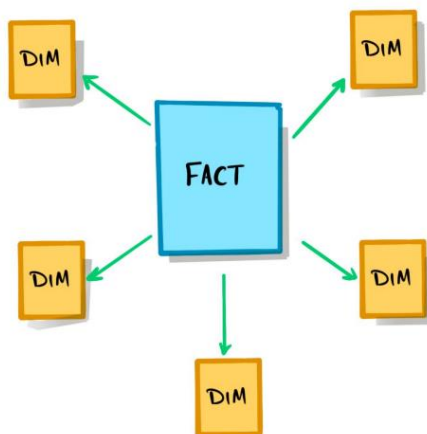
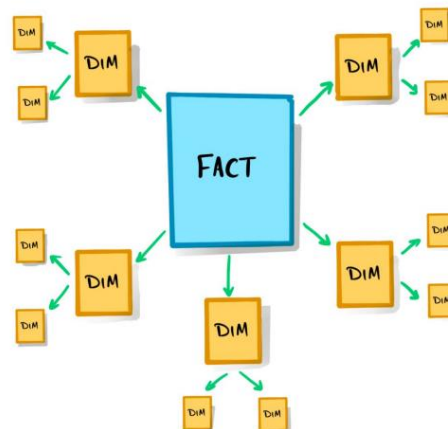
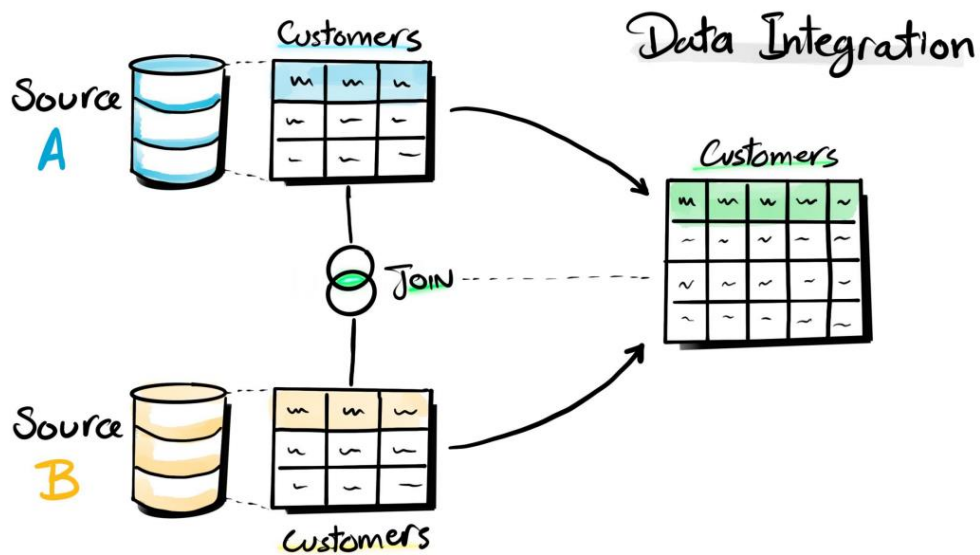
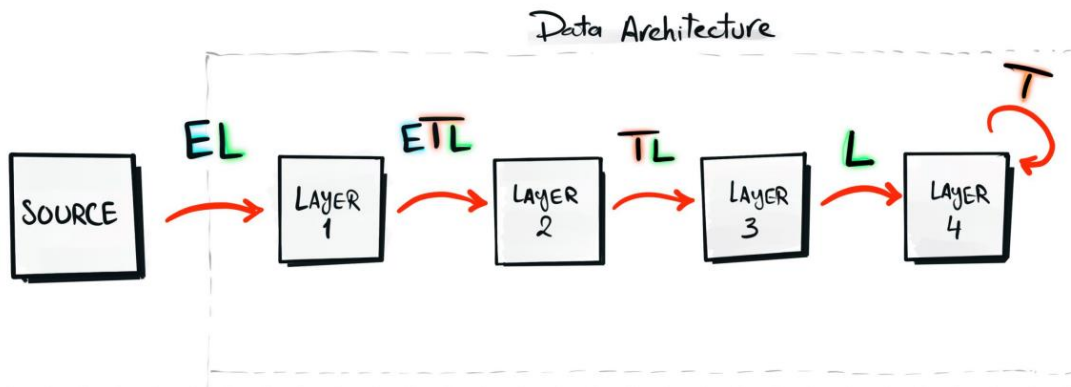


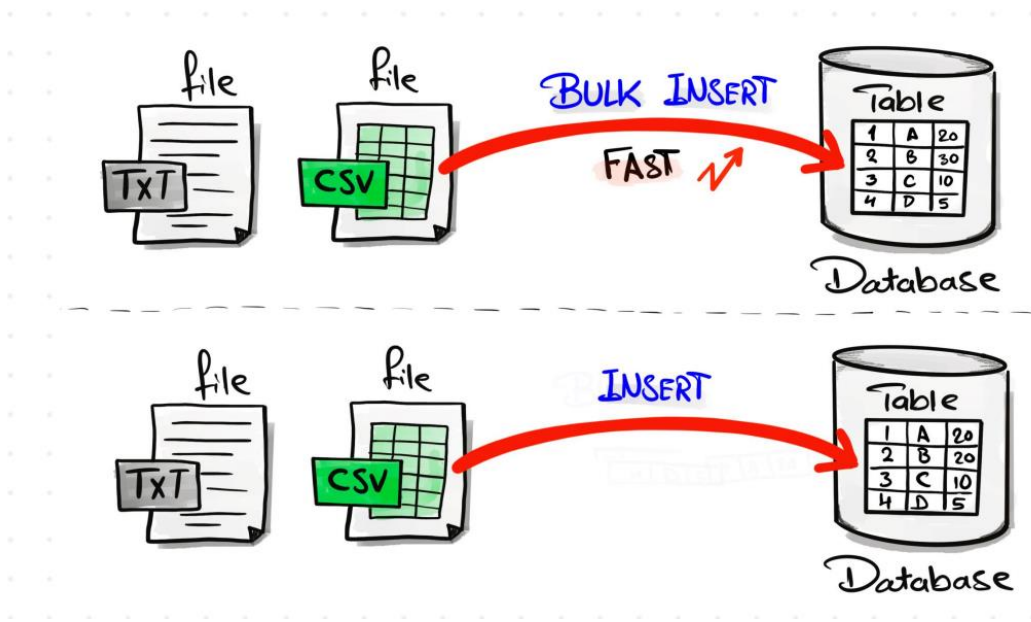
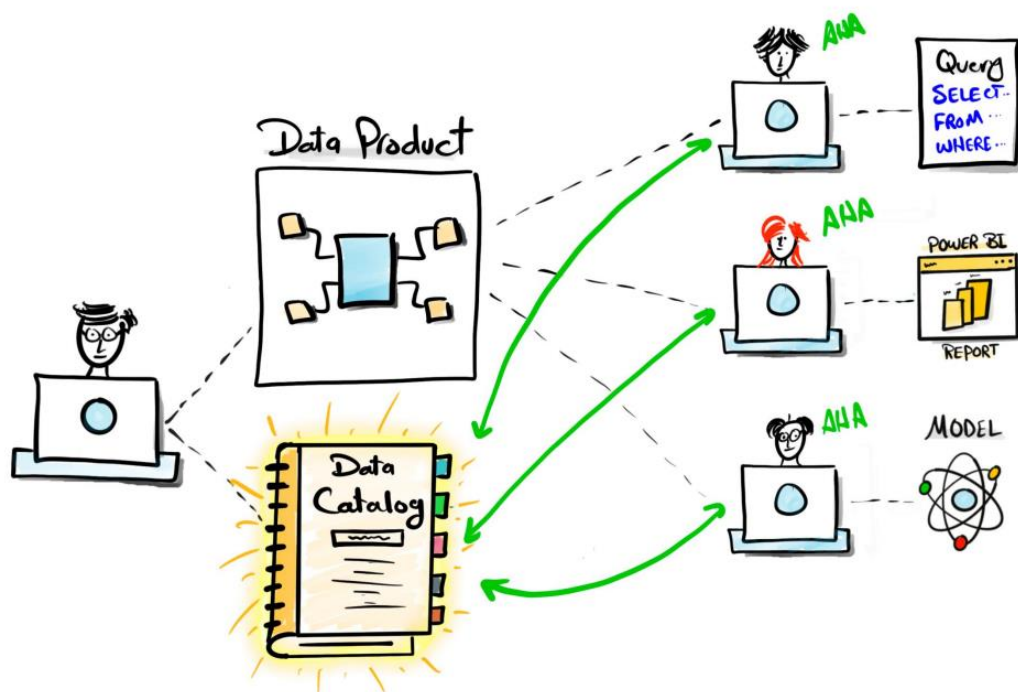
STAR SCHEMA

