# "PERFECT" DATA MODEL

Mihaly Kavasi - Budapest Bl Forum 2022 – Tutorial Nap – 15. Nov. 2022

## Introduction



#### **Mihaly Kavasi**

**Group Manager** 

**Delivery Lead and Trainer** 

#### Avanade

- √ 6+ Years of Power BI Experience
- √ 5+ Years of Training Experience
- ✓ Microsoft Certified Solution Expert Data Management and Analytics
- ✓ Microsoft Certified Trainer since 2018
- ✓ Azure Enterprise Data Analyst
- ✓ Fasttrack Recognized Solution Architect since 2021













#### Content we use?

- Download the files:
  - https://github.com/KavasiMihaly/Conference-Open
    - Retail Model.pbix
    - Crime Data folder (optional)
- Install the following tools:
  - Power BI (latest version)
  - Dax Studio
  - <u>Tabular Editor (free version)</u>
  - ALM Toolkit

## What makes a data model "perfect"?

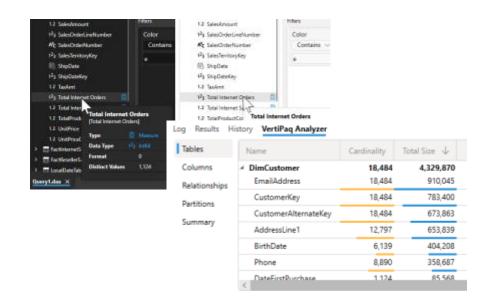
- Reusability: Not specifically built to support a report but generic to support wide ranging analytics on a topic.
- Optimized for good performance
- Prepared for self-service (for other creator and end users)
- Clean, unambiguous naming convention
- All type of analytical usage considered
  - Power BI Report
  - Analyze in Excel
  - Natural Language Queries
  - Featured tables
  - Paginated Reports
  - Report Personalization
  - 3<sup>rd</sup> party tools

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#### **Tools – Dax Studio**

The ultimate tool for working with DAX queries.

- Robust Query builder
- DAX Profiler
- Query Performance Analyzer
- Access to DMV
- Analyze models Vertipaq Analyzer
- Data Export capabilities

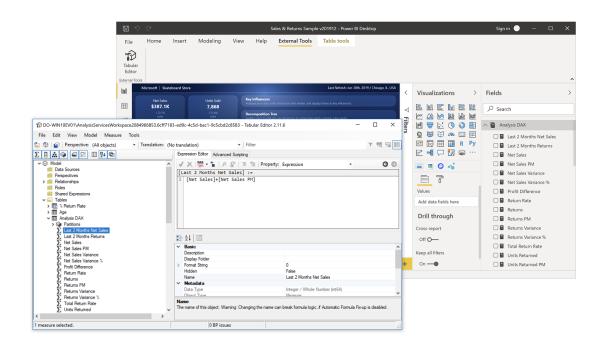


https://daxstudio.org/

### **Tools – Tabular Editor**

A lightweight editor for Tabular Models.

- Fast only works with metadata
- Highly customizable
- Efficient use C# Scripts for repeatable actions
- Best Practice Analyzer for model optimization

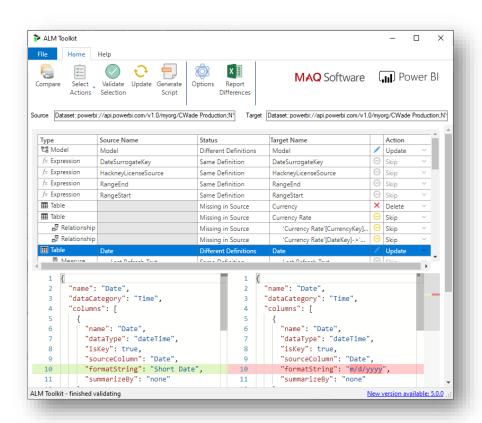


https://tabulareditor.github.io/

#### Tools – ALM Toolkit

Free and open-source tool to manage Microsoft Power BI datasets

- Schema compare
- Code merging
- Selective deployment
- Schema differences documentation



http://alm-toolkit.com/