

# Power BI

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## 1.Queries and parameters

**FolderPath** - Parameter, the location of the source files is recorded here. This will be used in subsequent queries to retrieve data from the source files.

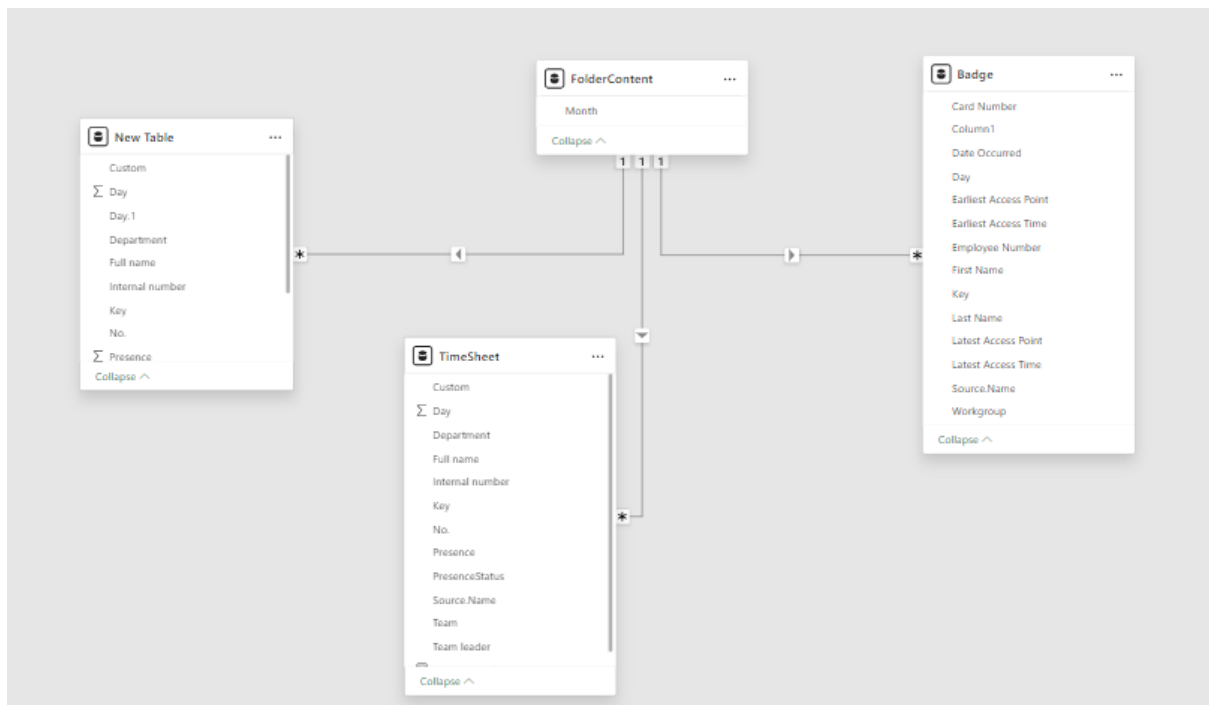
**FolderContent** - This query contains the month and year extracted from the source file names

**Badge Table** - contain data from Badge files

**Timesheet** - contain data from Timesheet files

**New Table** - Merge queries between Timesheet table and Badge Table

## 2. Relationship between tables



## 3. Bonus point - Measure

In this project we used two measures, one required in the specifications:

Measure = CALCULATE (SUM('New Table'[Presence]),'New Table'[PresenceStatus] = "Office")

and one defined by me with the aim of highlighting the growing trend from day to day:

```
CALCULATE (  
    COUNT('TimeSheet'[Presence]),  
    FILTER (  
        ALL('TimeSheet'[Day]),  
        'TimeSheet'[Day] <= MAX('TimeSheet'[Day])  
    )  
)
```

**4. Bonus point - What is the main benefit of using documents stored on SharePoint vs storing them locally, from a report publishing perspective?**

The advantage of storing documents in SharePoint is that, in Power BI, we can use the SharePoint connector.

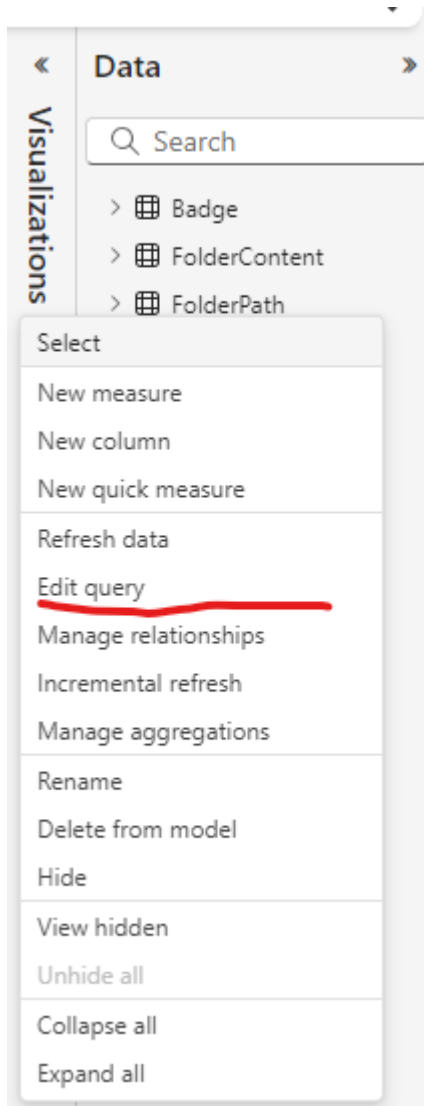
By using this connector, the need for each user to configure the location of the source files is eliminated.

Another advantage is that multiple users can access the same data set.

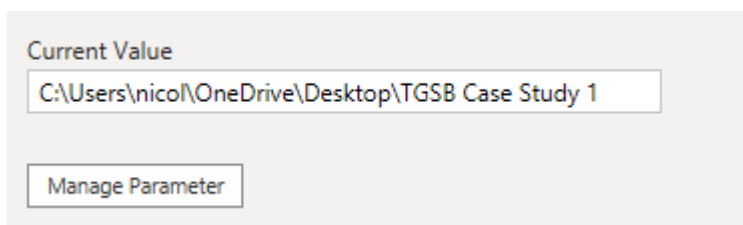
The disadvantage of using the SharePoint connector versus the folder connector is the longer report update time.

## 5.Setting the address where the files are located:

a) In Data panel, right click on "FolderPath" parameter and "Edit query"



b) On parameter windows, "Current Value" section, add address where file is located:



Source file could be stored with another file, like this:

C:\Users\nicol\OneDrive\Desktop\TGSB Case Study 1					
Name	Status	Date modified	Type	Size	
Badge_01_2024		12/20/2024 3:09 PM	Microsoft Excel W...	210 KB	
Badge_02_2024		12/20/2024 3:09 PM	Microsoft Excel W...	26 KB	
TGSB - Case Study 1 - Documentation (H...		12/20/2024 3:12 PM	Microsoft Word D...	25 KB	
TGSB - Case Study 1		12/23/2024 6:58 AM	Microsoft.Microso...	92 KB	
TGSB - Case Study 1		12/22/2024 8:45 AM	Microsoft Excel M...	9 KB	
TGSB		12/23/2024 10:13 AM	Microsoft Excel M...	304 KB	
Timesheet_01_2024		12/20/2024 3:09 PM	Microsoft Excel W...	23 KB	
Timesheet_02_2024		12/23/2024 6:55 AM	Microsoft Excel W...	21 KB	

or separately, each file type in its own folder:

C:\Users\nicol\OneDrive\Desktop\TGSB Case Study 1					
Name	Status	Date modified	Type	Size	
Badge		12/23/2024 10:30 AM	File folder		
TimeSheet		12/23/2024 10:32 AM	File folder		
TGSB - Case Study 1 - Documentation (H...		12/20/2024 3:12 PM	Microsoft Word D...	25 KB	
TGSB - Case Study 1		12/23/2024 6:58 AM	Microsoft.Microso...	92 KB	
TGSB - Case Study 1		12/22/2024 8:45 AM	Microsoft Excel M...	9 KB	
TGSB		12/23/2024 10:13 AM	Microsoft Excel M...	304 KB	

c) After setting the location of the files, close the Power Query editor and click the refresh button to retrieve the data.