Top 5 Manual Tips to Optimize DAX Queries

Tip Why I Choose It (Benefit)

1. Minimize the number of FILTER FILTER iterates row-by-row; reducing its use in favor of

simpler CALCULATE conditions speeds up queries.

2. Use variables (VAR) to store Prevents recalculating the same expression multiple

intermediate results times, reducing engine work.

3. Replace ALL with ALLSELECTED or Selective functions maintain context and improve

REMOVEFILTERS when possible performance.

4. Use measures instead of Measures are computed on demand, saving memory and

calculated columns where possible avoiding unnecessary storage costs.

5. Reduce cardinality of columnsLower cardinality (fewer unique values) in model columns leads to faster scan and aggregation times.

Benefits of DAX Optimization Tools

Tool Key Benefit

DAX StudioAnalyzes query execution times, identifies bottlenecks, shows server

timings.

Performance Analyzer

(in Power BI)

Records the rendering time of visuals and the query time separately

to pinpoint slow visuals.

Tabular Editor

Helps refactor measures, remove unused columns, and manage

calculation groups for performance and maintainability.