

# Readying for production

USER-ORIENTED DESIGN IN POWER BI

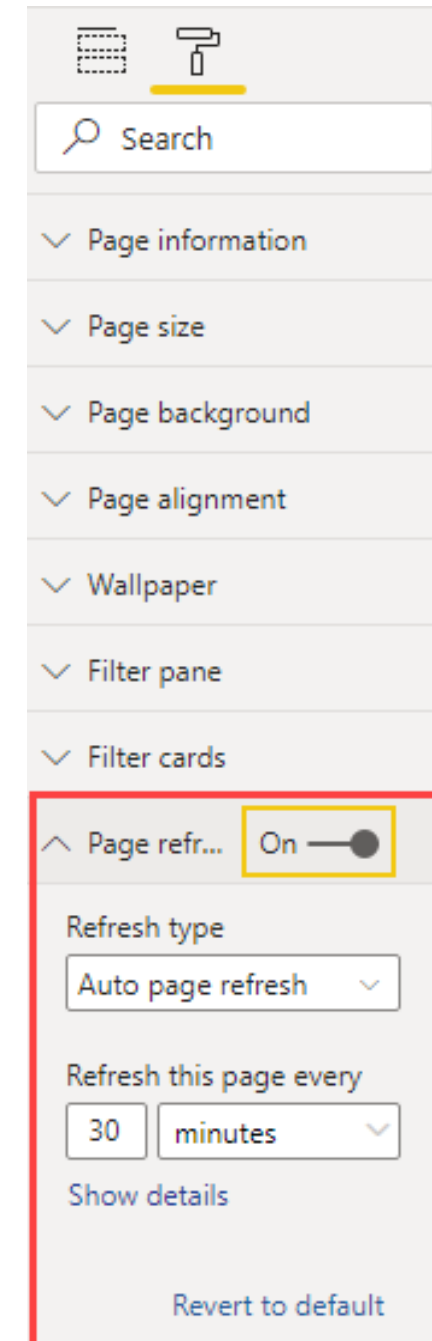


**Maarten Van den Broeck**

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# Automatic page refresh

- Controls how often a Power BI report will query for new data
- Only works with DirectQuery sources
- Fixed intervals allow for automatic refreshing at scheduled times



# Change detection

- Works on tracking the aggregated value of a given field
- Can also use an existing calculated measure
- When there is a tracked change, Power BI automatically refreshes the data source and visuals using that source

◆ Change detection

Improve performance by only refreshing your data if the result of this measure changes.

Measure type

☐ Existing

☒ New

Choose a calculation

Maximum

Choose a field to apply it to

Σ year

Check for changes every

5

Minutes

Seconds

Minutes

Hours

Fields

Search

> CPIPeriodicity

> CPISeasonality

▼ CPIData (2)

☐ area\_code

☐ base\_id

☐ begin\_period

☐ Σ begin\_year

☐ end\_period

☐ Σ end\_year

☐ item\_code

☐ period

☐ periodicity\_code

☐ seasonality\_code

☐ series\_id

☐ Σ value

☒ Σ year

Apply

Cancel

# Performance considerations

- Refresh interval should be no less than the expected new data arrival interval
- Use Performance Analyzer to review the cost per query
- Each user with a report open runs independent refresh operations

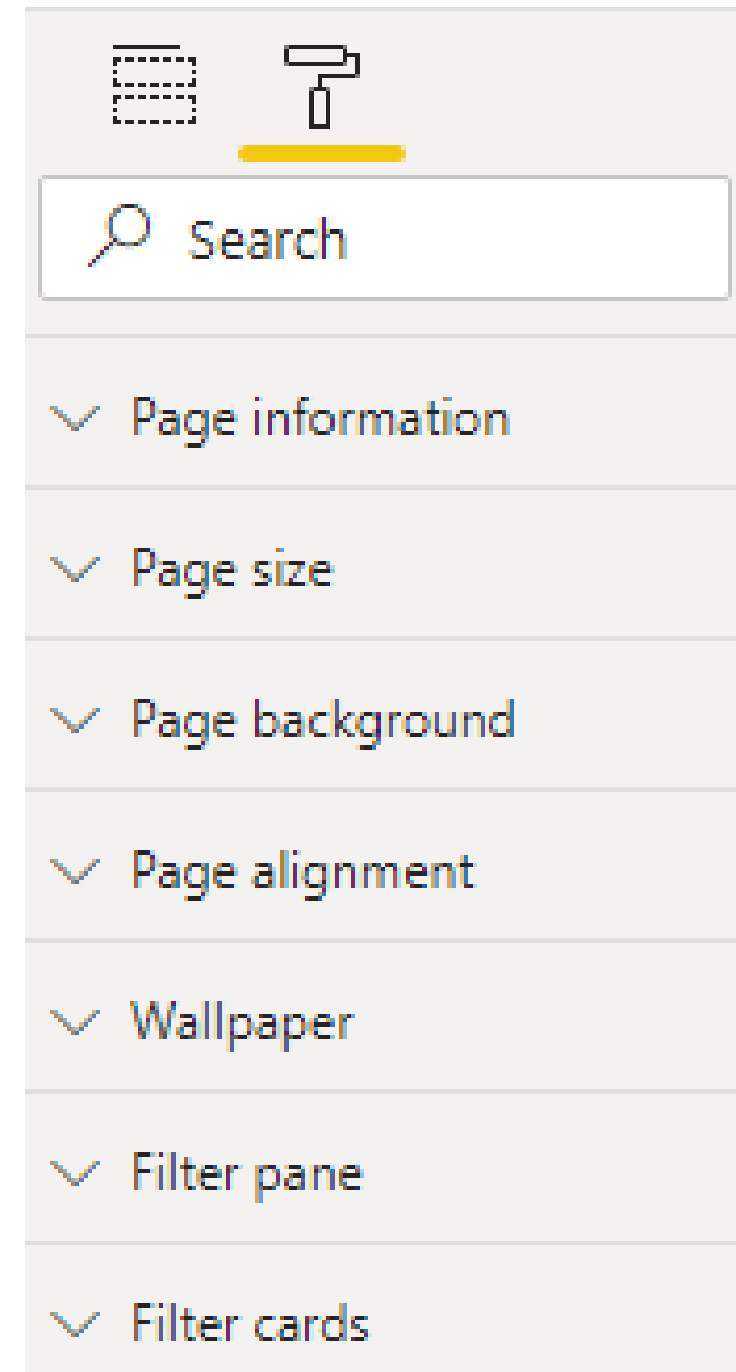
⊕ Change detection: Change detection Count (Disti...	86
⊖ Change detection: Change detection Count (Disti...	90
DAX query	47
Direct query	43
Other	43
📄 Copy query	
⊕ Total Quantity by Store	361
⊖ Products Sold	429
DAX query	137
Direct query	134
Visual display	17
Other	275
📄 Copy query	
⊕ Total # of Sales	282
⊕ Products Sold Over Time	487

# Capacity requirements

- Change detection is only available in a Premium SKU
- Shared workspaces may perform scheduled refreshes at a minimum interval of 30 minutes
- Dedicated capacity allows you to update as frequently as once per second, depending on the storage mode
- A maximum of 10 models with a change detection measure are allowed in a Power BI tenant--in large enterprises with lots of report developers, think about scheduled intervals by default

# Configuring report pages

- Specific to a page of a report--multiple pages may have different settings
- Control size, alignment, and layout of report pages
- Control backgrounds and wallpapers
- Control the way the Filter pane looks



# Let's practice!

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# Q&A and decomposition trees

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