SQL DATA Analytics Project

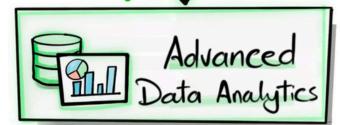




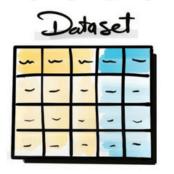
- "Organize, Structure, Prepare,
 - -OETL/ELT Processing
 - Data Architecture
 - Data Integration
 - Data Cleansing
 - -O Data Load
 - -O Data Modeling



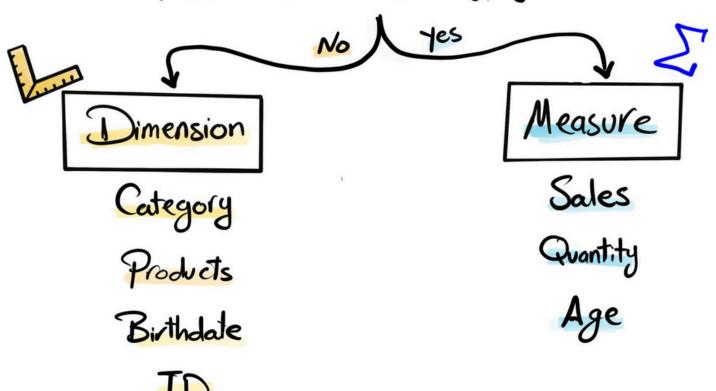
- "Understand Data,
- Lo Basic Queries
 - _o Data Profiling
 - Simple Aggregations
 - Subquery



- Answer Business Questions.
 - _o Complex Queries
 - Window Functions
 - OCTE
 - -O Subqueries
 - Reports



Is it Numeric? Does it make Sense to aggregate?

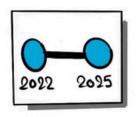


A C D

Dimensions Exploration

DISTINCT [Dimension]

DISTINCT Country
DISTINCT Category
DISTINCT Product



Date Exploration

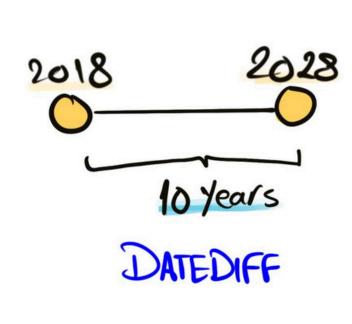
MIN/MAX [Date Dimension]

MIN Order_date

MAX Create date

MIN Birthdate

2019
2020
2018
2018
2022
2023
2023
2028
2022



999

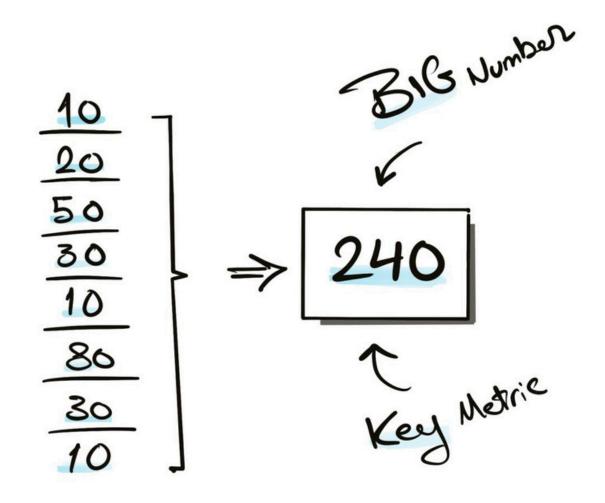
Measures Exploration



SUM (Sales)

AVG (Price)

SUM (Quantity)





Magnitude

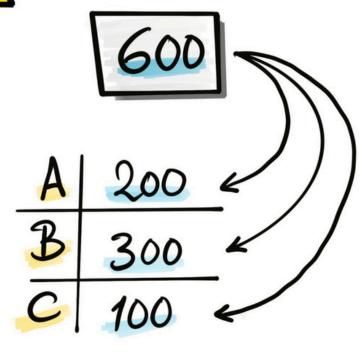


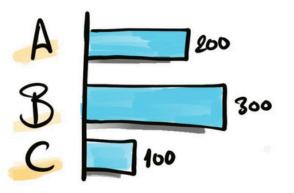
Total Sales By Country

Total Quantity By Category

Average Price By Product

Total Orders By Customer





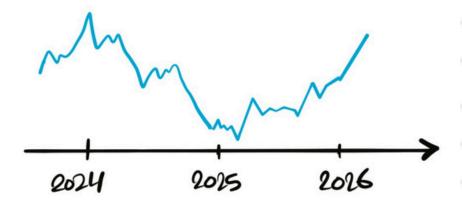
Change - Over-Time Trends

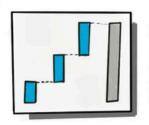
> [Measure] By [Date Dimension]

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

		Com		7
09U	1	200	7 3	00

2024	300	300
2025	100	400
2026	208	600 4

WINDOW FUNCTIONS





Performance Analysis

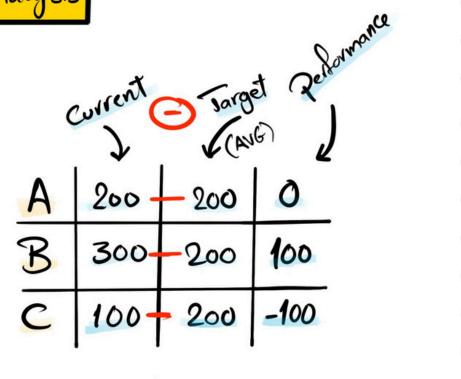
Current [Measure] - Target [Measure]

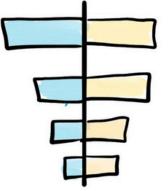
Current Sales - Average Sales

Current Year Sales - Previous Year Sales

Current Sales - Lowest Sales

WINDOW FUNCTIONS

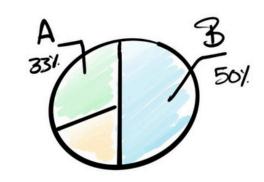


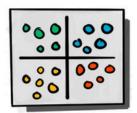




Part-to-Whole Proportional

Α	200	33%
3	300	50%
C	100	17%





Data Segmentation

[Measure] By [Measure]

Total Products By Sales Range Total Customers By Age

CASE WHEN STATEMENT

