Using the Open Data Service Interface

Memorandum Draft

28 March 2023 BOF/FIN-FSA-UNRESTRICTED

Public

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1 Loading Data Using API

Go to the address: <u>Bank of Finland / Financial Supervisory Authority open data developer portal</u> (<u>boffsaopendata.fi</u>). There is no need to register or log in to the service. Choose from the top of the page "APIS" and select newest version of the Time series statistics (while writing it was v4):

HOME APIS PRODUCTS ISSUES	SIGN IN
APIs	Search Q
Banking Calendar v1 The data provides Finnish National Bank Holidays when banks are closed, in two sets: All National Bank Holidays and National Bank Holidays,	when TARGET system is open.
s v1	
 Original Original 	۲ Finnish time, when the TARGET ۲ Finnish time, when the TARGET
Timeseries statistics	
 v3 Deprecated. Use v4 instead. v4 Latest version of timeseries data. v3 v4 Latest version of timeseries data. v4 v6 v7 v7 v7 v7 v6 v7 v7<!--</td--><td></td>	

Deprecated. Use v4 instead.

2 Dataset Names

To retrieve the names of datasets, go to "GET dataset" in the developer portal. Here you can find information about the names, descriptions, and the number of time series in the Bank of Finland's data sets. Search the list of datasets by clicking "Try it" and explore the datasets.

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Copy "Request URL" field and open the dataset with for example Excel (see Search for Time Series Observations further in the instructions). You can also check the information directly from the "Response Content" section. For example, a user looking for information on household loans and deposits could take a closer look at the time series of the MFI_PUBL dataset.

```
"name": "MFI_PUBL",
    "description": "The data set provides information on loans and deposits, collected from credit institutions. The d
    ata covers loans and deposits in all currencies, converted into euro. Data are available on stocks, new drawdowns, new
    agreements and annualised agreed rates. Loans to households are broken down by the purpose of loan. For consumer credi
    t, there is also information on the type of collateral. New drawdowns of loans to non-financial corporations are broke
    n down by the size of loan. Deposits are broken down in deposits with agreed maturity, investment deposits and overnig
    ht deposits.",
        "csvLink": "https://bofprvrpopendatast.blob.core.windows.net/csv/mfi_publ.csv",
        "countOfSeries": 1214
    }]
}
```

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3 Retrieval of Time Series Observations

Select "GET observations" to access observations of the timeseries. Instructions open to the webpage for each field. Dataset field and seriesName are the most important fields from the user point of view.

Search or E E	Timeseries A API change history Latest version of timeseries data Observations List of the series observations (d Try It Request Request URL https://api.boffsaopendata.f/v3,/	API lataset, series n /api/Observatio	ame, period, period code, value) in json format pns/{dataset][?seriesName][&startPeriod][&endPeriod][&pageNumber][;	▲ API definition SpageSize]
	dataset	string	Name of the dataset e.g. MFI_PUBL (see full list from Datasets API)	
	seriesName (optional)	string	Full name of the series or list of series names (separated by semicolon, filter e.g. %.Z5.%) or series name
	startPeriod (optional)	string	Format - date-time (as date-time in RFC3339). Format - date-time (as RFC3339).	date-time in
	endPeriod (optional)	string	Format - date-time (as date-time in RFC3339), Format - date-time (as RFC3339).	date-time in
	pageNumber (optional)	integer	Format - int32. Format - int32.	
	pageSize (optional)	integer	Format - int32. Format - int32.	

Press "Try it" to search observations. Use semicolon to separate timeseries when accessing multiple time series. Don't add spaces between multiple timeseries in "seriesName" field. For example when using timeseries M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 and

M.A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 from dataset MFI_PUBL, write MFI_PUBL to "dataset" field and write

M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0;M.A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 to "seriesName" field.

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GET Dataset GET Observations GET Series GET Structures	Timeseries Observations List of the series observations Query parameters	API S (dataset, series name, period, period co	de, value) in json format
	dataset	MFI_PUBL	
	seriesName	M.A.0.A.L20.A.A.U6.2	× Remove parameter
	startPeriod	Value	× Remove parameter
	endPeriod	Value	× Remove parameter
	pageNumber	1	× Remove parameter
	pageSize	20	× Remove parameter
	+ Add parameter		
	Headers		
	+ Add header		

Press "send" from the bottom of the page after filling up fields. The next part of the instruction applies also to Power BI even though some fields may be located elsewhere than in Excel. Copy "Request URL" field and open Excel. NB! The default pageSize in URL field is pageSize=20. Increase the page size for example to 10000 when extracting a lot of data.

