



Power BI



deepseek



Power
Automate



DAX Query Automation in Power BI with Power Automate and Deepseek API

Enhancing Efficiency with AI-driven Query Automation

Introduction

Power Automate: A Versatile Tool

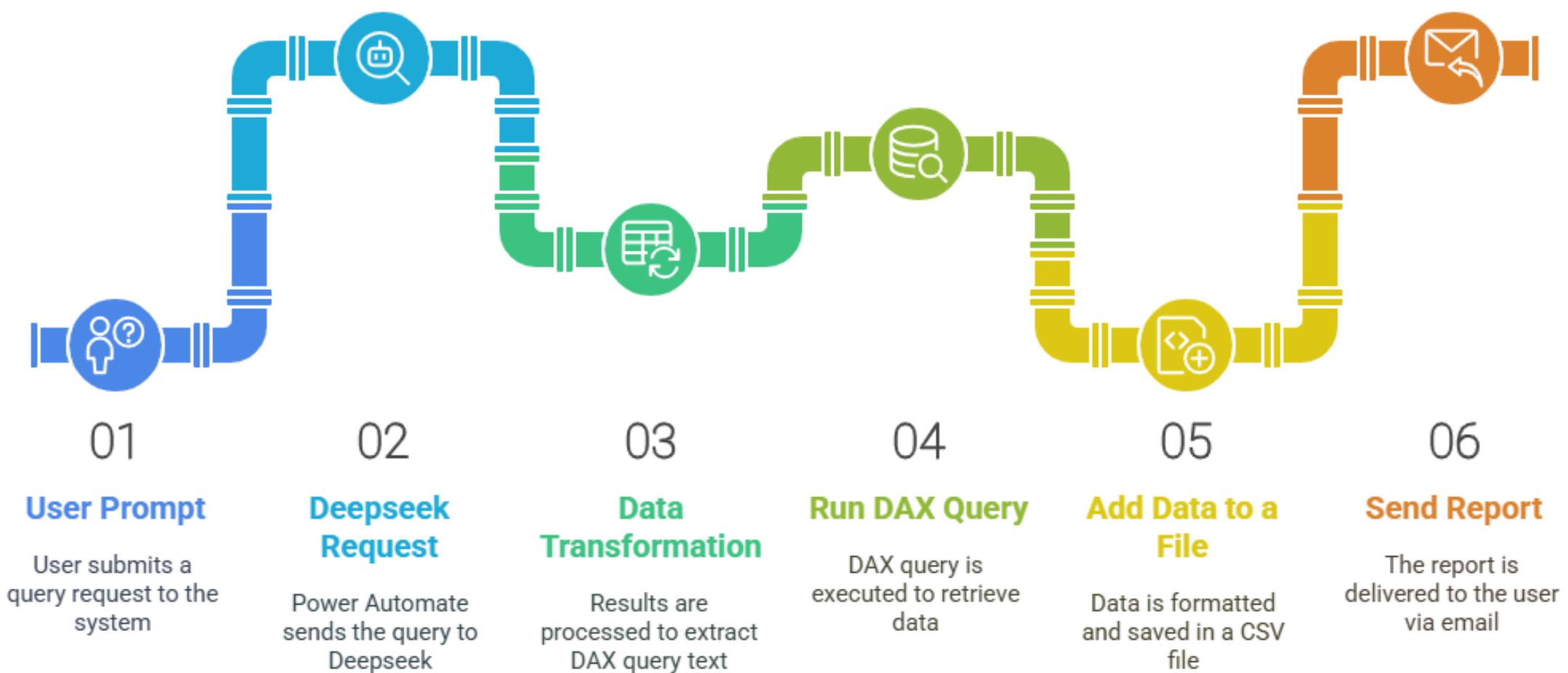


Navigating the complexities of reporting can often be a daunting task, especially for users unfamiliar with coding. While Office 365's Power Automate facilitates some level of automation, its basic logic can feel restrictive. Enter AI — a dynamic but often costly solution. However, Deepseek emerges as a game-changer, providing a cost-effective AI tool that allows seamless integration of complex queries in natural language within Power Automate. This process not only enhances efficiency but also democratizes advanced data manipulation, making it accessible to all users.

My Solution

AI-Powered Query Automation

Data Query and Reporting Process



By integrating Power Automate with the Deepseek API, I have created a seamless automation system that enhances data accessibility.

