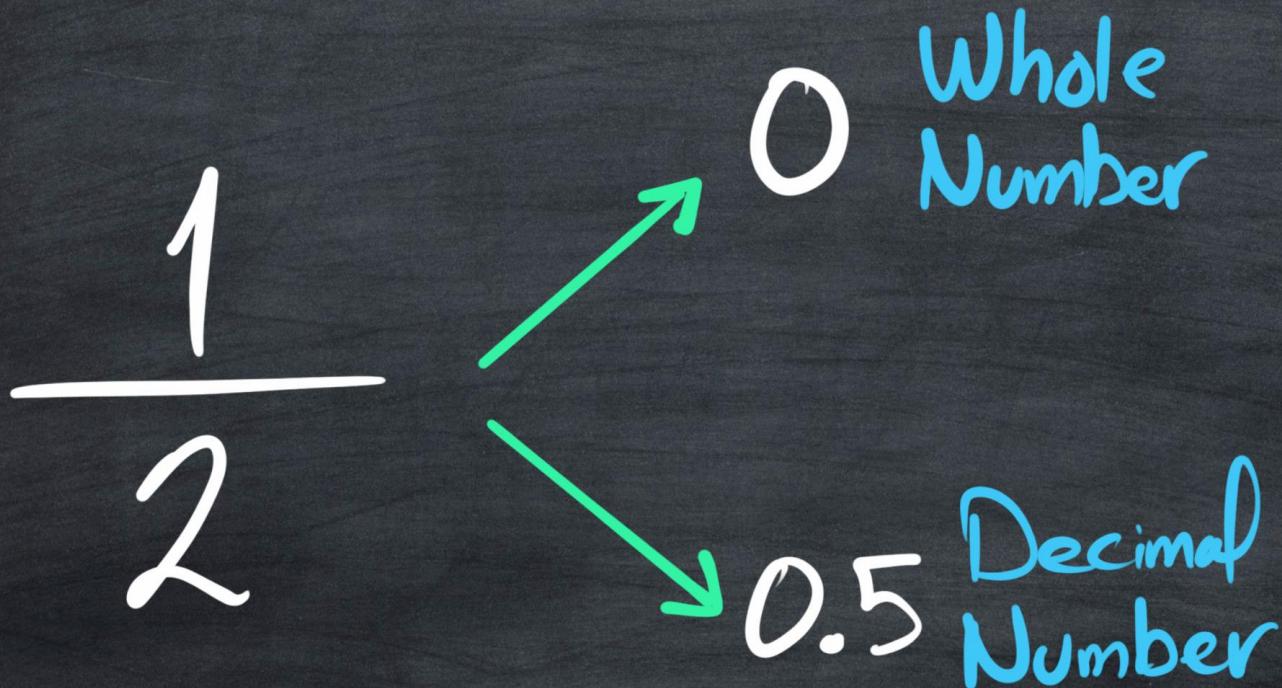




#





Abc

A B x ≤ 1 3 5 \$ ?

White  
Space



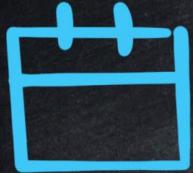


Abc

A B x ≤ 1 3 5 \$ ?