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Request URL

https://api.boffsaopendata.fi/v3/api/Observations/MFI_PUBL?seriesName=M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0.M. A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0.A.0.ApageNumber=1&pageSize=20

HTTP request

GET https://api.boffsaopendata.fi/v3/api/Observations/MFI_PUBL?seriesName=M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A. 0;M.A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0&pageNumber=1&pageSize=20 HTTP/1.1 Host: api.boffsaopendata.fi
Send
Response status
200 OK
Response latency
265 ms
Response content
Pragma: no-cache Transfer-Encoding: chunked Cache-Control: no-store, must-revalidate, no-cache Set-Cookie: ARRAffinity=ae786a41071179dad918feafa6be2f015be9cf54e3fc2ba567f791444cfe2572;Path=/;HttpOnly;Secure;Domain =rvrp-opendata.azurewebsites.net,ARRAffinitySameSite=ae786a41071179dad918feafa6be2f015be9cf54e3fc2ba567f791444cfe2572; Path=/;HttpOnly;SameSite=None;Secure;Domain=rvrp-opendata.azurewebsites.net Strict-Transport-Security: max-age=2592000 X-Powered-By: ASP.NET License: Creative Common CC BY 4.0. Request-Context: appId=cid-v1:0a10c7ac-cf90-48dc-85b0-273b2a683bc4 Date: Wed, 29 Jun 2022 08:45:43 GMT Content-Type: application/json; charset=utf-8 Expires: Wed, 29 Jun 2022 08:45:44 GMT
<pre>{ "currentPage": 1, "totalPages": 1, "pageSize": 20, "totalCount": 2, "items": [{ "dataset": "MFI_PUBL", "name": "M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0", "observations": [{ "period": "1997-09-30", "periodCode": "1997M9", "value": 39167.531079971 }, { "periodCode": "1997M10", "value": 38237.5841618124 } } real and and and and and and and and and and</pre>

Go to the Data tab in Excel and choose "From web" and paste the created link:

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Select "items" by pressing it.			

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Convert to table using "To table"-button:

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Select OK in the next menu and press the arrows next to the column.

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	ABC 123 Column1 11
1	Record
2	Record

Click OK after this. Continue the same process until double arrows no longer appear to the columns. Choose "Expand to New Rows" if necessary:

	ABC 123 Column1.dataset	ABC 123 Column1.name	ABC 123 Column1.observations
1	MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0	Expand to New Rows
2	MFI_PUBL	M.A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0	Extract Values

Save the final table.

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	2 MFI_PUBL	M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A.O.	A.O.A.0 1997-10-31	1997M10		38237,58416	
	3 MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.	A.O.A.0 1997-11-30	1997M11		38927,86301	
	4 MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.	A.O.A.0 1997-12-31	1997M12		41246,93337	
	5 MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.	A.O.A.0 1998-01-31	1998M1		40819,74124	
	6 MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.	A.O.A.0 1998-02-28	1998M2		40710,11619	
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	9 MFI_PUBL	M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.	A.O.A.0 1998-05-31	1998M5		41482,02228	
	10 MFI_PUBL	M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A.O.	A.O.A.0 1998-06-30	1998M6		40143,0569	

You can adjust how often excel refreshes the data. Choose Table design > Properties > Refresh control.

