Data-Driven Alerts

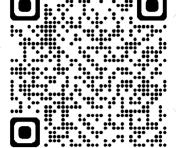
"Make your data shine!"

SPEAKER

















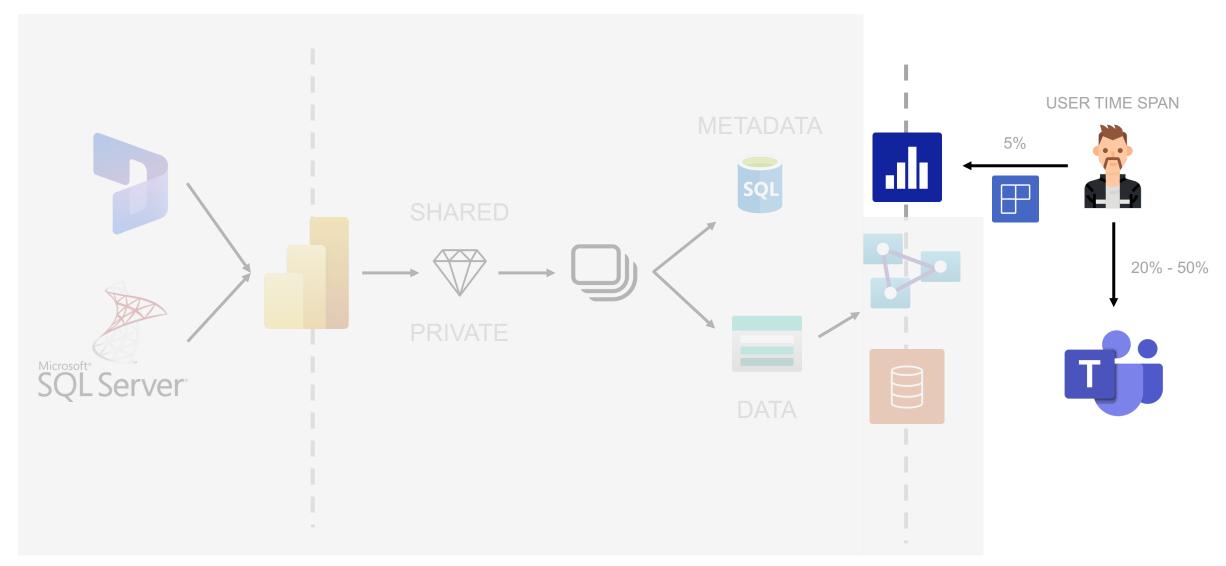




WHY WE SHOULD TALK ABOUT IT??

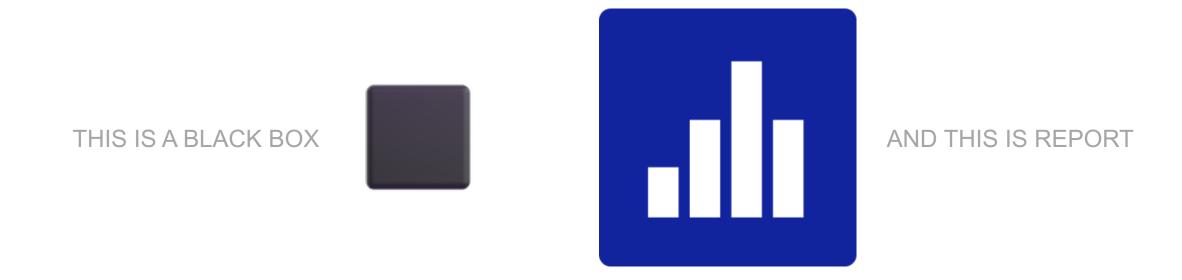
Let's tear the system apart

This is the only way to understand the context and how to use it



All what they need

This is a basic user understanding of relevant sources.

