What's new in Power BI

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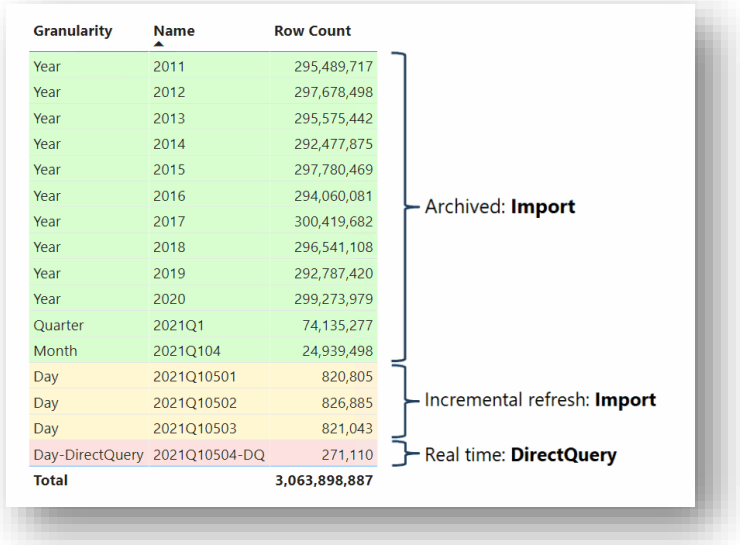
MAKE BI
MICROSOFT POWER BI ARBEITSKREIS | 2022

What's New

- Hybrid Tables (Public Preview)
- Power BI integration into PowerPoint
- Power BI Datamarts (Preview)
- Field Parameters (Preview)
- Preview data in Dataset Details page
- General Availability ExecuteQueries REST API
- Nex DAX function: NETWORKDAYS
- Conditional Format for Labels
- Multiple Audiences for PBI Apps (Preview)

Hybrid Tables (Public Preview)

- Hybrid tables enables us to have incremental refresh augmented with near real-time data
- Combine DirectQuery and Import mode in **one** table
- Power BI Premium feature

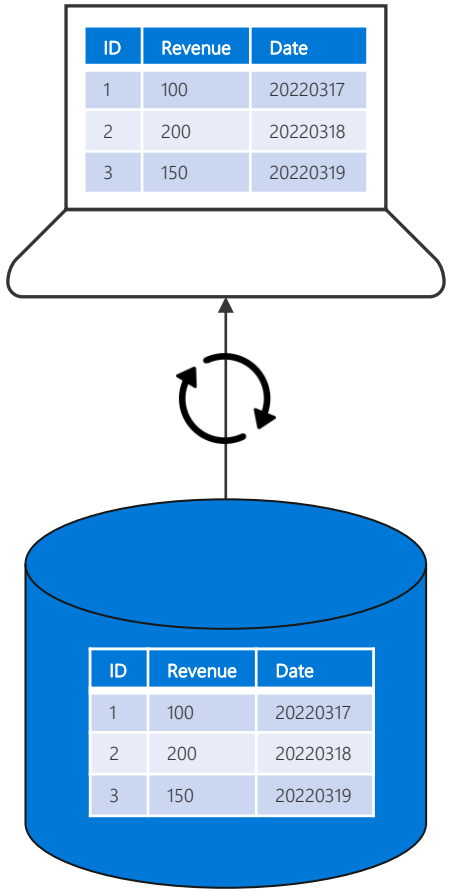


Granularity	Name	Row Count
Year	2011	295,489,717
Year	2012	297,678,498
Year	2013	295,575,442
Year	2014	292,477,875
Year	2015	297,780,469
Year	2016	294,060,081
Year	2017	300,419,682
Year	2018	296,541,108
Year	2019	292,787,420
Year	2020	299,273,979
Quarter	2021Q1	74,135,277
Month	2021Q104	24,939,498
Day	2021Q10501	820,805
Day	2021Q10502	826,885
Day	2021Q10503	821,043
Day-DirectQuery	2021Q10504-DQ	271,110
Total		**3,063,898,887**

