

Data Cleansing & Combining



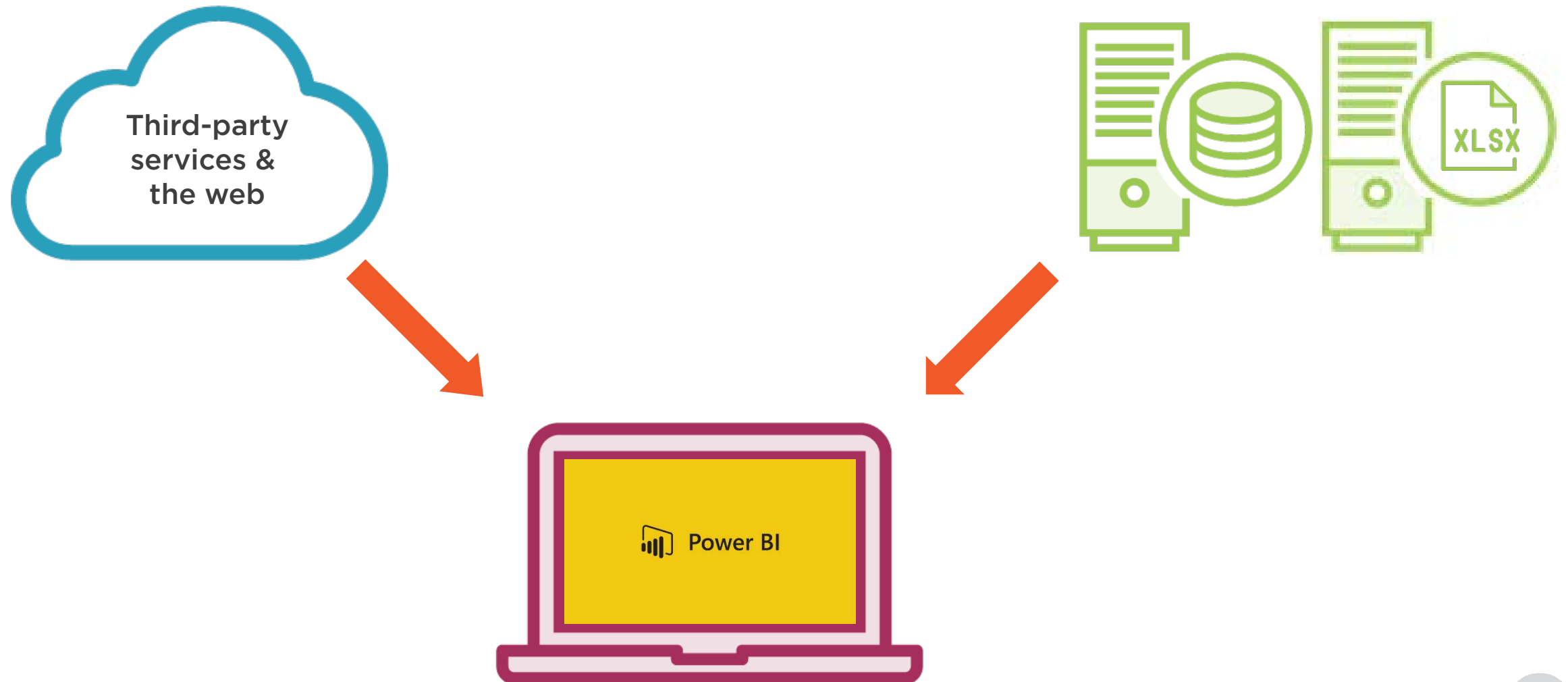
Ben Howard

TECHNICAL SPECIALIST

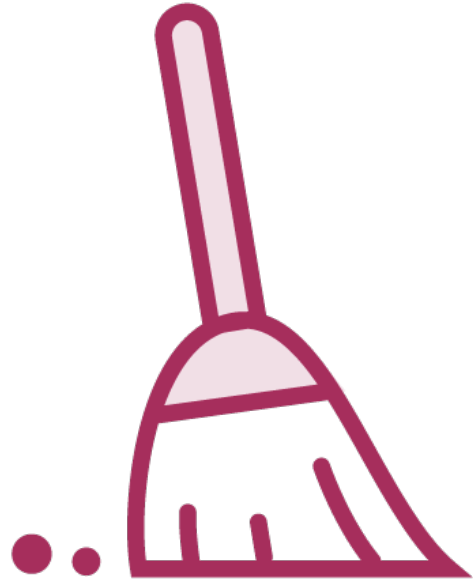
@ben_project www.applepark.co.uk



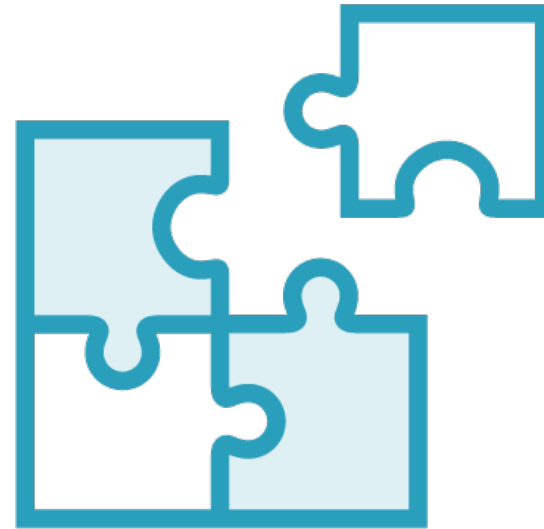
Power BI Desktop



The Power BI Query Editor

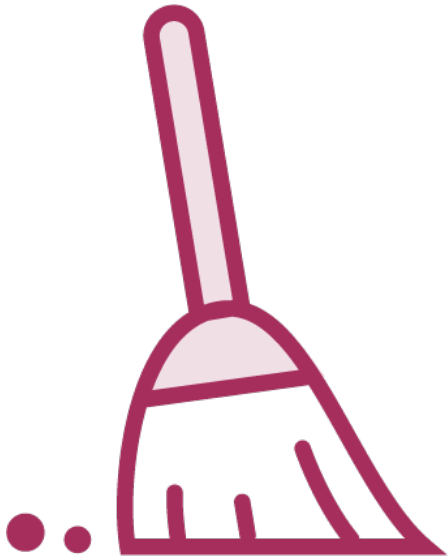


Cleanse



Combine

Data Cleansing



Unlikely that any data is a perfect fit for our needs

- Other people have created it to suit their needs
- Inherent errors
- Too much data
- ...

