Data source settings

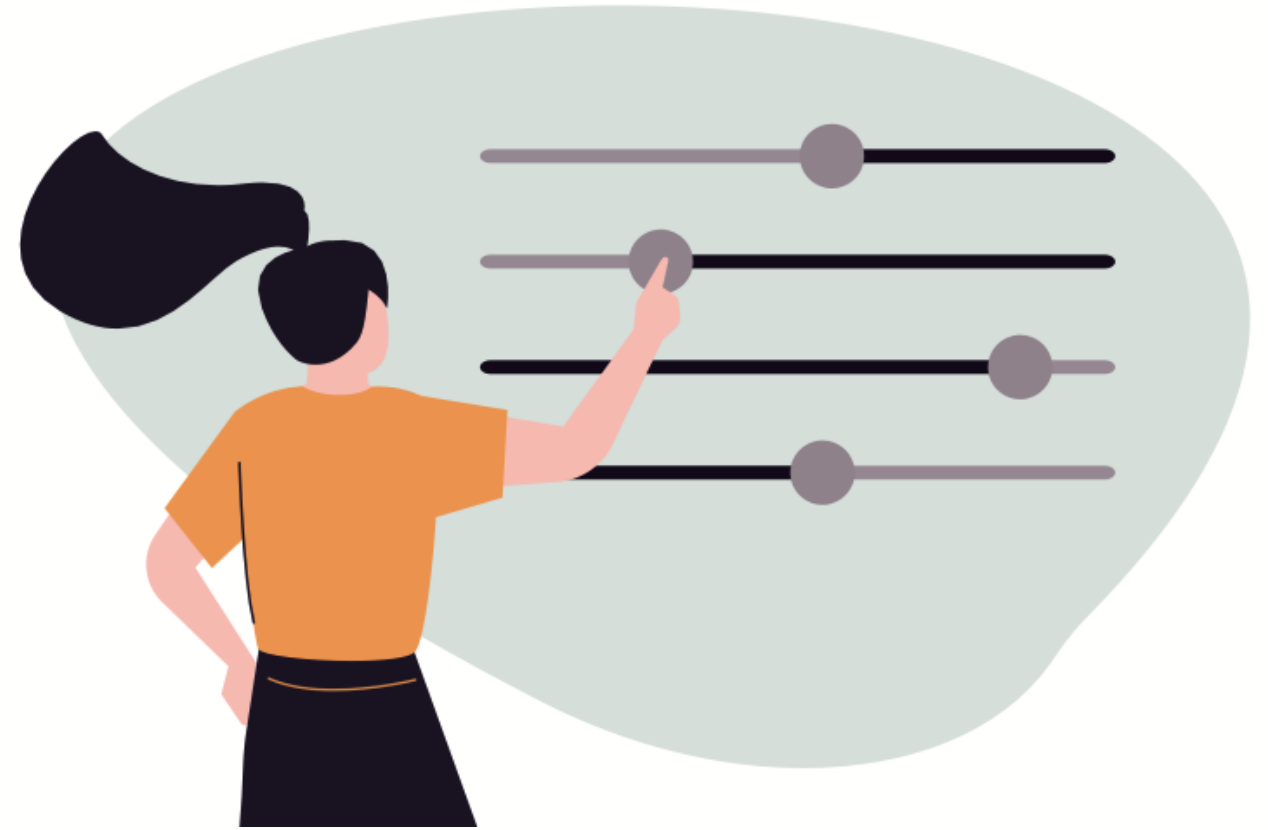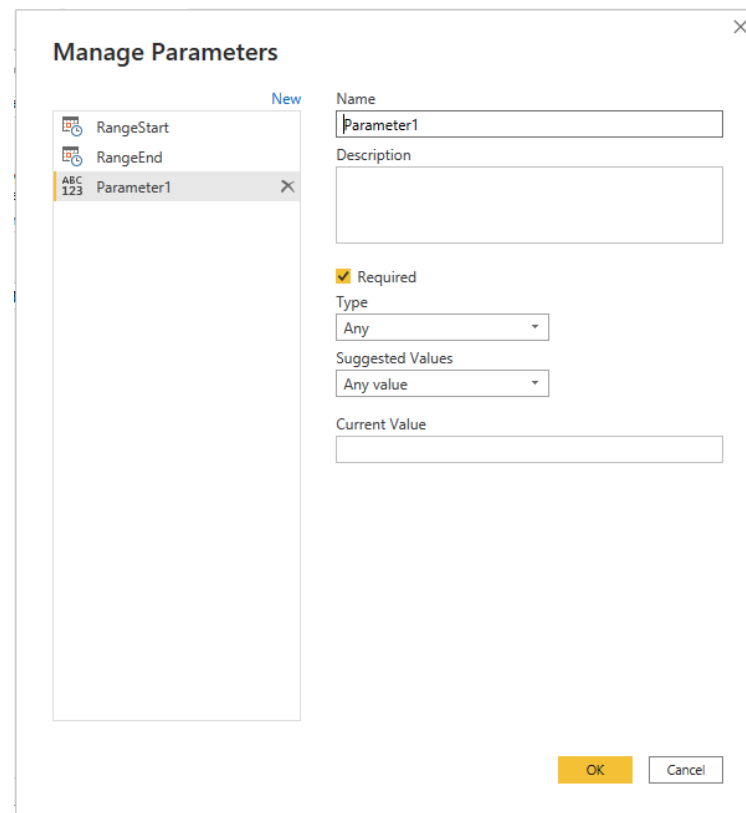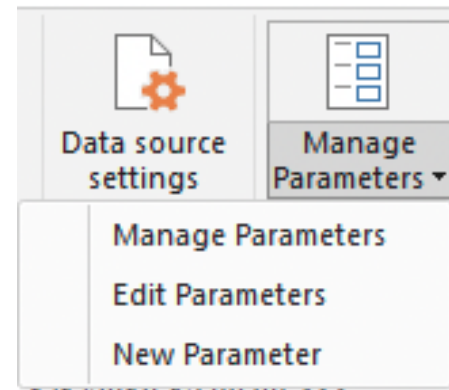## DATA CONNECTIONS IN POWER BI

