



Power BI Tips

Some tips for the daily use of PBI

ABOUT ME



- Who: Jon Lunn
 - BSc(Hons), MCSE, MCSA, MCITP and some other stuff too
- What: Senior Consultant – Data & Analytics
- Where: Ricoh Digital Services
- Twitter: @jhlsq1
- Blog: www.jlsql.blog
- Linked-in: www.linkedin.com/in/jon-lunn
- Email: jon.lunn@ricoh.co.uk

Selection Pane

- Layer Control & Selection
- Grouping
- Titles

Report Designer

- Clear All Filters
- Reducing Queries (Apply)
- DAX – Top Performance Issue
 - Filters are tables

Power Query

- Monospace
- Updating Data
- Data Source Parameter
- Go to Column
- Try/Otherwise
- Failure With Grace

Report Designer – Better DAX

Slow:

```
CALCULATE ( Sales[Sales Amount]  
            , FILTER ( Sales, Sales[Quantity] * Sales[NetPrice] > 20 ))
```

Fast:

```
CALCULATE ( Sales[Sales Amount]  
            , FILTER ( ALL (Sales[Quantity], Sales[NetPrice])  
                      , Sales[Quantity] * Sales[NetPrice] > 20))
```

You may need to add a KEEPFILTERS clause for your query

Where possible NEVER reference a table

- Reduces memory overhead
- If you use Power BI Premium/Embedded/Azure Analysis Services this can have an impact

Report Designer – Better DAX 2

Filter NOT Combined =

```
CALCULATE ( Sales[Sales Amount]  
            , FILTER ( Sales, Sales[Country] = "GB" )  
            , FILTER ( Sales, Sales[Area] = "West Midlands" ) )
```

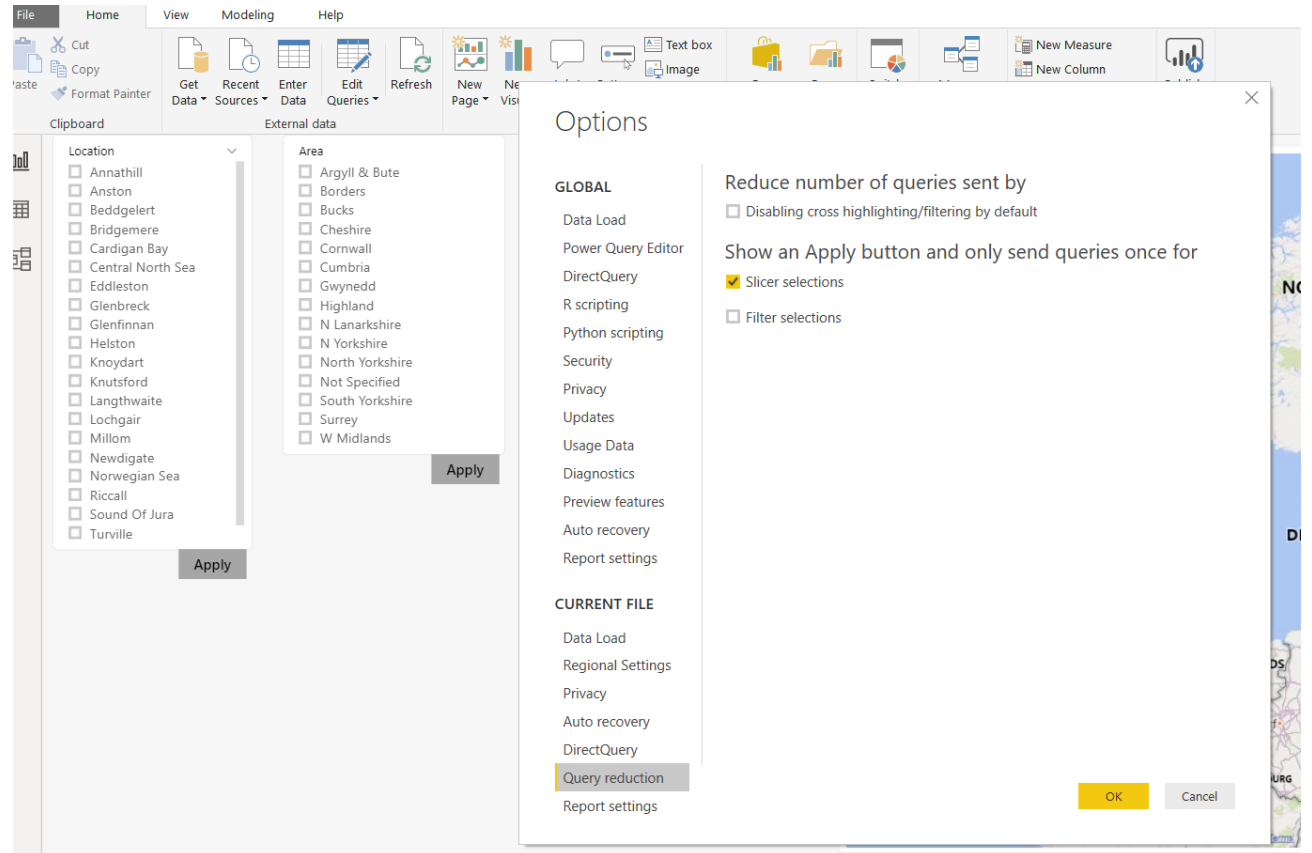
Filter Combined =

```
CALCULATE ( Sales[Sales Amount]  
            , FILTER ( Sales, Sales[Country] = "GB"  
            && Sales[Area] = "West Midlands" ) )
```

Report Designer – Query Reduction

Remember – Each visual interaction is a query
For Slicers, use the 'Apply' button option

Now each slicer will pass the selections only once the apply button is pressed. There is no Apply All, that will apply for all the filter, it is one at a time



Power Query – Why Monospaced?

This font is proportional spaced

Abcd efgh ij klmnopqrstuv wxyzab

This font is monospaced

Abcd efgh ij klpqrst

Power Query – Parameter for data sources

Parameter drives the data source location

- Add parameter can vary between data source imports
 - Excel files are done after first load
 - SQL Server, Folder and others can be done on set up

