Data Modelling in Power Bl

@learnatcloudanalytics

Power BI Desktop Workflow

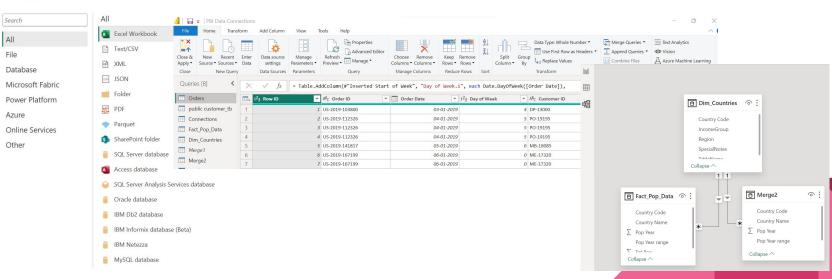
Get Data

Data Transformation

Data Modelling

Data Visualization Publish the report

Get Data



Business Scenario

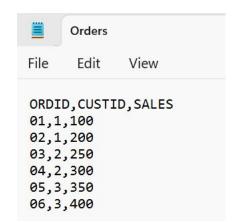
Business Requirement:

Given 2 tables, **Customers** and **Orders**, Business would like to analyze the **total Sales** for each Customer.

Problem Statement:

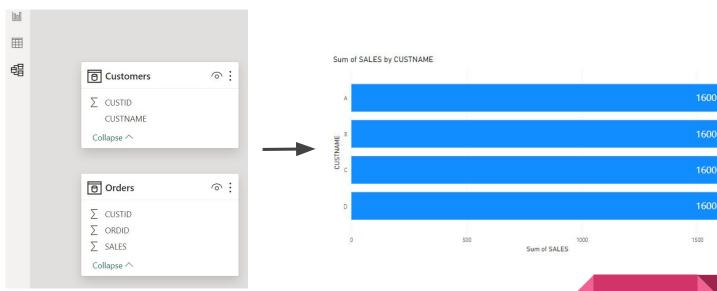
 Total Sales for each Customer is displaying the same value





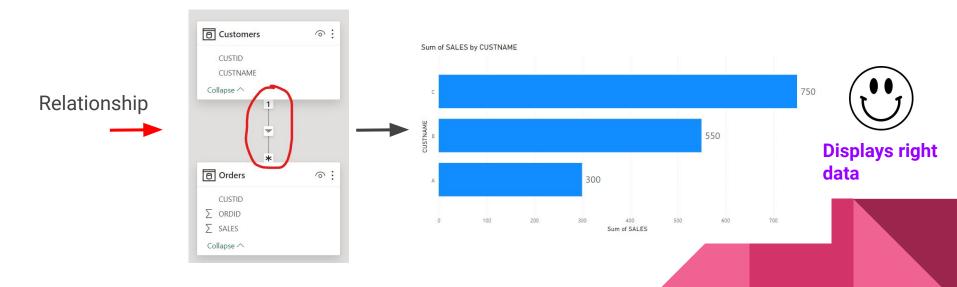
Is it a Data Model?





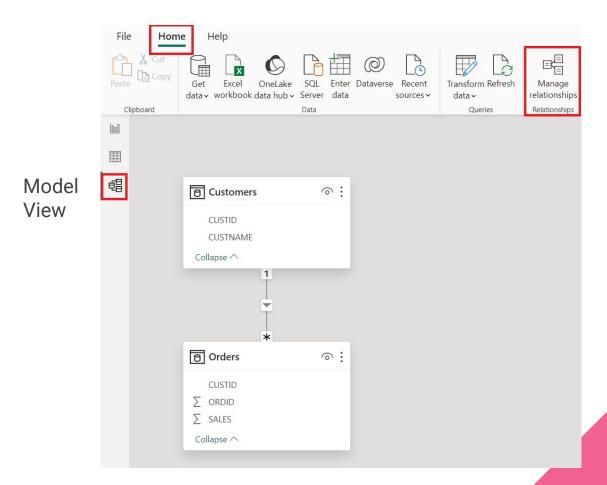
Data Modelling

• **Data Modelling** is all about collecting multiple tables from same data source or from multiple data sources to communicate with each other with the use of relationships.



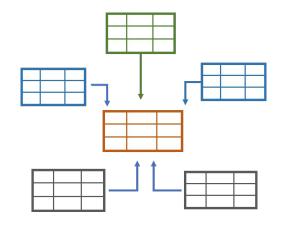
What is Relationship?

- Relationships create a logical connection between different tables or data sources.
- Enables users to run queries for related data across multiple tables.
- Each block represents a table and the lines between them represent relationships.

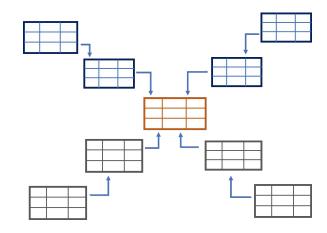


Dimensional Modelling

- Star Schema
- Snowflake Schema



Star Schema



Snowflake Schema

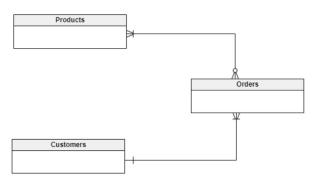
Cardinality

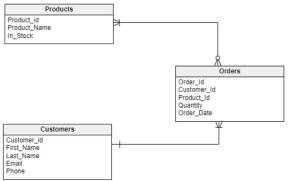
It identifies the exact relationship between two tables.

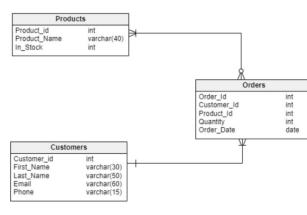
4 Types

- One-to-One
- One-to-Many
- Many-to-One
- Many-to-Many

Model Types







Conceptual

Identifying & Grouping Business data

Logical

Establishing a Structure for the data

Physical

Designing database specific elements