### INCREMENTAL REFRESH



**Incremental Refresh** is the process of reloading only the part of a semantic model that may change over time and adding it to the rest of the model that no longer changes

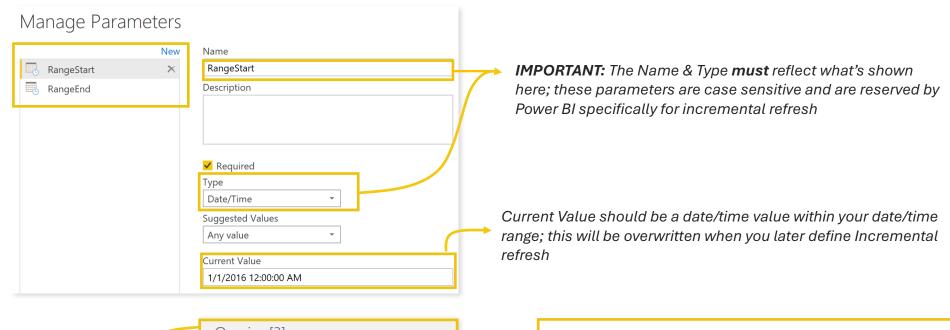
- Faster Refresh Times Typically used with large semantic models to decrease processing time
- More Reliable Decreases the time connections are made to external sources
- Reduced Resource Usage Easier on the internal resources of your computer (i.e., memory)



## CONFIGURING INCREMENTAL REFRESH



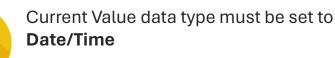
Set RangeStart & RangeEnd parameters from the Query Editor in Power BI Desktop



RangeStart & RangeEnd parameters are added to the list of Query Editor queries



#### **HEY THIS IS IMPORTANT!**



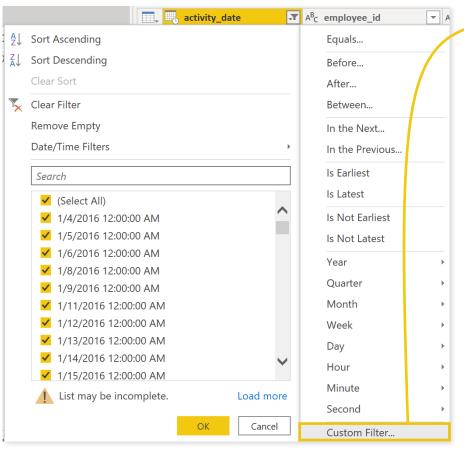
Additionally, your fact table **date column** data type must also be set to **Date/Time** 

# CONFIGURING INCREMENTAL REFRESH

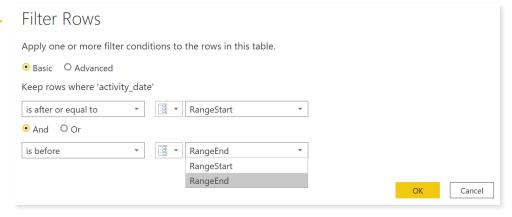


2 Apply **RangeStart** & **RangeEnd** parameters to a date column using a *Custom Filter* from the filter options

Parameters are used to filter data imported into Power BI Desktop & dynamically partition the data into ranges



To avoid duplicated rows, only add an "=" sign on one side of the parameter; try using ">=" on StartRange and "<" on EndRange





#### **HEY THIS IS IMPORTANT!**

Since the date field is what determines the partial refresh of the underlying data source, incremental refresh only works with a **Date/Time** column

## CONFIGURING INCREMENTAL REFRESH



Define the incremental refresh policy on the semantic model (right-click dataset)

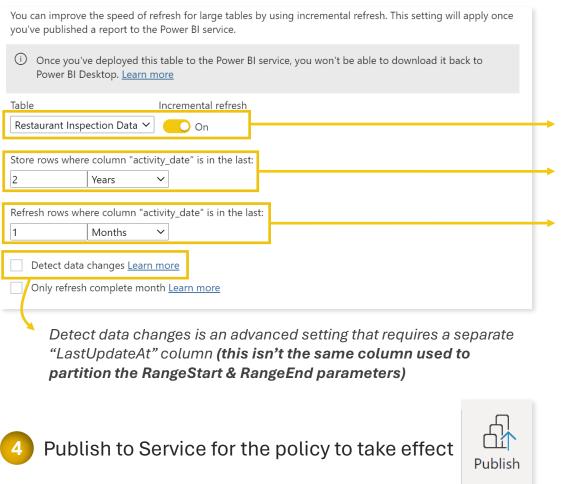




Table incremental refresh is applied

The number of rows you want to **store** (think of this like "load only once and never load again")

The number of rows you want to **refresh** (think of this like "the rows I want to re-load each time")



#### **HEY THIS IS IMPORTANT!**

Once you publish and configure incremental refresh in Power BI Service, you will not be able to download the semantic model to Power BI Desktop