White  
Space



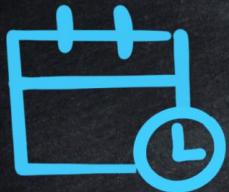


DATE

2025 - 08 - 20  
Y Y Y Y - M M - d d

DATE FORMAT





DATE

2025 - 08 - 20  
Y Y Y Y - M M - d d

DATE FORMAT

TIME

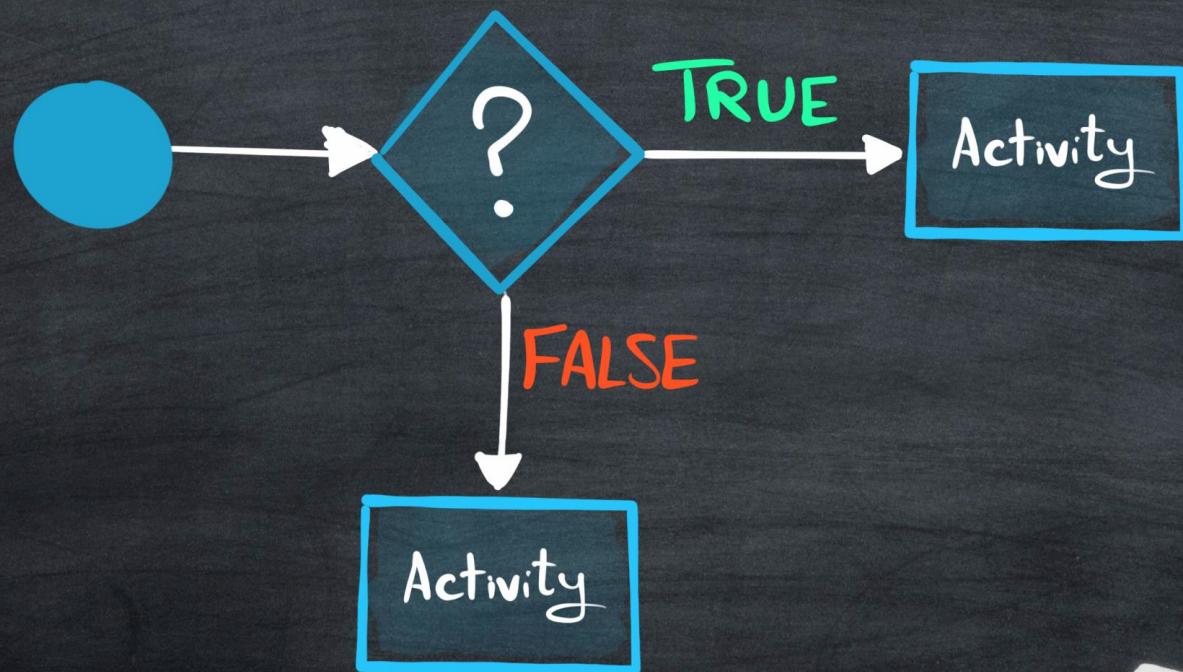
18 : 48 : 53  