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Parameters

- Provide users the ability to store and manage values

- Useful for creating dynamic report environments

- Common uses include:
    - Filtering purposes
    - Inputs in custom functions
    - Changing data source functions

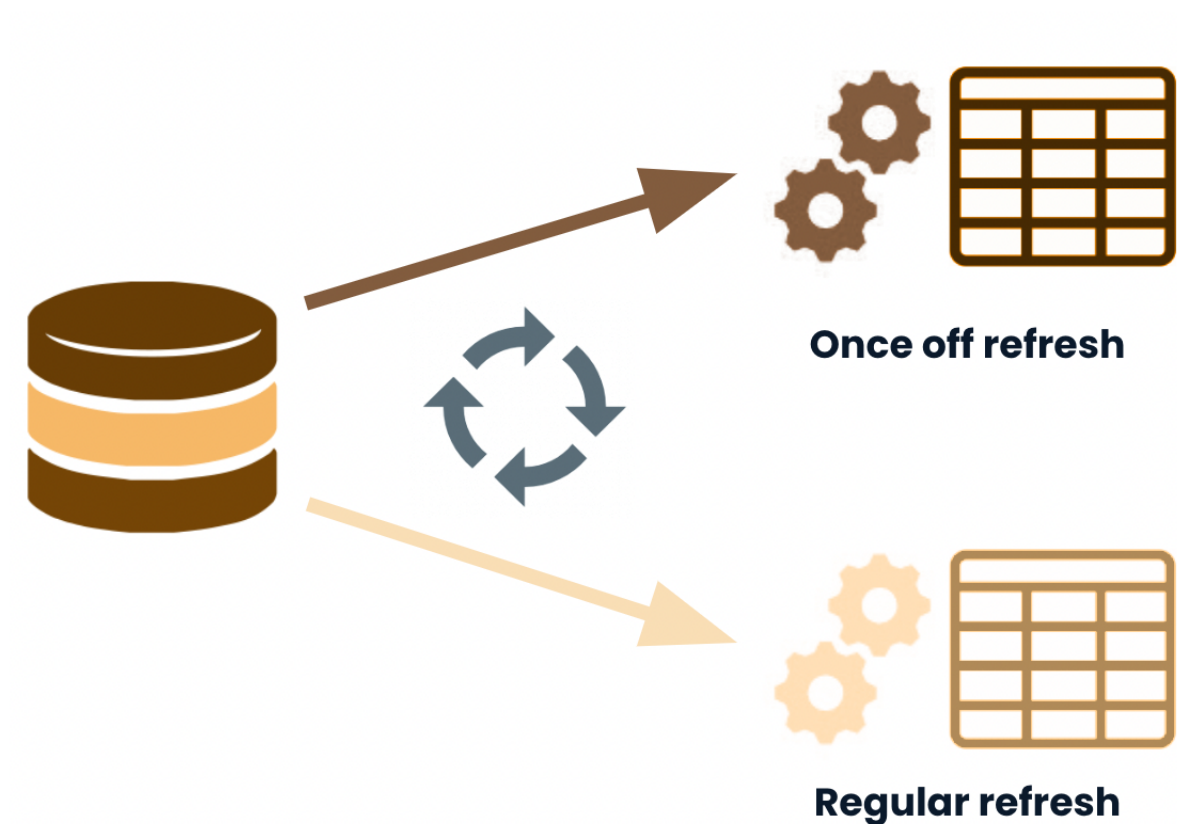- Created and managed in Power Query Editor
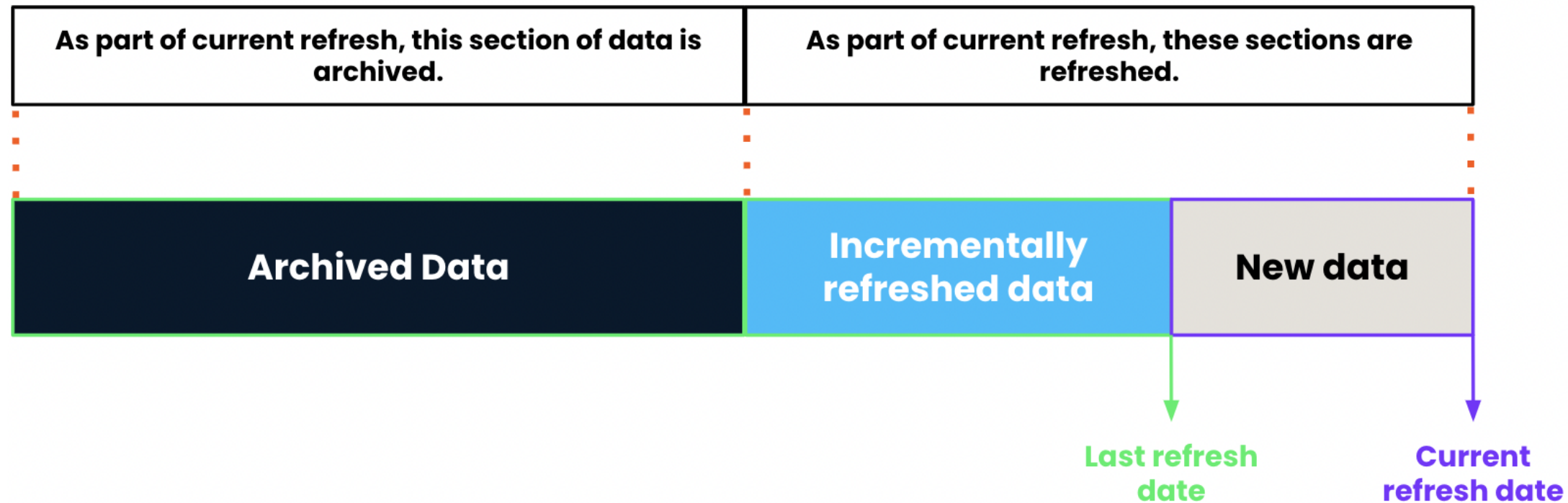
Parameters

- Properties that can be set include:
  - Name

  - Value

  - Type

- Data connection uses of parameters:
  - Dynamic connections with changeable servers and databases

  - Incremental refreshes

Incremental refresh

- Partial refresh of data model created in Power BI

- Used when dealing with very large datasets or historical data

- Advantages of incremental refresh:
  - Lower refresh times
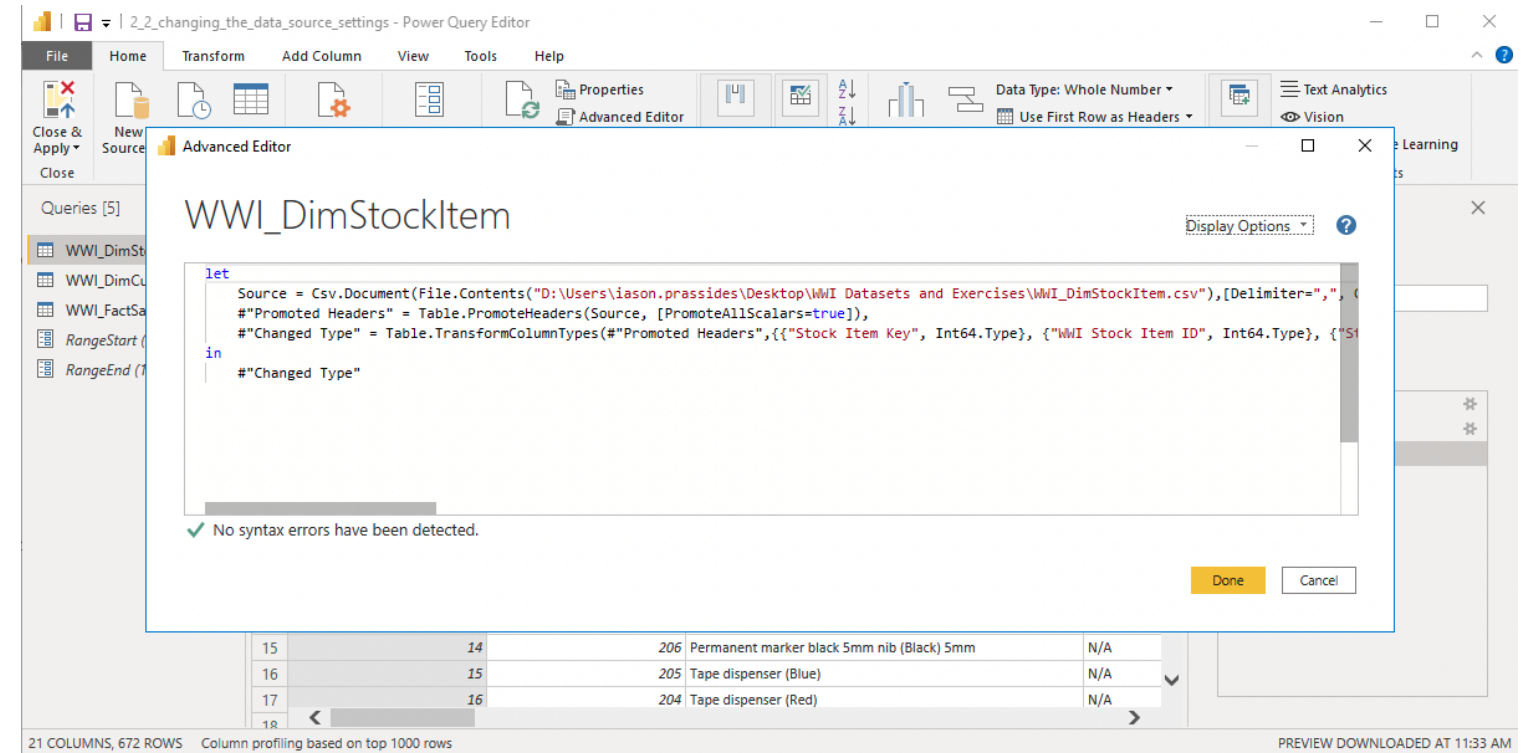 - Less database resources consumed

Incremental refresh

As part of current refresh, this section of data is archived.	As part of current refresh, these sections are refreshed.

Archived Data	Incrementally refreshed data	New data

Last refresh date — Current refresh date

- Upon new refresh, data is either archived, refreshed, or added

- Require parameters for dynamic querying of our data sources

- Access to Power BI Service through relevant account types

- Ensure data gateways have been setup for data sources connections

M Language

- Fixing errors in data connections

- M Language is the code used within Power Query Editor

- Useful for working with data connections during the data import stage

- Code is case-sensitive

- Library of standard functions available

Row-level security

- Row-level security (RLS) can be tailored for different user groups

- Applied on tables within the data model after the import process

- Filters data based on defined DAX rules

- RLS created in Power BI Desktop, and take effect in Power BI Service

Let's practice!

DATA CONNECTIONS IN POWER BI

Parameters and incremental refresh

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Let's practice!