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MRI_PUBL M.A.U.A.LUA A.U.G.2250.2Z.EUR.A.A. Kerrest control 40819, 4124 MRI_PUBL M.A.U.A.LUCA A.U.G.2250.2Z.EUR.A.A. East Refreshed: 40710, 11619 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.2Z.EUR.A.A. Enable background refresh 3920,01367 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh data when gpening the file 40819, 4124 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh data when gpening the file 409359,00347 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh data when gpening the file 41482,02228 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh this connection on Refresh <u>A</u> II 41645,28978 MRI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh this connection: 41657,24444 MFI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Refresh the following formats from the server when using this connection: 41657,24444 MFI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Number format _FIII Color 41540,75184 MFI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A. Number for facords to retrieve: 41330,49322 MFI_PUBL M.A.O.A.L20.A.A.U.G.2250.ZZ.EUR.A.A.	MFI_PUBL	M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.	A.	41246,93337
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s MHI_PUBL MA.0A.L20.A.A.U0.2250.ZZ.EUR.A.A.I 39201,01367 MFI_PUBL MA.0A.L20.A.A.U0.2250.ZZ.EUR.A.A.I Befresh every 60 minutes 40959,00322 MFI_PUBL MA.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I Refresh every 60 minutes 41482,0228 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I Refresh tevery 60 minutes 41482,0228 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I Refresh this connection on Refresh <u>A</u> II 41468,28978 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I CAP Server Formating 39803,34141 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I CAP Server Formating 39803,34141 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.I CAP Server Formating 39803,34141 MHI_PUBL M.A.0.A.L20.A.A.U.6.2250.ZZ.EUR.A.A.I CAP A A A A A A A A A A A A A A A A A A	MFI_PUBL	M.A.U.A.L2U.A.A.U6.2250.ZZ.EUR.A.	A. Last Refreshed:	40/10,11619
MHI_PUBL MA.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Ignition (the public) 40559,00347 0 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the set email data range before saving the workbook 40143,0569 2 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the set email data range before saving the workbook 40143,0569 2 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the set email data range before saving the workbook 40143,0569 3 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the set email data range before saving the workbook 401468,28978 3 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the set email data range before saving the workbook 401450,27208 0 IAP Server Formatting CIAP Server Formatting 39803,34141 41667,24444 7 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the server when using this connection: 41617,54184 8 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the server when available 41330,49322 9 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image: a mode of the server when available 41330,49322 <t< td=""><td>MFI_PUBL</td><td>M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.</td><td>Refresh eveny 60 minutes</td><td>39201,01367</td></t<>	MFI_PUBL	M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.	Refresh eveny 60 minutes	39201,01367
0 MFI_PUBL MA.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Increase of the external data range before saving the workbook 41432,0228 1 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 41648,28978 3 MFI_PUBL M.A.0.A.L20.A.A.U6.250.ZZ.EUR.A.A. 41648,28978 4 MFI_PUBL M.A.0.A.L20.A.A.U6.250.ZZ.EUR.A.A. Classing the workbook 41648,28978 5 MFI_PUBL M.A.0.A.L20.A.A.U6.2550.ZZ.EUR.A.A. Classing the server when using this connection: 41657,24444 6 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Retrieve the following formats from the server when using this connection: 41617,54184 6 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Number Format Fill Color 41617,54184 7 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 41930,49322 41330,49322 41330,49322 41330,49322 41330,49322 41330,49322 41330,49322 41330,49322 41330,49332 41681,54094 41681,54094 41881,54094 41881,54094 41881,02136 41821,02136 41821,02136 414208,60544 41320,0238,15331 42408,60544 42338,15331 42440,7675 42440,7675 42440,	MFI_PUBL	M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.	A. Pefresh data when opening the file	40959,00347
I MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. I method bottom ductoring du	1 MEL PUBL	M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.	Remove data from the external data range before saving the workbook	41482,02228
