

## 10 Tips to improve Power BI report performance

Follow the following best practices to improve your Power BI report performance. These are mostly applicable in common enterprise scenarios when dealing with large data sets, and multiple visuals.

- ❖ Redundant interactions between the visuals
  - Default Power BI behavior is all visuals on a page interact with one another. Disabling unwanted interactivity reduces the number of queries fired at the backend and improves report performance
- ❖ Certified visuals from the Marketplace
  - Some custom visuals from the marketplace may provide some features or look and feel you require; however, they may not be fully optimized for performance and have gone through the rigorous quality testing
- ❖ Limit number of visuals on a page
  - Placing many visuals on a single page slows the performance. Try limiting to around 4 visuals on a page
- ❖ Use bookmarks and drill through to maintain seamless user experience while moving visuals to other pages
- ❖ Limit slicers
  - Too many slicers impact performance negatively. Slicers are a great way of allowing users to navigate data, but they come at a performance cost. Each slicer generates two queries: one to get the data, and another to fetch selection details
- ❖ Align Cache Update with Data Source Refresh
  - By default, the Power BI cache frequency is set to one hour. If, the dataset refreshes only once per day, you should update the cache frequency accordingly
- ❖ Co-locate Power BI premium and data warehouse in the same region
  - With the tenant and data sources in the same region, network latency is reduced. This results in faster data transfer and faster query execution
- ❖ Use the On-premises data gateway instead of Personal Gateway
  - Personal Gateway takes data and imports it into Power BI whereas Enterprise Gateways imports nothing making it more efficient
- ❖ Use different gateways for Scheduled Data Refresh and Live Connection
  - Using the same gateway will slow down Live Connection when Scheduled Data Refresh is in progress
- ❖ Push calculated columns and measures to the source.
  - The closer they are to the source, the higher the likelihood of improved performance