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# 1.Configure table and column properties

## 1.1 Table properties .

You can configure the table properties in the model view or in the data pane in report view .

It will allow you to rename the model , hidden model .

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If you want to put description or synonym, you should go to the model view .

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We have row label and key column and after we will have to choose the storage mode .

It is also possible to create folder you should just select a column and go to property .

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You put the display folder name and you can create a folder with some column or measure in it.

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You can also hide in the model view .

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The DateTable has disappear.

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You can also mark date as table

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It will create this by default if you have a date column.

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## 1.2 Column properties

There are many column properties that you can set. Like with tables, you can set the name, description, synonyms, and "is hidden" properties. It's common to hide columns that are used by relationships, especially when they're based on aren't meaningful key values.

Column names must be unique within the model table, and if the column is visible, you should set a user-friendly name. If you change the column name in Power BI Desktop, a new step is appended to the Power Query query to modify the column name there.

You can assign columns to a display folder, which helps organize the fields for a table. Consider using display folders when your table comprises many visible fields.

It is the same as above but more focused on column.

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You can set up format , data type ,

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It is feature related to how the data is formatted and presented .

You can sort by , categorize data and summarize.

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# 2.Implement role-playing dimensions

# Role-playing dimensions are used when you have multiple relationships between a fact table and a dimension table, often for different purposes or contexts. A classic example is the Date dimension used in multiple roles, such as Order Date, Ship Date, and Due Date.

You will have some connection which will be used multiple time and will be inactive but you will be able to use it thanks to the Dax query: USERELATIONSHIP ()

# 3.Define a relationship's cardinality and cross-filter direction

The cardinality is simple in Star schema, dimension 1 🡪 many to the fact table, concerning the cross filter it will use in function of need to retrieve or not the data from the dimension. In general, it will be one single but cross filter when you need to retrieve data based on the dimension or you need for RLS.

# 4.Create a common date table

You can create a common date table with several ways, import a date table , or create with dax functions a table with date or with power query .

Calendarauto(6) or calendar ()

## 4.1 Common date table with DAX

Date= CALENDARAUTO (fiscalendyearmonth), it will automatically take the max and min from the other semantic model .

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At the end mark the table as date table .

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## 4.2 Common date table with Power query

# 5.Identify use cases for calculated columns and calculated tables

With DAX you can create calculated columns,tables and measures .

Table , you can use for example in the date common table . Columns you can created it for

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# 6.Create single aggregation measures

# 7.Use the CALCULATE function

# 8. Implement time intelligence measures

# 9.Use basic statistical functions

# 10. Create semi-additive measures

# 11. Create a measure by using quick measures

# 12. Create calculated tables or columns

# 13.Create calculation groups

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# 14.Improve performance by identifying and removing unnecessary rows and columns

# 15.Identify poorly performing measures, relationships, and visuals by using Performance Analyzer and DAX query view

# 16. Improve performance by reducing granularity