Power Automate | How to Get More Than 100,000 Rows From a Dataverse Table
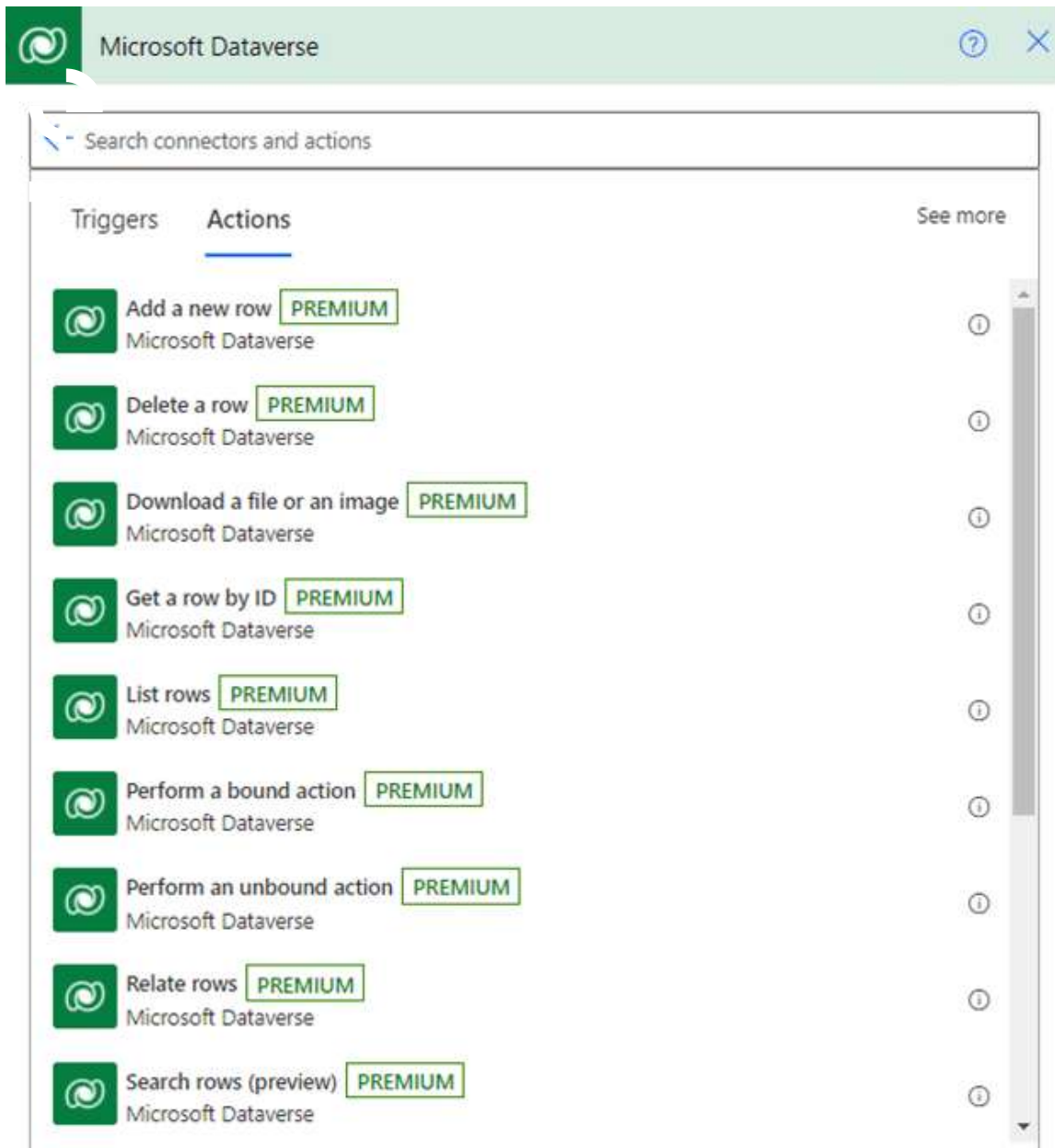
November 3rd, 2021

