

SQL DATA Analytics Project







"Organize, Structure, Prepare,

- ETL/ELT Processing
- -O Data Architecture
- -0 Data Integration
- Data Cleansing
- -O Data Load
- O Data Modeling



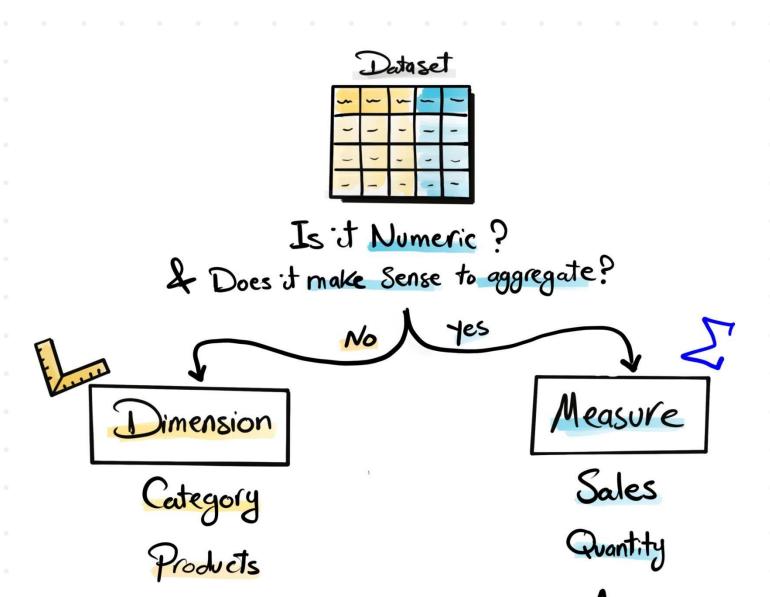
"Understand Data,

- o Basic Queries
 - o Data Profiling
 - Simple Aggregations
 - Subquery



Answer Business Questions.

- _ Complex Queries
- Window Functions
- OCTE
- -O Subqueries
- Reports



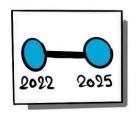
AB AB

Dimensions Exploration

DISTINCT [Dimension]

DISTINCT Country
DISTINCT Category
DISTINCT Product

$$\begin{array}{c} A \\ B \\ B \\ C \\ A \\ \vdots \\ \end{array}$$



Date Exploration

MIN/MAX [Date Dimension]

MIN Order_date

MAX Create date

MIN Birthdate

2018 2028 O Years DATEDIFF 999

Measures Exploration



SUM (Sales)

AVG (Price)

SUM (Quantity)



Magnitude

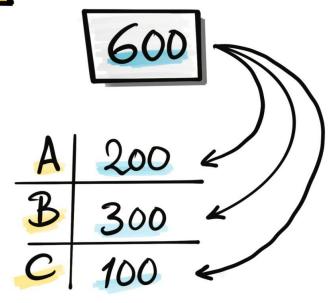


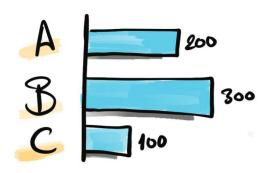
Total Sales By Country

Total Quantity By Category

Average Price By Product

Total Orders By Customer





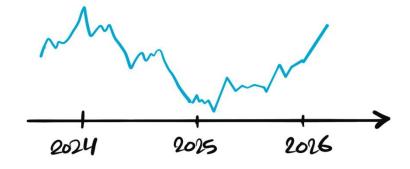
Change - Over-Time Trends

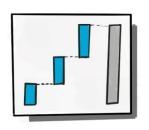
[Measure] By [Date Dimension]

Total Sales By Year

Average Cost By Month

2024	300
2025	100
2026	200





Cumulative Analysis

[Cumulative Measure] By [Date Dimension]

Running Total Sales By Year

Moving Average of Sales By Month

2024	300	300
2025	100	400
2026	208	600 L

WINDOW FUNCTIONS





Performance Analysis

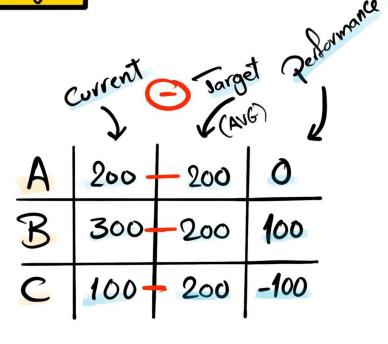
Current [Measure] - Target [Measure]

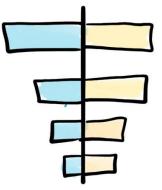
Current Sales - Average Sales

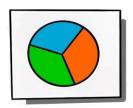
Current Year Sales - Previous Year Sales

Current Sales - Lowest Sales

WINDOW FUNCTIONS

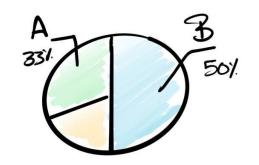


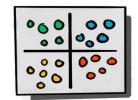




Part-to-Whole Proportional Analysis

A	200	33%
R	300	50%
C	100	17%





Data Segmentation

[Measure] By [Measure]

Total Products By Sales Range

Total Customers By Age

CASE WHEN STATEMENT