H H : M M : S S

TIME FORMAT





T|F

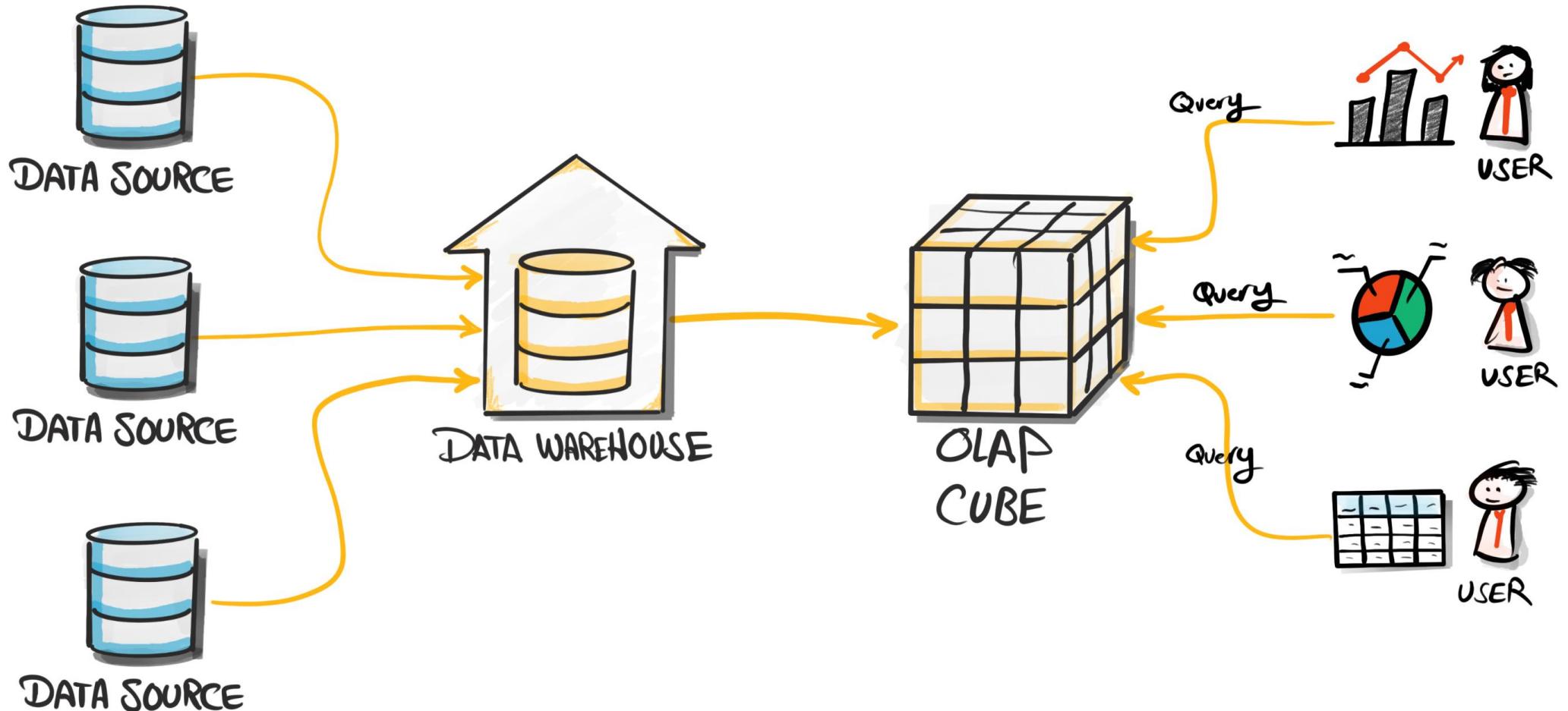


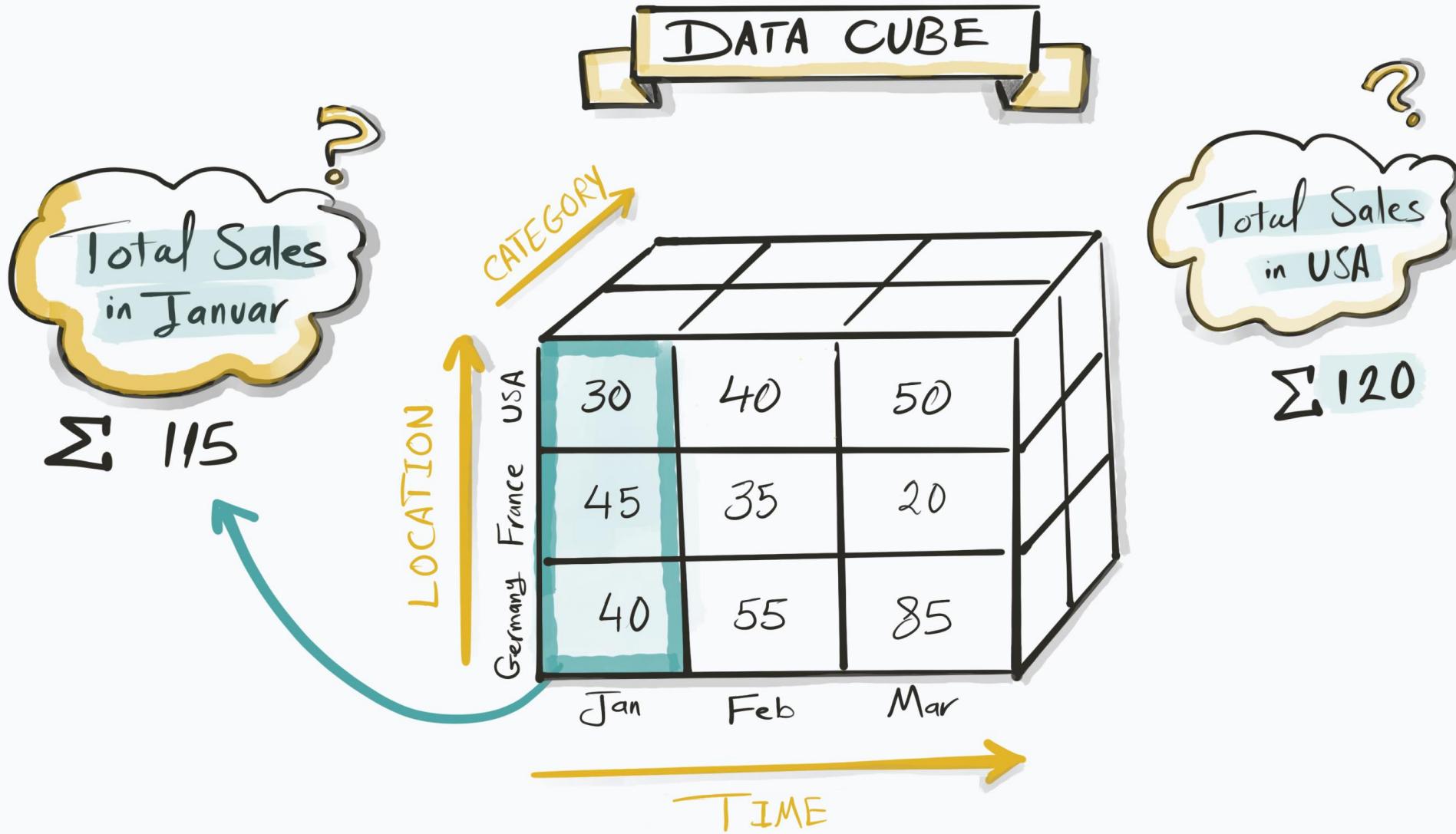


+ a b | e a u

# Online Analytical Processing (OLAP)

DATA WITH BARAA







Is Data Type = Number?