2 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Inable Fast Data Load 41466,2878 3 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Inable Fast Data Load 41540,2728 4 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Inable Fast Data Load 41540,2728 5 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. OLAP Server Formatting 39803,34141 6 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Retrieve the following formats from the server when using this connection: 41657,24444 6 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Font Style Text Color 41575,51953 7 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 40983,543322 9 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: Image 41330,49324 1 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Image Retrieve data and errors in the Office display language when available 41821,02136 1 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image Retrieve data and errors in the Office display language when available 41821,02136 2 MFI_PUBL M.A.O.A.L20.A.A.U.	I MFI_PUBL	M.A.U.A.L2U.A.A.U6.2250.22.EUR.A.	A. Refresh this connection on Refresh All	40143,0569
S MFI_PUBL MA.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Server Formatting 39803,34141 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Server Formatting 39803,34141 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Retrieve the following formats from the server when using this connection: 41540,27208 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Number Format Fill Color 41575,51953 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Font Style Text Color 41617,54184 0LAP Drill Through Maximum number of records to retrieve: Maximum number of records to retrieve: 41330,49322 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Naximum number of records to retrieve: 41341,36444 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Ianguage 41341,36494 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Retrieve data and errors in the Office display language when available 41821,02136 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel 42388,13531 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel 42338,13531 MFI_PUBL <td></td> <td>M.A.O.A.L20.A.A.UG 2250.22.EUR.A.</td> <td>Enable Fast Data Load</td> <td>41408,28978</td>		M.A.O.A.L20.A.A.UG 2250.22.EUR.A.	Enable Fast Data Load	41408,28978
4 MFI_PUBL M.A.O.A.L20.A.A.L06.2250.ZZ.EUR.A.A. Bet Arter to following formats from the server when using this connection: 39803,3414 5 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Bet Arter to following formats from the server when using this connection: 41657,24444 6 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Point Style Text Color 41167,511953 7 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Font Style Text Color 411617,54184 8 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 40983,54352 9 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 41330,49322 1 Inguage Inguage 41331,49444 41341,36444 2 MFI_PUBL M.A.O.A.L20.A.A.U6.250.ZZ.EUR.A.A. Retrieve data and errors in the Office display language when available 41821,02136 3 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel 4238,13531 4 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel 42338,13531 5 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel </td <td></td> <td>M.A.O.A.L20.A.A.UG 2250.22.EUR.A.</td> <td>A. OLAR Server Formatting</td> <td>41340,27208</td>		M.A.O.A.L20.A.A.UG 2250.22.EUR.A.	A. OLAR Server Formatting	41340,27208
S MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Number Format Fill Color 41057,541943 M MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Font Style Text Color 41617,54184 M MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 40983,54352 M MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OLAP Drill Through 40393,54352 M MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: 41330,49322 M MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: 41341,36444 1 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: 41821,02136 3 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Retrieve data and errors in the Office display language when available 41821,02136 3 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK 42086,60544 4 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 0K 42338,13531 5 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 199908-31 1999048 42240,76975		M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.	Retrieve the following formats from the server when using this connection:	41657 24444
0 MFI_PUBL MIA.0A.L20.AA.U0.2250.22.EUR.AA. Font Style Text Color 41073,1134 7 MFI_PUBL MIA.0A.L20.AA.U6.2250.22.EUR.AA. OLAP Drill Through 40983,54352 9 MFI_PUBL MIA.0A.AL20.A.A.U6.2250.22.EUR.AA. OLAP Drill Through 41330,49322 0 MFI_PUBL MIA.0A.AL20.A.A.U6.2250.22.EUR.AA. Maximum number of records to retrieve: 41341,36444 1 MFI_PUBL MIA.0.A.L20.A.A.U6.2250.22.EUR.AA. Maximum number of records to retrieve: 41341,36444 1 MFI_PUBL MIA.0.A.L20.A.A.U6.2250.22.EUR.AA. Retrieve data and errors in the Office display language when available 41681,54094 2 MFI_PUBL MIA.0.A.L20.A.A.U6.2250.22.EUR.AA. Retrieve data and errors in the Office display language when available 41821,02136 3 MFI_PUBL MIA.0.A.L20.A.A.U6.2250.27.EUR.AA. OK Cancel 42086,60544 4 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.27.EUR.AA. 199908-31 1999M8 42240,76975 5 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.77.EUR.AA. 1999-09-30 1999M9 42240,76975		M.A.O.A.L20.A.A.U6.2250.22.EUR.A.	Number Format Fill Color	41037,24444
7 MIR_PUBL MIA.0A.L20.AA.U0.2250.22.EUR.AA. 0LP Drill Through 41017,94352 8 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 410383,049322 0 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 410383,049322 1 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 41038,049322 2 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 41038,049422 1 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 41038,049422 2 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.AA. 41081,54094 3 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.A.A. 0K 410821,02136 3 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.A.A. 0K 42086,60544 4 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.22.EUR.A.A. 0K 42086,60544 4 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.27.EUR.A.A. 42408,60544 4238,13531 5 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.27.EUR.A.A. 42440,76975 42440,76975 4 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.77.FUB.A.A. 1999M8 42240,76975		M.A.O.A.L20.A.A.U6.2250.22.EUR.A.	Font Style Text Color	41575,51555
0 MFI_PUBL MA.AO.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: 40.363,49322 1 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Maximum number of records to retrieve: 41330,49322 1 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image 41330,49322 2 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Image 41330,4932 2 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. Retrieve data and errors in the Office display language when available 41821,02136 3 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK 42086,60544 4 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 0K 42338,13531 5 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 199908 42440,7675 5 MFI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 199908 42240,7675 6 MEI_PUBL M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 199908 42240,7675		M.A.O.A.L20.A.A.U6.2250.22.EUR.A.	OLAP Drill Through	41017,54184
MFI_PUBL MA.0.A.120.A.A.106.2250.ZZ.EUR.A.A. MIA.0.A.120.A.A.106.2250.ZZ.EUR.A.A. 41330,4324 MFI_PUBL MA.0.A.120.A.A.106.2250.ZZ.EUR.A.A. Language 41341,36444 MFI_PUBL MA.0.A.120.A.A.106.2250.ZZ.EUR.A.A. Retrieve data and errors in the Office display language when available 41821,02136 MFI_PUBL MA.0.A.120.A.A.106.2250.ZZ.EUR.A.A. OK 42086,60544 MFI_PUBL M.A.0.A.120.A.A.106.2250.ZZ.EUR.A.A. 0K Cancel MFI_PUBL M.A.0.A.120.A.A.106.2250.ZZ.EUR.A.A. 42086,60544 42086,60544 MFI_PUBL M.A.0.A.120.A.A.0.6.2250.ZZ.EUR.A.A. 0K Cancel 42440,76975 MFI_PUBL M.A.0.A.120.A.A.0.6.2250.ZZ.EUR.A.A. 0K Cancel 42086,60544 MFI_PUBL M.A.0.A.120.A.A.0.6.2250.ZZ.EUR.A.A. 0K Cancel 42408,60575 MFI_PUBL M.A.0.A.120.A.A.0.6.2250.ZZ.EUR.A.A. 199908 42266,7839 MFI_PUBL M.A.0.A.120.A.A.0.6.2250.ZZ.EUR.A.A. 199909 42260,7839		M.A.O.A.L20.A.A.U6.2250.22.EUR.A.	Maximum number of records to retrieve:	40383,34332
Imp-Polic Michaels/Instruction Inguage Inguage Imp-Polic Michaels/Instruction Inguage Inguage Inguage Imp-Polic Michaels/Instruction Retrieve data and errors in the Office display language when available Inguage Inguage Imp-Polic Michaels/Instruction Retrieve data and errors in the Office display language when available Inguage Inguage Imp-Polic Michaels/Instruction Retrieve data and errors in the Office display language when available Inguage Inguage Imp-Polic Michaels/Instruction Inguage Inguage Inguage Inguage Imp-Polic Michaels/Instruction Inguage Inguage Inguage Inguage Inguage Inguage Imp-Polic Michaels/Instruction Inguage Inguag		M A 0 A 120 A A 116 2250 77 FUR A		41330,43322
Imit Public Micro Difference of the office display language when available 41001,94034 2 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 41821,02136 3 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 0K 42086,60544 4 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 0K 42038,13531 5 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 42440,76975 6 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 42440,76975 6 MFI_PUBL M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A. 42440,76975		M A 0 A 120 A A 116 2250 77 FUB A	Language	41541,50444
Image: Second		M A 0 A 120 A A 116 2250 77 FUB A	Retrieve data and errors in the Office display language when available	41821 02136
MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. OK Cancel 4200,00344 5 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 42440,76975 42440,76975 6 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 1999M8 42440,76975 6 MFI_PUBL M.A.O.A.L20.A.A.U6.2250.ZZ.EUR.A.A. 199908-31 1999M8 42240,76975	3 MEL PUBL	M.A.O.A.I 20.A.A.U6.2250 77 FUR A		42086.60544
5 MFI_PUBL M.A.0.A.120.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 1999-08-31 1999M8 42440,76975 6 MFI_PUBL M.A.0.A.120.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 1999-08-31 1999M8 42440,76975 6 MFI_PUBL M.A.0.A.120.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 1999-08-31 1999M8 42240,76975	4 MEL PUBL	M.A.O.A.I 20.A.A.U6.2250 77 FUR A	OK Cancel	42338,13531
Δ (m) Δ (m) <t< td=""><td>5 MEL PUBL</td><td>M A 0 A 120 A A U6 2250 77 FUB A</td><td>Δ 0 Δ 0 1999-08-31 1999M8</td><td>42440 76975</td></t<>	5 MEL PUBL	M A 0 A 120 A A U6 2250 77 FUB A	Δ 0 Δ 0 1999-08-31 1999M8	42440 76975
	6 MEL PUBL	M A 0 A 120 A A 116 2250 77 FUR A	Δ 0 Δ 0 Δ 1999-09-30 1999M9	42260 7839