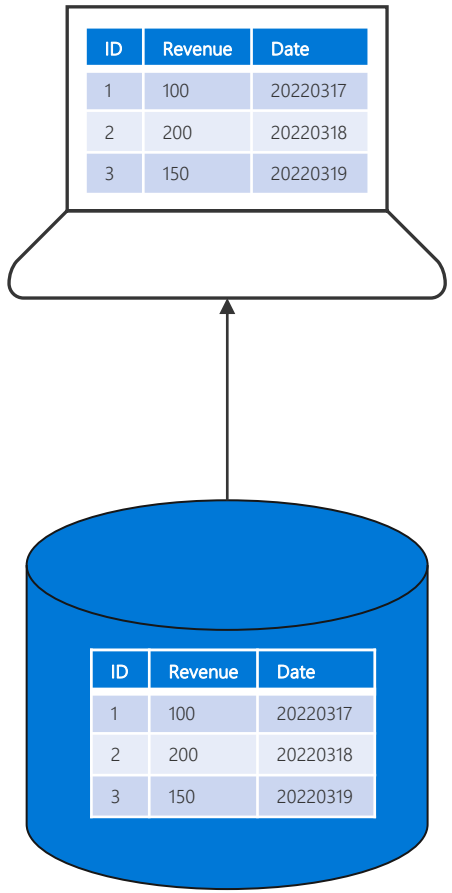
https://powerbi.microsoft.com/en-us/blog/announcing-public-preview-of-hybrid-tables-in-power-bi-premium/

Storage Modes

Import Mode



DirectQuery Mode



Benefits of Storage Mode

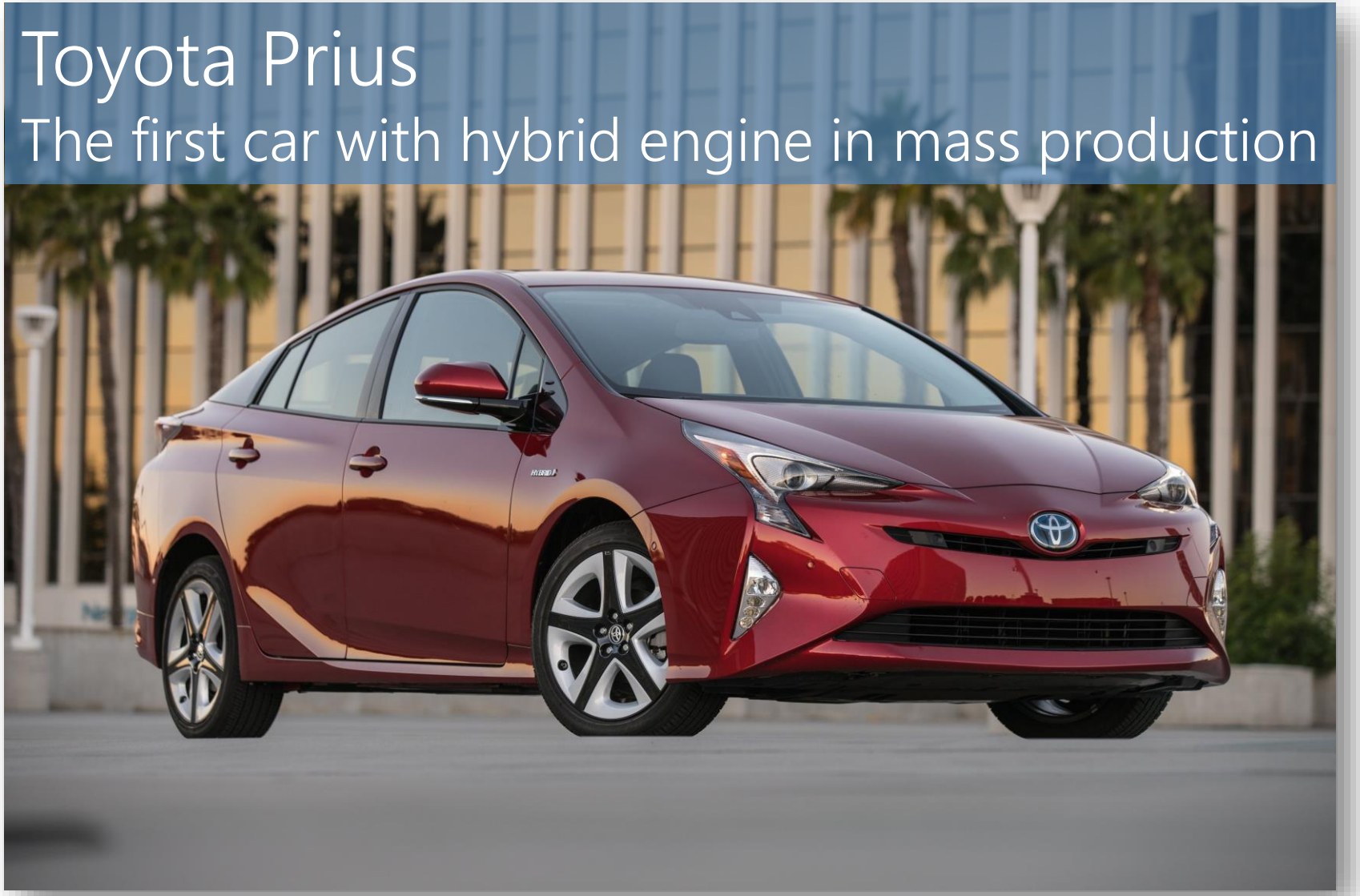
Import Mode

- Performance
- Full flexibility
  Data Model & DAX
- Supporting all Data Sources