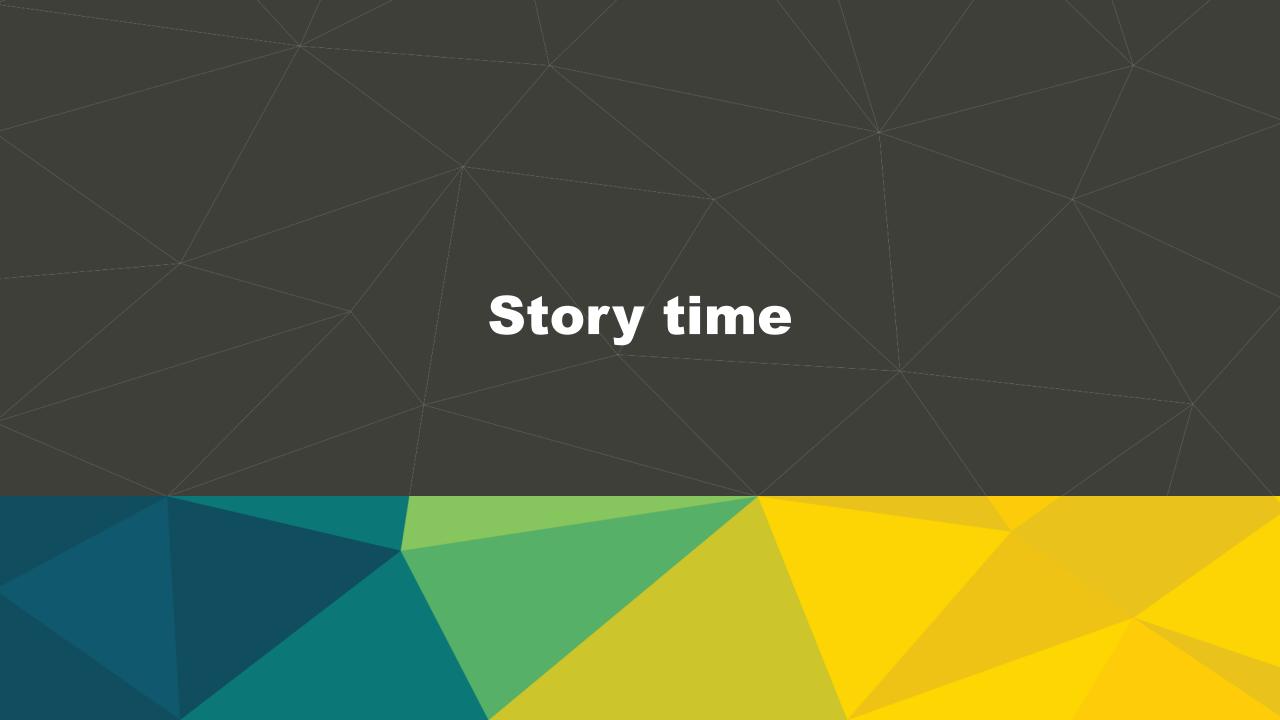


... needs to be served properly

If the content is not served properly, then it loses its meaning

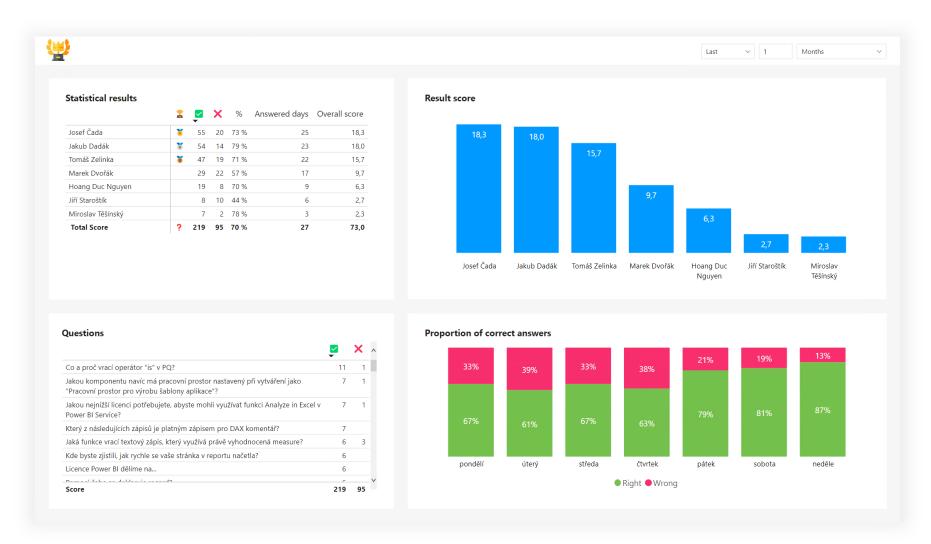


Information presented in a form that is quickly indigestible for the user becomes unpleasant for the user, and even if it has high benefits, it is very difficult to convince the user to use the means that communicate it.



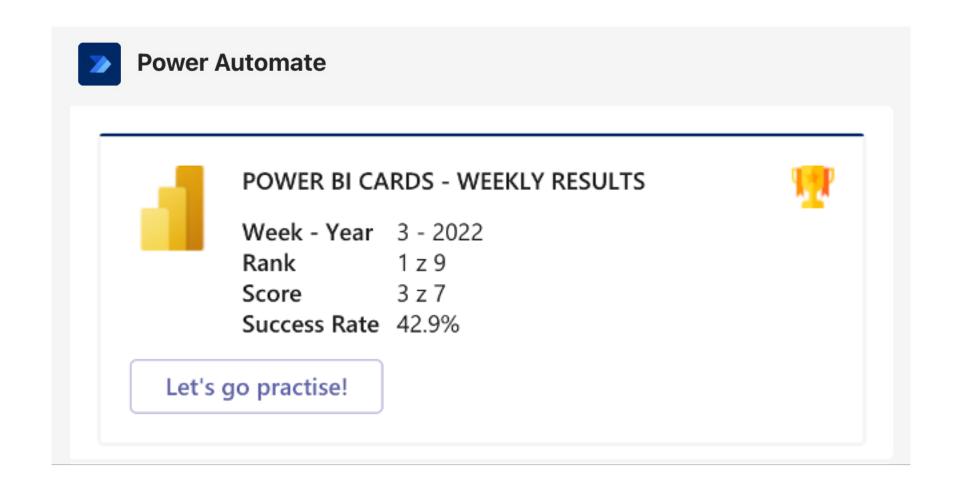
We have a report...

And it is full of a data. Data that would be better served directly in the hands of users.



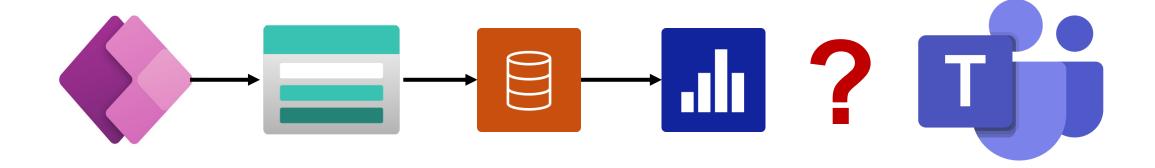
Adaptive Card

Data from the report can reach us, for example, in Teams



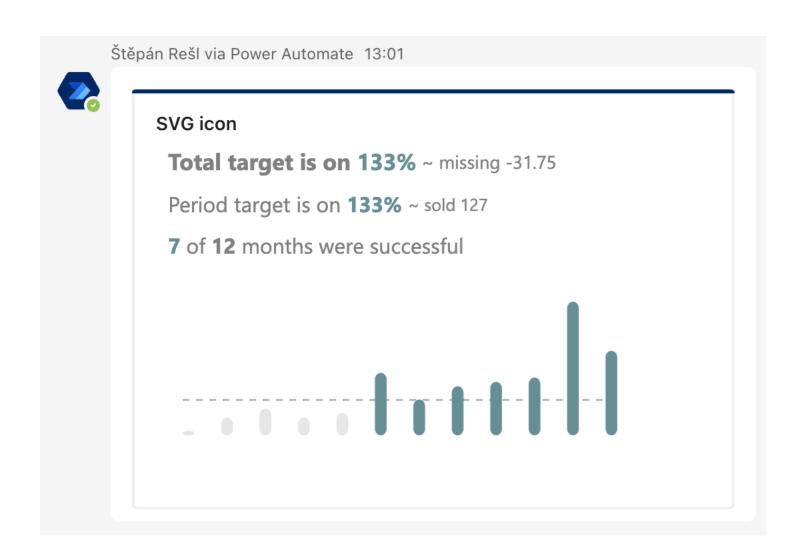
But how??

What possibilities do we actually have to get the selected information to the users?



or maybe... HOW!?

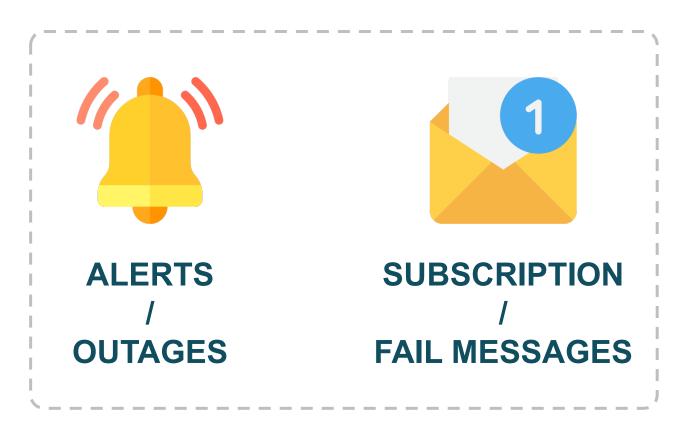
There are easier and more difficult paths...



Our possibilites

Type of "Alerts"

When Power BI sends us a message, it is somehow "alerting".



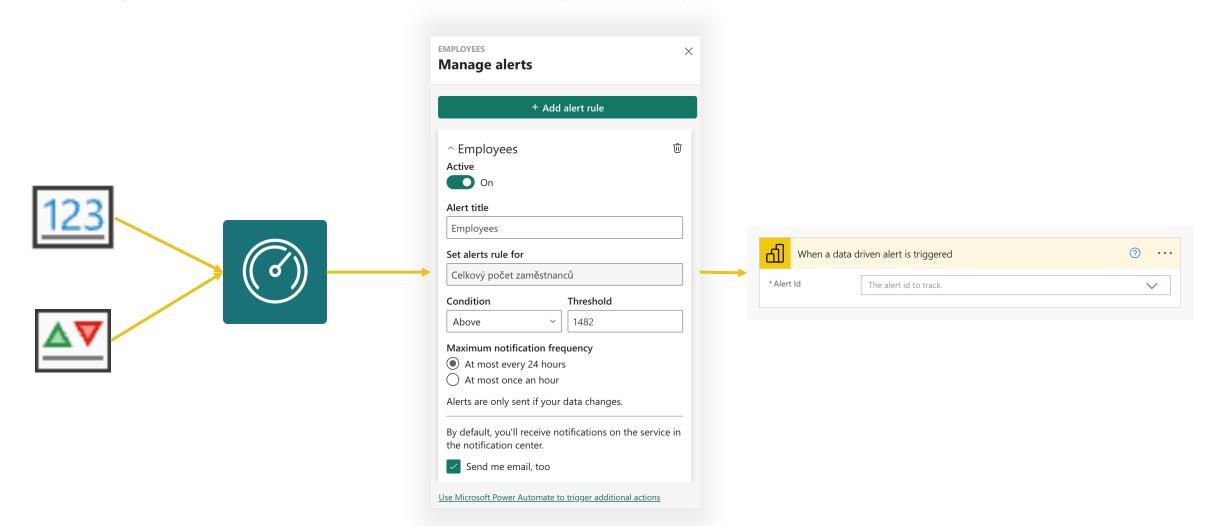


REST API

FULLY NATIVE AND INTEGRATED

Alers from Dashboard

Although these alerts can be used, they are very limited



Outages...

This notification looks like this...



Power BI

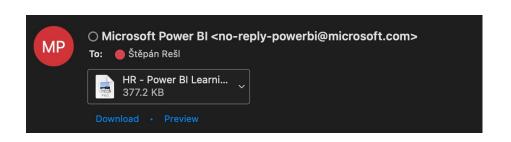
We're working to fix a problem with data refresh

We've detected an issue with Power BI data refresh scenarios that may affect your tenant's resources. As a result, your tenant may experience datasets not refreshing as expected. Our engineers are investigating the problem, and we'll let you know when it's fixed.

If you have questions, please visit the Power BI support page.

Subscription

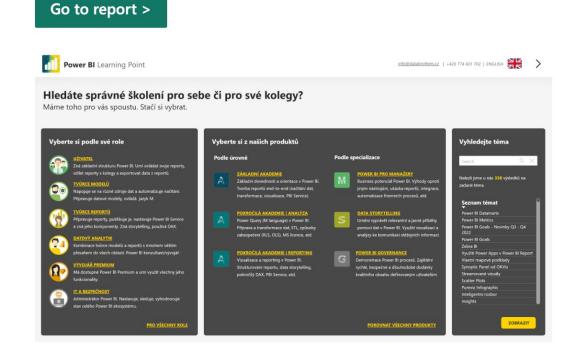
Email again. Fortunately, RLS also supports this





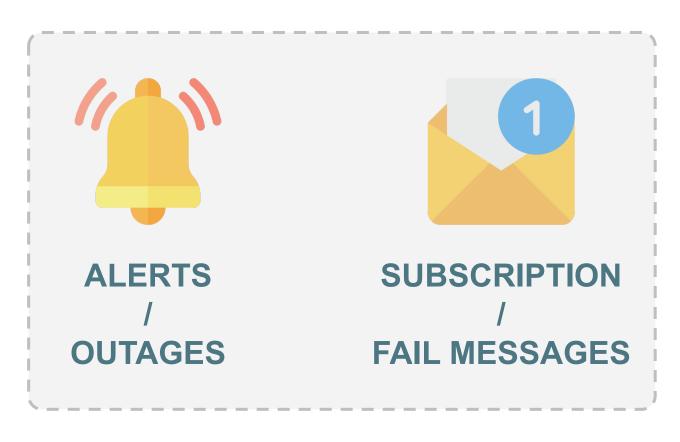
Power BI

Learning Point - Úvod



Type of "Alerts"

When Power BI sends us a message, it is somehow "alerting".



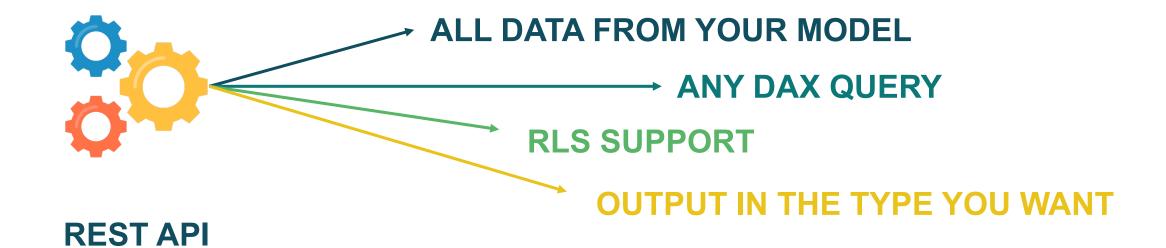


REST API

BUT IMMUTABLE...

Let's keep everything under control

When Power BI sends us a message, it is somehow "alerting".



Don't stop with just Alerts!

REST API can help us with much more!



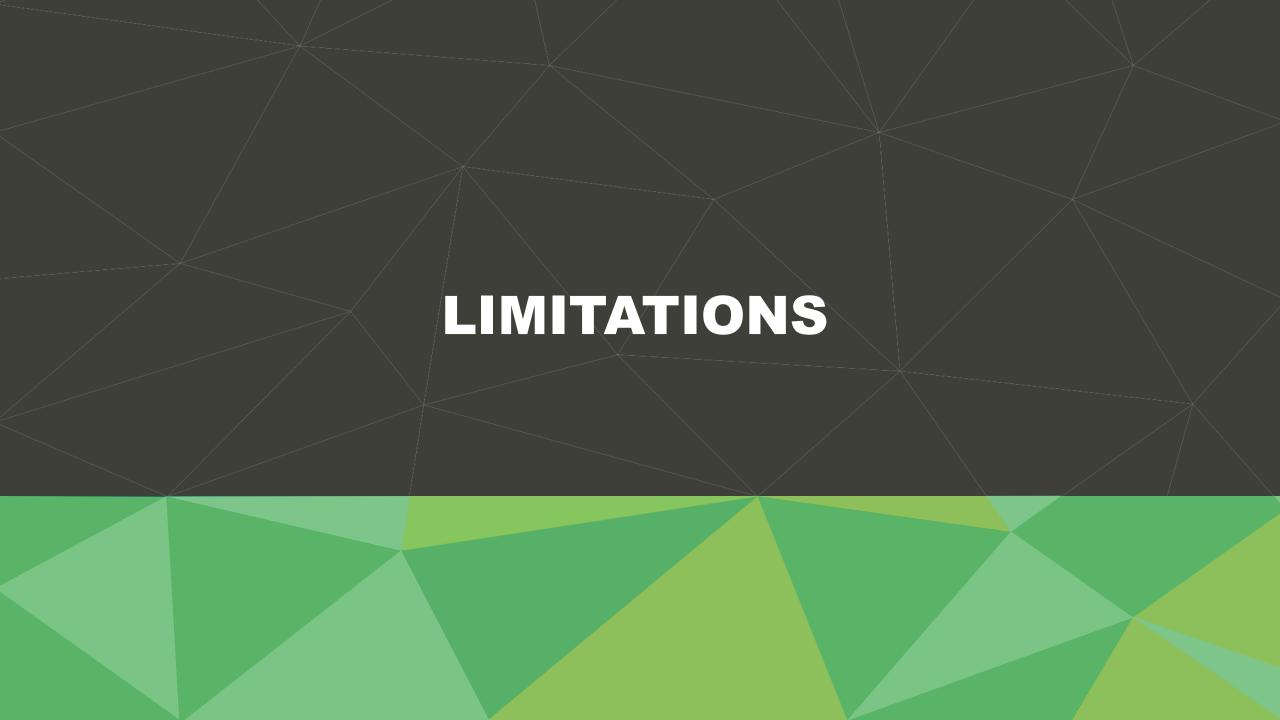
Export Data



Testing Datasets

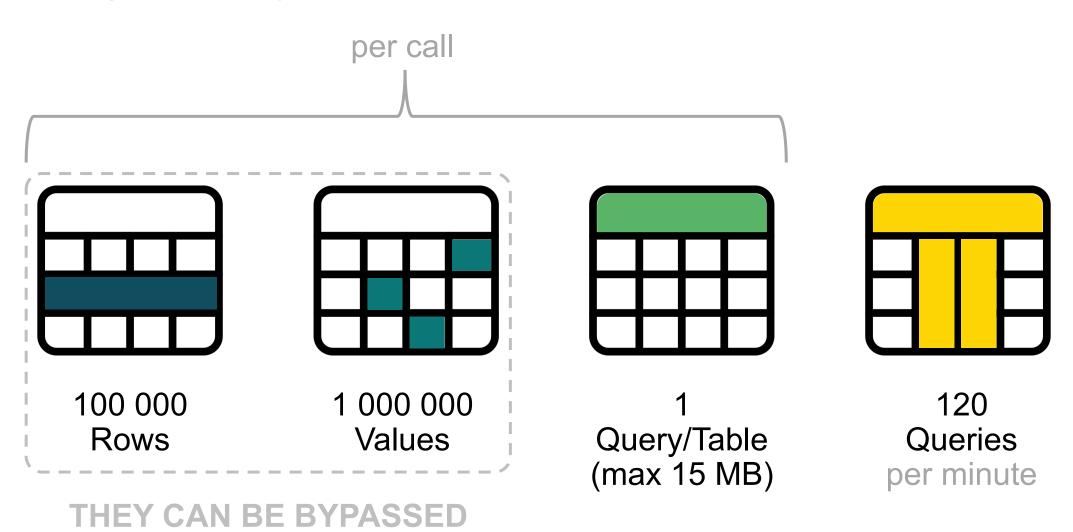


Automize Agenda By Data



Endpoint Limitation

Choosing a chart may seem like a chore... but it's not!



ENVIROMENT PREPARING

Tenant Settings

What needs to be set up to use this API.

1	Dataset Execute Queries REST API Enabled for the entire organization		
	Users in the organization can query datasets by using Data Analysis Expressions (DAX) through Power BI REST APIs.		
	Enabled		
	Apply to:		
	The entire organization		
	Specific security groups		
Except specific security groups			
	Apply	Cancel	

Service principals can use APIs to access tenant-level features controlled by Power BI service admins and enabled for the entire organization or for security groups they're included in. You can control access of service principals by creating dedicated security groups for them and using these groups in any Power BI tenant level-settings. Learn more

Apply to:

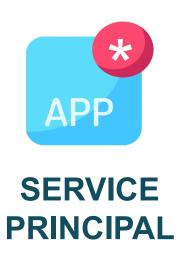
The entire organization
Specific security groups (Recommended)
Except specific security groups

Apply
Cancel

Access Type

Not everything is always the same! So you need to think carefully.

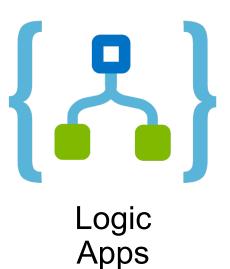




Native callers

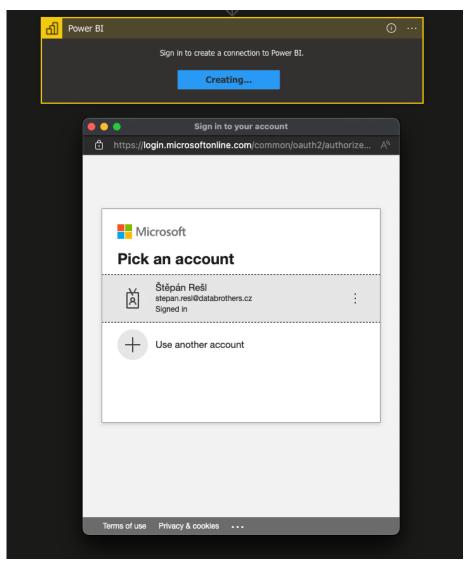
Let's look for something that can work directly with this endpoint.





Simple login

A very straight forward way to log in.



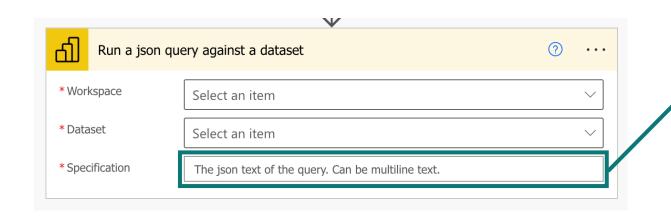
A better way to query this endpoint!

It is part of the licenses for tools of the O365 family. (So free)



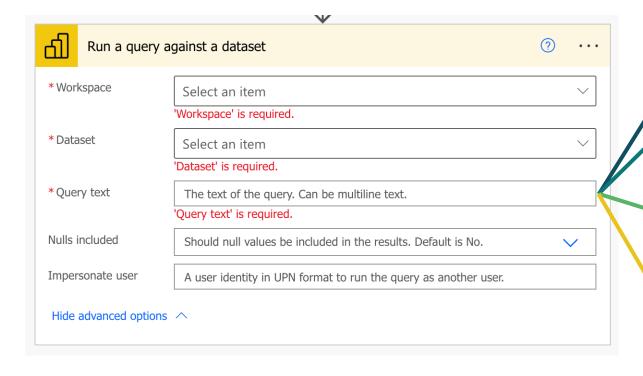
The first, more complicated option

It requires all internal requirements to be set directly in the transmitted body



A simpler option

Just click on the options and complete the DAX query



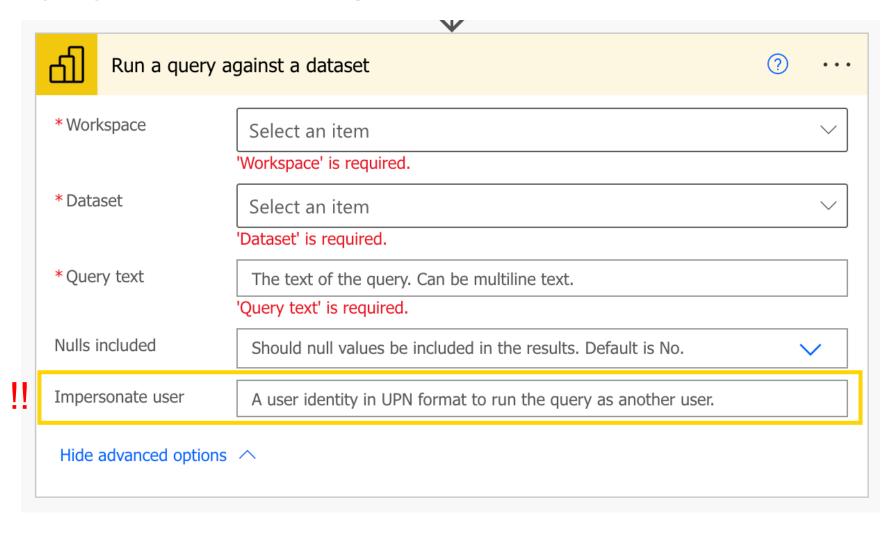
```
lastWeek
   EVALUATE
   ADDCOLUMNS (
                 lastWeek,
                  "@forename", RELATED ( 'Employees'[Forname] )
DEFINE
    VAR t =
        ADDCOLUMNS (
            SUMMARIZE ( 'Employees', [Forname] ),
            "@counter", CALCULATE ( COUNTROWS ( pbiCardResults )
    VAR sum =
       SUMX ( t, [@counter] )
EVALUATE
{ _sum }
```

EVALUATE

```
EVALUATE
TOPNSKIP ( 2, 3, lastWeek, lastWeek[Index], ASC )
```

Including RSL

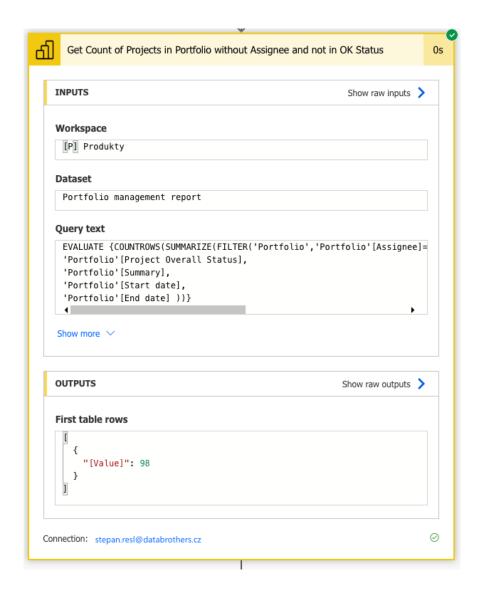
But watch out! It's not like you can impersonate someone else with READ rights. Only if you have WRITE rights



LETS TRY SOME CALLS!

HOW TO WORK WITH RESPONSES?

Response



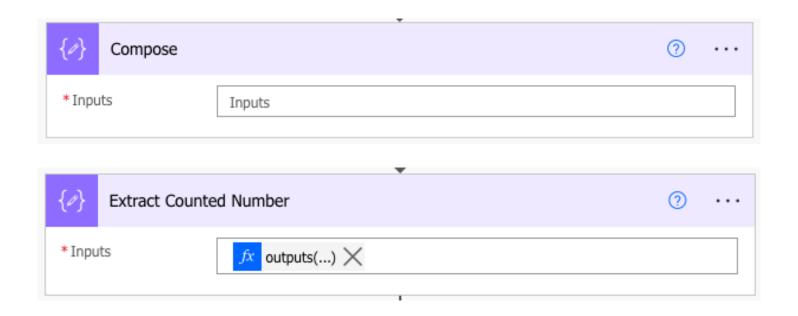
Browsing records in response

Power Automate passes each ARRAY through the "Apply to each" method. Even if it contains only one record.



How to eliminate an unnecessary cycle?

You can query directly to the first entry inside the answer.



outputs('Get_Count_of_Projects_in_Portfolio_without_Assignee_and_not_in_OK_Status')?['body/firstTableRows']?[0]?['[Value]']

