

Commenting Power Query with Azure OpenAI

January 24, 2024

Agenda

- The Challenge
- Commenting Power Query
- Azure OpenAI
 - 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

 @JKerski

 [John Kerski](#)

 [Blog](#)

Credentials

- MCSE: Productivity
- MS: PBI Data Analyst
- PMP



John Kerski

Slides:



The Challenge

What was the table this was merged with?

What column was removed?

What column was added?

APPLIED STEPS

- Source
- Changed Type
- Split Column by Delimiter
- Changed Type1
- Added Custom
- Replaced Value
- Removed Columns
- Merged Queries
- Expanded DateDim
- Removed Columns1
- Renamed Columns
- Sorted Rows
- Removed Columns2
- Merged Queries1
- Expanded EyeColorDim
- Removed Columns3
- Merged Queries2
- Added Custom1
- Changed Type2
- Added Custom2
- Added Custom3
- Expanded AlignmentDim
- Renamed Columns2
- Removed Columns4
- Renamed Columns1
- Changed Type3
- ✕ Sorted Rows1

Comment Your Code



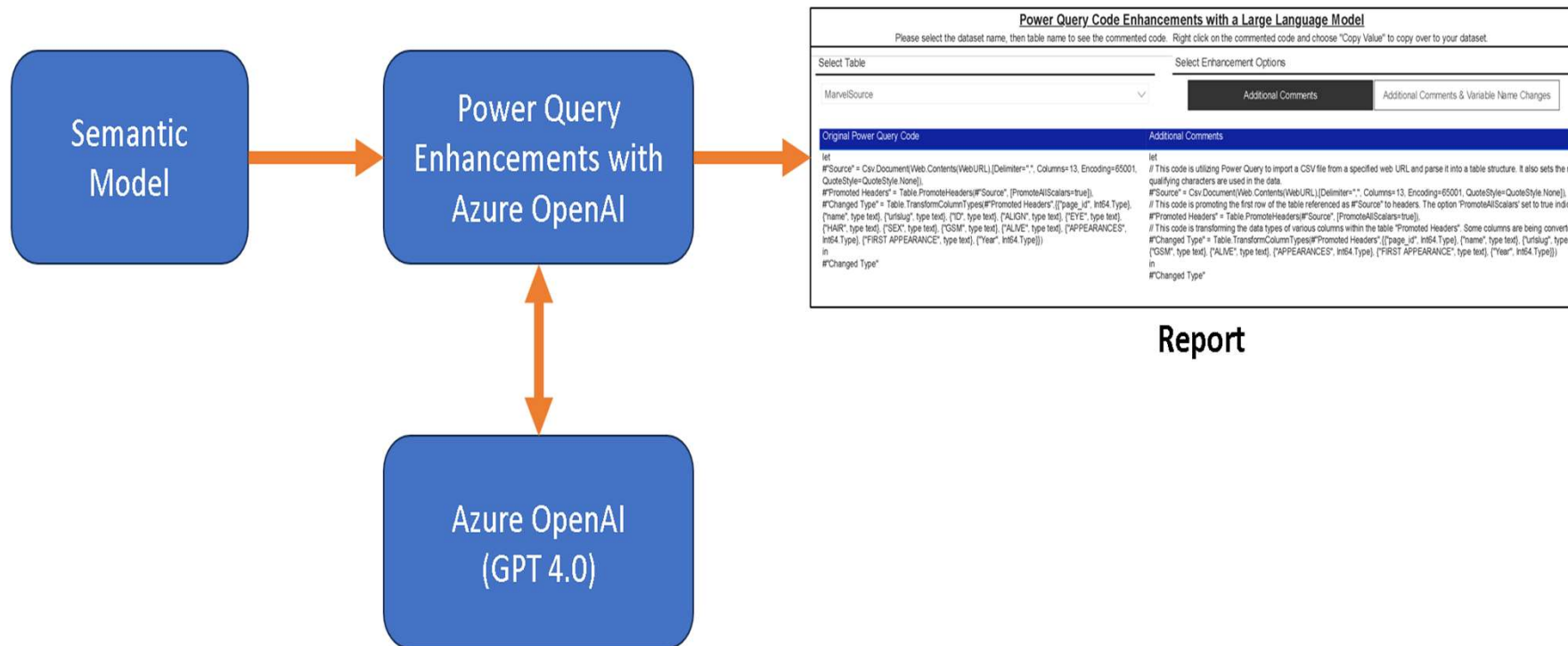
Can Artificial Intelligence Help?



Prerequisites

- Premium, Premium Per User or Fabric Workspace
 - Requires XMLA connection
- Azure OpenAI
 - A ChatGPT 4.0 model deployed. Instructions can be followed [at this link](#).

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 ```:

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 the premise



Indicate markers



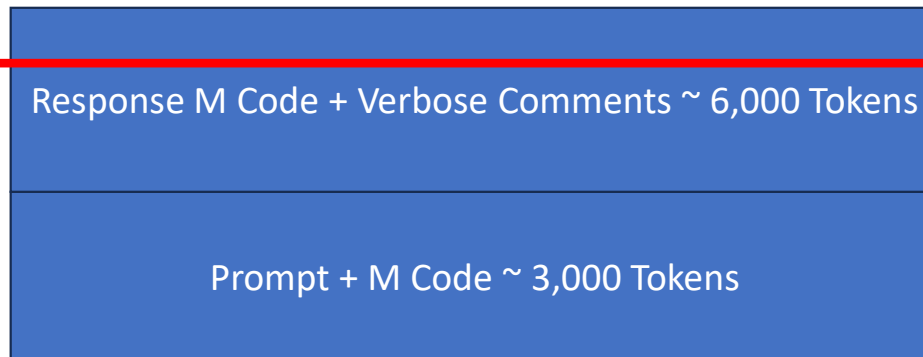
Set boundaries

Lessons Learned (cont.)

Token Limits

- 1 token \sim 4 chars in English
 - By Model - [Microsoft Documentation](#)

8,000 Token Limit



Strategies - [Greg Kamradt](#)


Security Considerations

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

Thank you

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