

DataWarehousePro™ Connectivity

DataWarehousePro Power Query M from Microsoft's Excel

Beta version

For release on 20 October 2020, 12:00:00 UTC

Release statements

DataWarehousePro™ (DWP) introduces a new remote API functionality and releases it for public testing. This document details the command syntax for querying DWP databases, and examples for establishing dynamic links in MS Excel data spreadsheets.

Power Query M

Microsoft Excel uses Power Query M form syntax to execute an http POST request to connect to an external database and import data.

```
let
    Url      = "https://app.datawarehousepro.com/guest/export/Account",
    record   = [json="{\"DataBank\": [\"Mnemonic\"]}"],
    body     = Text.ToBinary(Uri.BuildQueryString(record)),
    options  = [Headers = [#"Content-type"="application/x-www-form-urlencoded", #"Accept"="text/csv"], Content=body],
    Source   = Csv.Document(Web.Contents(Url, options))
in
    Source
```

returns a data structure. **Account** is the account name at the DataWarehousePro.com, **DataBank** is the databank acronym(s), **Mnemonic** is the timeseries unique mnemonic(s). You find the databank acronym and mnemonic in the metadata sheet of each timeseries through the DWP database browser.

Mnemonic(s) **M** must refer to timeseries that are actually stored in the declared databank **D**. Otherwise the query returns an empty data structure.

```
record = [json="{\"DataBank\": [\"Mnemonic1\", \"Mnemonic2\", ...]}"] queries multiple mnemonics from the same databank.
```

```
record = [json="{\"DataBank1\": [\"Mnemonic1\", ...], \"DataBank2\": [\"Mnemonic2\", ...]}"] queries multiple mnemonics from multiple databanks.
```

Example

Here are examples of power queries in Excel workbooks with one or multiple outputs. For the demonstration purposes, we use the app.datawarehousepro.com/go/newzealand as the data source.

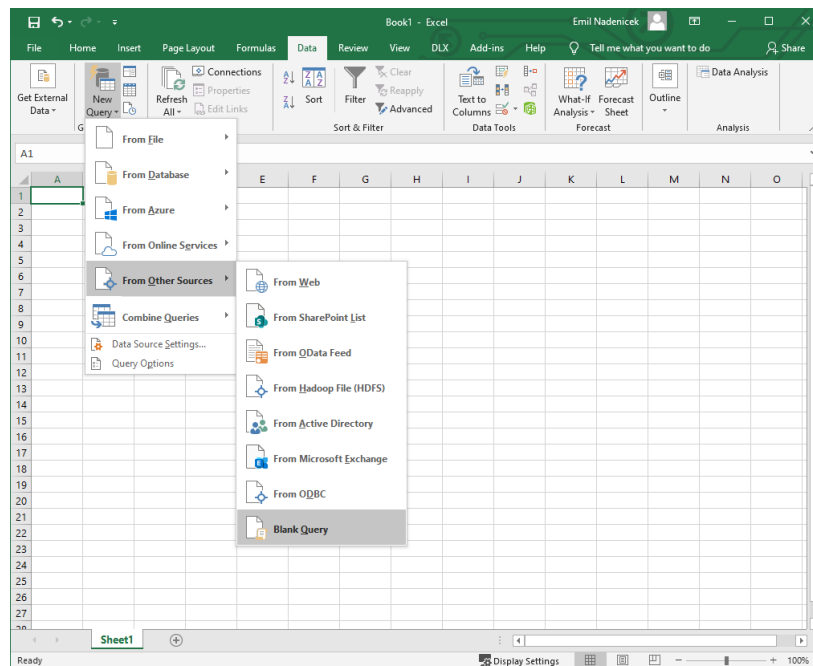
For example, you want to download the Australian dollar exchange rate.

1. Go to app.datawarehousepro.com/go/newzealand and search for “Australian dollar”.
2. Select the Metadata tab and look for the timeseries Mnemonic and Databank acronym

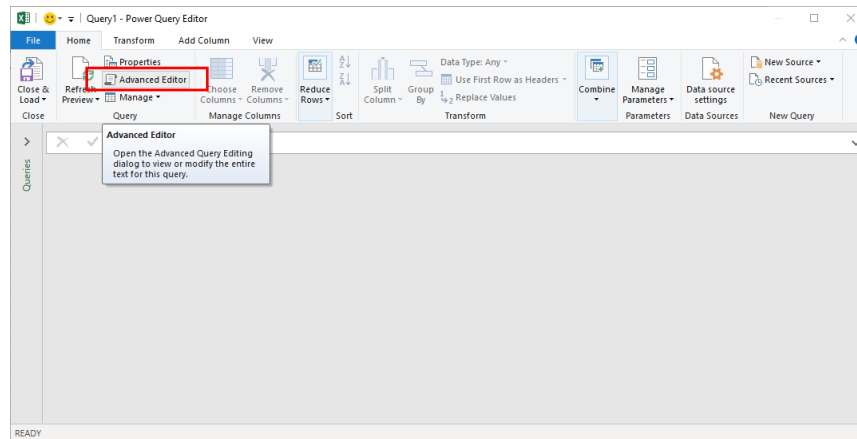
Metadata	
Databank	Exchange Rates
Databank Acronym	EXR
Mnemonic	NZ_EXR5
Name of Series	Australian dollar
Data Family	Exchange rates
Data Source	Reserve Bank of New Zealand
Unit of Measure	NZD/AUD, quoted per NZ\$
Frequency	M
First Observation	Jan-99

The Australian dollar timeseries’ mnemonic is NZ_EXR5. It belongs to the exchange rate databank with the acronym EXR.

3. Open a new Excel spreadsheet and go to the Data tab. Select New Query, From Other Sources, and Blank Query



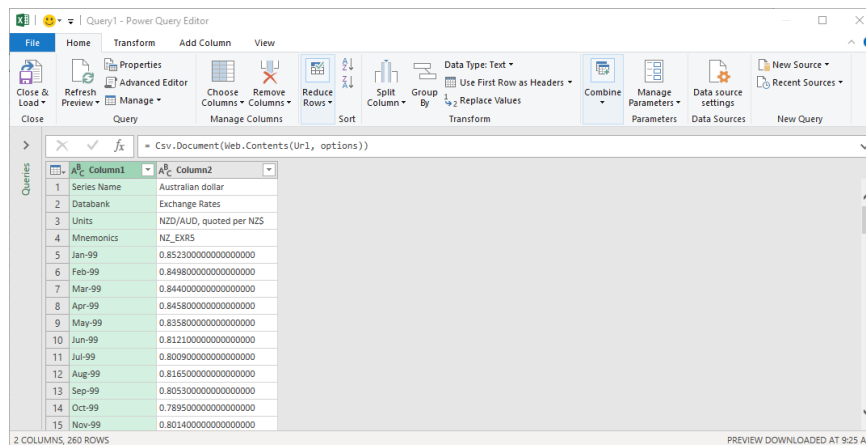
4. In the Power Query Editor, open the Advanced Editor:



5. In the Advanced Editor, copy-paste the following M formula and select Done




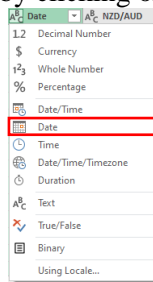
6. The Power Query Editor shows the downloaded exchange rate data.



7. By double clicking on Column1 or Column2 you can change the column heading

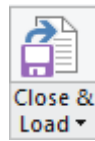
	Date	NZD/AUD
1	Series Name	Australian dollar
2	Databank	Exchange Rates
3	Units	NZD/AUD, quoted per NZ\$
4	Mnemonics	NZ_EXRS
5	Jan-99	0.85230000000000000000

8. Change the data type of Column1 to Date by clicking on the  button and selecting Date



Do the same with Column2 and change its type to Decimal Number.

9. Finally, you complete the Power Query by clicking on the **Close&Load** button:



The dynamic link between the DWP and Excel is established.

Related releases

- Querying DWP from Microsoft Power BI.
- Querying DWP from Mathworks Matlab.
- Querying DWP from EViews.
- Querying DWP from Octave.

Legal disclaimer

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