Excel Power Query

Demonstration

Students are invited to follow along!

Excel Power Query is **not an example** of artificial intelligence (AI) in the **traditional sense of simulating human intelligence processe**s. However, it incorporates AI-like features to facilitate data management and analysis. Here's how it aligns with AI principles:

1. Automation of Repetitive Tasks: Power Query automates the process of data collection, transformation, and preparation, which are typically repetitive and time-consuming. This automation is akin to how AI systems streamline processes.

2. Intelligent Data Transformation: Power Query provides smart features, such as column type detection and transformation suggestions based on the data content. This is somewhat similar to how AI systems learn from data and make decisions or recommendations.

3. Pattern Recognition: Power Query can identify patterns in data, such as date formats or delimiters in text files, and automatically apply transformations across large datasets. This pattern recognition capability is a fundamental aspect of many AI systems.

4. Integration with AI Tools: In the broader context of Excel, Power Query integrates with AI-powered tools like Ideas in Excel, which analyzes data and suggests charts, pivot tables, and insights. This integration enhances the data analysis capabilities of Excel with AI-driven insights.

While Power Query itself is not an AI in the full sense, it utilizes AI-like capabilities to improve data handling and decision-making processes.

Let's give it a try...

Instructions

Data Sets

The following data sets are for the fictional Kevin Cookie Company [1]

https://misdemo.temple.edu/kevincookie/

https://misdemo.temple.edu/kevincookie/2017-Order-Data.xlsx

https://misdemo.temple.edu/kevincookie/2018-Order-Data.xlsx

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[1] Data sets provided by Kevin Stratvert - https://youtu.be/0aeZX1l4JT4?si=OwAukkKCySG3o-2N