DirectQuery

- Near-Real Time Data
- DB handling Security
- Going beyond data limit

Combining both worlds



Combining both worlds – Hybrid tables

- Hybrid tables enables us to have incremental refresh augmented with near real-time data
- Combine DirectQuery and Import mode in **one** table
- Power BI Premium feature

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Year	2011	295,489,717	Archived: **Import**
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Day-DirectQuery	2021Q10504-DQ	271,110	Real time: **DirectQuery**
Total		**3,063,898,887**	

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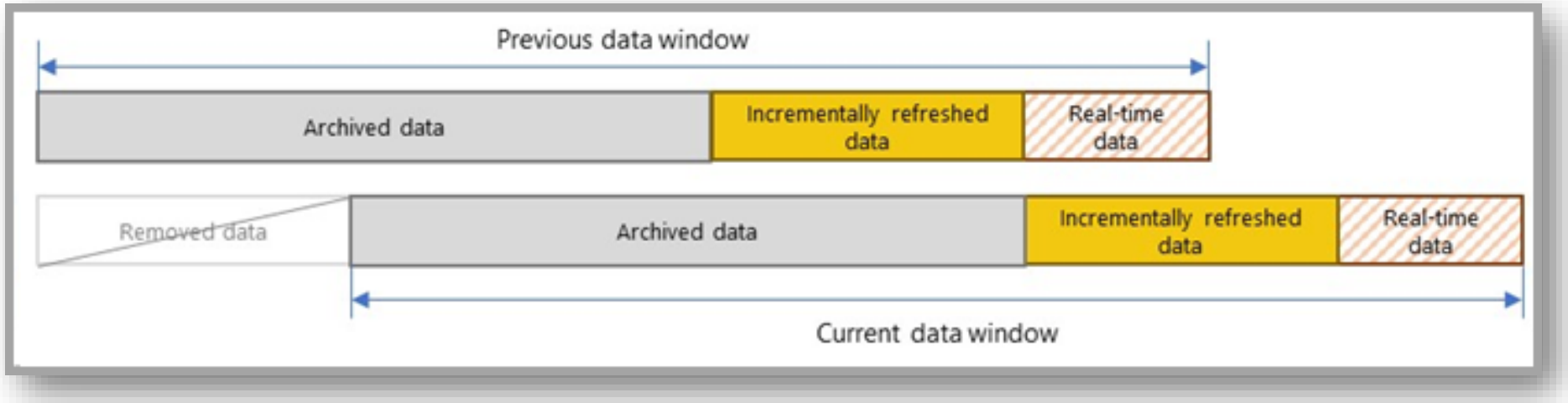
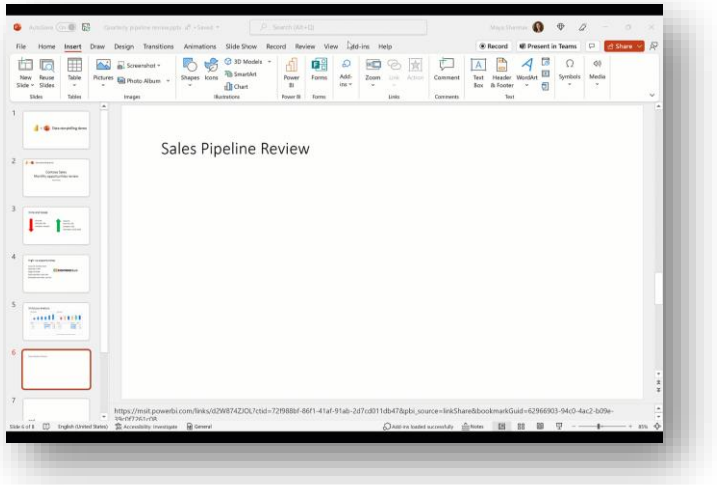
Hybrid Tables – How it works



Power BI integration into PowerPoint

- Add PBI Reports to your PPTX Slides and interact with it
- Automatically through PBI Service or the build-in Add-in
- Check Pascal Schär Session
  (C3 Unternehmensdaten überzeugend einsetzen)