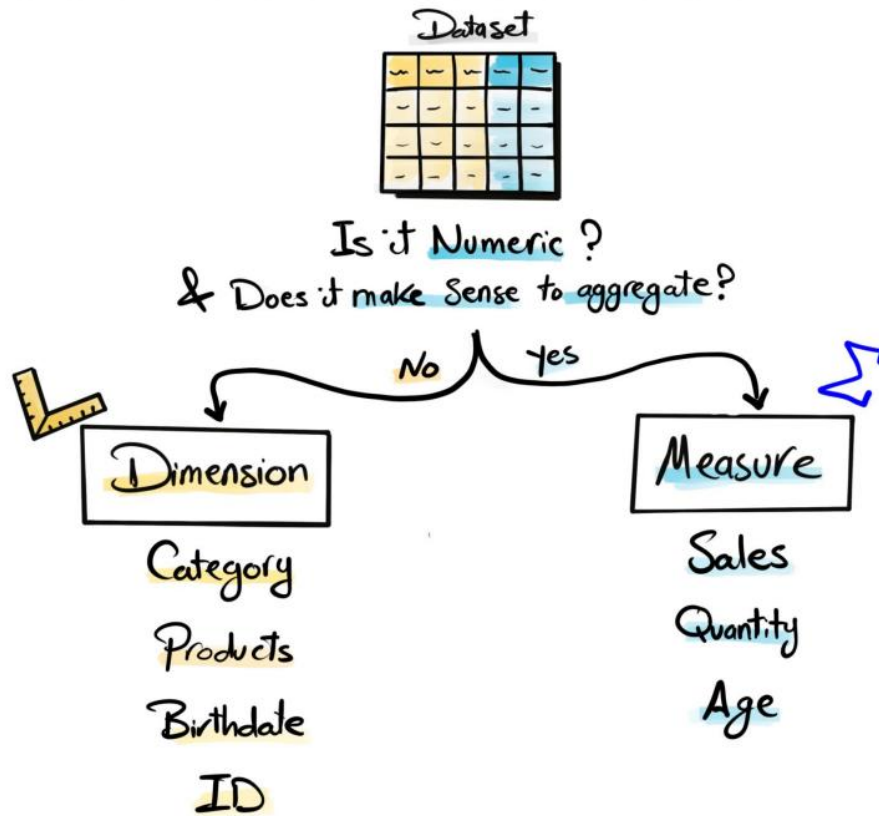


SNOWFLAKE SCHEMA









A	C
B	D

Dimensions Exploration

DISTINCT [Dimension]