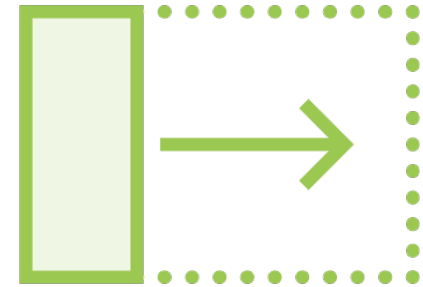
Data Cleansing



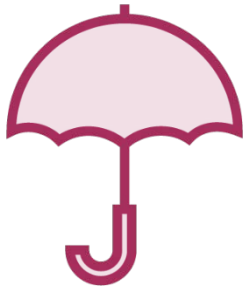
Step 1 – Delete columns



Step 2 – Filter rows



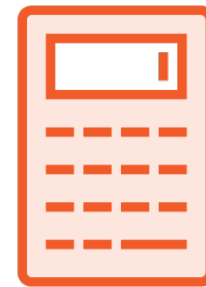
Step 3 – Split columns



Step 4 – Group



Step 5 - Sort



Step 6 – Custom calculation



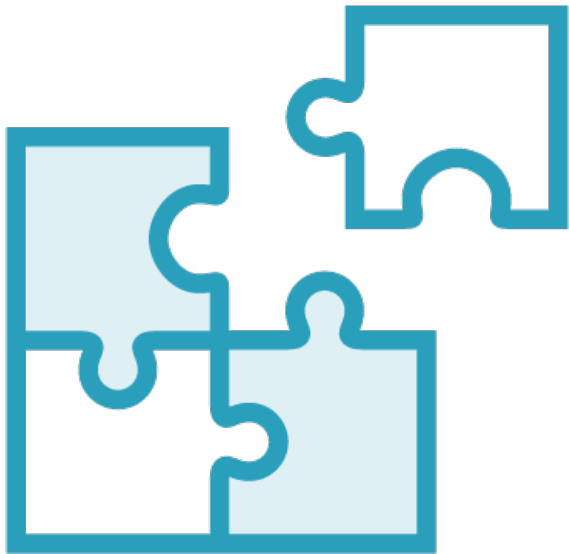
Demo



Data Cleansing in Power BI using the Query Editor



Data Combining



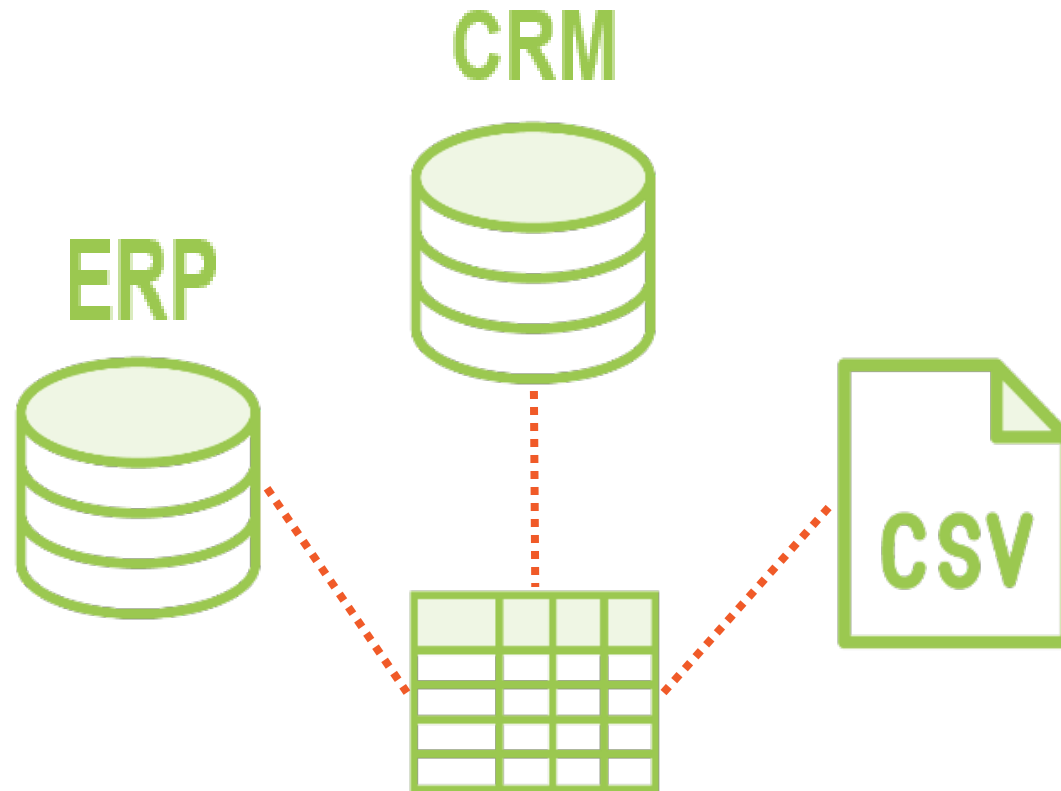
Incremental files – append queries

- Monthly sales figures
- Incremental production figures

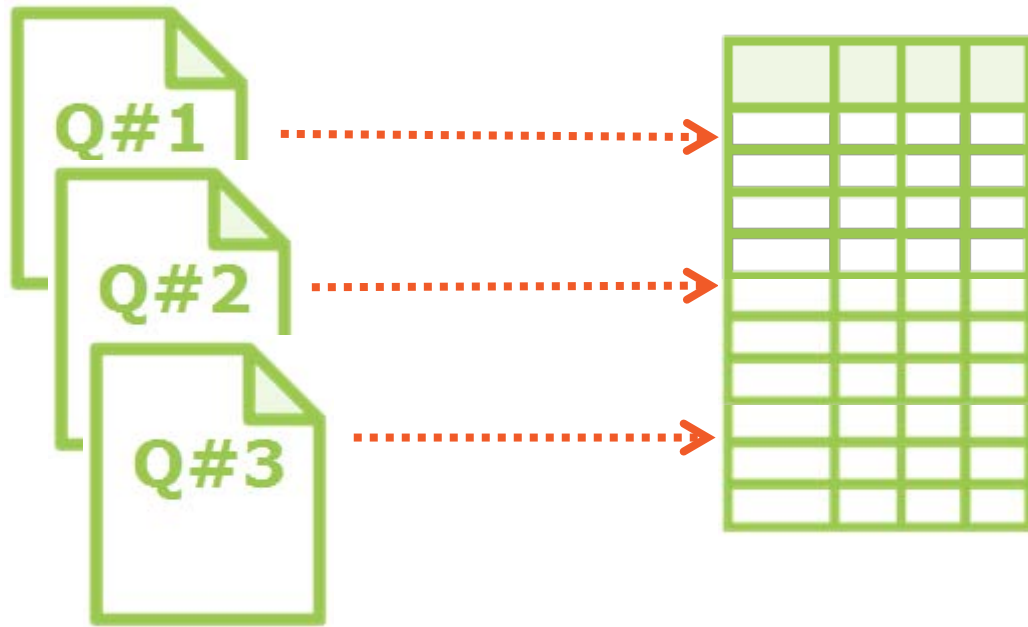
Data from different sources – merge queries

- Customer data from online CRM system
- Sales orders from sales system
- Public data from government / web / public sources

Why Do We Need to Combine Queries?

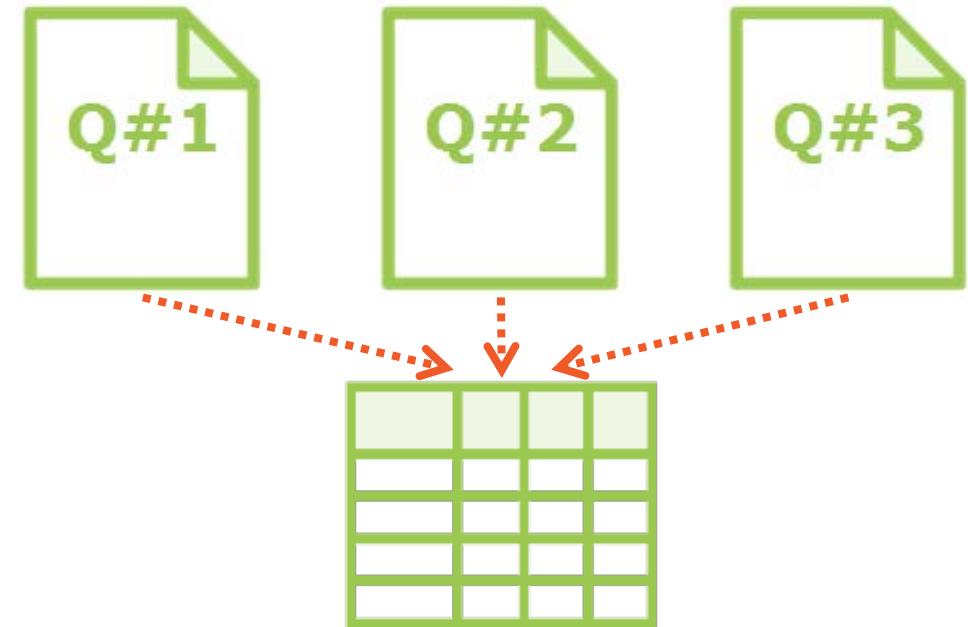


Append vs. Merge



Append Queries

Data tends to be the same shape



Merge Queries

Data is combined using a matched column

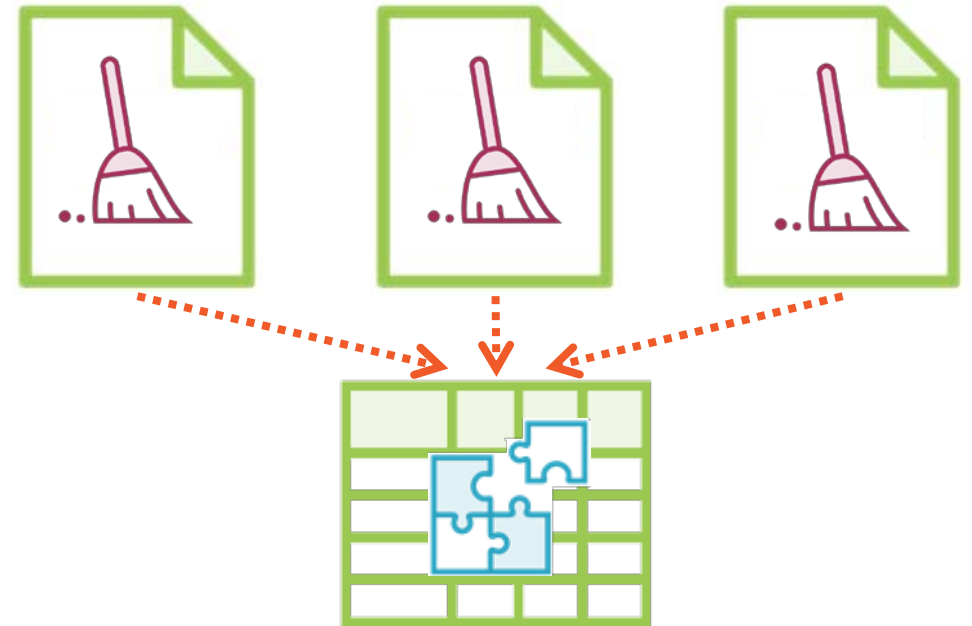
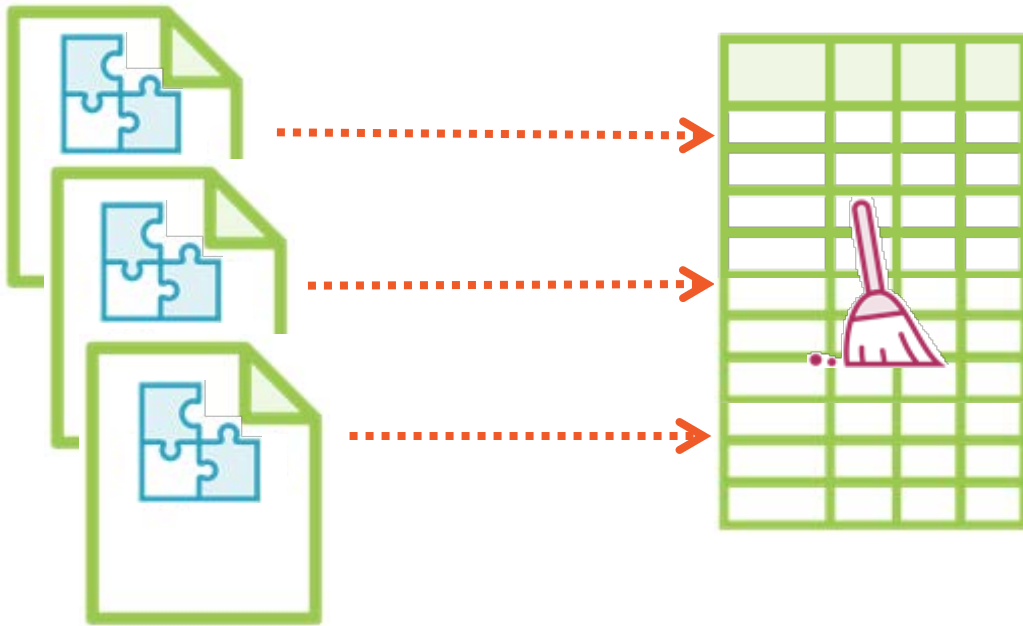
Demo



Data Combining in Power BI using the Query Editor



To Combine & Cleanse, or Cleanse & Combine?

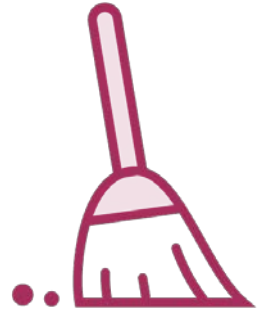


Summary



Data Cleansing

- Resolve any errors
- Remove some items
- Begin to “shape the data” to suit our needs



Data Combining

- Append data of the same format
- Merge data of disparate formats
- Further need to “Shape the data” to suit our needs