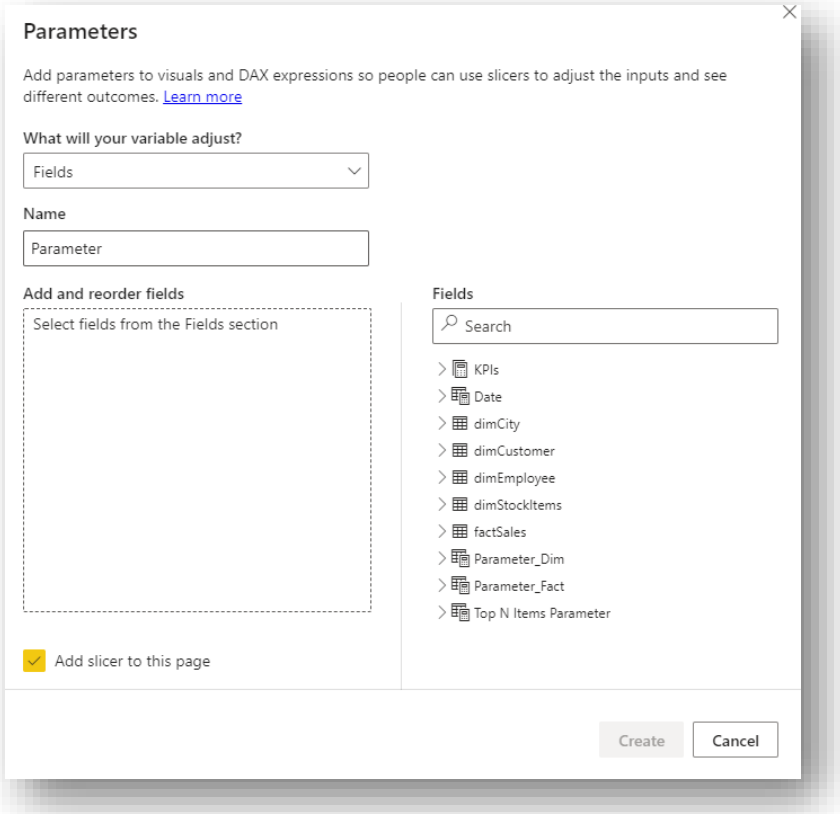
- https://powerbi.microsoft.com/en-us/blog/tell-a-story-with-your-data-announcing-the-all-new-power-bi-integration-for-powerpoint/

Power BI Datamarts

- Power BI Premium (per User) required
- Build a relational Database in a low-code manner
- Workloads up to 100GB
- Ingest and Prep Data, Add Semantic Layer and use DAX, Security is given through RLS, MIP, etc.
- Use Datamarts in Pipelines, share it with others like a Dataset
- https://powerbi.microsoft.com/en-us/blog/announcing-public-preview-of-datamart-in-power-bi/

Field Parameters (Preview)

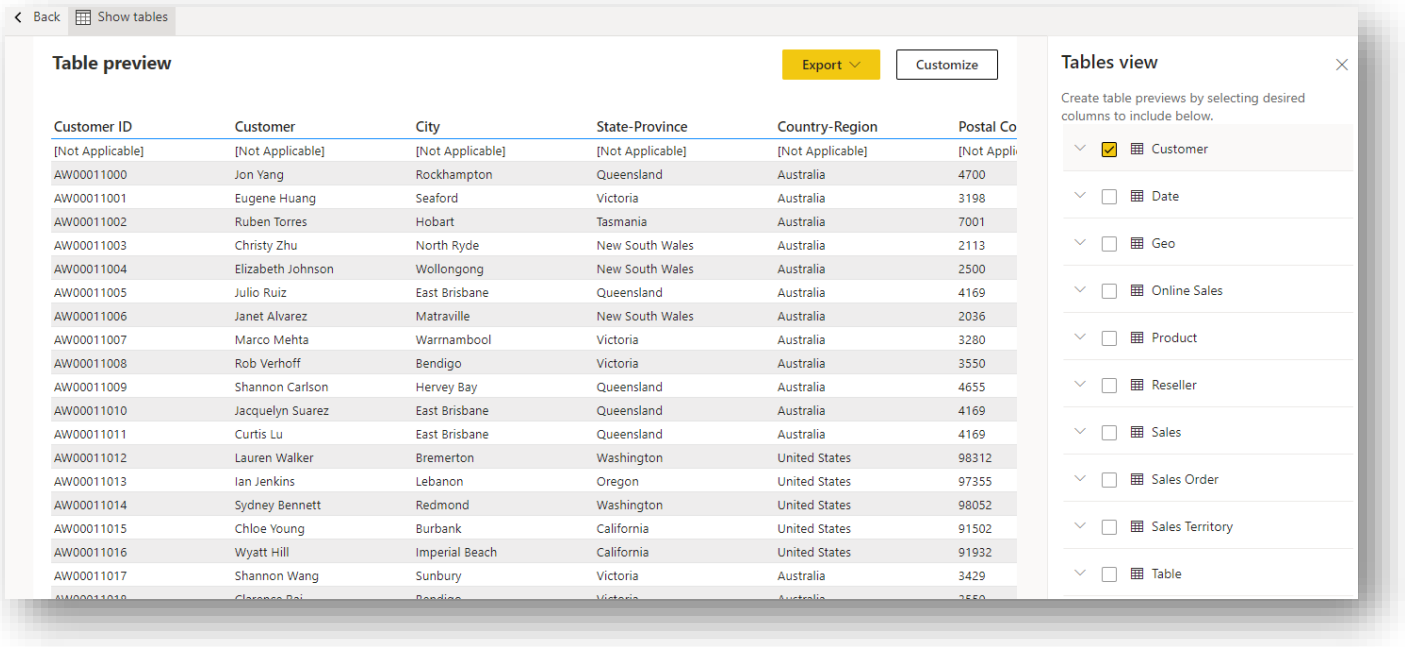
- Change dynamically measures and dimensions
- Limitations
  - AI visuals and Q&A is not supported
  - You can't choose "None" or no fields
    → it's the same as selecting all fields
  - You can't use implicit measures
    → you need to create explicit measures



https://docs.microsoft.com/en-us/power-bi/create-reports/power-bi-field-parameters

Preview data in Dataset Details page

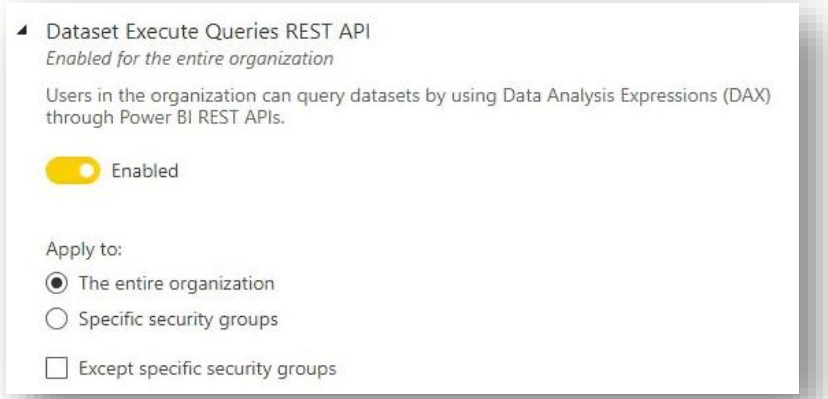
- Get a preview of your data on the Dataset Hub
- Export it if needed
- Customization possible



https://powerbi.microsoft.com/en-us/blog/preview-data-is-now-available-in-the-dataset-details-page/

GA ExecuteQueries REST API

- Using this REST API you can query Power BI Datasets from any platform
- No XMLA Endpoint required
- Only Workspace V2 and Admin Setting enabled needed
- OOTB Power Automate Action available!



- https://powerbi.microsoft.com/en-us/blog/announcing-general-availability-of-the-executequeries-rest-api/
- https://powerbi.microsoft.com/en-us/blog/unlocking-new-self-service-bi-scenarios-with-executequeries-support-in-power-automate/

Nex DAX function: NETWORKDAYS

- Calculate net working days between two dates
- Weekend is defined per Default as Saturday & Sunday, can be defined
- Holidays table can be included to exclude those days in the calculation
- Doc is here

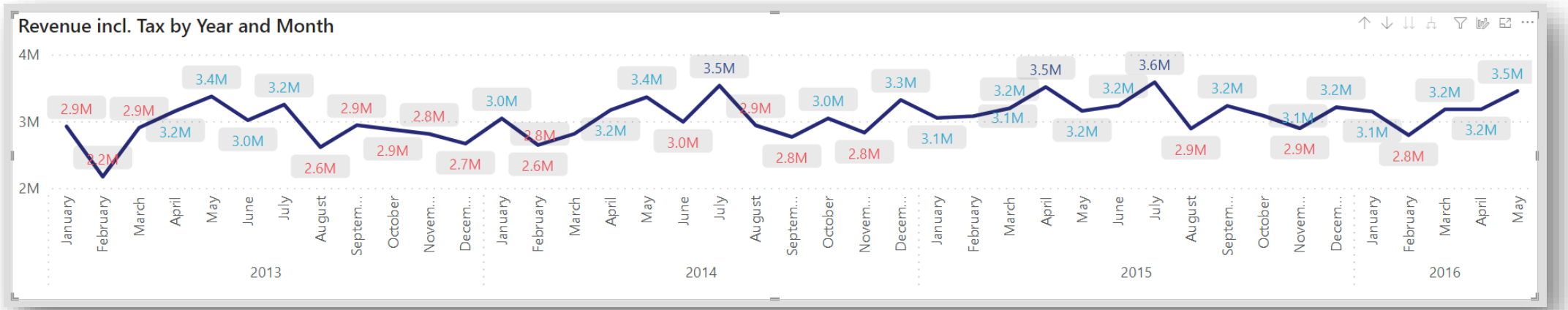
```
WorkingDays =

VAR StartDate = DATE(2022, 10, 1)
VAR EndDate = dt"2022-10-30"
VAR WeekendStart = 7
VAR Holidays = {DATE(2022, 10, 3), DATE(2022, 10, 4)}

Return
    NETWORKDAYS(StartDate, EndDate, WeekendStart, Holidays)
```

Conditional Format Update

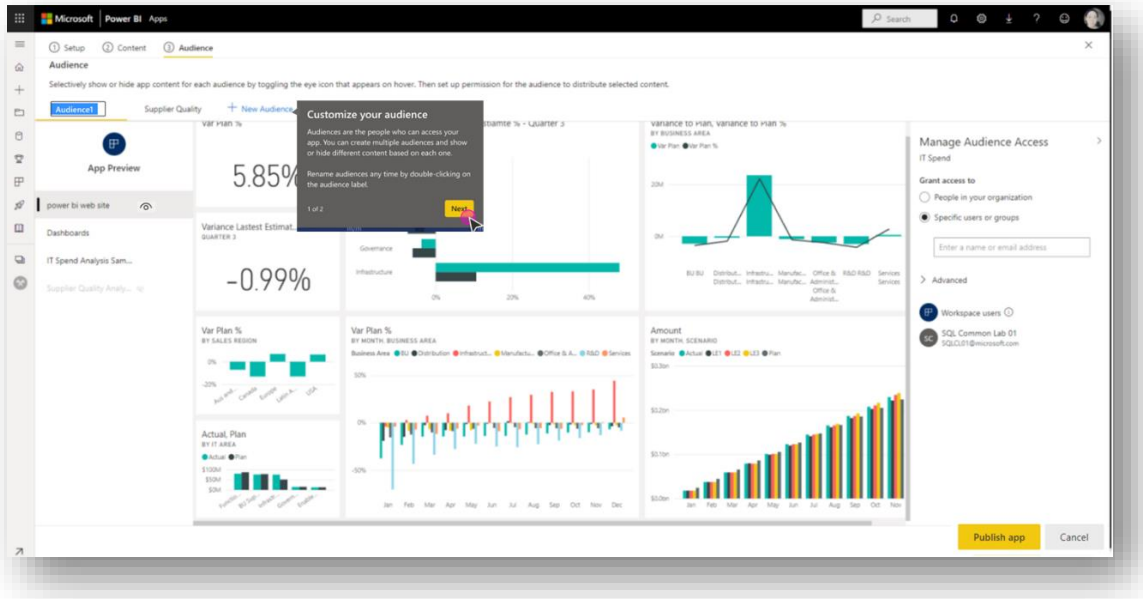
- Use Conditional Format on Data Labels
- Now calculating on each data point instead of whole visual
- Can't use "Legend Field" right now, will be possible in near future



https://powerbi.microsoft.com/en-us/blog/power-bi-august-2022-feature-summary/#post-20399-_Toc110518263

