
- Standardized data types using Change Type with Locale.
- Used Append Queries from Folder to dynamically combine monthly files.
- Created calculated fields in Power Query for Profit, Age, and Sales Category.
- Implemented Parameters for dynamic folder path control.
- Verified data quality using Column Profile, Column Quality, and Column Distribution.