Tab: Table calculation and analytics & Operations on Dataset|Lecture

Agenda
- Table Calculations
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    - Table Calculation types
    - Quick Table Calculation
- Tableau Functions
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- Join
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- Relationship
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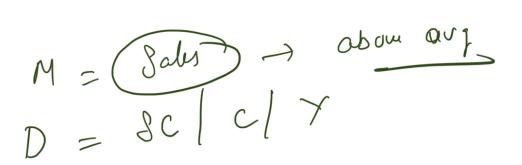# Table Calculation

↳ are a Special type of
  [Calculated field] within
  tableau that apply transformation
  on values.

↳ Scope : boundaries within
  which a given table
  Calculation can references
  other values.

↳ Direction :- how the table
  Calculation moves within
  a Scope.

Find percentage of total sales done across different categories for each quarter of the given year.

⇒   2017 → Q1 → Furniture = 19.26%

Business problem:
Find the sub-categories with above-average sales for each category and year.

$$M = \boxed{Sales} \rightarrow \text{above avg}$$
$$D = SC \mid C \mid Y$$

Business problem:

Determine the year wise trend in sales.

Business problem:

Find the CO2 (kt) and CO2 per capita for each country and filter top 10 countries by CO2 (kt).

Business problem:

Identify the sub-categories that made the highest and lowest sales.

Relationship	Join
→ Defined b/w logical tables	→ Defined between physical tables.
→ Don't require to define a 'join type. (left)	→ Require 'join planning and 'join type
→ Rows are not duplicate	→ merged table can result in duplication
→ Act like containers for tables that are 'joins or union.	→ Are merged into logical table.

Union

Join ⇒ | T1 | + | T2 |

| T1 |

| T2 |