By Justin Song, Senior BI Analyst

Did you know that the list rows action from the Dataverse connector in Microsoft Power Automate has a limit on the number of rows that can be returned? The Dataverse connector returns up to 5,000 rows by default. Follow the below instructions to see how to get more than 5,000 rows:

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Dynamics 365 CRM: Workflows vs Power Automate vs Plugins vs JavaScript vs Business

Microsoft Dataverse

Search connectors and actions

Triggers   **Actions**   See more

Add a new row PREMIUM
Microsoft Dataverse

Delete a row PREMIUM
Microsoft Dataverse

Download a file or an image PREMIUM
Microsoft Dataverse

Get a row by ID PREMIUM
Microsoft Dataverse

List rows PREMIUM
Microsoft Dataverse

Perform a bound action PREMIUM
Microsoft Dataverse

Perform an unbound action PREMIUM
Microsoft Dataverse

Relate rows PREMIUM
Microsoft Dataverse

Search rows (preview) PREMIUM
Microsoft Dataverse

To get more than 5,000 rows, turn on the Pagination and set the threshold up to 100,000 in Settings:

Rules

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List rows

? ...

Table name *
Choose a table ⌄

Show advanced options ⌄

🧪 Static result (Preview)

⚙ Settings

📐 Configure run after

Rules

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vs Power Automate vs Plugins
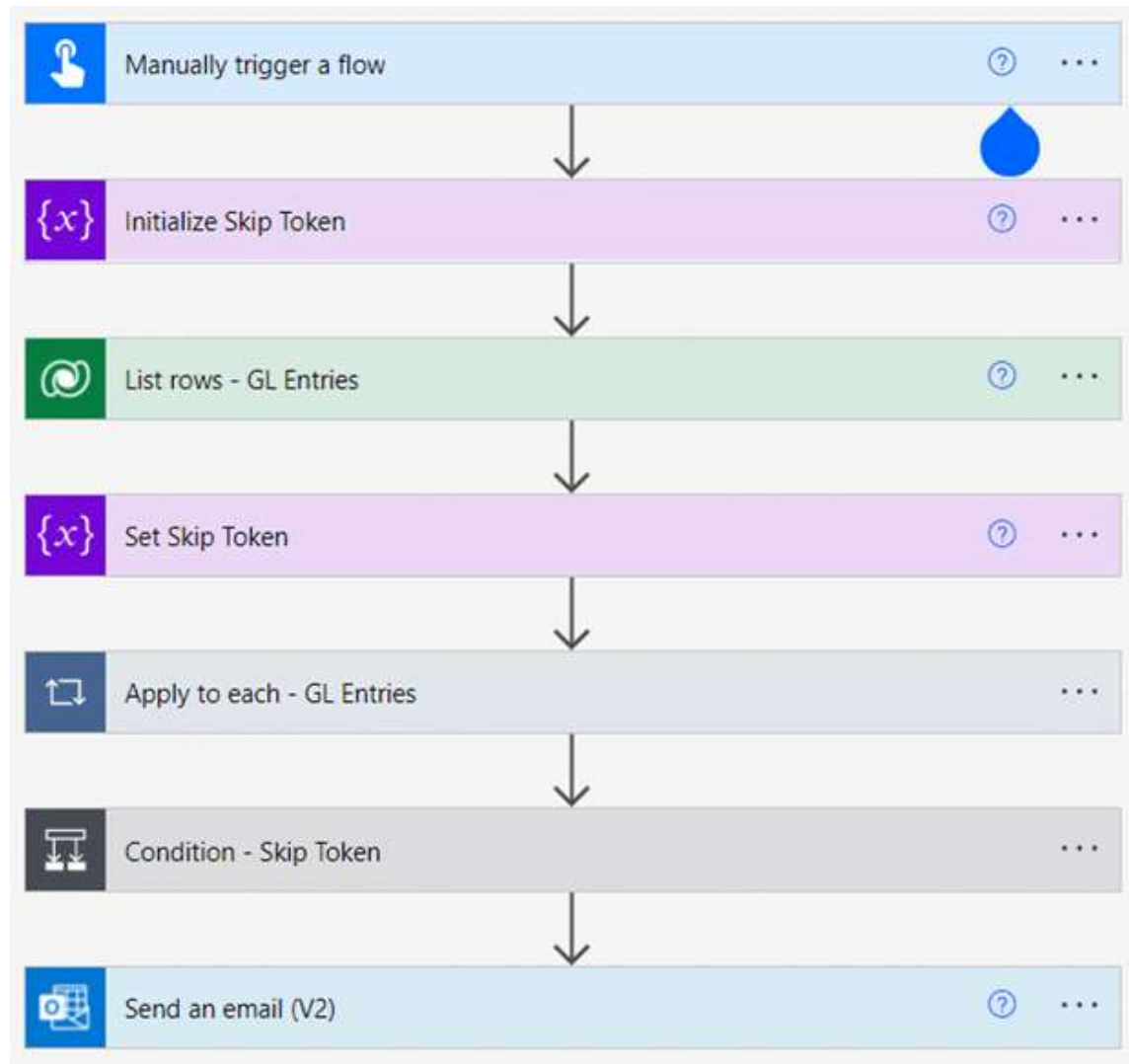vs JavaScript vs Business

