

Commenting Power Query with Azure OpenAl

August 14th, 2024

Agenda

- The Challenge
- Commenting Power Query
- Azure OpenAl
 - Demo
- Lessons Learned

About Me

Experience

- •11+ years with Microsoft BI stack
- •8+ years with PowerPivot/Power BI
- •5+ years with Azure DevOps

Contact Me

X @JKerski

John Kerski

Blog

Credentials

MCSE: Productivity

MS: PBI Data Analyst

PMP







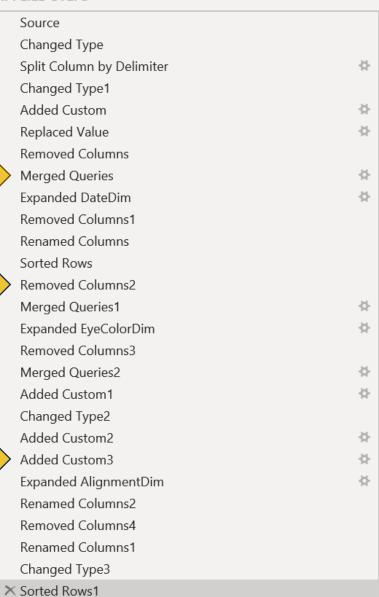
The Challenge

What was the table this was merged with?

What column was removed?

What column was added?

▲ APPLIED STEPS







Commenting my Power Query

Doing something else

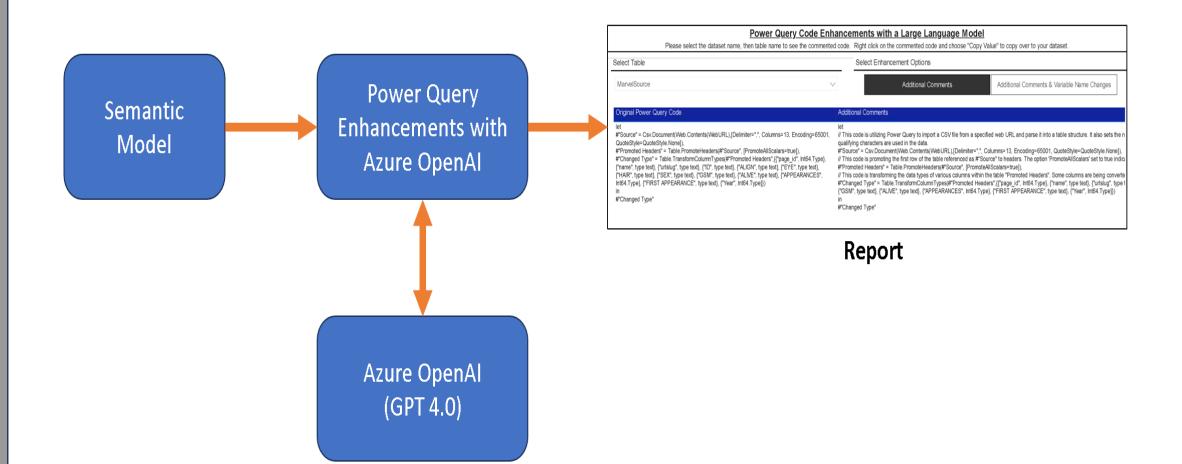
Can Artificial Intelligence Help?



Prerequisites

- Premium, Premium Per User or Fabric Workspace
 - Requires XMLA connection
- Azure OpenAl
 - A ChatGPT 4.0 model deployed. Instructions can be followed at this link.
 - GCC
 - <u>Federal-Business-Applications/whitepapers/copilot at main · microsoft/Federal-Business-Applications (github.com)</u>

DEMO



https://github.com/kerski/pbi-pq-commenter-with-azure-openai/tree/main

Lessons Learned

ChatGPT Prompt Engineering for Developers

You are an assistant to help Power Query developers comment their code.

Please take the code between the ``` Indicate markers in the following:

- 1) Return a comment explaining what that piece of code is doing.,
- 2) Do not start the comment with the word Step or a number,
- 3) Do not copy code into the comment.
- 4) Keep the comments to a maximum of 225 characters.

``` [Code] ```

Set boundaries

Set the premise

# **Lessons Learned (cont.)**

#### **Token Limits**

- 1 token ~= 4 chars in English
  - By Model Microsoft Documentation

#### 8,000 Token Limit

Response M Code + Verbose Comments ~ 6,000 Tokens

Prompt + M Code ~ 3,000 Tokens

Strategies - Greg Kamradt

# **Security Considerations**

- Data, privacy, and security for Azure OpenAl Service
- Protect the Key
  - Vote Microsoft make this easier
- Make this Easier
  - Power Query Commenting with Co-Pilot/Large Language Models

# Thank you

#### **Contact Me**

X @JKerski

**in** John Kerski

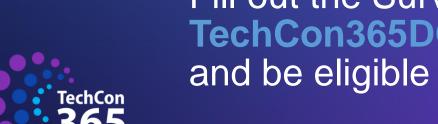
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