YES

NO

Does it make sense  
to aggregate?

Dimension

YES

NO

MEASURE

Dimension



tableau

Definition

Example

Aggregation

Data Types

Role of Analysis

Granularity

## Dimensions

Descriptive Values

Category, Country, ID

Can Not be aggregated

[String, Date, Boolean, Number]  
Abe □ TIF #

Filtering, Grouping, Organising Data

LOD: Level of Details

## Measures

Quantitative Values

Sales, Profit, Quantity

Aggregate [SUM, AVG, MIN, MAX]

[Number]  
#

Calculations & Numerical Analysis

Determine Quantity being Measured



## Discrete

11 Values

0
1
2
3
4
5
6
7
8
9
10

## Continous

$\infty$  Values

1
1.11
1.12
1.13
1.14
1.15
.
.
.
2





## Discrete

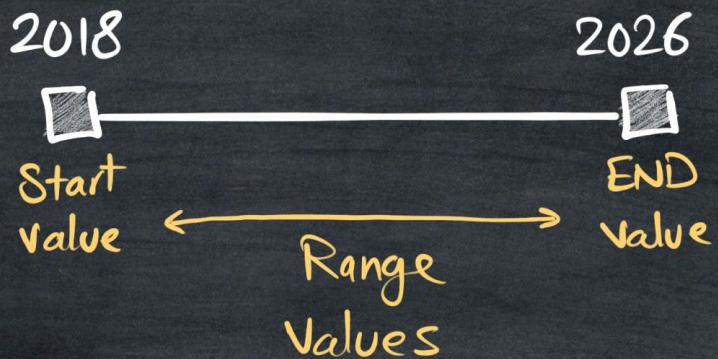
### Filter-Category

- All
- Art
- Copiers
- Storage
- Tables
- ...

Distinct  
Values

## Continuous

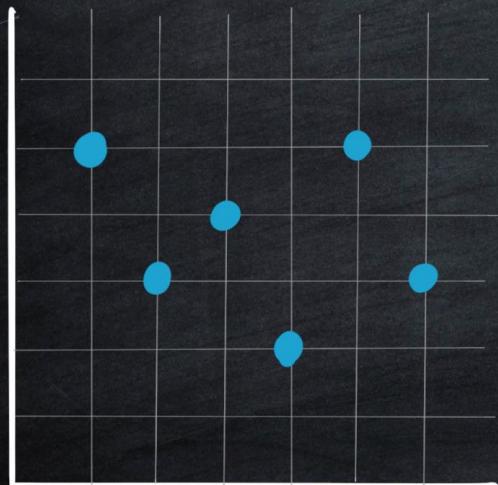
### Filter-Date





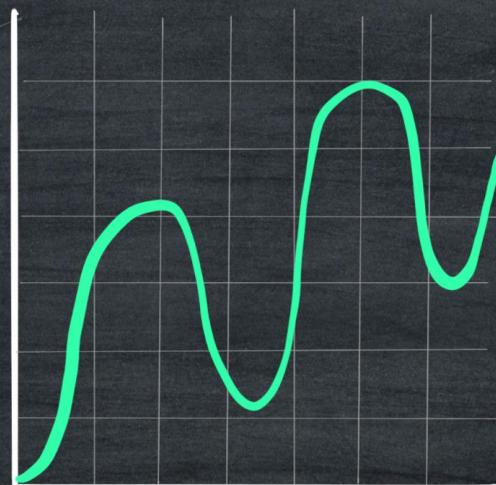
## Discrete

Disconnected & Separated  
Values



## Continuous

Connected & unbroken chain  
of Values





## Discrete

Many Sorting options

- Ascending
- Descending
- Data Source order
- Alphabetic
- Field
- Manual
- Nested

## Continous

Limited Sorting Options

- Ascending
- Descending





Discrete

Continuous

Purpose:

Deep Dive Analysis



Purpose:

Big Picture Analysis





tableau

Definition

Example

Colors

Filters

Views

Sorting

Purpose

Discrete

Disconnected values



[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Blue Pill



Distinct values



Header

Many sorting options

Specific Scenario | Deep Dive

Continuous

Connected values



Green Pill



Range value



Axis

Limited Sorting Options

Big Picture | Trends Analysis

