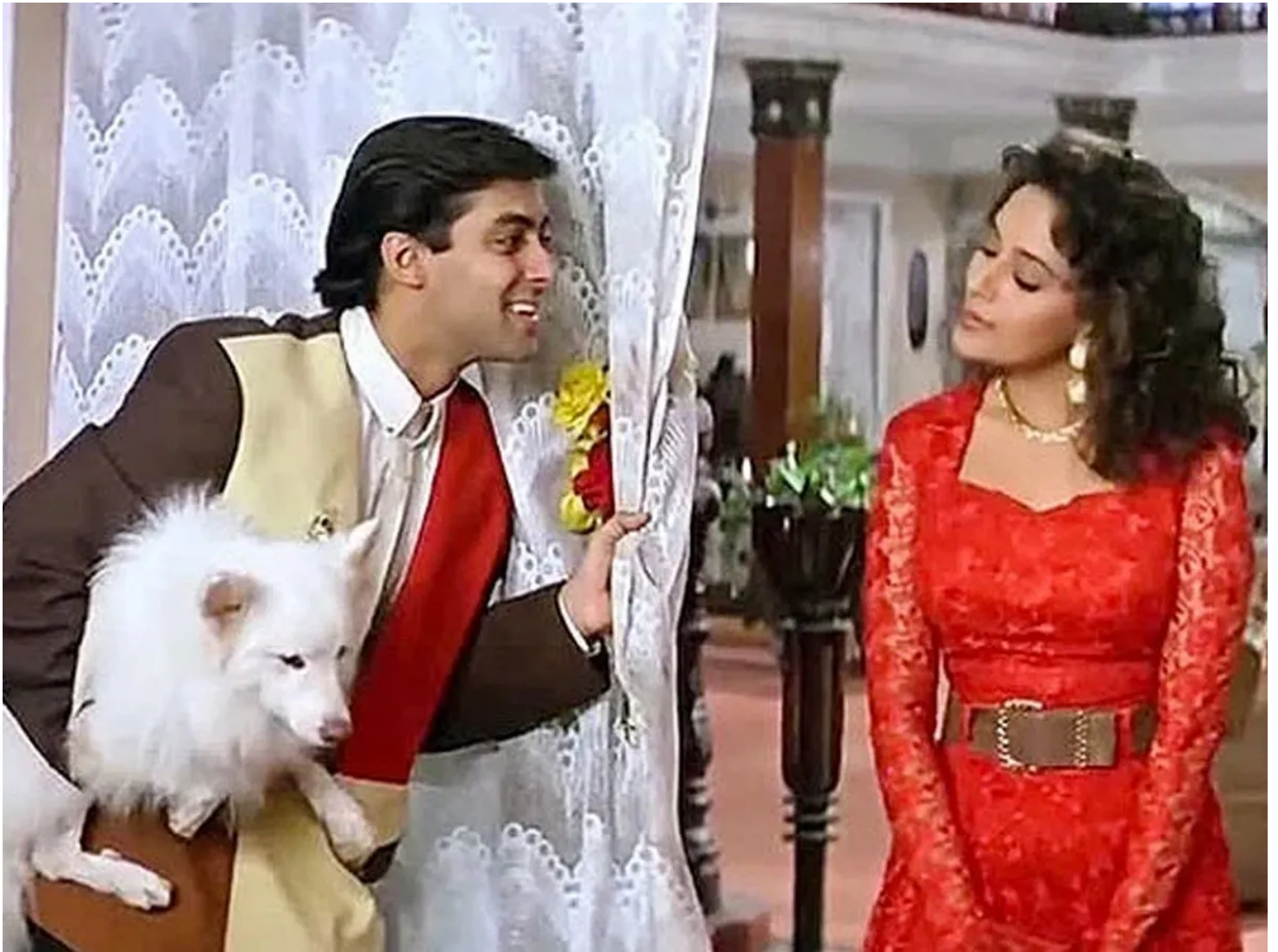**Tab: Filters and Calculations|Lecture**

Agenda
- Charts
  - Stacked Bar chart
  - Scatter plot
  - Tree map
  - Combined-axis chart
  - Dual-axis chart
- Filters
  - Types of Filter
    - Extract
    - Data Source
    - Context
  - Order of Filters
- Calculations
  - Calculated Fields
  - Operators
  - Functions
  - Types of Calculation
    - Row-level
    - Aggregate-level

Display total sales for each category by region.

Anil

$$M = Sales \quad Y$$

$$D = Category, \quad X$$

$$Region$$

Find order id that has the highest sales and highest profit values.

An.2 $M = $ Sales, Profit $= Y$

$D = $ order id $= X$

Business problem 3:

●   Find the sub-category that has the highest sales and highest profit.

An.3 $M = $ Sales, profit $= Y$

$D = $ Sub Category $= X$

Compare sales and profit for each category in a single plot.