4 Limiting Observations of Time Series When Searching

Time series can be searched by the full name of the time series, as was done above. For example, when looking for dozens of time series, the above can be tedious. The "%" character can be used to replace the value of a dimension, in which case all values from that dimension will be searched. In the time series retrieved in the previous example M.A.0.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 and M.A.1.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0 are the same except for the third dimension, which has a value of 0 in the first and 1 in the second time series. These time series could be searched with one code M.A.%.A.L20.A.A.U6.2250.ZZ.EUR.A.A.0.A.0.A.0, which searches all values for the third dimension.

The percent sign can be placed in several places in the search. For example with time series code M.A.%.%.%.%.U6.2251.ZZ.Z01.%.%.%.%.%.% you can search for 134 timeseries at once. The previous time series code can also be written in the form M.A.%.U6.2251.ZZ.Z01.%. In the time series code described above, all values for the last seven dimensions are retrieved with the last percent sign.

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5 Interpretation of Time Series Codes

Time series code is formed with group of 18 dimensions, separated by a dot. For Example, in timeseries M.A.O.A.L2O.A.A.U6.2250.ZZ.EUR.A.A.O.A.O.A.O the first dimension has value M (Monthly) meaning that the frequency of the time series is monthly. In this part of the guide, a table is searched for in Excel, which can be used to interpret the content of the time series one dimension at a time. On the website, go to "GET Structures" and click "Try it".



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The name of the dataset must be entered in the search field, for example MFI_PUBL. After that, click the "Send" button and copy the "Request URL".

GET Datasets GET Observations GET Series GET Structures	Timeseries API Structures Query parameters dataset MFI_PUBL Add parameter Headers						
	 ★ Add header Request URL https://api.boffsaopendata.fi/v4/structures/MFI_PUBL HTTP request GET https://api.boffsaopendata.fi/v4/structures/MFI_PUBL HTTP/1.1 Most: api.boffsaopendata.fi Send 						

Copy the Request URL to Excel as was done in the instructions above. Double-click "dimensions" on the right side of the "List" column.

x 🙂-	- -				Record Tools	MFI_PUBL - Power Query Editor
File	Home	Transform	Add Column	View	Convert	
Into Table						
Convert						
Queries [1]			This preview	may be u	p to 6 days old.	Refresh
			~ v Jx	= JSO	n.Document(we	b.Contents("https://api.boffsaopendata.fl/v4/structures/MF1_PUBL"))
			dataset M			
			dimensions Li	t		
			metadatas Li	t		

Click "To table" at the top of the page. and click "OK" on the menu that opens.

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💶 🙂-	-							List	Tools	MFI_PUBL - Power Query Editor
File	Home	Tra	nsform	,	Add Column	۱ N	/iew	Tran	sform	
To Table	Keep Items •	Remove	∎+∎ Re Ç≣ Re	move I verse I	Duplicates tems	₽↓ X↓	∑ ∑ Stati	o stics		
Convert		Ma	nage It	ems		Sort	Nume	ric List		
Queries [1]		<	X	 V 	fx	= Sour	ce[di	mensior	15]
MF	I_PUBL				List					
				1	Record					
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Click the arrow button in the column header and repeat the command until the symbol no longer appears in any column header.

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Finally, press "Close & Load". In the final table, "Column1.position" indicates the dimension under consideration, i.e., how many characters separated by dots are in question. The column "Column1.codelistValues.value" describes the values that the dimension can have and "Column1.codelistValues.description" contains the plain language interpretation of the dimension. For example, the first dimension can have either the value H or M.

	Α	В	С	D	E	
1	Column1.name 🗾 🔽	Column1.descripti 🔽	Column1.co	Column1.position	Column1.codelistValues.value	Column1.codelistValues.description
2	FREQ	Frequency	CL_FREQ	- 1	H	Half-yearly
3	FREQ	Frequency	CL_FREQ	1	M	Monthly
4	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	Α	MFIs excl. Bank of Finland
5	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	В	Credit institutions
6	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	L	Commercial banks
7	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	M	MFIs
8	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	0	Cooperative banks
9	REPORTER_GROUP_MFI	MFI reporter group	CL_REPORTER	2	S	Savings banks