Settings for 'List rows'
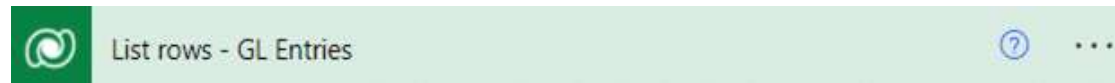
Pagination

Retrieve items to meet the specified threshold by following the continuation token. Due to connector's page size, the number returned may exceed the threshold.

Pagination ⬤ On

Threshold

> Threshold of items to return

The threshold should be a number greater than 0 and less than or equal to 100000.

Secure Inputs

Secure inputs of the operation.

Secure Inputs ◯ Off

Secure Outputs

Secure outputs of the operation and references of output properties.

Secure Outputs ◯ Off

Asynchronous Pattern

With the asynchronous pattern, if the remote server indicates that the request is accepted for processing with a 202 (Accepted) response, the Logic Apps engine will keep polling the URL specified in the response's location header until reaching a terminal state.

Asynchronous Pattern ⬤ On

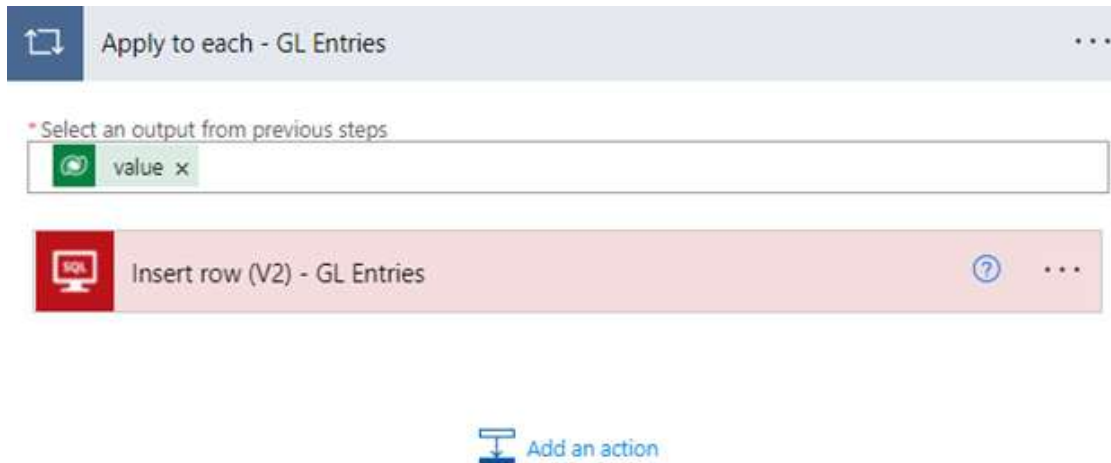### Automatic decompression

Automatically decompress gzip response.

Automatic decompression ⬤ On

Timeout

Limit the maximum duration an asynchronous pattern may take. Note: this does not alter the request timeout of a single request.

Duration ⓘ

> Example: P1D

Retry Policy

A retry policy applies to intermittent failures, characterized as HTTP status codes 408, 429, and 5xx, in addition to any connectivity exceptions. The default is an exponential interval policy set to retry 4 times.

Type

> Default ⌄

Tracked Properties

Done   **Cancel**

What if you have more than 100,000 rows to process? Here's how you can get more than 100,000 rows from Dataverse table; use the skip token to send another request until the skip token returns empty.

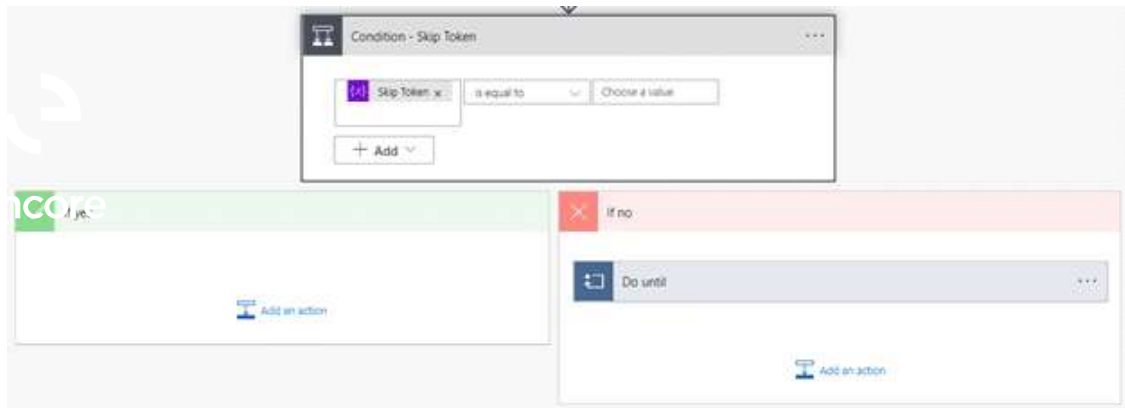|	Manually trigger a flow	?	...
{x}	Initialize Skip Token	?	...
	List rows - GL Entries	?	...
{x}	Set Skip Token	?	...
	Apply to each - GL Entries		...
	Condition - Skip Token		...
	Send an email (V2)	?	...

Rules

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1. Initialize variable

*Name	Skip Token
*Type	String
Value	Enter initial value
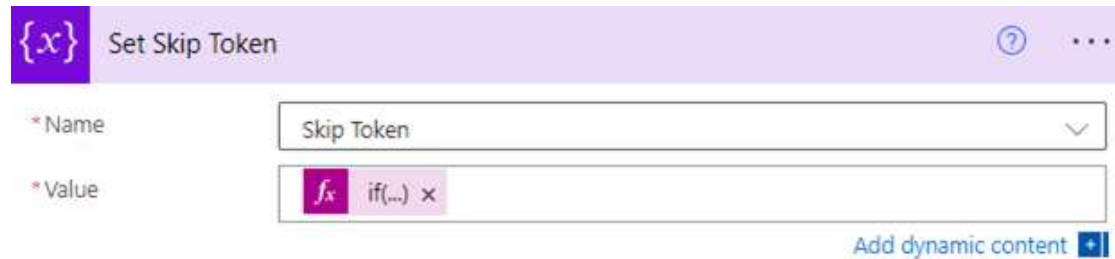
2. List rows action from Dataverse connector:

List rows - GL Entries

3. Set variable to skip token from *@odata.nextLink* value with the expression below. You need to replace both 'List_rows_-_GL_Entries' with your name of List rows action:

*Name	Skip Token
*Value	*fx* if(...) ×

Add dynamic content

```
if
(
  empty
  (
    outputs('List_rows_-_GL_Entries')?['body/@odata.nextLink']
  ),
  '',
```

```
decodeUriComponent
(
  last
  (
    split
    (
      uriQuery(outputs('List_rows_-_GL_Entries')?
['body/@odata.nextLink']),
      'skiptoken='
    )
  )
)
)
```

4. Insert/run first 5,000 rows:

5. Add a condition if the variable is not empty:

Suggested Articles:

6. Do this until the variable becomes empty for every 5,000 rows as a batch. Set the count to 5,000. Enter timeout. PT1H is one hour.

If no

Do until ...

| (x) Skip Token x | is equal to ∨ | Choose a value |

Edit in advanced mode

Change limits ∧

Count

5000

Timeout

PT1H

⟳ List rows - GL Entries with Skip Token ⑦ ...

↓

{x} Set variable in Loop ⑦ ...

↓

⟲ Apply to each ...

⊥ Add an action

⊥ Add an action

7. Use the variable on the skip token to get the next 5,000 rows:

Rules

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8. Set next skip token from **_@odata.nextLink_** value to the variable with expression below. You need to replace both 'List_rows_-_GL_Entries_with_Skip_Token' with your name of List rows action (previous step):


```
if
(
  empty
```
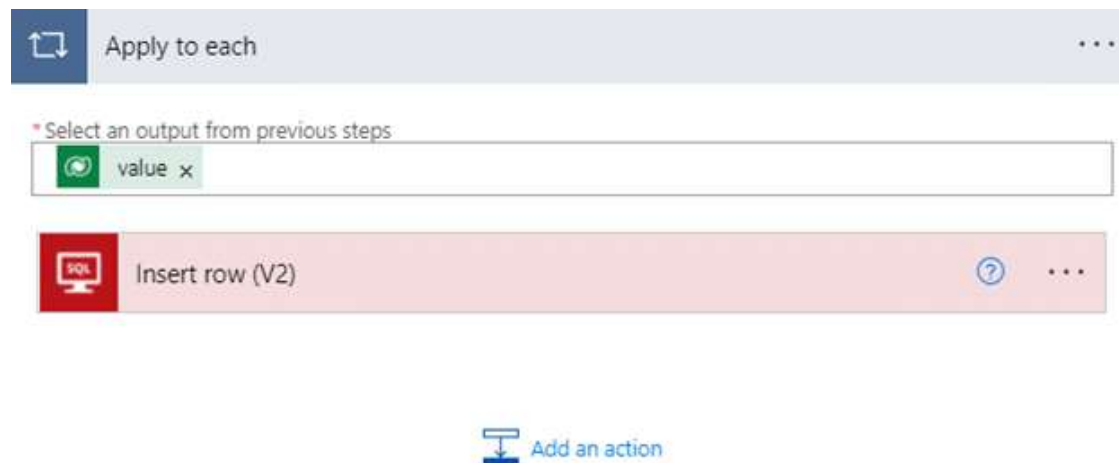
```
(
   outputs('List_rows_-_GL_Entries_with_Skip_Token')?
['body/@odata.nextLink']
   ),
   '',
   decodeUriComponent
   (
      last
      (
         split
         (
            uriQuery(outputs('List_rows_-
_GL_Entries_with_Skip_Token')?['body/@odata.nextLink']),
            'skiptoken='
         )
      )
   )
)
```

9. Insert/run returned list of rows:

Apply to each   ...

*Select an output from previous steps

value ×

Insert row (V2)   ?   ...

Add an action

And you're done! If you have any questions about Power Automate, please feel free to reach out to us.

Categorized In: Power Automate, Power Platform

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