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Discovering M Language

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Congratulations

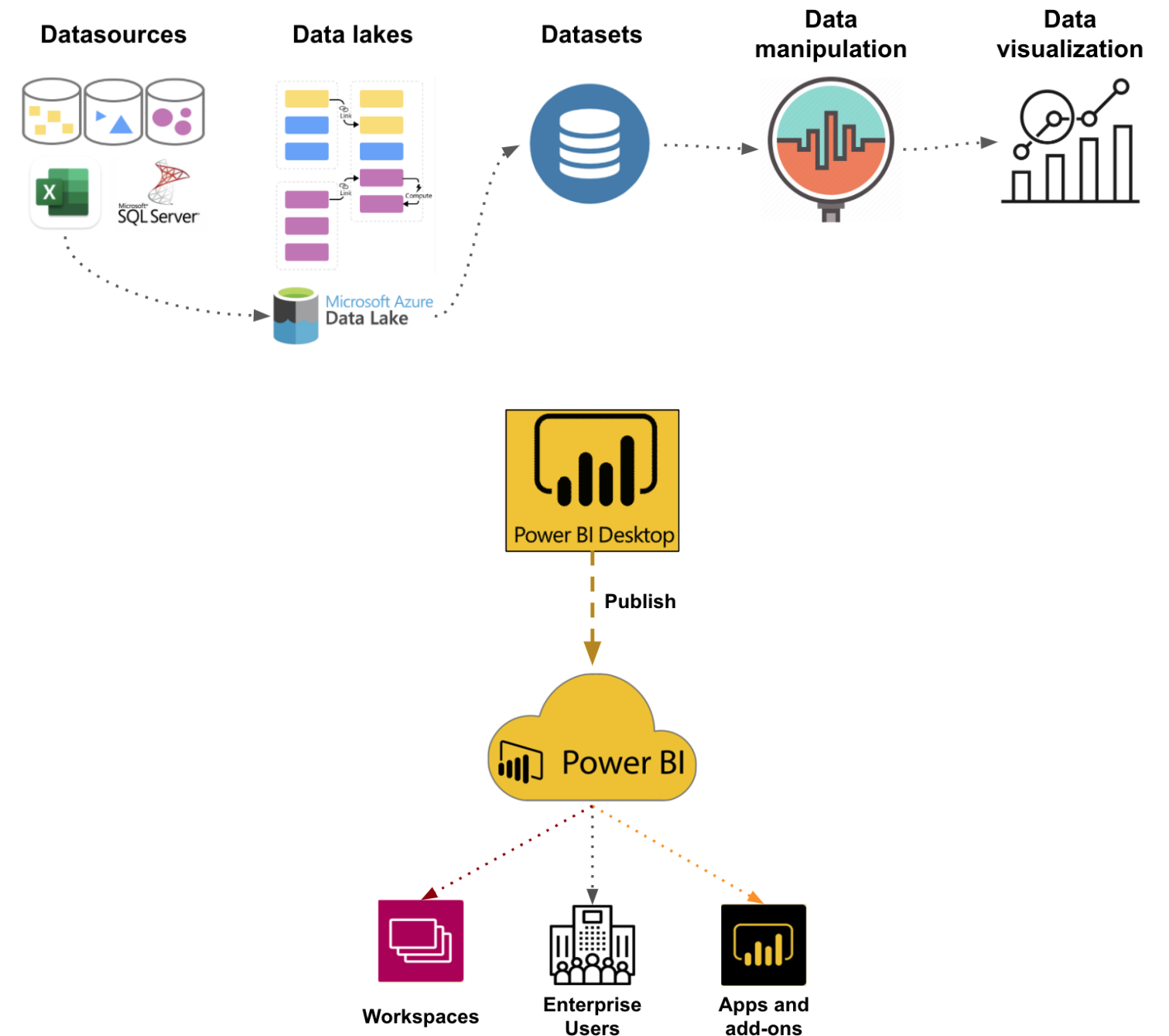## DATA CONNECTIONS IN POWER BI

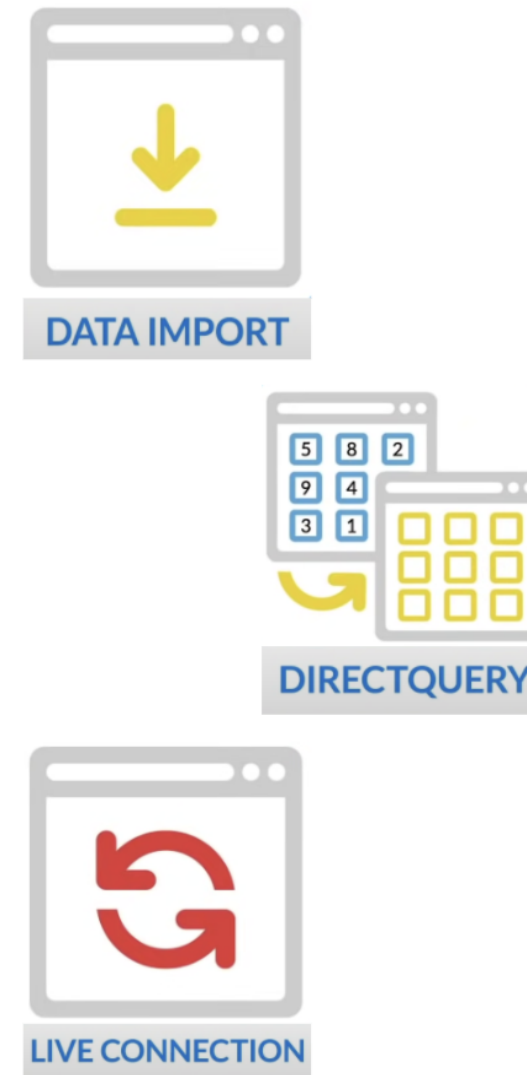**Iason Prassides**
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Chapter 1: Data Connections in Power BI

