DATA MODELING

☐ Define the data model structure. it's crucial to have a clear understanding of the structure before proceeding with other steps.

☐ Create and manage the relationships. Establish relationships between tables based on common fields to enable accurate data analysis and visualization.

☐ Avoid many-to-many relationships whenever possible.

☐ Use of inactive relationship.

☐ Check the fact and dimension table to create the schema. Organize your data into fact tables (Containing measurable, numeric data) and dimension tables (containing descriptive attributes), following a star or snowflake schema for optimal performance.

☐ Check relationship direction. Ensure that relationships between tables are correctly defined, considering the direction of filtering and aggregation to avoid data inaccuracies.

☐ Keys (Primary Key or Business Key) of the table – make it hidden so it will not be part of Q&A e.g., Customer Key

☐ Define data categories and specify a data category e.g., Location

☐ Check the data model for Default summarization. Set default summarization methods for a numeric field.

☐ Check the data model for formatting, and apply appropriate formatting to enhance data presentation.

☐ Apply sorting to the columns. Example Weekdays.

☐ Create a separate measure table to store measures.

☐ Create calculated columns (based on existing data) and measures (aggregations or calculations) to derive insights, perform complex analyses, and enhance your data model's analytical capabilities.

☐ Create a Separate Date table for YTD, MTD, and WTD. And Mark it as a Date Table.

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☐ Split the Date Time to Date and Time separately (Recommended for Performance)

☐ Use Error Messaging in DAX – Error() function provides a description.

☐ Use DAX Formatter from Dax Studio or SQL BI Dax Formatter to format DAX queries and use proper comments.

☐ Consider using the Divide() function for calculation which will eliminate null and divide by zero.

☐ If you dealing with international financial data. Implement measures and calculations to support currency conversion and reporting in different currencies using field parameters or calculation groups.

☐ Create Synonyms to Improve the Q&A Experience. Define synonyms for fields or items in your data model to improve the natural language querying experience in Power BI's Q&A feature.

☐ Optimize data model and performance, considering factors such as data volume, query complexity, and user requirements.

☐ Define Row-Level Security. (RLS)

☐ Use a Performance analyzer to check DAX query performance.

☐ Optimize a data model by using a Best Practice Analyzer (BPA) provided by a Tabular editor.

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