DISTINCT Country

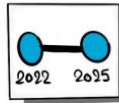
DISTINCT Category

DISTINCT Product

⋮
A
B
B
C
A
B
C
A
⋮

⇒

A
B
C



Date Exploration

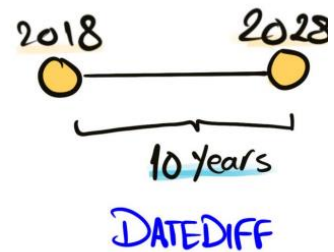
MIN/MAX [Date Dimension]

MIN Order_date

MAX Create_date

MIN Birthdate

2019
2020
2018
2018
2021
2023
2023
2023
2022



999

Measures Exploration

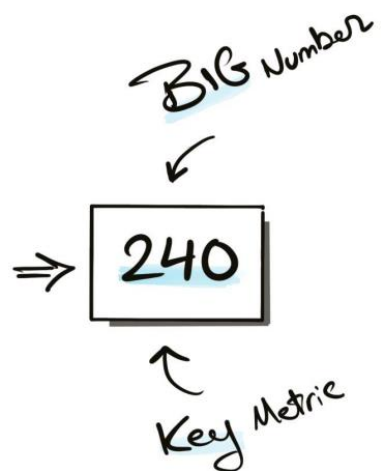
Σ [Measure]

SUM (Sales)

AVG (Price)

SUM (Quantity)

10
20
50
30
10
80
30
10





Magnitude

Σ [Measure] By [Dimension]

Total Sales By Country

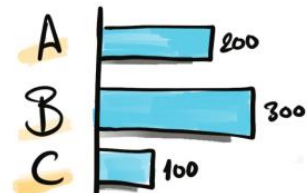
Total Quantity By Category

Average Price By Product

Total Orders By Customer

600

A	200
B	300
C	100



Change-Over-Time

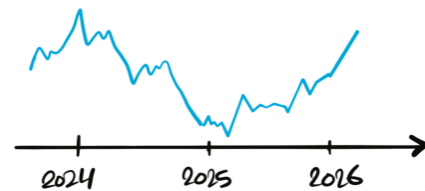
Trends

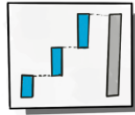
Σ [Measure] By [Date Dimension]

Total Sales By Year

Average Cost By Month

2024	300
2025	100
2026	200





Cumulative Analysis

Σ [Cumulative Measure] By [Date Dimension]

Running Total Sales By Year

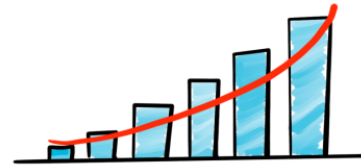
Moving Average of Sales By Month

Cumulative
↓

2024	300	300
2025	100	400
2026	200	600

(Note: Red arrows in the original image show the cumulative calculation: 300 for 2024, 300+100=400 for 2025, and 400+200=600 for 2026.)

WINDOW FUNCTIONS



Performance Analysis

Current [Measure] - Target [Measure]

Current Sales - Average Sales

Current Year Sales - Previous Year Sales

Current Sales - lowest Sales

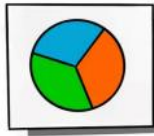
Current
↓
 Target (Avg)
↓
 Performance
↓

A	200	200	0
B	300	200	100
C	100	200	-100

(Note: Red minus signs are shown between Current and Target in the original image.)



WINDOW FUNCTIONS



Part-to-Whole

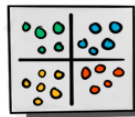
Proportional Analysis

$$([Measure] / Total [Measure]) * 100 \text{ By } [Dimension]$$

$$(Sales / Total Sales) * 100 \text{ By Category}$$

$$(Quantity / Total Quantity) * 100 \text{ By Country}$$

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



Data Segmentation

[Measure] By [Measure]
 Total Products By Sales Range
 Total Customers By Age

3	50		
4	100	Low	7
5	150	Medium	6
1	200	Large	15
10	250		
5	300		



CASE WHEN STATEMENT

