

API Use Examples

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DevResults' API allows you to pull information from your DevResults site to use or display in another application or website. You can find a complete guide to our API documentation, either at <https://www.devresults.com/api-help> or at [your_site].devresults.com/api-help. To help you decide get started on using the API, we've put together a few use cases that show you how to make API requests using external tools.

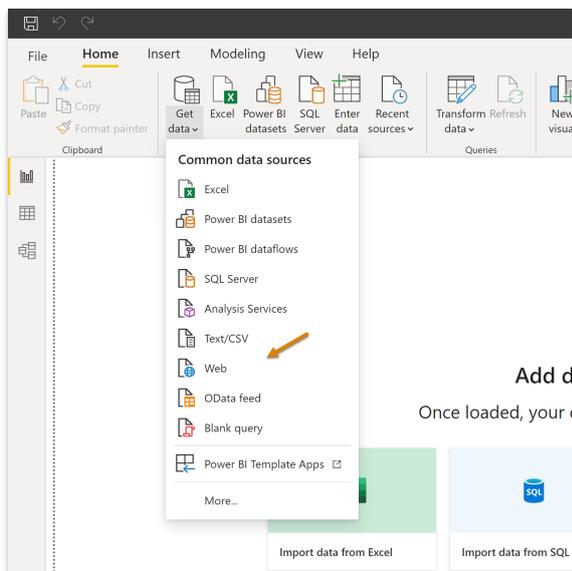
- **Power BI**
- **Power BI queries**

Making API calls in Microsoft Power BI

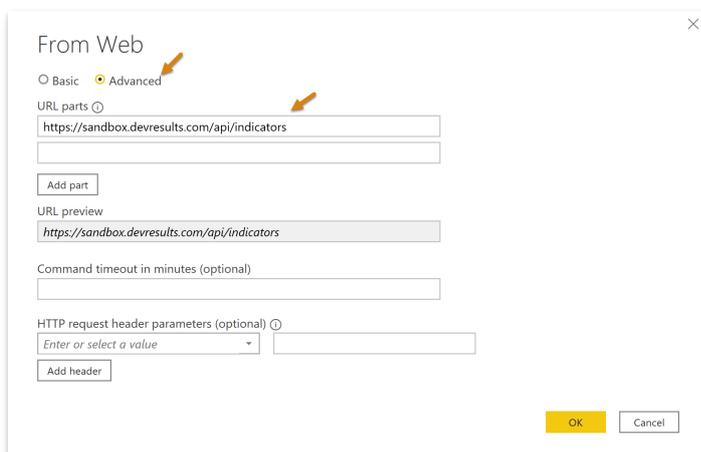
While DevResults has a custom connector that allows you to import **indicator results directly into Power BI**, you may want to build a report that includes additional information, like the indicator's definition.

Before getting started, make sure to generate a **DevResults API token**.

In Power BI, select **Get Data** via **Web**



Select **Advanced** and enter in the URL you want to make a request from (see the [DevResults API Documentation](#) for more details).



If you've saved your authorization token, you can now enter it in the HTTP request header parameter field. The header type is "Authorization" and the key is your authorization token with "Bearer" in front of it (i.e.: "Bearer yourtoken").

From Web

Basic Advanced

URL parts

https://sandbox.devresults.com/api/indicators

Add part

URL preview

https://sandbox.devresults.com/api/indicators

Command timeout in minutes (optional)

HTTP request header parameters (optional)

Authorization Bearer [blurred token]

Add header

OK Cancel

If you do not have your authorization token, head back to Postman (or whatever external API tool you're using) and make a GET request. Then under **Headers**, click on **Hidden**.

Launchpad POST https://sandbox.devresults.com/ GET https://sandbox.devresults.com/ No Environment

Untitled Request BUILD

GET https://sandbox.devresults.com/api/indicators Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 7 hidden

KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
Key	Value	Description			

Copy the entire value for **Authorization** (i.e.: your value should be "Bearer" followed by your authorization token) and paste it into the Power BI field.

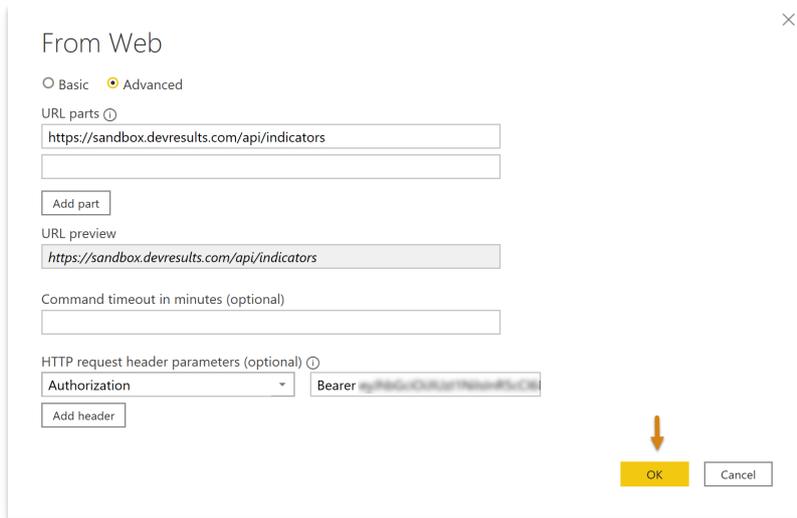
GET https://sandbox.devresults.com/api/indicators Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

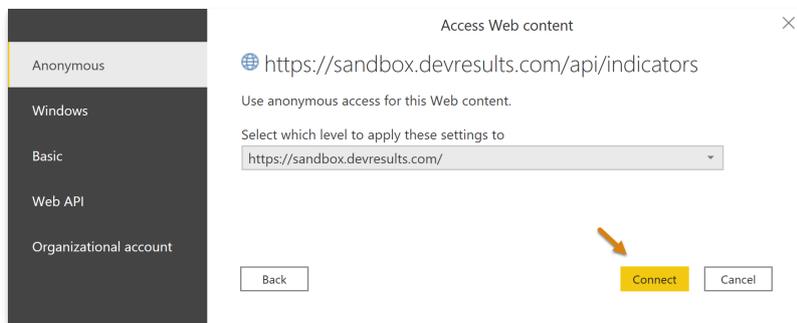
Headers Hide auto-generated headers

KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Authorization	Bearer [blurred token]				
<input checked="" type="checkbox"/> Postman-Token	<calculated when request is sent>				
<input checked="" type="checkbox"/> Host	<calculated when request is sent>				

Click **OK**.



Power BI may ask you to verify the access for the content you're making a request for. Select the level you need and click **OK**.



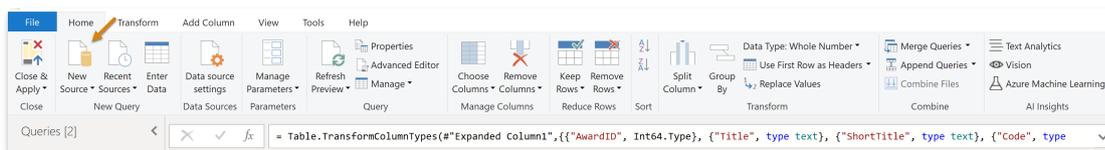
You should now have the information you requested from your DevResults site in Power BI.

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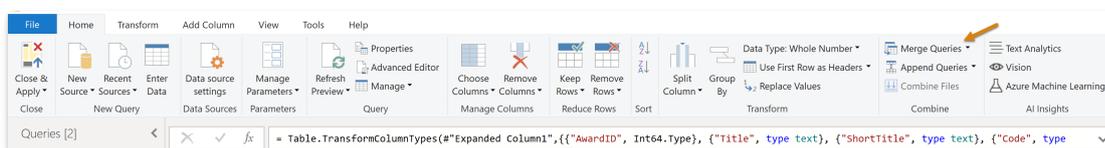
Creating Power BI queries after making a call in Power BI

Once you've loaded data into Power BI, you may want to create more complex queries, join multiple queries, etc. In this example, we'll work with a **PivotableResults** call.

After following the instructions above to get results for a single indicator, add the other queries you would like to join to the PivotableResults call by clicking on **New Source > Web** and following the instructions above to load data.



You can now select the Merge Queries button to combine data from both queries.



Select the tables you want to join, the columns you want to match data on, and the type of join you would like to make:

Merge

Select a table and matching columns to create a merged table.

pivotableresults

Id	Weight	Cumulative	Incremental	EffectiveDate	IsTarget	AwardID	ReportingPeriodID
1.003E+12	1	2936	2936	12/31/2018	FALSE	38004	5531
1.00262E+12	1	7661	4725	3/31/2019	FALSE	38004	5532
1.00262E+12	1	8837	1176	6/30/2019	FALSE	38004	5533
1.00396E+12	1	9901	1064	9/30/2019	FALSE	38004	5534

awards

AwardID	Title	ShortTitle	Code	ReferenceNumber	AwardingOrganizationID
38004	Access to School Lunches	ASL	ED-08	01-519-HBD-00-5414	
38013	Addressing Corruption in Local Government	ACLG	DR-05	01-172-FEE-00-6674	
38003	AgriMAX	AgriMAX	AG-07	01-950-GDC-00-4751	
38001	Apprendre à Lire	AàL	ED-03	01-990-IGI-00-8510	

Join Kind
Left Outer (all from first, matching from second)

Use fuzzy matching to perform the merge

> Fuzzy matching options

✓ The selection matches 192 of 192 rows from the first table.

OK Cancel

You will be prompted to select privacy levels of your data. These are user or organization-specified.

Privacy levels

The privacy level is used to ensure data is combined without undesirable data transfer. Incorrect privacy levels may lead to sensitive data being leaked outside of a trusted scope. More information on privacy levels can be found [here](#).

Ignore Privacy Levels checks for this file. Ignoring Privacy Levels could expose sensitive or confidential data to an unauthorized person.

Save Cancel

You can then select how you want to view the aggregated data, what columns you would like to expand, etc.

The screenshot shows a data tool interface with a table containing 192 rows and 24 columns. The table has columns for 'pivotableresults' and 'awards'. The 'awards' columns include 'AwardID', 'Title', 'ShortTitle', 'Code', 'ReferenceNumber', 'AwardingOrganizationID', 'StatusOptionID', 'MechanismID', 'PrimaryUrl', 'ShortTitleAndTitle', and 'PrimaryOrganization_OrganizationID'. A 'Query Settings' panel is open on the right, showing 'APPLIED STEPS' and 'Merged Queries'. The 'Merged Queries' section is expanded, showing a list of columns to be expanded or aggregated. The 'Expand' radio button is selected, and the following columns are checked for expansion: AwardID, Title, ShortTitle, Code, ReferenceNumber, AwardingOrganizationID, StatusOptionID, MechanismID, PrimaryUrl, ShortTitleAndTitle, and PrimaryOrganization_OrganizationID. The 'Use original column name as prefix' checkbox is also checked.

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