An.4 M = S, P
      D = C

Filters   (deepage)
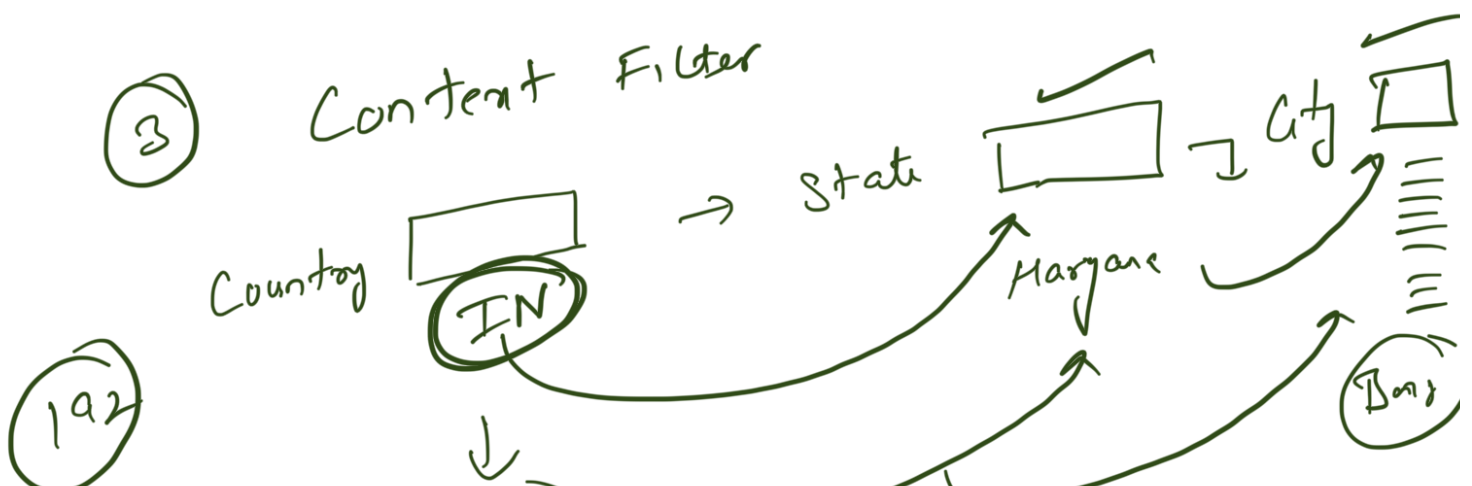

① Rebuild ✓
② Dr frit
③ well papers
④ Tiles
⑤ Panels

* ① Extract Filter
  ② Data Source filter

Show orders which made profit >= 1K.

③ Content Filter

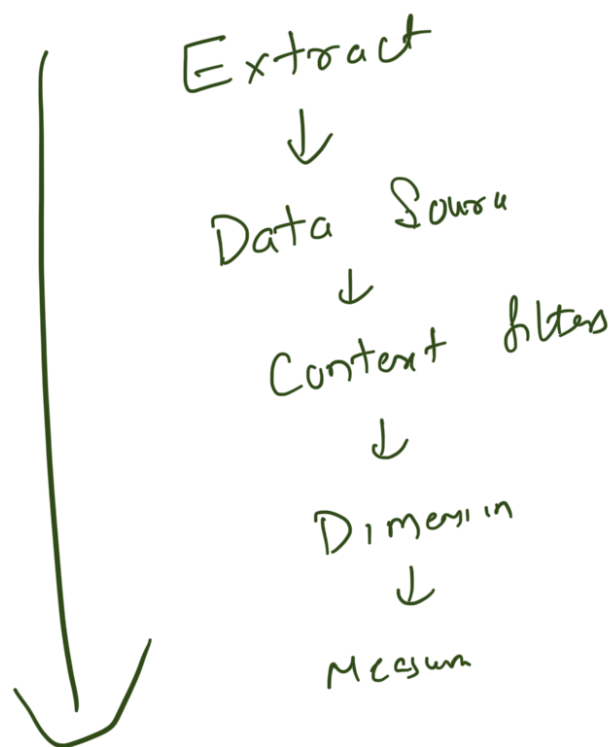Country [IN] → State [ ] ⌐ City [ ]
                              Haryane
192   Bony

(Fr)

→ Show me top 10 states in the west
region with highest Sals?

(4) Dimension Filter

(5) Measure Filter

Extract
↓
Data Source
↓
Content filters
↓
Dimension
↓
Measure

Find average cost of each product sub-categories.

An.10   M = Cost = Y

D = Subcategory = X

9. fit

$$\text{Cost} = \text{Sales} - \text{Profit}$$

Find profit ratio of each product sub categories

Ans. 8   M = Profit ratio   =   Y

D = Sub Category   =   X

$$\text{Profit ratio} = \left(\frac{\text{Sum}(\text{Profit})}{\text{Sum}(\text{Sales})}\right) \times 100$$