

Faster & Better Power BI

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Improve speed performance of Power BI





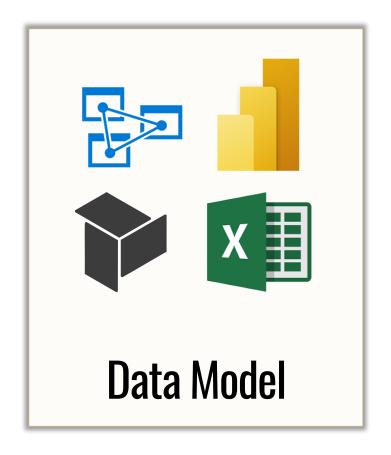


What happen ????

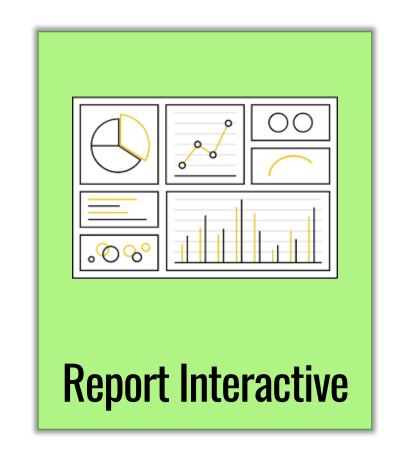




Right Approach







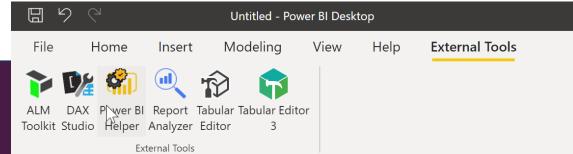


Right Tools → External Tools ◎



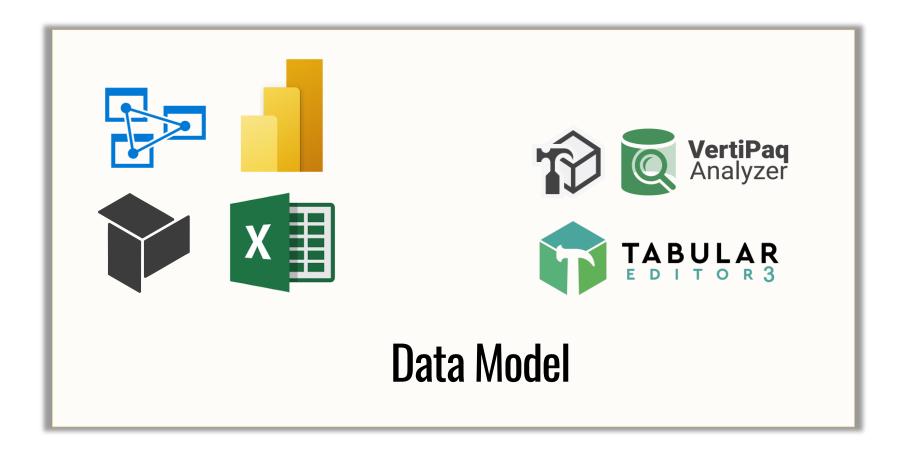








Demo 1 – DATA MODEL





Data Model - Topics

- 1. Import only those columns you really need
- 2. Reduce the column cardinality!
- 3. Same as for columns, keep only those rows you need
- 4. Avoid using calculated columns whenever possible, since they are not being optimally compressed
- 5. Use proper data types (DateTime to Date)
- 6. Avoid using floating point data types
- 7. Disable Auto Date/Time option for data loading
- 8. Use Star schema instead of Snowflake schema when possible
- 9. Avoid bi-directional and many-to-many relationships against high cardinality columns
- 10. Overusing Calculated Columns
- 11. Overusing expensive relationships
- 12. Remove Primary Key columns from fact tables