- What data means to businesses

- Data flow processes

- Power BI Service data features

- Fundamental data connection features in Power BI Desktop
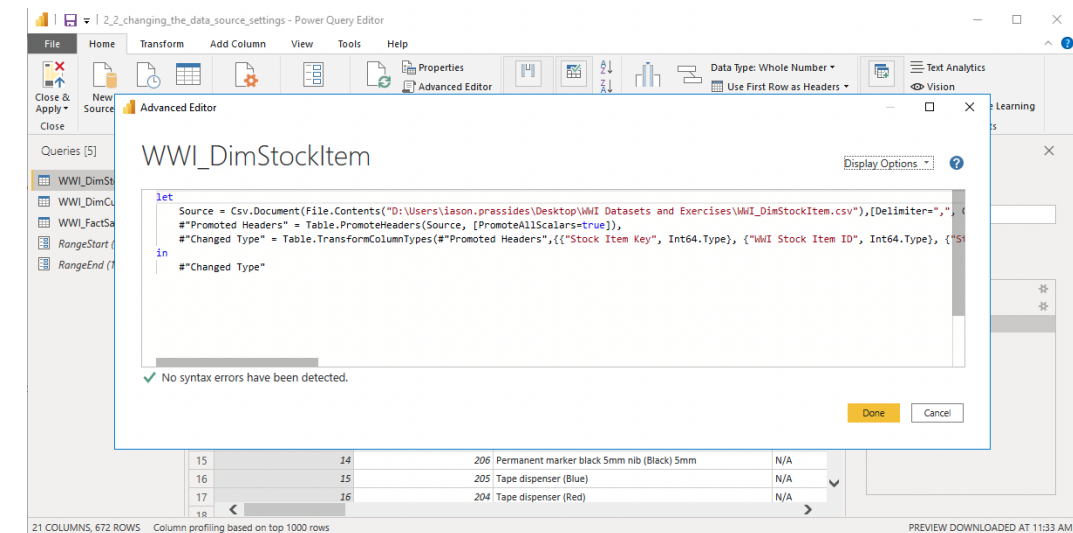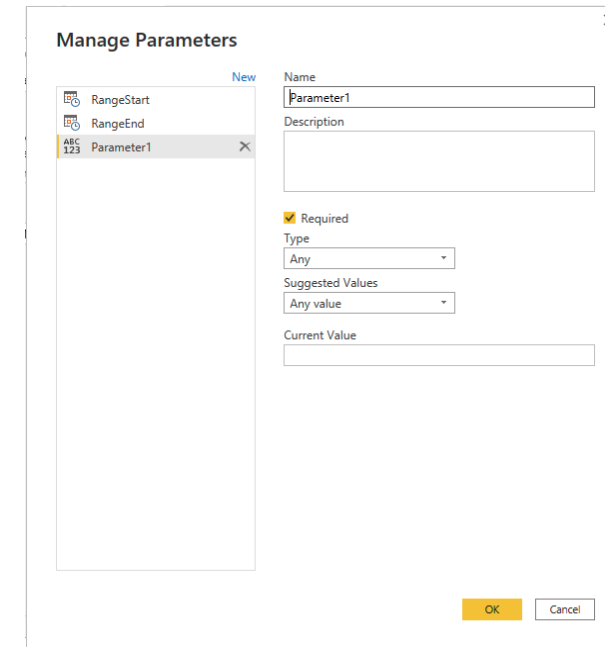
- Power BI Service introduction

Chapter 2: Databases and More

- Storage modes in Power BI

- Different database connections

- Connection to an ODBC source

DATA IMPORT

DIRECTQUERY

LIVE CONNECTION

Chapter 3: Further Data Source Settings

- Parameters

- Incremental refresh

- M Language and Advanced Editor

Congratulations!

DATA CONNECTIONS IN POWER BI

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