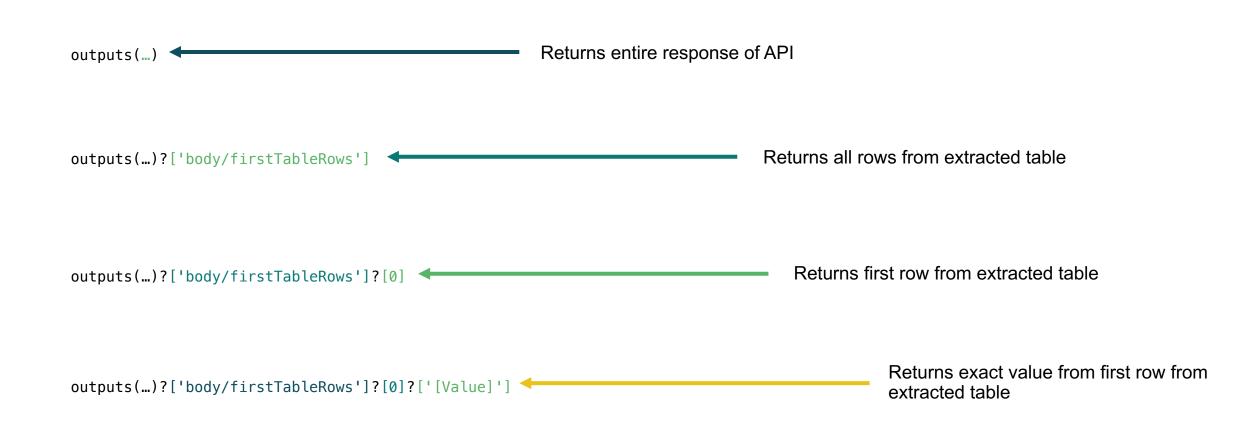
Response

You can verify that this repair procedure works by running a test.



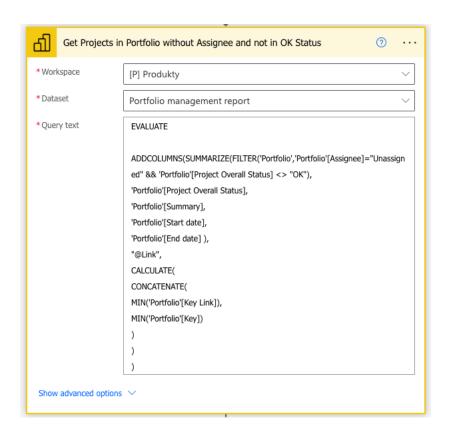
Power Automate ways to extract a response

Simple instructions on how to get a specific type of answer



Returned Resutis

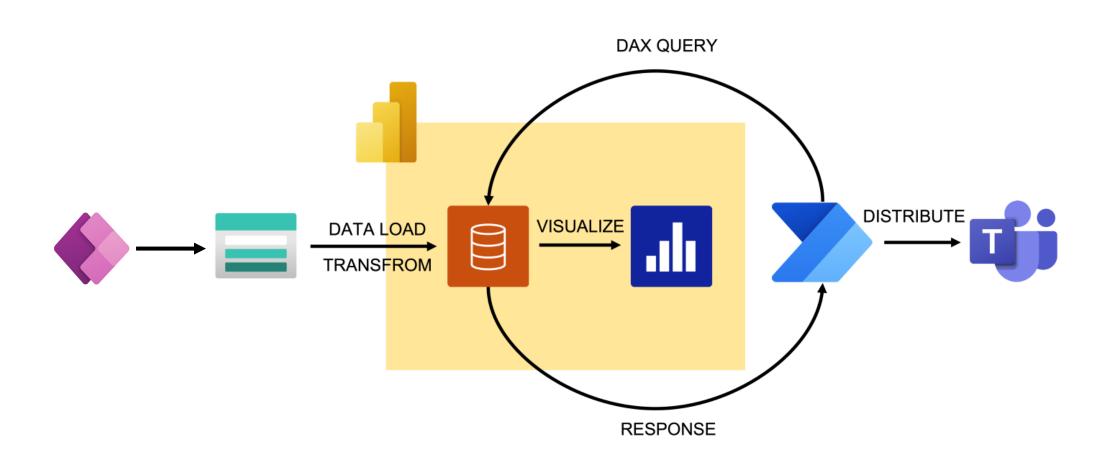
The query returned from the model is subject to certain rules



```
"Portfolio[Project Overall Status]": "N/A",
"Portfolio[Summary]": "Application Of Machine Learning Prediction Algorithm",
"Portfolio[Start date]": "2019-07-17T00:00:00",
"[@Link]": "https://reportee.cz/cs/HHH-9"
"Portfolio[Project Overall Status]": "ISSUE",
"Portfolio[Summary]": "Application Of Azure Synapse",
"Portfolio[Start date]": "2019-07-17T00:00:00",
"[@Link]": "https://reportee.cz/cs/HHH-9"
"Portfolio[Project Overall Status]": "RISK",
"Portfolio[Summary]": "Mining Worker Safety Helmet",
"Portfolio[Start date]": "2021-01-01T00:00:00",
"Portfolio[End date]": "2022-02-28T00:00:00",
"[@Link]": "https://reportee.cz/cs/HHH-134"
```

Full story

If I expand the original story with what we just learned, then we're done!



THANK YOU FOR THE ATTENTION







ŠTĚPÁN REŠL