Demo 2 - Queries



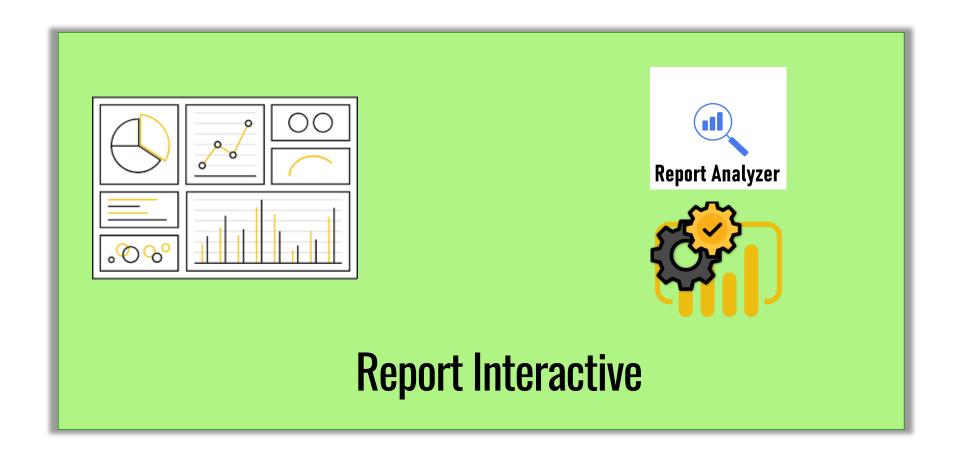


Queries - Topics

- 1. Use Variables when you can precompute and reuse some calculations
- 2. Try to avoid CallBack (ex : complex filter)
- 3. Using '/' for division
- 4. Avoided this function SEARCH, IFERROR, CONTAINS, and INTERSECT functions
- 5. The FILTER function is often overused. Its main purpose is for filtering columns based on measure values.
- 6. Add column and measure references in your DAX expressions
- 7. Use ISBLANK() instead of =Blank() check
- 8. Use COUNTROWS instead of COUNT
- 9. Work upstream, if possible
- 10. format your code! (Use DAX Formatter)
- 11. Split your calculations in smaller blocks
- 12. User-friendly names are the best

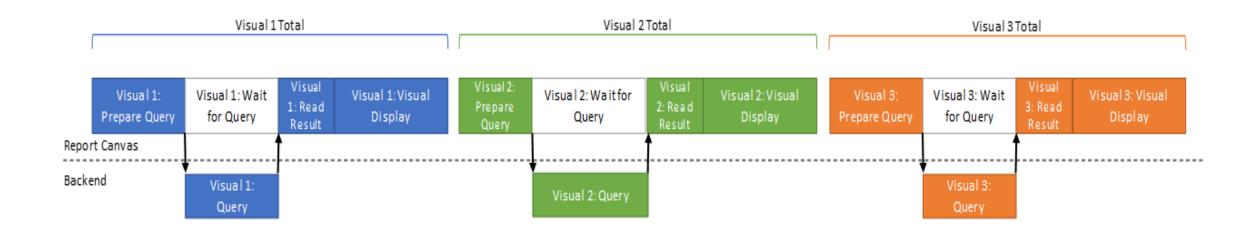


Demo 3 – Report Interactive



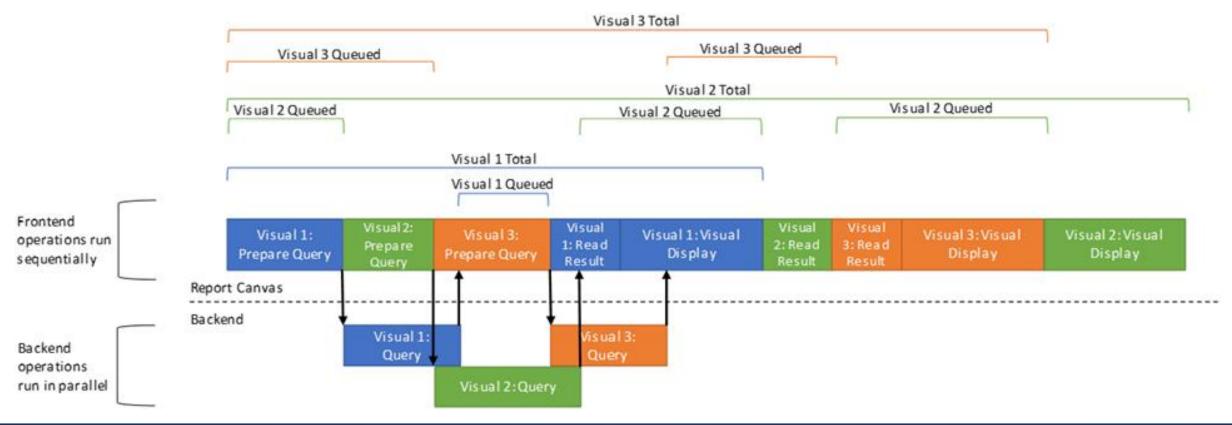


Relating User Actions to Visuals and Queries





Relating User Actions to Visuals and Queries





Report Interactive – Topics

- 1. Limit the number of visuals in dashboards and reports
- 2. Remove unnecessary interactions between visuals
- 3. Reduce the amount of data loaded on page load
- 4. Use tooltips to provide more information on visuals and metrics
- 5. Allow users to personalize visuals in a report
- 6. Reduce queries
- 7. Use report backgrounds for static images
- 8. Avoid scrolls within the visual and on page
- 9. Test custom visual performance before use
- 10. Use drillthrough buttons instead of expecting users to right-click on data points



Link

- 1. https://tabulareditor.com/downloads
- 2. https://daxstudio.org/
- 3. https://www.elegantbi.com/post/reportanalyzer
- 4. https://powerbi.microsoft.com/en-my/blog/best-practice-rules-to-improve-your-models-performance/
- 5. https://www.elegantbi.com/post/bestpracticerulesavings
- 6. https://data-mozart.com/how-i-speed-up-my-power-bi-report-5x/
- 7. Power BI slicers vs the filter pane (2021) YouTube



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Any Questions?



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THANK YOU

Resources:

