Optimize Power BI environment

By following best practices, we can greatly optimize Power BI environment. It will provide a better end user experience and consistent performance for developers and administrator.

- Use Dashboard as landing page
  - Dashboard in Power BI are created by pinning report visuals as a tile. Power BI cache the dashboard tiles. It provides better and consistent performance (streaming data tiles or live refresh tiles are not cached). Using dashboard as the landing page when user first login, will provide a better user experience
- Sync caching with data source refresh for Direct query and live connection
  - Power BI refreshes direct query cache every hour. Cache refresh will send queries to the underline data source. If the data source data refresh less frequently then syncing the frequency will improve the performance.
- Limit number of rows to display in a visual
  - Use TopN to limit the number of rows displayed in a visual.
- Power BI paginated report designs can be optimized by applying best practice design to the report's data retrieval
- Limit complicated measures and aggregations in data models
- Create calculated measures instead of calculated columns.
- Use star schema for designing data models.
- Import Only Necessary Fields and Tables
  - Keep the model as narrow and lean as possible.
  - Power BI works on columnar indexes; longer and leaner tables are preferred
- Configure Gateway sizing
  - A minimum of 8 cores and 8 GB RAM is needed to run the on-premise gateway. Determine the sizing needed to support cached data and direct query