How It Works

User Prompt

The user will write a prompt that will be sent to the automation

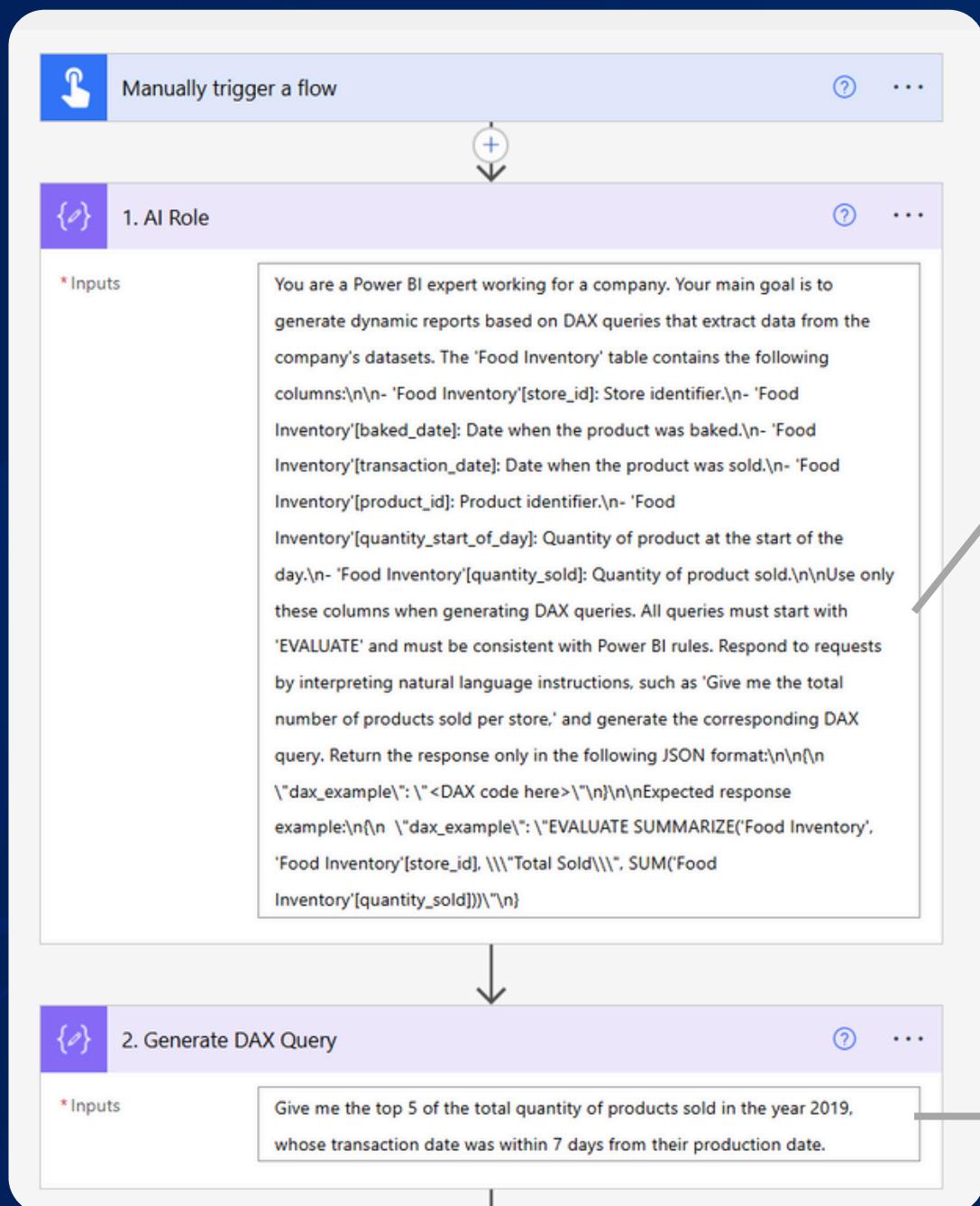


“ Give me the top 5 of the total quantity of products sold in the year 2019, whose transaction date was within 7 days from their production date”

How It Works

User Prompt

Then the automation will be triggered. Additionally an AI role prompt will be sent with a precise instruction of the format of the response. After that, the prompt will be added to a compose to be sent to the HTTP request.



You are a Power BI expert working for a company. Your main goal is to generate dynamic reports based on DAX queries...

The 'Food Inventory' table contains the following columns:
- 'Food Inventory'[store_id]: Store identifier.
- 'Food Inventory'[baked_date]: Date when the product was baked....

Return the response only in the following JSON format:
"dax_example": "<DAX code here>"
example:
"dax_example": "EVALUATE SUMMARIZE('Food Inventory', 'Food Inventory'[store_id], \"Total Sold\", SUM('Food Inventory'[quantity_sold]))"

Give me the top 5 of the total quantity of products sold in the year 2019, whose transaction date was within 7 days from their production date.

How It Works

Deepseek Request

With the prompts ready, we can send the request to Deepseek by using the API.

