

## Power BI youtube course

### Query editor:

- clean up messy data.
  - remove rows and columns.
  - first row as headers.
  - filter rows from column.
  - 'unpivot' to change columns to rows
- |       |     |     |
|-------|-----|-----|
| Prod  | Oct | Nov |
| shirt | 100 | 200 |
| Top   | 11  | 10  |
- =>
- |       |      |      |
|-------|------|------|
| Prod  | Date | attr |
| shirt | Oct  | 100  |
| shirt | Nov  | 200  |
| Top   | Oct  | 11   |
| Top   | Nov  | 10   |
- change data types

## Power BI: you build models, NOT Reports

### model: (tab)

- Lookup tables := smaller, unique id's to be referred to in data table.
- data tables
- Relations go from Lookup to data table (one to many).
- In excel you would Vlookup from data table to Lookup table.
- Calendar table (Lookup) is one of the most useful / powerful tables in Power BI.
  - See video link in desc to build one

### Building visualisations

- filter on page level.
- modeling -> sort by column -> month number
  - to sort on month rather than alphabet.
- visualization: get category from lookup table, get data/measure from data table.
- NEVER use implicit measures, only, explicit (define measures)
  - contained in data tables.
- explicit measures are better
  - control
  - reuse
  - connected reports.

②

## Building visualizations (2)

- ↳ create new columns: prefix cols with table names
  - ↳ Sales [col]
- ↳ measures vs calculated columns
  - ↳ measures have no build in row context.
- ↳ DAX
  - ↳ shift + enter for new row
  - ↳ see power BI website for DAX developer shortcuts.
- ↳ avoid adding columns (could slow it down)
  - ↳ try using measures.

## 3) Reports & dashboard

- ↳ Reports
  - ↳ managers can build their own reports from model
    - ↳ Datasets → actions → rth\*
  - ↳ create excel reports
    - ↳ Actions → analyze in excel
    - ↳ related to single model (real time)
- ↳ dashboards
  - ↳ publish report as dashboard
    - ↳ hover over element → pin → create dashboard.
  - ↳ give snapshot of report
    - ↳ mobile

## Summary:

↳ build models, Not reports!

↳ Lookup tables:

↳ Data tables:



↳ keep this structure in 'modeling' section.

↳ define measures when you can

↳ contained in data tables (define once!!)

↳ use query editor for data cleaning & processing, type parsing

↳ use some standard lookup tables: = calendars.

↳ Do not use implicit measures (directly from column)  
use explicit measures => create measure manually.

↳ for clear DAX functions, use short keys (using formula editor)

↳ shift enter for new row (should see row nr's in functions)

↳ [docs.microsoft.com/nl-nl/power-bi/transform-model/desktop-formula-editor](https://docs.microsoft.com/nl-nl/power-bi/transform-model/desktop-formula-editor)

↳ Managers can create own reports from published datasets.

↳ powerbi

↳ excel

↳ Developers can publish reports as dashboard to create a high level view, very nice for mobile devices.