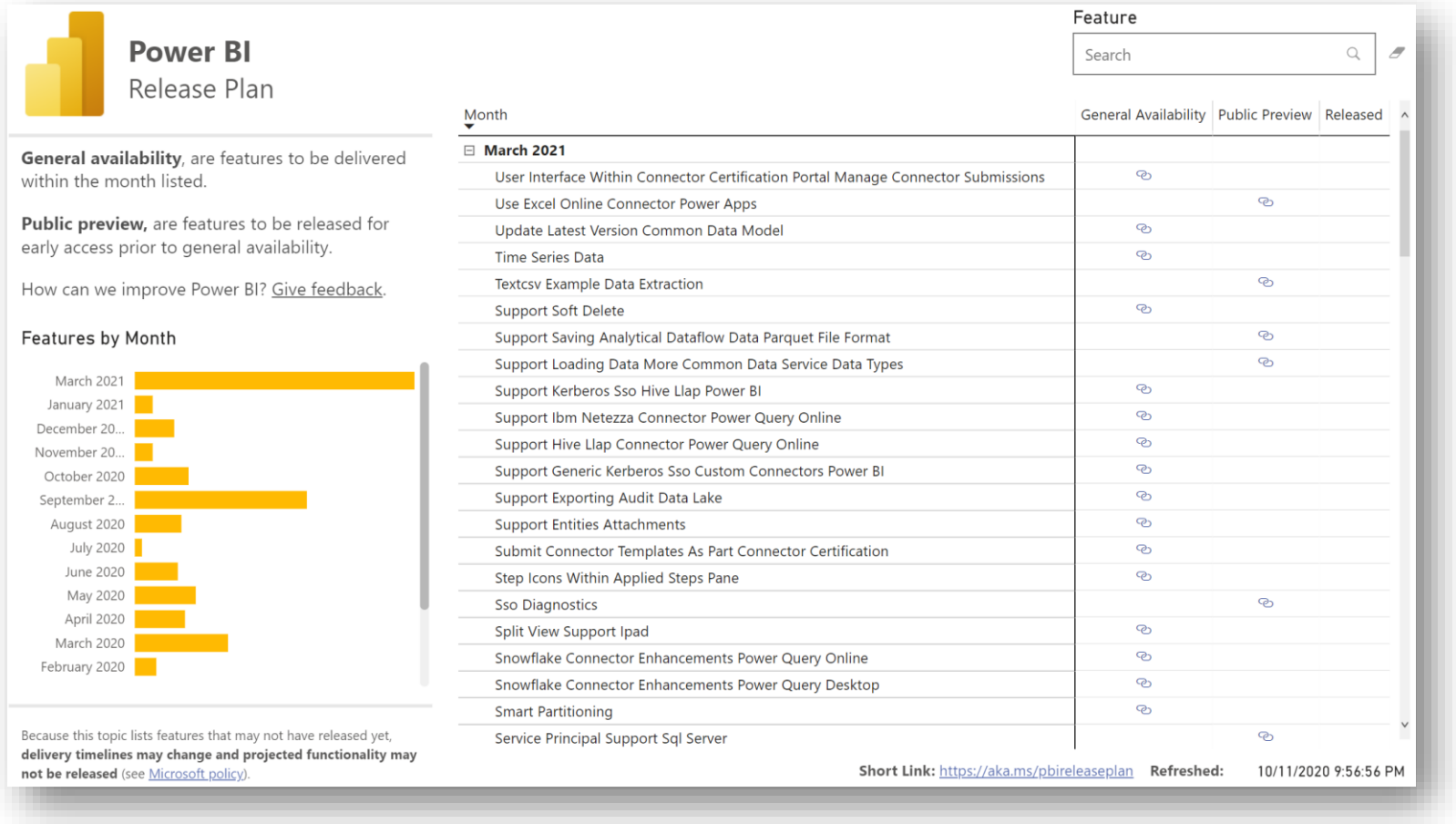
Multiple Audiences for PBI Apps (Preview)

- Create multiple audience groups within the same App
- Assign different permissions to each group
- No need to create multiple workspaces
- 10 groups possible



https://powerbi.microsoft.com/en-us/blog/announcing-public-preview-of-multiple-audiences-for-power-bi-apps/

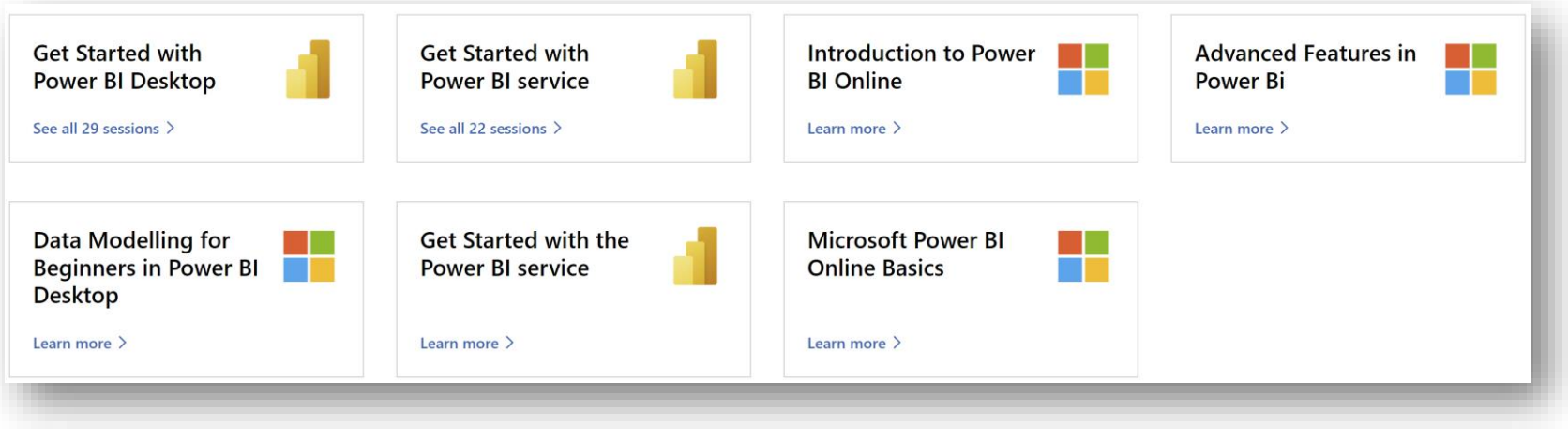
Keep up to date with Power BI features:



- https://community.powerbi.com/t5/Data-Stories-Gallery/Power-BI-Release-Plan/m-p/930557
- https://aka.ms/PowerPlatformReleasePlan

Free virtual Power BI training workshops

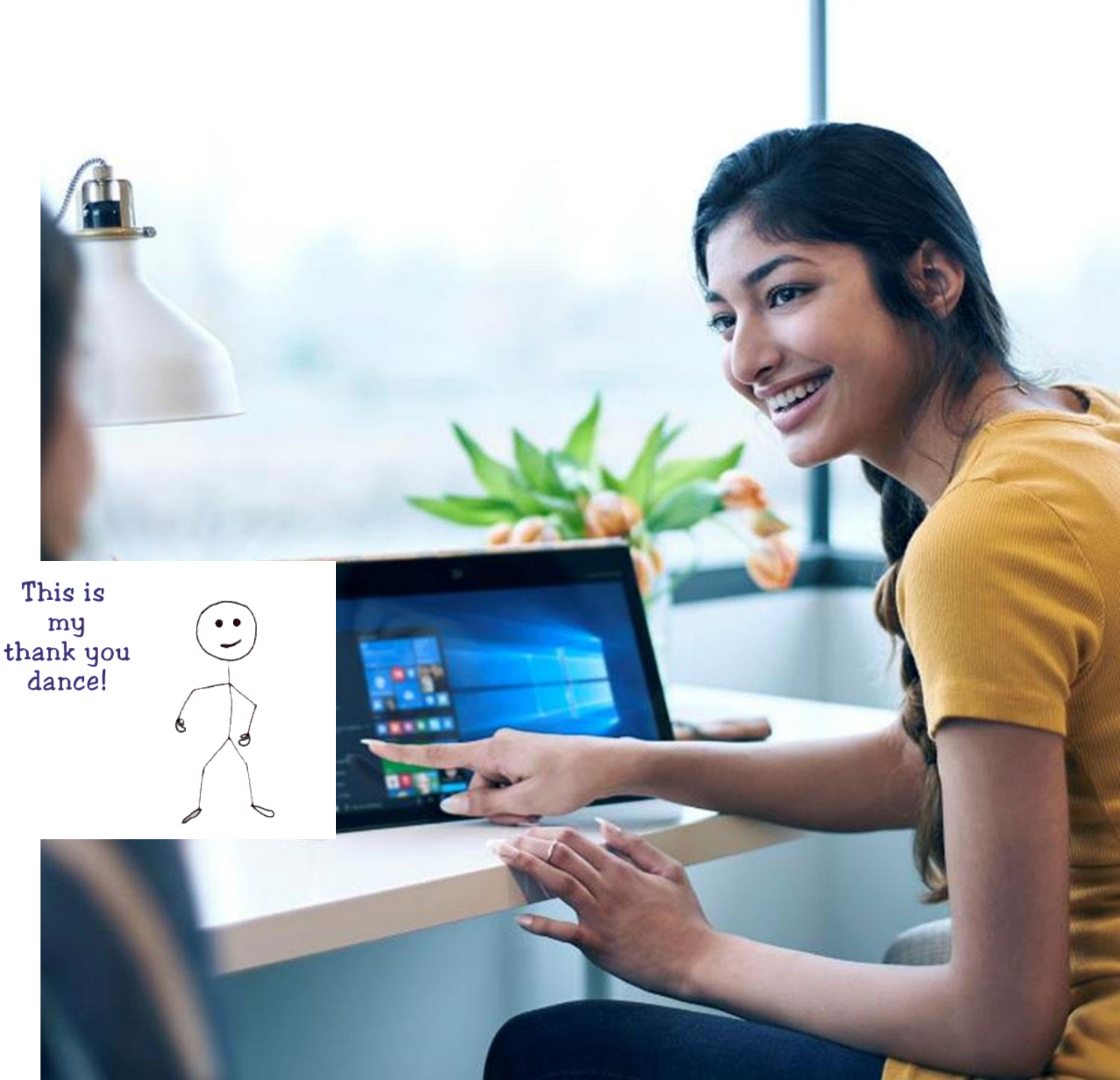
- Attend free 60-min workshops dedicated for Power BI
- All virtual
- Different topis
- Register here



https://powerbi.microsoft.com/en-us/blog/explore-free-virtual-workshops-to-help-you-get-started-with-power-bi/

Thank you !

https://aka.ms/PBIGuy
https://aka.ms/PBIGuyBlog



It’s easy to get started…

PowerBI.com

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