The screenshot shows an HTTP client interface with the following configuration:

- Method:** POST
- URI:** <https://api.deepseek.com/chat/completions>
- Headers:** Authorization: [REDACTED]
Enter key: [REDACTED] Enter value: [REDACTED]
- Queries:** Enter key: [REDACTED] Enter value: [REDACTED]
- Body:**

```
{
  "model": "deepseek-chat",
  "messages": [
    {
      "role": "system",
      "content": "Outputs"
    },
    {
      "role": "user",
      "content": "Outputs"
    }
  ],
  "stream": false,
  "max_tokens": 400,
  "temperature": 0
}
```
- Cookie:** Enter HTTP cookie

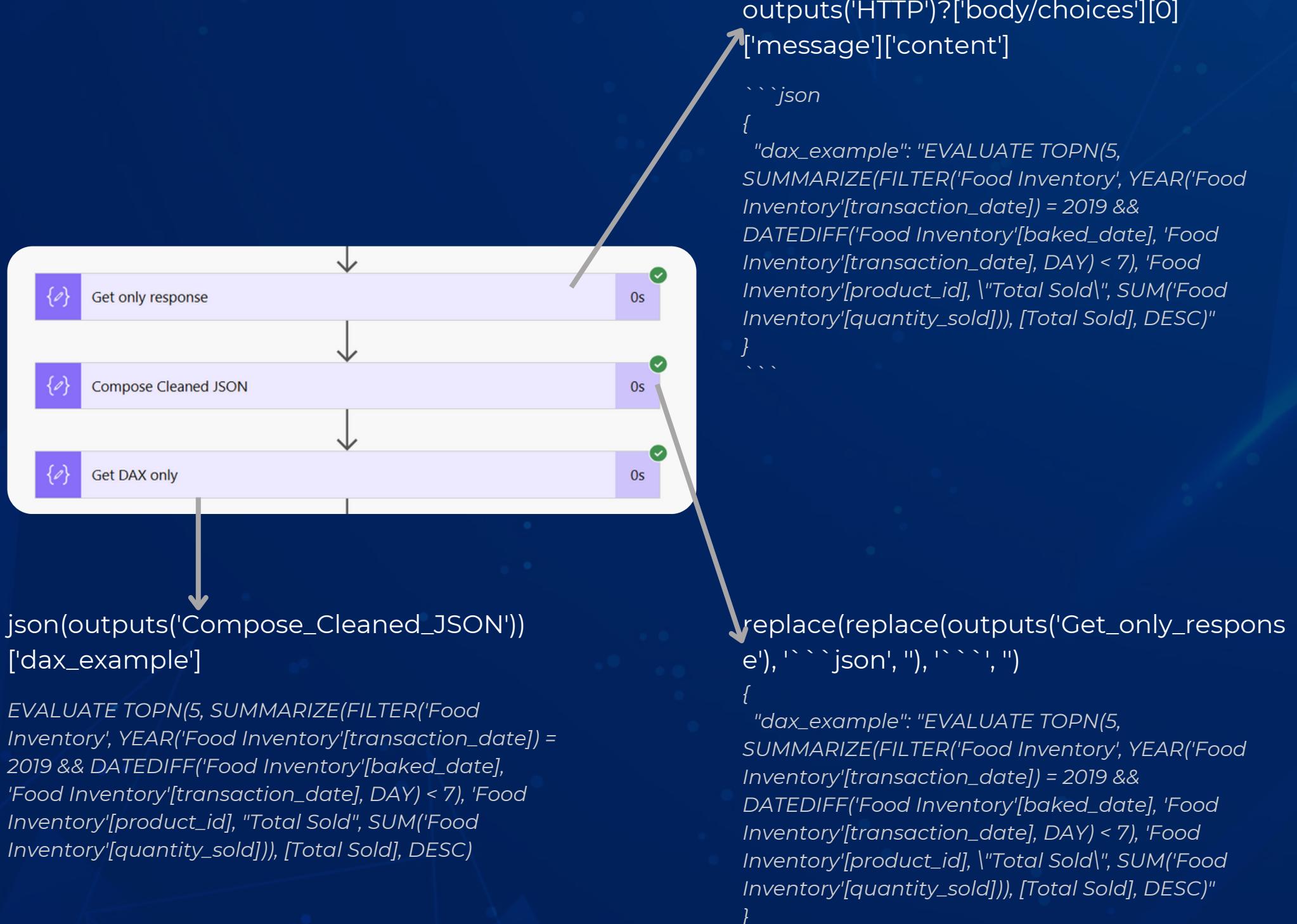
The secret key is specified in this area.

In the system we specify the AI Role, whereas we use the role of user for the prompt.

How It Works

Data Transformation

After getting the response, it is necessary to extract only the DAX query, in consequence, some transformations are performed:



How It Works

Run DAX query and send the report

With the DAX query ready, we can send the request to Power BI to obtain our data:

