

About us



Steven Renders

- MVP, MCT
- More than 20 years of experience in NAV / D365 Business Central
- D365 Business Central Guru @ Companial



Renato Fajdiga

- MVP, MCT
- D365 Business Central & PP Consultant @ Derecjun
- D365 F&O Product Owner @ Happening



Agenda



Reporting capabilities in Business Central

RDLC

Word

Excel

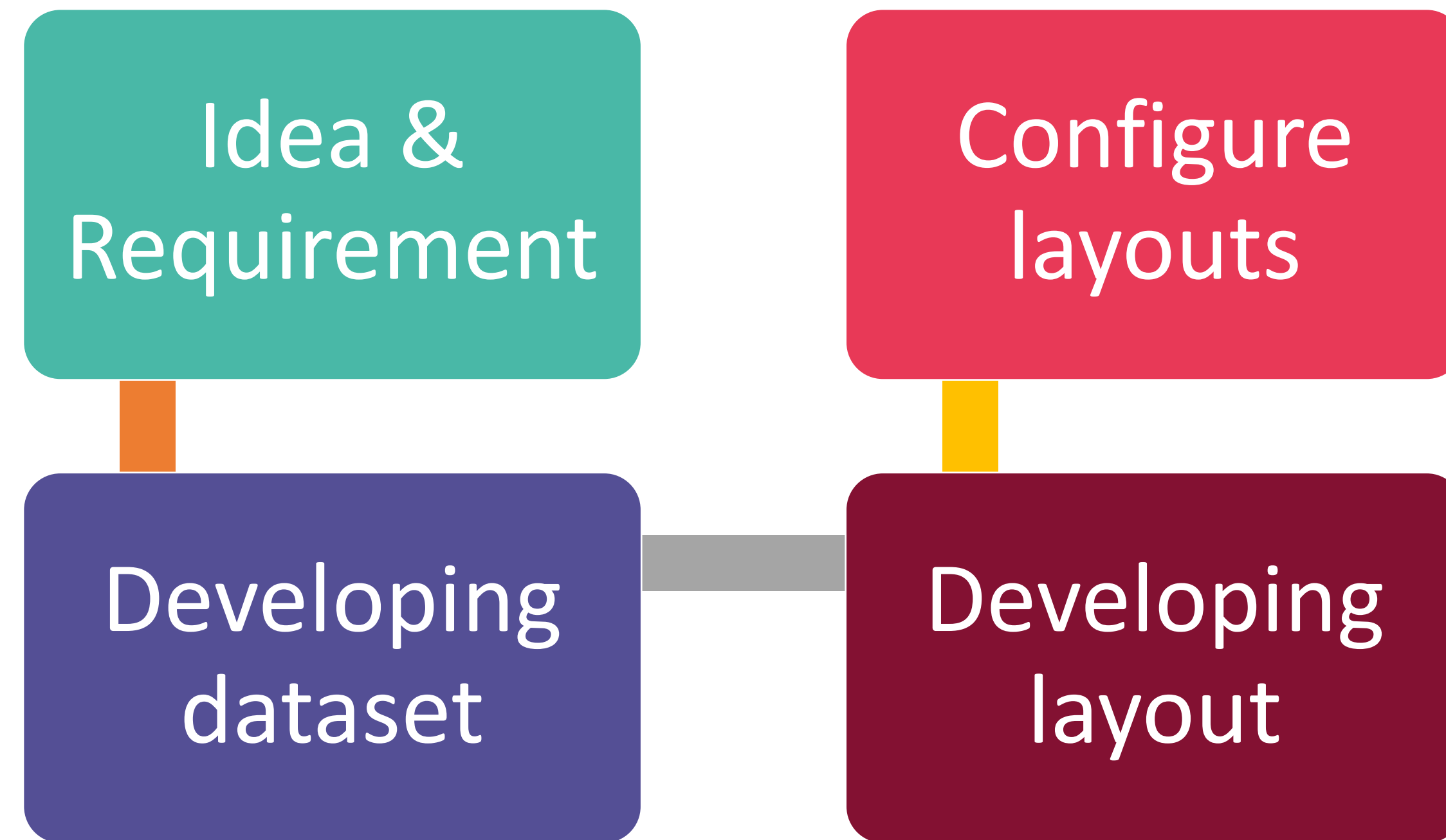
Power BI

Data
Analysis in
List Pages

Financial
reports



From an idea to the report



Financial reporting

- Previously known as Accounting schedules
- Functional person defined layout reporting.
- Based on general ledger and budget entries.
- Can be published via web service and consumed in Power BI.
- Consume standard Microsoft APIs for Power BI.



ACC-CAT

✓ Saved

All changes made to this page are persistent and visible to all users immediately

Financial Report

Search

Home

Definitions

Column

Period

Export to Excel

More options

Row definition

Column definition

Options >

ACC-CATDay05/24/23No

Dimensions

Show more

Department Filter

G/L Budget Filter

Customergroup Filter

Financial Report KPI Web Service Setup

✓ Saved

Analyze

Edit List

Publish Web Service

Remove Web Service

Refresh Data...

Related

Automate

Fewer options

General

PeriodCurrent Fiscal Year + 3 Previous YearsPublished

Navigator

powerbifinance

The data in the preview has been truncated due to size limits.

Show hidden iconsLoadTransform DataCancel

Demo – Financial reporting



Report object

- A **report** in Business Central consists of
 - a **dataset**
 - **what** data is available
 - a number of report **layouts**
 - **how** data is presented

How do I Create
the Data Model?

How do I Create
the Layout?

Do I need to Test
the Report?



Report layouts

- A report **layout** controls **content** and **format** of the report, including
 - which data fields of a report dataset appear on the report
 - how they're arranged, text style, images, and more.
- From Business Central, you can
 - **change** which **layout** is used on a report
 - create **new** layout
 - or **modify** the existing layouts.

Word

Excel

Rdlc



Report Extension

- With the **report extension** object, you can extend existing report objects, similar to how you extend tables and pages.
- With report extensions, you can extend an existing report by:

Adding columns
to existing data
items

Adding new data
items

Adding trigger
implementations

Adding to
request pages

Adding a new
report layout



Report Extension

- Be very very careful...



Report Extension

- Be very very careful...

```
70101 CustomersAndVendors

UsageCategory = ReportsAndAnalysis;
ApplicationArea = All;
- reference
RDLCLayout = 'src/CustomersAndVendors.rdl';

dataset
{
    1 reference
    dataitem(Customer; Customer)
    {
        0 references
        column(dataitem_customer; 'dataitem_customer')
        { }
        0 references
        column(No_Customer; "No.")
        { }
        0 references
        column(Name_Customer; Name)
        { }
    }
    2 references
    dataitem(Vendor; Vendor)
    {
        0 references
        column(dataitem_vendor; 'dataitem_vendor')
        { }
        0 references
        column(No_Vendor; "No.")
        { }
        0 references
        column(Name_Vendor; Name)
        { }
    }
}

1 reportextension 70101 CustomersAndVendors extends CustomersAndVendors
2 {
3     - reference
4     RDCLLayout = 'src/CustomersAndVendorsRepExt.rdl';
5
6     dataset
7     {
8         // Add changes to dataitems and columns here
9         add(Customer)
10        {
11            column(City_Customer; City)
12            { }
13        }
14        add(Vendor)
15        {
16            column(City_Vendor; City)
17            { }
18        }
19        addlast(Vendor)
20        {
21            dataitem(Contact; Contact)
22            {
23                column(dataitem_contact; 'dataitem_contact')
24                { }
25                column(No_Contact; "No.")
26                { }
27                column(Name_Contact; Name)
28                { }
29                column(City_Contact; City)
30                { }
31            }
32        }
33    }
34 }
```



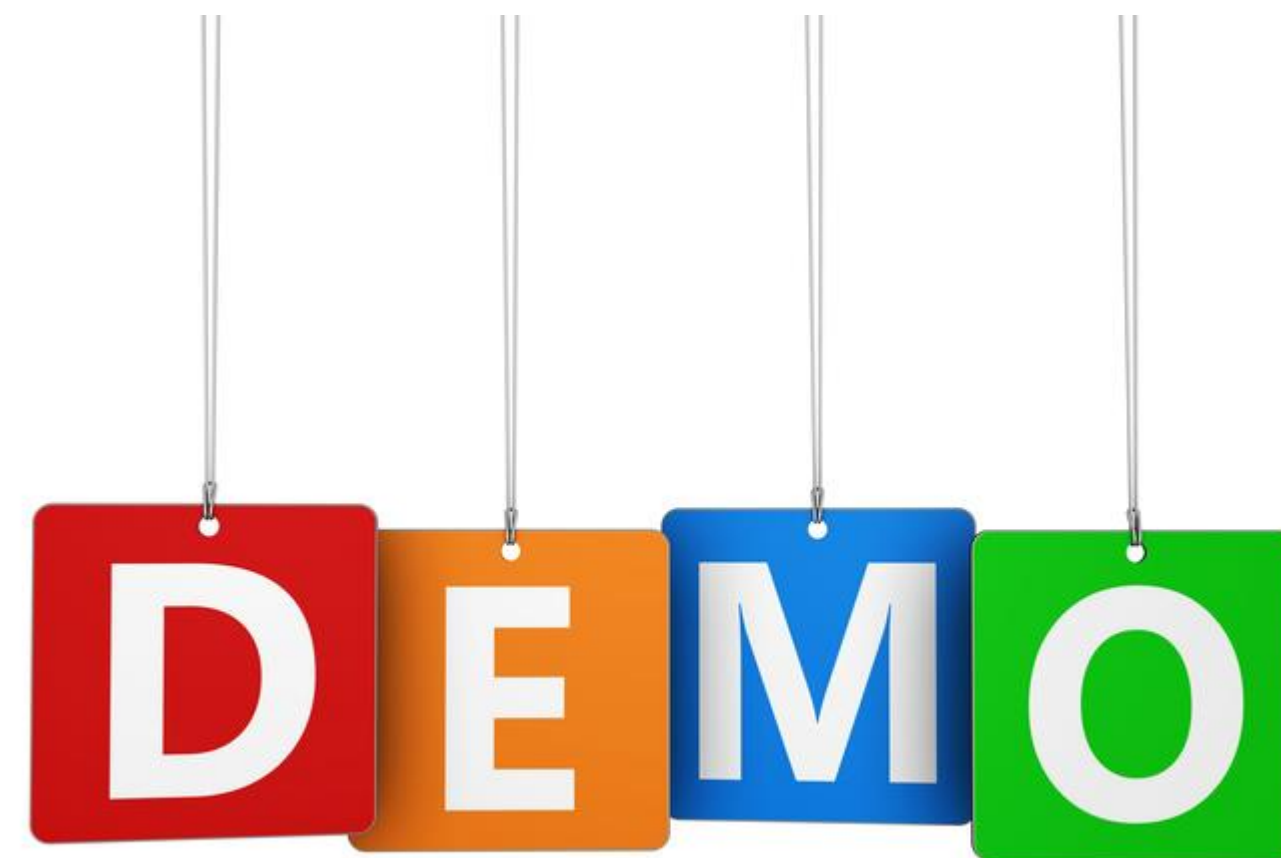
Report Extension

- Be very very careful...

dataitem_customer	No_Customer	Name_Customer	City_Customer	dataitem_vendor	No_Vendor	Name_Vendor	City_Vendor	dataitem_contact	No_Contact	Name_Contact	City_Contact
dataitem_customer	10000	A. Datum Corporation (sample)	Atlanta	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
dataitem_customer	20000	Adventure Works (sample)	Chicago	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
dataitem_customer	30000	Fabrikam, Inc. (sample)	Miami	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
dataitem_customer	40000	Alpine Ski House (sample)	Atlanta	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
dataitem_customer	50000	City Power & Light (sample)	Atlanta	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000001	A. Datum Corporation (sample)	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000002	Robert Townes	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000003	Adventure Works (sample)	Chicago
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000004	Helen Ray	Chicago
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000005	Fabrikam, Inc. (sample)	Miami
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000006	Meagan Bond	Miami
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000007	Alpine Ski House (sample)	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000008	Ian Deberry	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000009	City Power & Light (sample)	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000010	Jesse Homer	Atlanta
NULL	NULL	NULL	NULL	dataitem_vendor	10000	Fabrikam, Inc.	Atlanta	dataitem_contact	CT000011	Fabrikam, Inc.	Atlanta



Demo – developing and extending reports and layouts



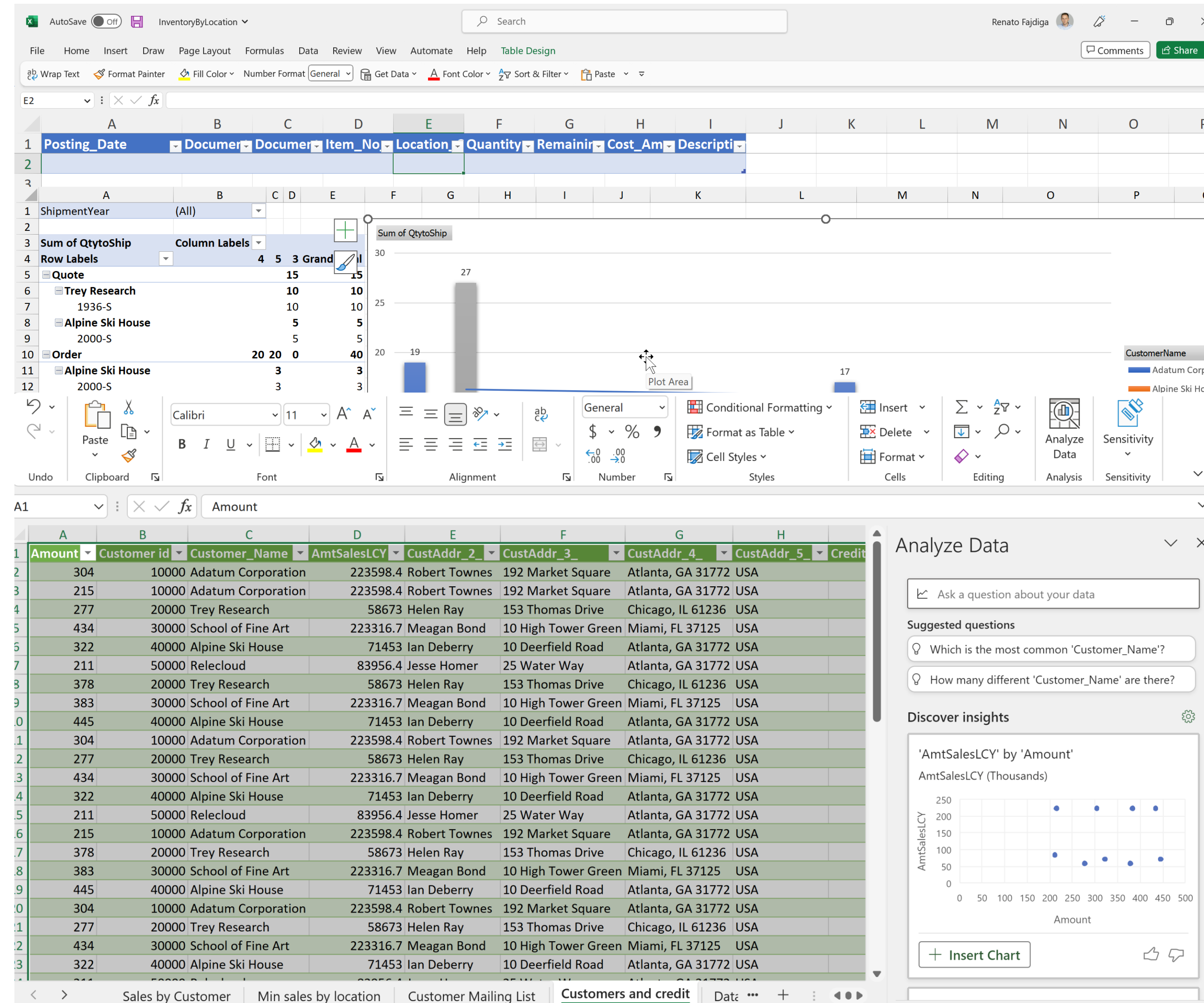
Report object

- More information?
 - aka.ms/BCReporting



Excel layout

- Based on Excel workbooks and datasets developed in AL
- Combine data with other data sources in Excel
- Build custom pivot tables and analysis in Excel layout
- Use it for post processing like forecasting, data analytics, manipulate with data.
- Track Excel layout usage through Power BI telemetry



Demo – Excel layouts in Business Central



Data analysis on List pages in Business Central

- New way of interacting with data on list pages.
- Group data, filter data by dragging fields and setting filters.
- Pivot & list view
- Track client action in Power BI Telemetry app.

Contoso Electronics Dynamics 365 Business Central

50100 Cost of Materials

General Ledger Entries Search **Analyze** Edit List Home Review Entries More options

Find entries... Reverse Transaction... Correct Dimensions Entry ▾

Posting Date ↓	Document Type	Document No.	G/L Account No. ↓	Description	Department Code	Customergro... Code	Gen. Posting Type
→ 4/1/2023	:	109001	50100	Direct Cost on 04/01/23			
4/1/2023		109001	50100	Direct Cost on 04/01/23			
4/1/2023		108001	50100	Direct Cost on 04/01/23			
4/1/2023		108001	50100	Direct Cost on 04/01/23			
4/1/2023		PS-INV103198	50100	Direct Cost 30000 on 04/01/23	SALES	LARGE	
4/1/2023		PS-INV103198	50100	Direct Cost 30000 on 04/01/23	SALES	LARGE	
3/31/2023		PS-INV103197	50100	Direct Cost 50000 on 03/31/23	SALES	MEDIUM	
3/31/2023		PS-INV103197	50100	Direct Cost 50000 on 03/31/23	SALES	MEDIUM	
3/29/2023		PS-INV103196	50100	Direct Cost 30000 on 03/29/23	SALES	LARGE	
3/29/2023		PS-INV103196	50100	Direct Cost 30000 on 03/29/23	SALES	LARGE	
3/29/2023		PS-INV103196	50100	Direct Cost 30000 on 03/29/23	SALES	LARGE	
3/29/2023		PS-INV103196	50100	Direct Cost 30000 on 03/29/23	SALES	LARGE	
3/28/2023		PS-INV103195	50100	Direct Cost 20000 on 03/28/23	SALES	MEDIUM	
3/26/2023		PS-INV103194	50100	Direct Cost 40000 on 03/26/23	SALES	SMALL	
3/26/2023		PS-INV103194	50100	Direct Cost 40000 on 03/26/23	SALES	SMALL	
3/26/2023		PS-INV103194	50100	Direct Cost 40000 on 03/26/23	SALES	SMALL	
3/26/2023		PS-INV103194	50100	Direct Cost 40000 on 03/26/23	SALES	SMALL	
3/26/2023		PS-INV103193	50100	Direct Cost 30000 on 03/26/23	SALES	LARGE	

Demo – Data analysis on List pages in Business Central



Power BI – various scenarios

- Preparing the Queries
- Multicompany (example: Inventory)
- Multi-Fact (example: Finance - G/L vs Budget)
- Dataflows in PBI
- Analyse dataset in Excel
- PBI with Copilot, Fabric
- Incremental refresh
- Embedding into BC (including multiple reports, page parts)



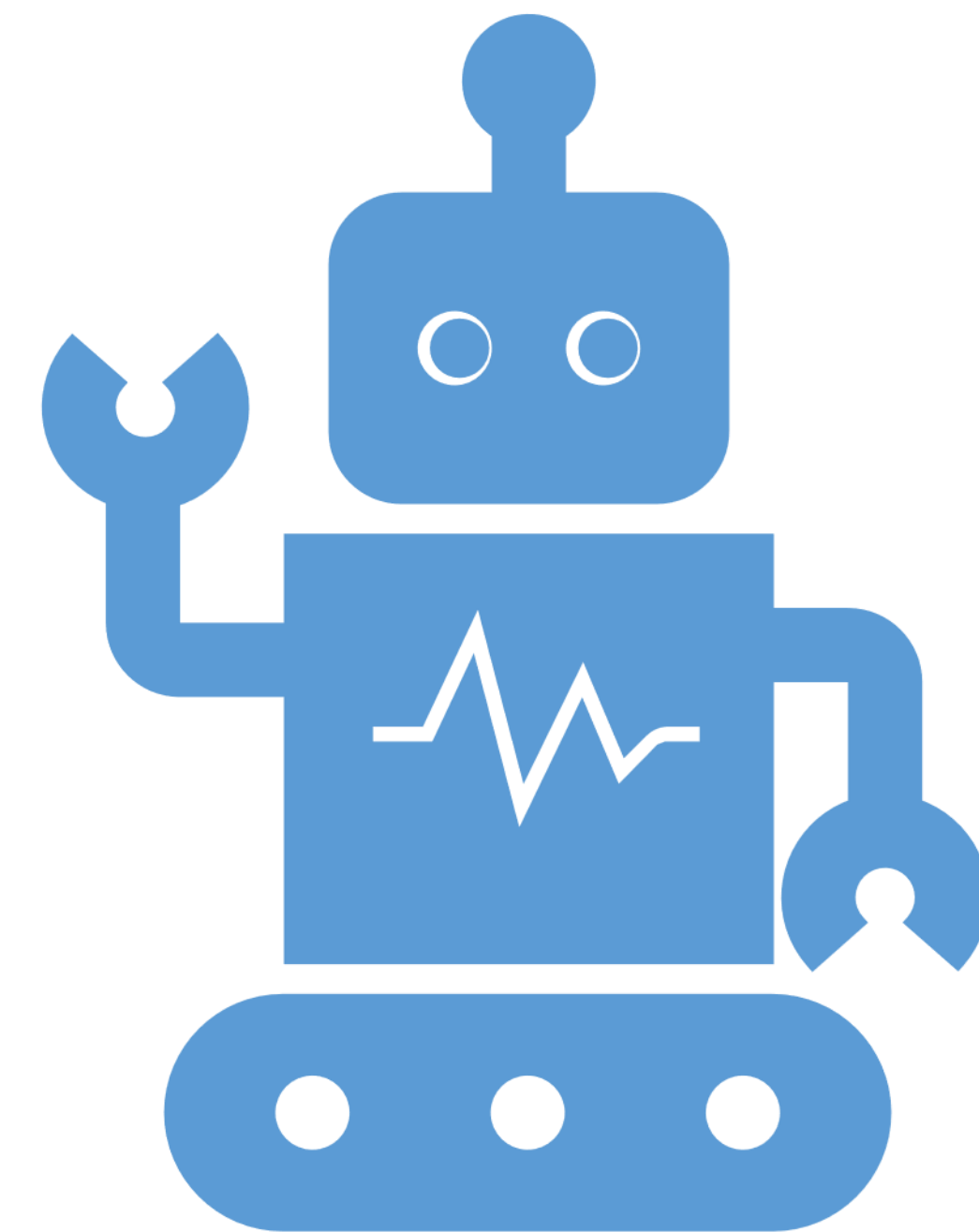
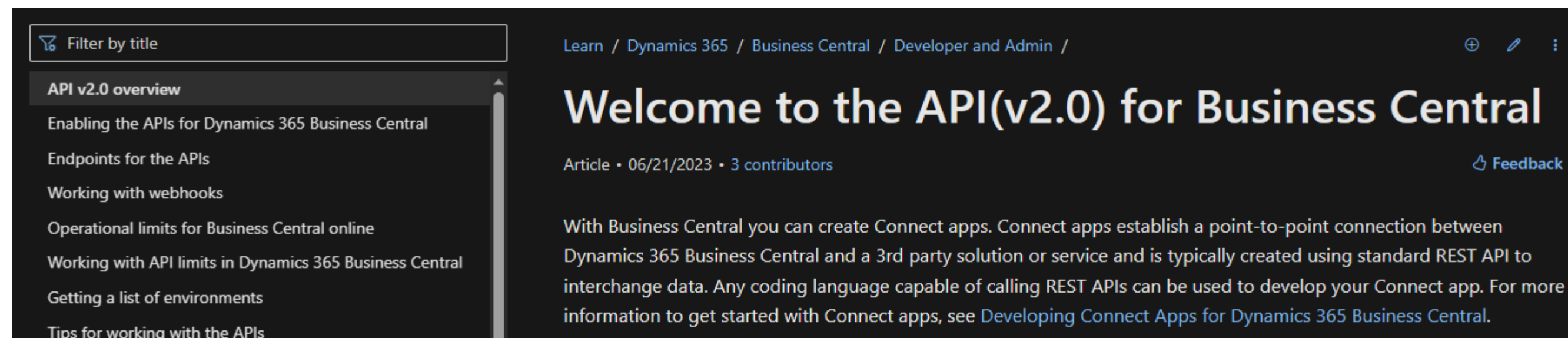
- **Preparing the Queries**

Odata Web Services



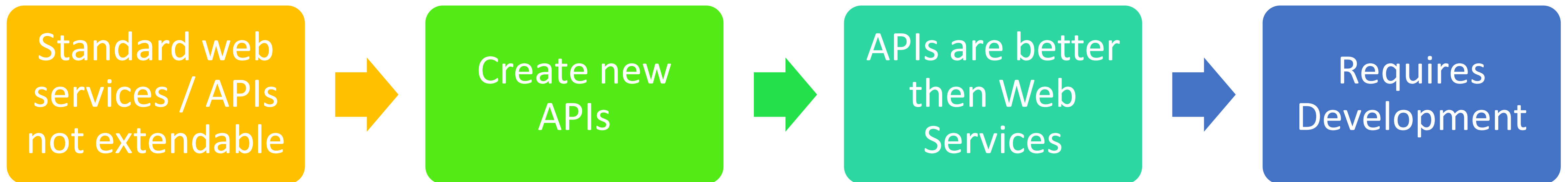
Power BI – various scenarios

- Preparing the Queries
- Explore available APIs:
 - <https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/api-reference/v2.0/>



Power BI – various scenarios

- Preparing the Queries



Power BI – various scenarios

- Preparing the Queries

50204 Sales

```
APIGroup = 'powerBI';
APIPublisher = 'solutize';
APIVersion = 'v1.0';
EntityName = 'sales';
EntitySetName = 'sales';
QueryType = API;
DataAccessIntent = ReadOnly;
```

elements

```
{
  1 reference
  dataitem(salesLine; "Sales Line")
  {
    0 references
    column(date; "Planned Shipment Date")
    { }

    0 references
    column(documentType; "Document Type")
    { }

    0 references
    column(documentNo; "Document No.")
  }
}
```

1 query 50205 Budget

```
2
3 APIGroup = 'powerBI';
4 APIPublisher = 'solutize';
5 APIVersion = 'v1.0';
6 EntityName = 'budget';
7 EntitySetName = 'budget';
8 QueryType = API;
9 DataAccessIntent = ReadOnly;
```

10 elements

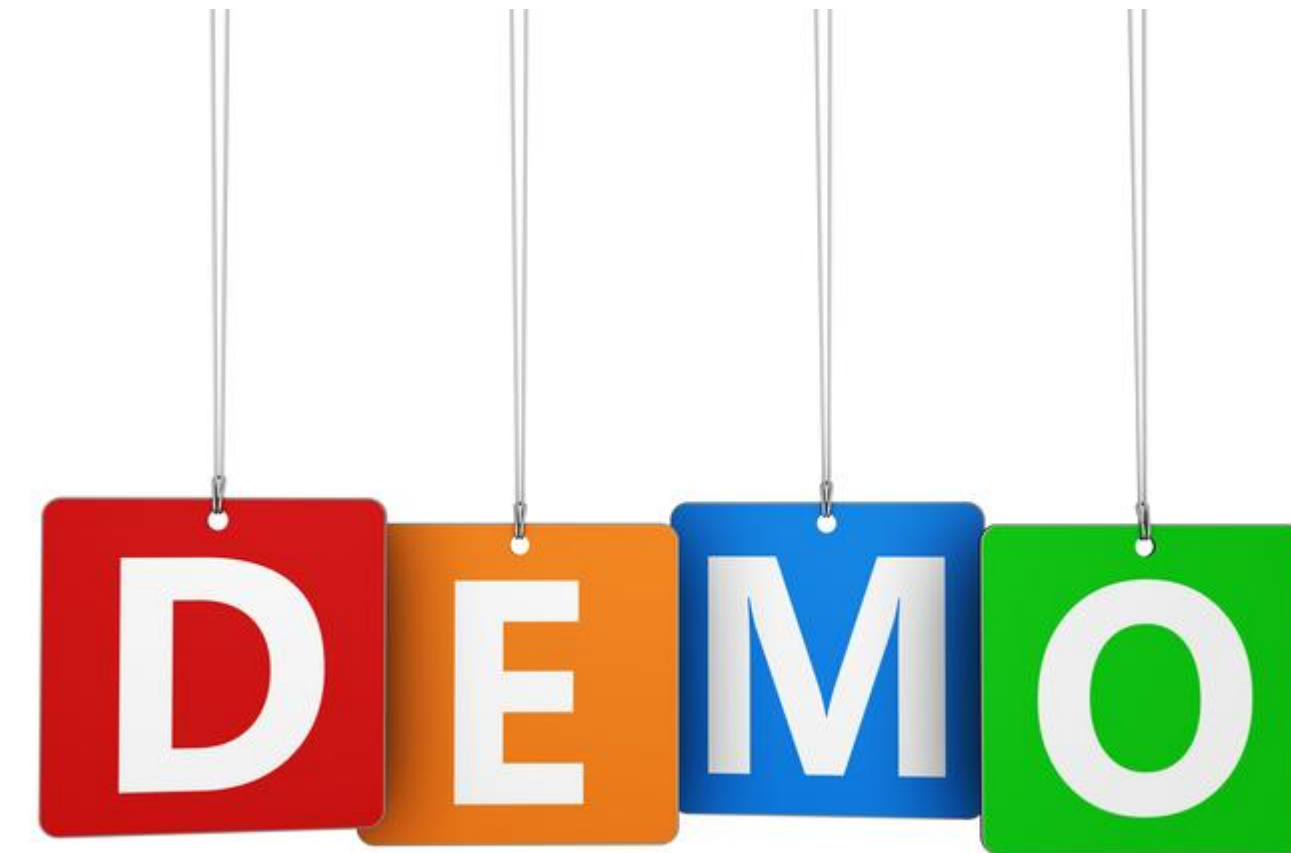
```
11 {
12   0 references
13   dataitem(itemBudgetEntry; "Item Budget Entry")
14   {
15     0 references
16     column(budgetName; "Budget Name")
17     { }
18     0 references
19     column("budgetdate"; "Date")
20     { }
21     0 references
22     column(dimensionSetID; "Dimension Set ID")
23     { }
24   }
25 }
```

Power BI – various scenarios

- Preparing the Queries

VSCode

API Queries / Pages



Power BI – various scenarios

- Multicompany
- Example: Inventory versus Availability, and/or by Location

Environment, Company

☐ Select all

^ ☐ SANDBOXPBI

☐ CRONUS USA, Inc.

☐ CRONUS USB

Custom column ?

Add a column that is computed from other columns or values.

New column name *

ItemKey

Data type

Custom column formula * ⓘ

= [Environment] & "-" & [Company] & "-" & [itemNo]

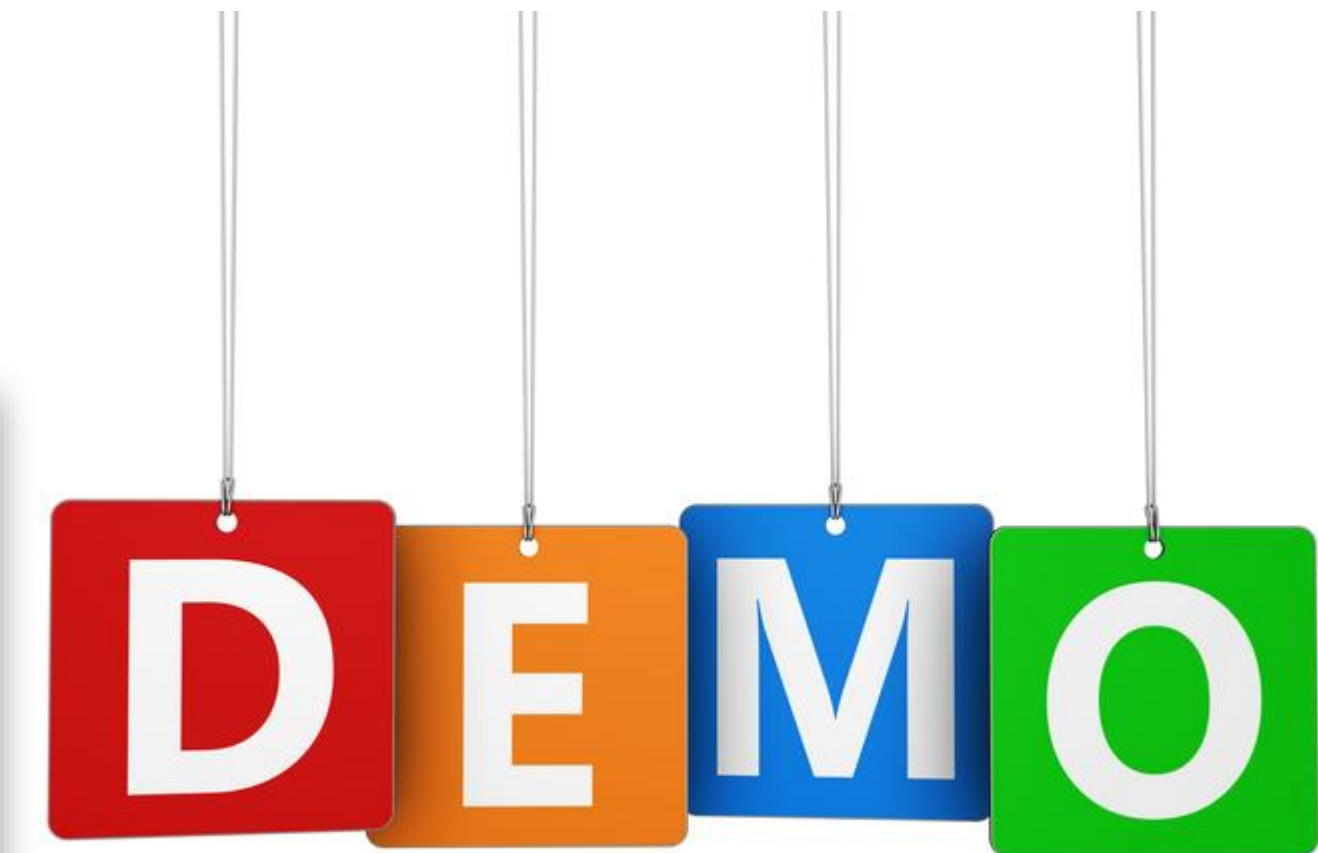
Available column(s)

Environment
Company
apiType
apiName
Name
sourceType
sourceNo

Insert column

[Learn more about Power Query formulas](#)

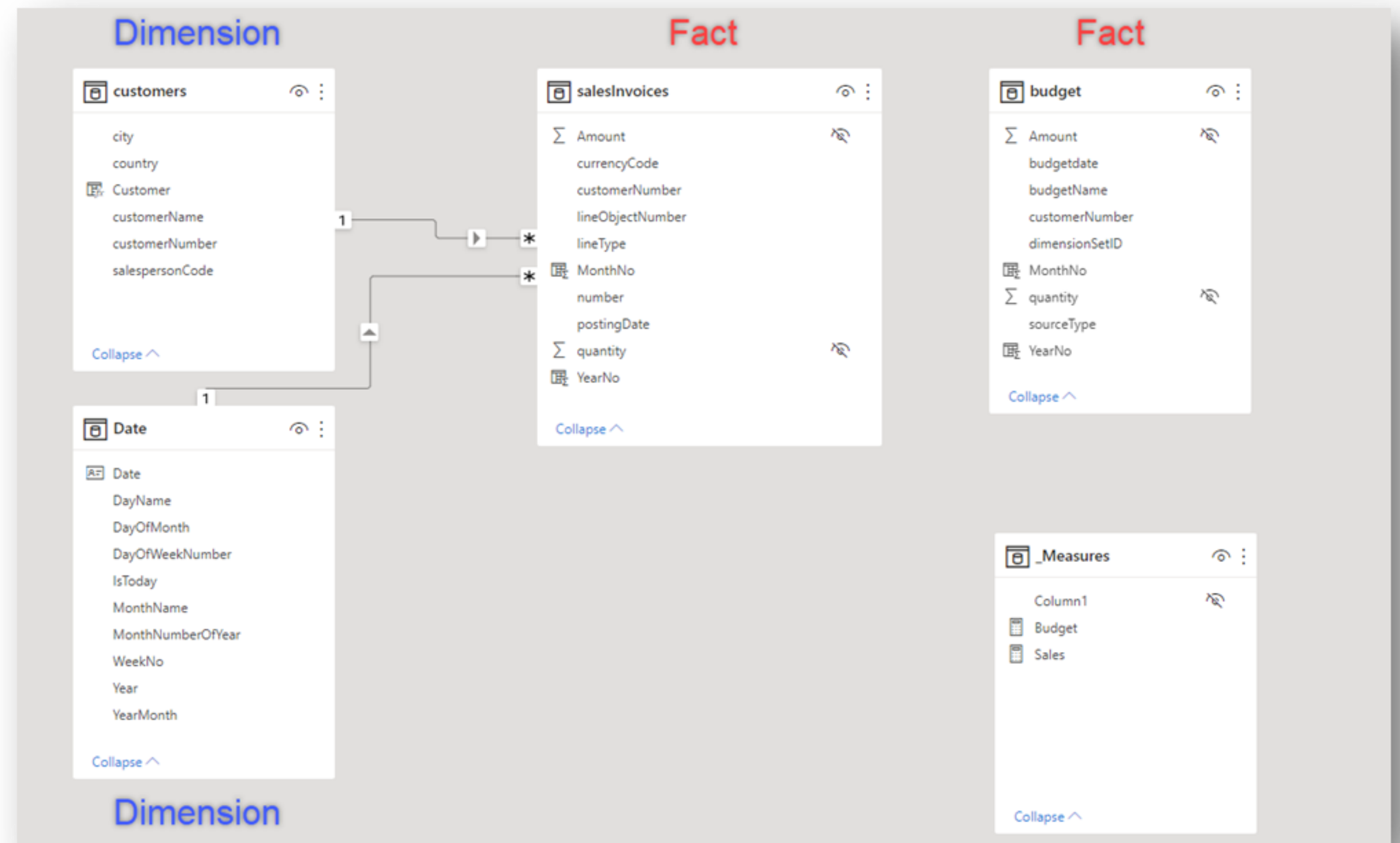
OK Cancel



Power BI – various scenarios

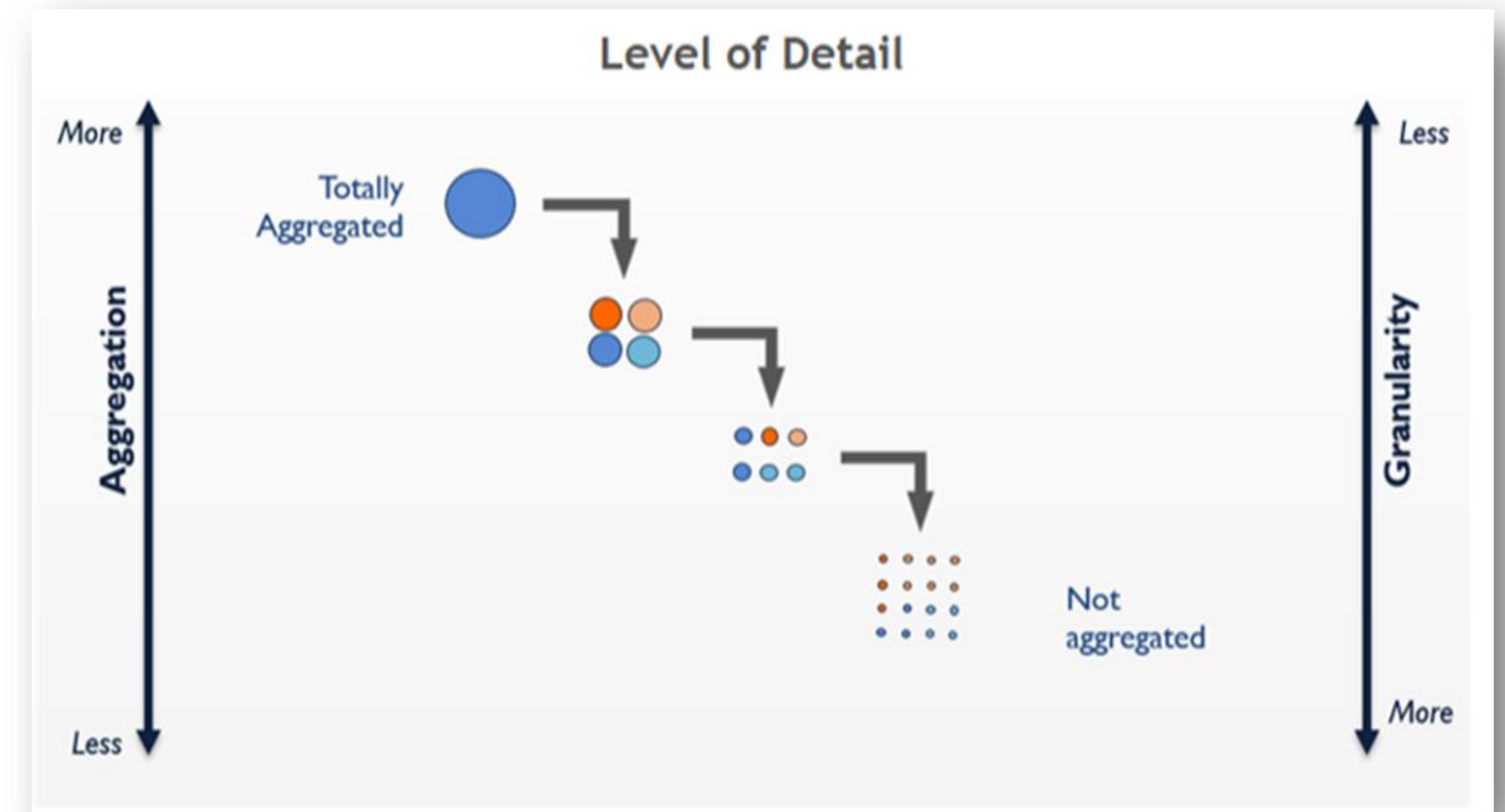
- Multi-Fact
- Example: Finance - G/L vs Budget

A typical example of tables with **different granularities** are **Sales** versus **Budget**.



Power BI – various scenarios

- **Multi-Fact**
 - Example: Finance - G/L vs Budget



Understanding Granularity

Create calculations that correctly aggregate values from tables with different granularities.

What defines granularity?

The granularity is the lowest level of information stored in the fact table.



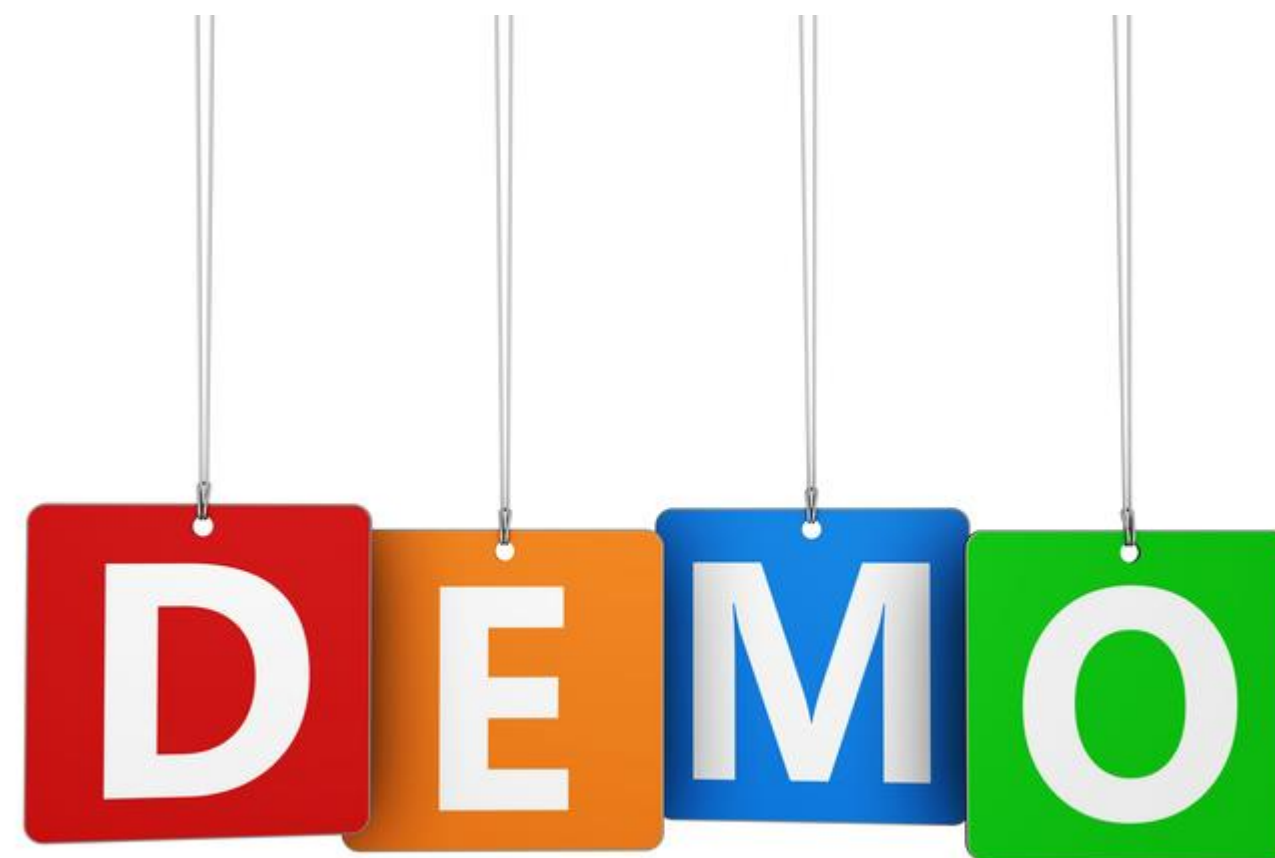
- **Multi-Fact**
 - Example: Finance - G/L vs Budget

So how can we create a correct relationship between the budget and date tables?



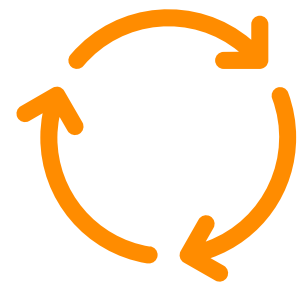
Power BI – various scenarios

- **Multi-Fact**
 - Example: Finance - G/L vs Budget



Power BI – various scenarios

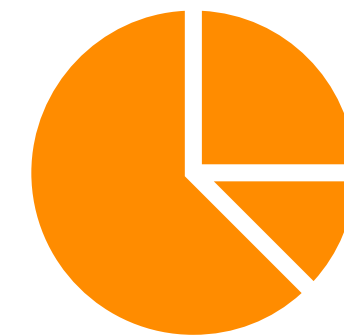
- Dataflows



As data volume continues to grow, so does the challenge of wrangling that data into well-formed, actionable information.



We want data that's ready for analytics, to populate visuals, reports, and dashboards, so we can quickly turn our volumes of data into actionable insights.



With self-service data prep for big data in Power BI, you can go from data to Power BI insights with just a few clicks.



Dataflows to the rescue!



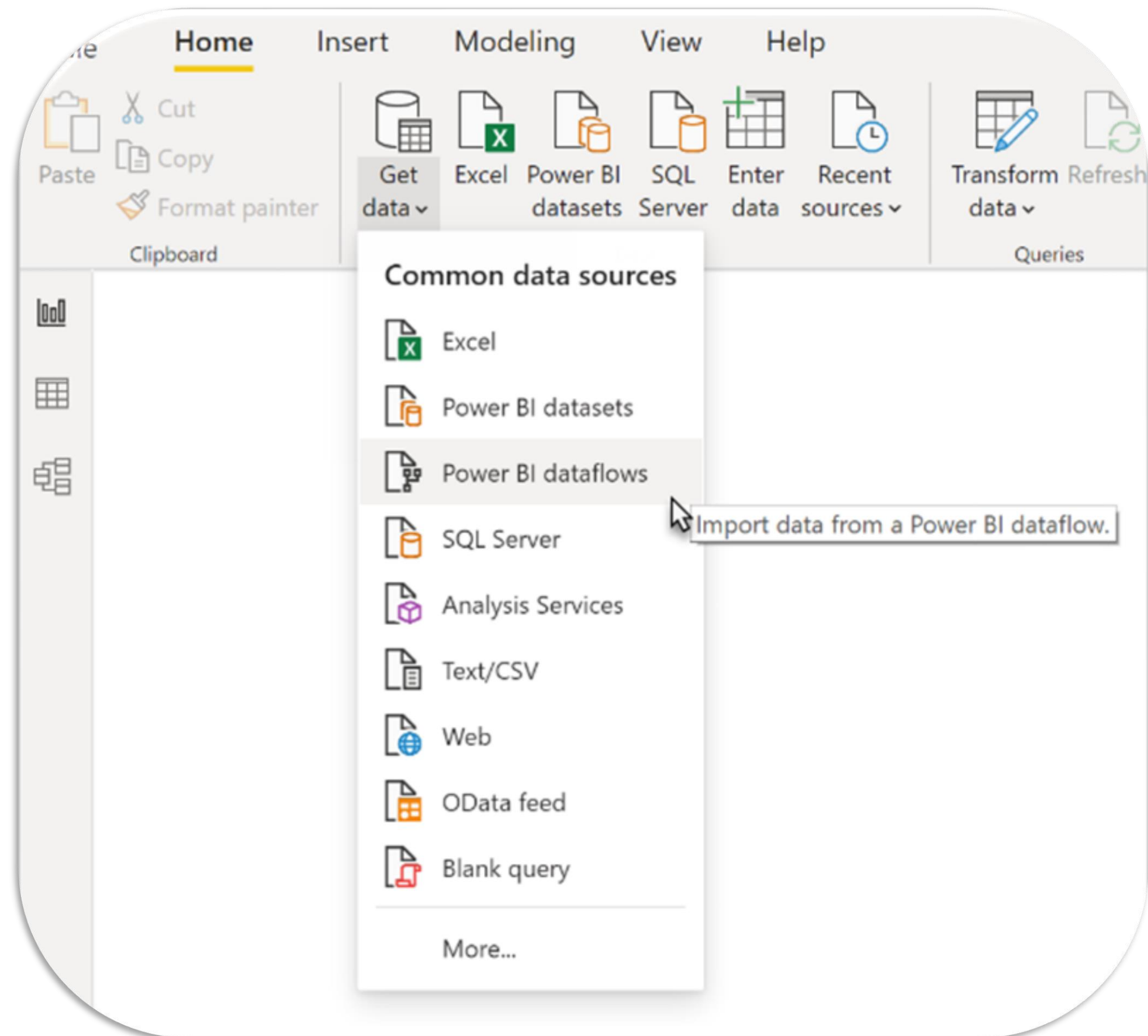
- **Dataflows**

Creating a dataset in Dataflows



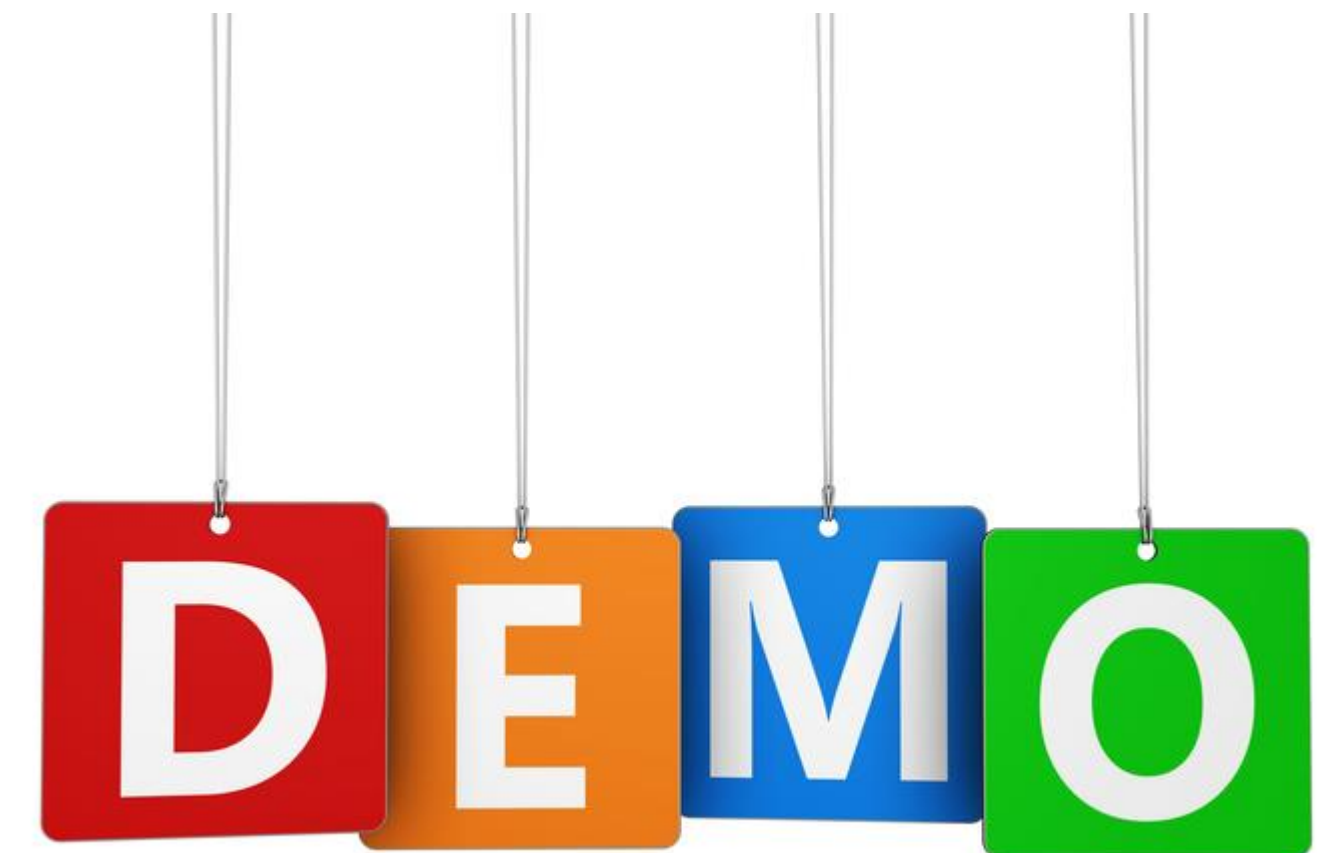
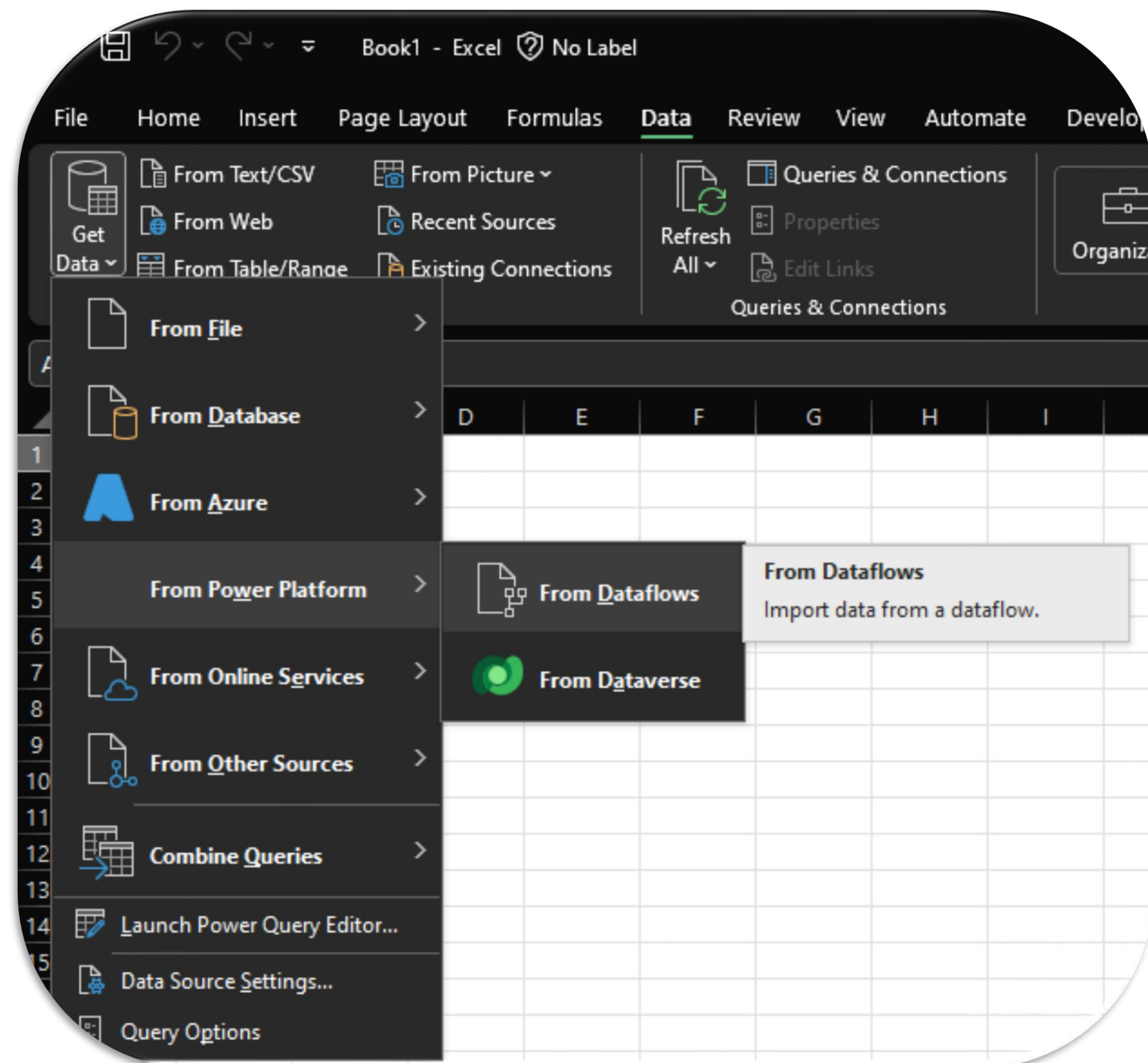
Power BI – various scenarios

- Dataflows
 - Consuming a dataflow in Power BI



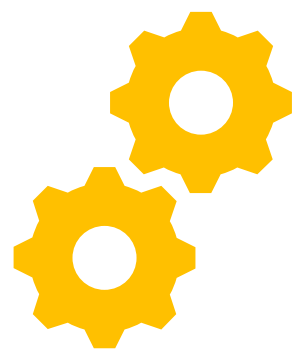
Power BI – various scenarios

- Dataflows
 - Consuming a dataflow in Excel

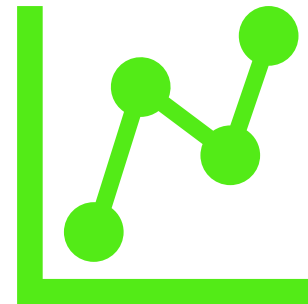


Power BI – various scenarios

- **Dataflows in PBI**
 - Why dataflows?



Create reusable transformation logic.



Can be shared by many datasets and reports inside Power BI.



Create a single source of the truth.



Prevent analysts from having direct access to the underlying data source.



Power BI – various scenarios

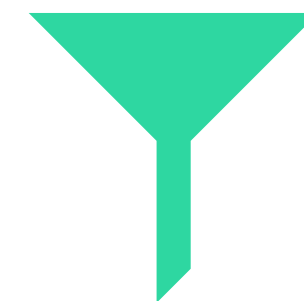
- **Dataflows in PBI**
 - Why dataflows?



1 read from data
source, all other reads
from dataflow



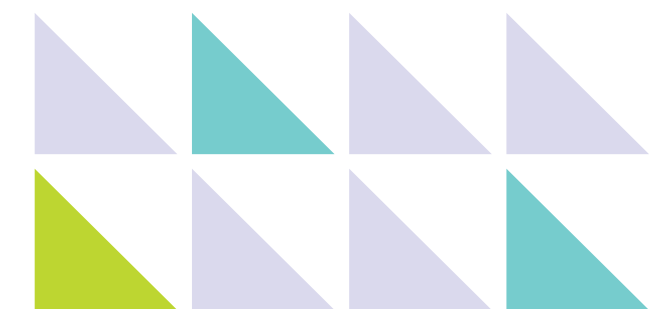
Security can be
managed in dataflow



Dataflow can filter and
aggregate data



Refresh schedule per
dataflow è Master
versus Ledgers



Power BI – various scenarios

- Analyse dataset in Excel
- *What's usually the first question, after you demo an amazing Power BI report, with an awesome data model and carefully selected visuals?*
- *Can we export this to Excel?*



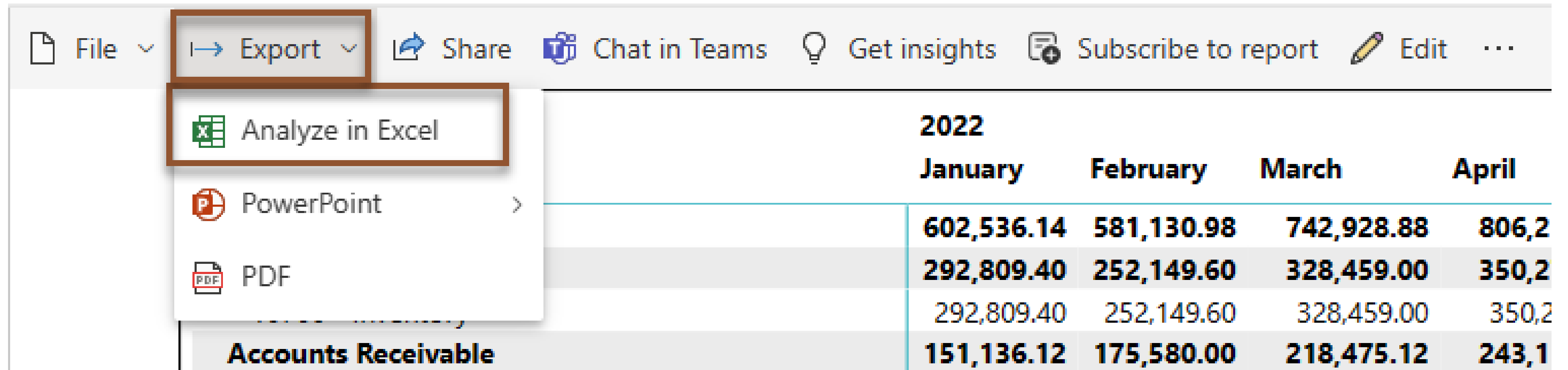
Power BI – various scenarios

- **Analyse dataset in Excel**
 - Power BI provides you with options to ensure that you can extract the right **granularity** of data depending on how you want to analyze that data in Excel, either with Excel **PivotTables** or Excel **tables**.
- In the **Power BI service**, use the following two features to create an Excel workbook:
 - **Analyze in Excel**
 - **Export to Excel with live connection**



Power BI – various scenarios

- Analyse dataset in Excel
- Open a Power BI report.
- Select **Export > Analyze in Excel** from the top ribbon.

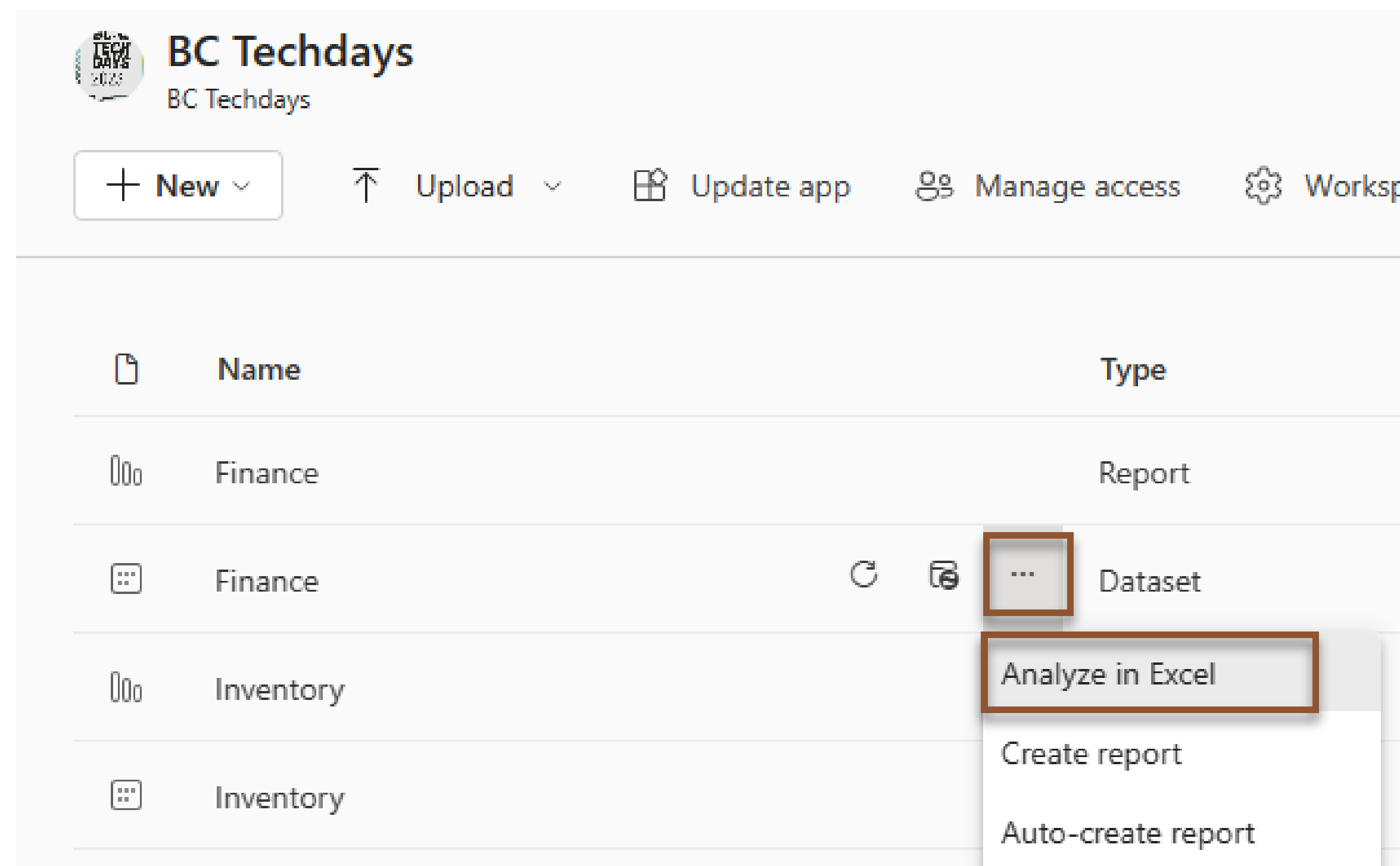


The screenshot shows the Power BI top ribbon with the 'Export' menu open. The 'Analyze in Excel' option is highlighted. The background displays a financial table for 2022.

	2022			
	January	February	March	April
	602,536.14	581,130.98	742,928.88	806,2
	292,809.40	252,149.60	328,459.00	350,2
	292,809.40	252,149.60	328,459.00	350,2
Accounts Receivable	151,136.12	175,580.00	218,475.12	243,1

Power BI – various scenarios

- Analyse dataset in Excel
- Go to the **workspace** containing your Power BI dataset or report, select **More options (...)** next to the **dataset** or report name and select **Analyze in Excel**.



Power BI – various scenarios

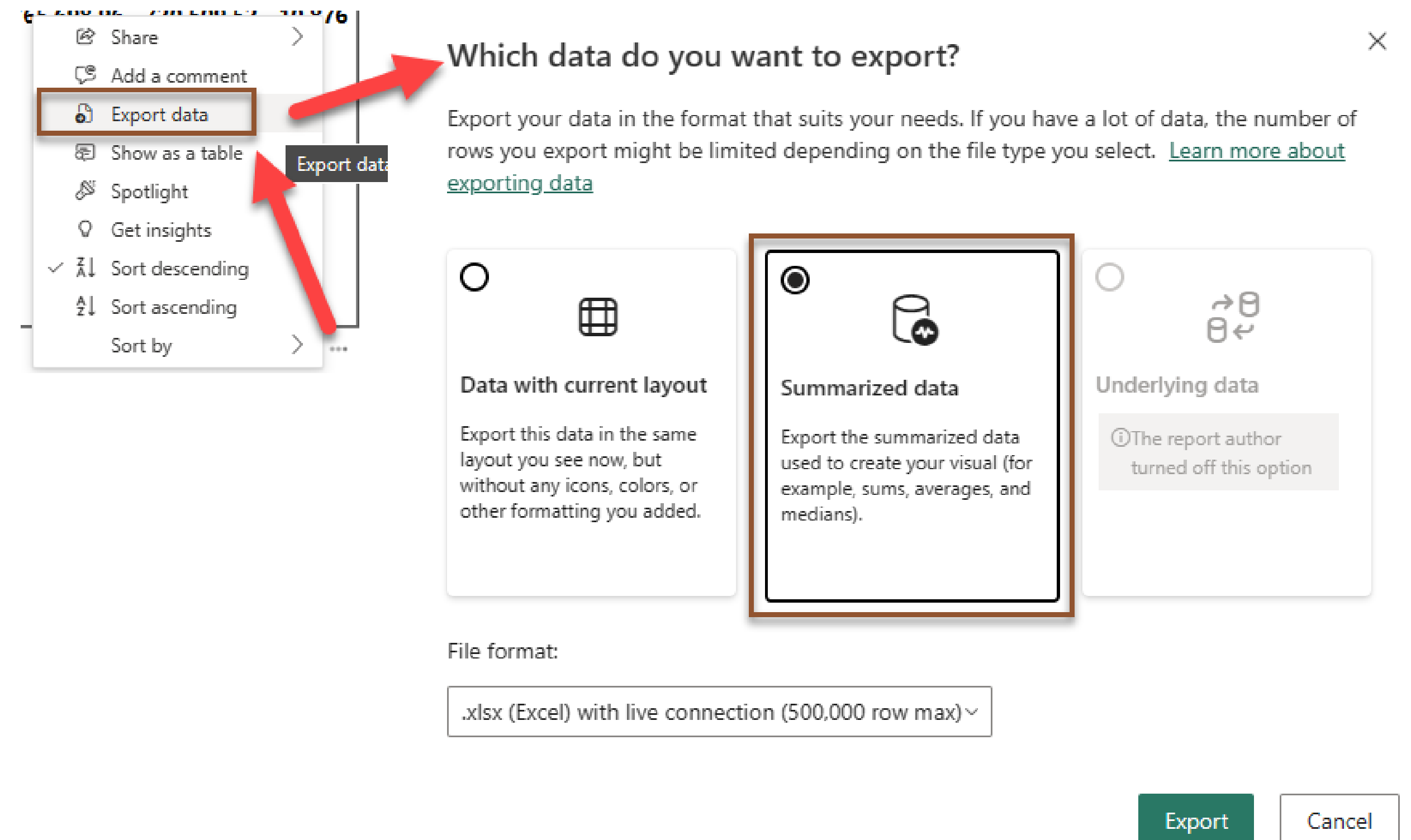
- **Analyse dataset in Excel**
 - Select a **dataset** in a Power BI workspace.
 - In the **Dataset details** page, select **Analyze in Excel** on the menu bar.



Power BI – various scenarios

- Analyse dataset in Excel
- Export to Excel with live connection

1. Choose a **visual** in a Power BI report, select More options (...).
2. On the **Options** menu, select **Export data**.
3. Select the **Summarized data** card, and choose the **.xlsx (Excel)** with live connection (500,000 row max) option under **File format**.



Power BI – various scenarios

- Analyse dataset in Excel



Power BI – various scenarios

- PBI with Copilot, Fabric

Next generation of AI with Copilot in Power BI

With Copilot in Power BI, we are infusing the power of large language models into Power BI at every layer to help users get more done and create more value from their data.



Power BI – various scenarios

- PBI with Copilot, Fabric

Using Copilot, you can simply describe the visuals and insights you're looking for, and Copilot will do the rest.

Users can create and tailor reports in seconds, generate and edit DAX calculations, create narrative summaries, and ask questions about their data, all in conversational language.



Power BI – various scenarios

- **PBI with Copilot, Fabric**

We've already released the quick measure suggestions for DAX capability that helps analysts quickly create the code they need.

The rest of the Copilot in Power BI experiences are now in private preview.

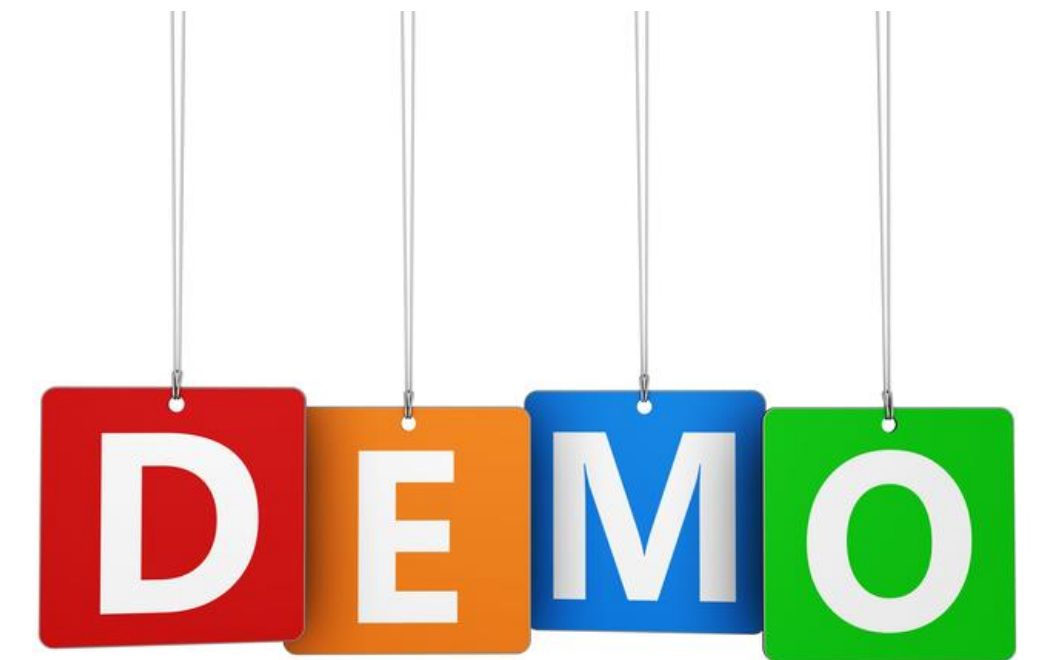
Stay tuned to the Power BI blog for the latest updates and public release date for Copilot in Power BI.



Power BI – various scenarios

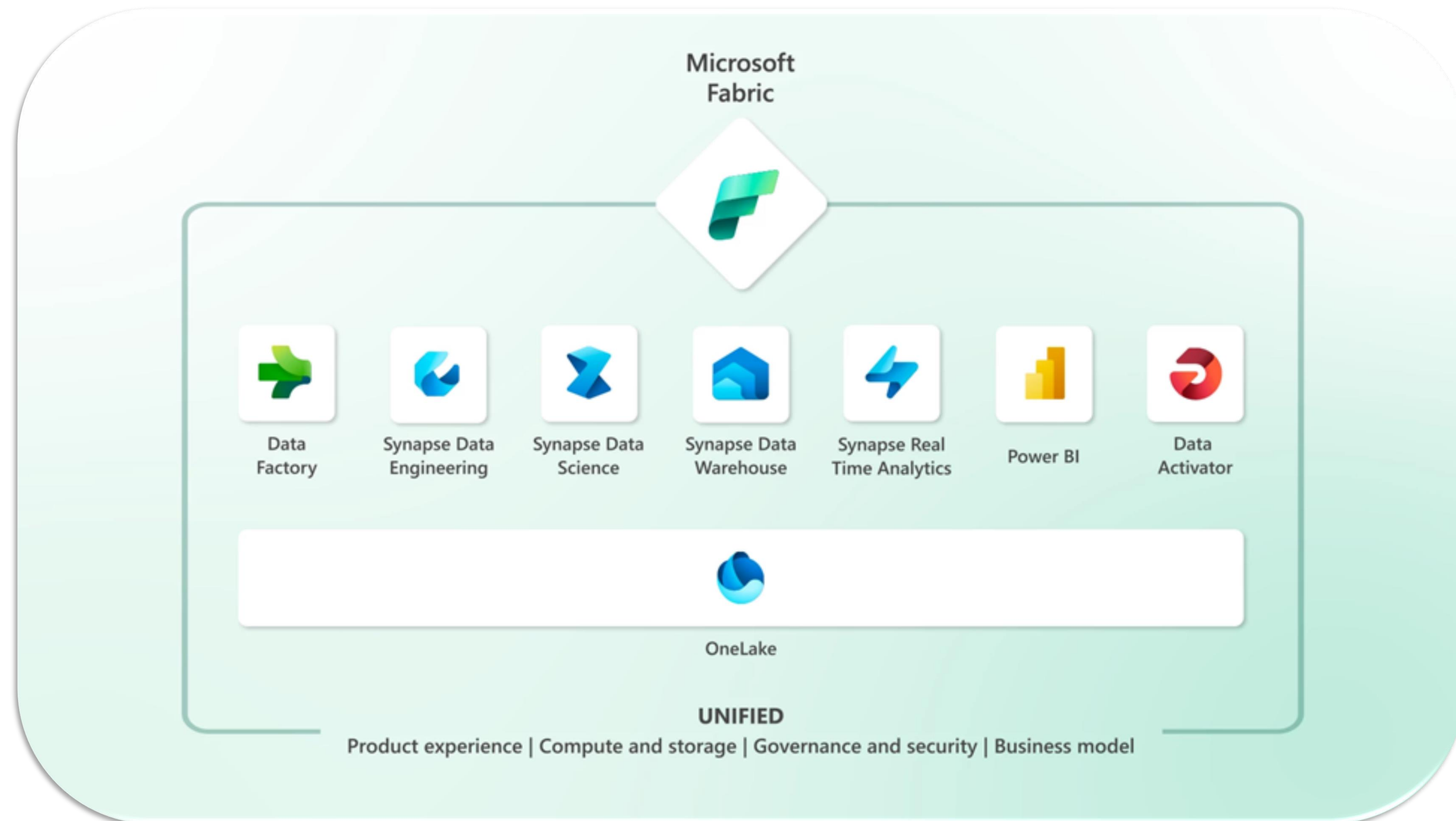
- PBI with Copilot, Fabric

Introducing the next generation of
AI in Microsoft Power BI



Power BI – various scenarios

- PBI with Copilot, Fabric



Power BI – various scenarios

- PBI with Copilot, Fabric

Fabric is powered by AI

With Copilot in Microsoft Fabric users can



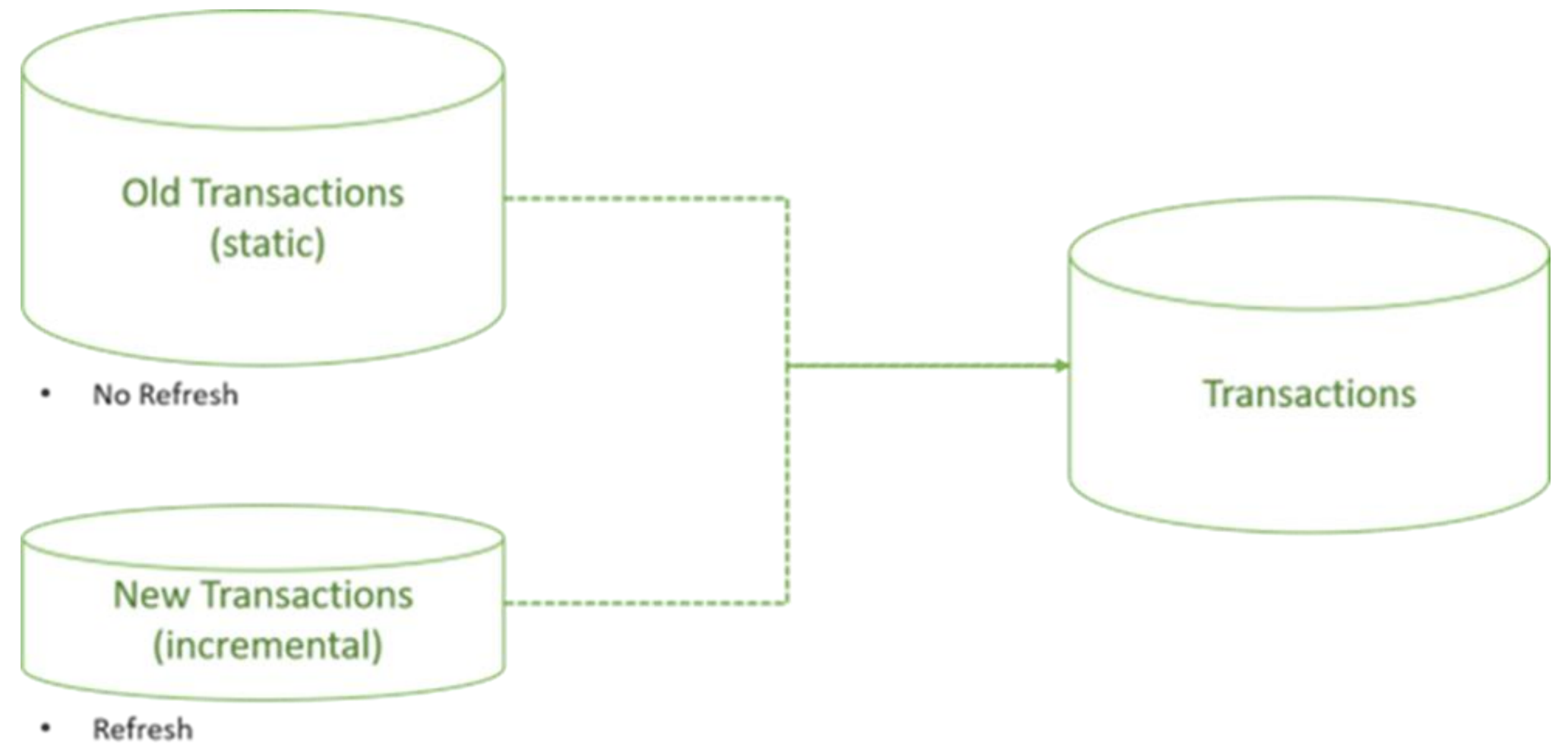
Power BI – various scenarios

- Incremental refresh

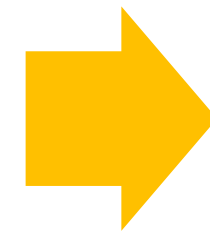


Power BI – various scenarios

- Incremental refresh
 - Power BI Service



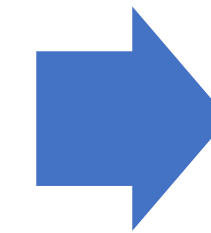
In Power Query, split the table into two tables using the cutoff-date.



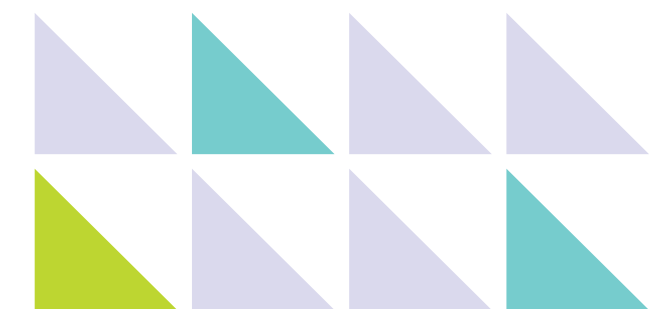
Disable refresh on static table.



Load data.



Then union both tables, after import using DAX.



Power BI – various scenarios

- Incremental refresh
- Dataflows

Incremental refresh settings

Appointment

Incremental refresh updates only data that's changed, to speed refresh, reduce capacity usage, and store historic data. [Learn more](#)

☒ On

Choose a DateTime field to filter by

createdon ▼

Store rows from the past

5 Years ▼

Refresh rows from the past

10 Days ▼

☐ Detect data changes [Learn more](#)

Only refresh data if the maximum value in this field changes

Choose a field ▼

☐ Only refresh complete [Learn more](#)

When you save these settings, data from the past [storage period] will be loaded to your dataflow storage the next time this dataflow is refreshed. Subsequent refreshes will update only data that's changed in the past [refresh period].

Save Cancel

Entities Machine learning models			Edit entities	Add entities	Close
ENTITY NAME	ENTITY TYPE	ACTIONS			
▶ Table	Custom	Incremental Refresh			

⚠ This dataflow contains tables with active incremental refresh policies, which require Premium to refresh. To enable refresh, upgrade this workspace to Premium capacity.



Embed Power BI into Business Central

- Show Power BI reports embedded in Business Central.
- By default, available in Role Center and several list pages.
- Extendable with code and enable you to embed Power BI on more list pages and card pages.

Purchase Orders: All

Search

Analyze

+ New

Delete

Home

Release

Post...

Print/Send

Order

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorizati... No.	Location Code	Assigned User ID	Document Date
106001	10000	Fabrikam, Inc.				4/8/2023
106002	20000	First Up Consultants				4/9/2023
106003	40000	Wide World Importers				4/13/2023
106004	30000	Graphic Design Institute				5/1/2023

Details

Attachments (0)

Power BI Report

Back to report

SUM OF QTYTOR...

1906-S

19

CRONUS USB

Finance

Cash Management

Sales

Purchasing

Customers

Vendors

Items

Bank Accounts

Chart of Accounts

Extension Management

Power BI Report

There are no enabled reports.

Select reports

Power BI Report

There are no enabled reports.

Select reports

Power BI Report

There are no enabled reports.

pageextension 50290 "Purchase Orders Extension" extends "Purchase Order List"

{

layout

{

addfirst(factboxes)

{

part(PowerBIEmbeddedReportPart; "Power BI Embedded Report Part")

{

ApplicationArea = Basic, Suite;

Visible = false;

}

}

}

trigger OnAfterGetCurrRecord()

begin

CurrPage.PowerBIEmbeddedReportPart.Page.SetCurrentListSelection(rec."No.");

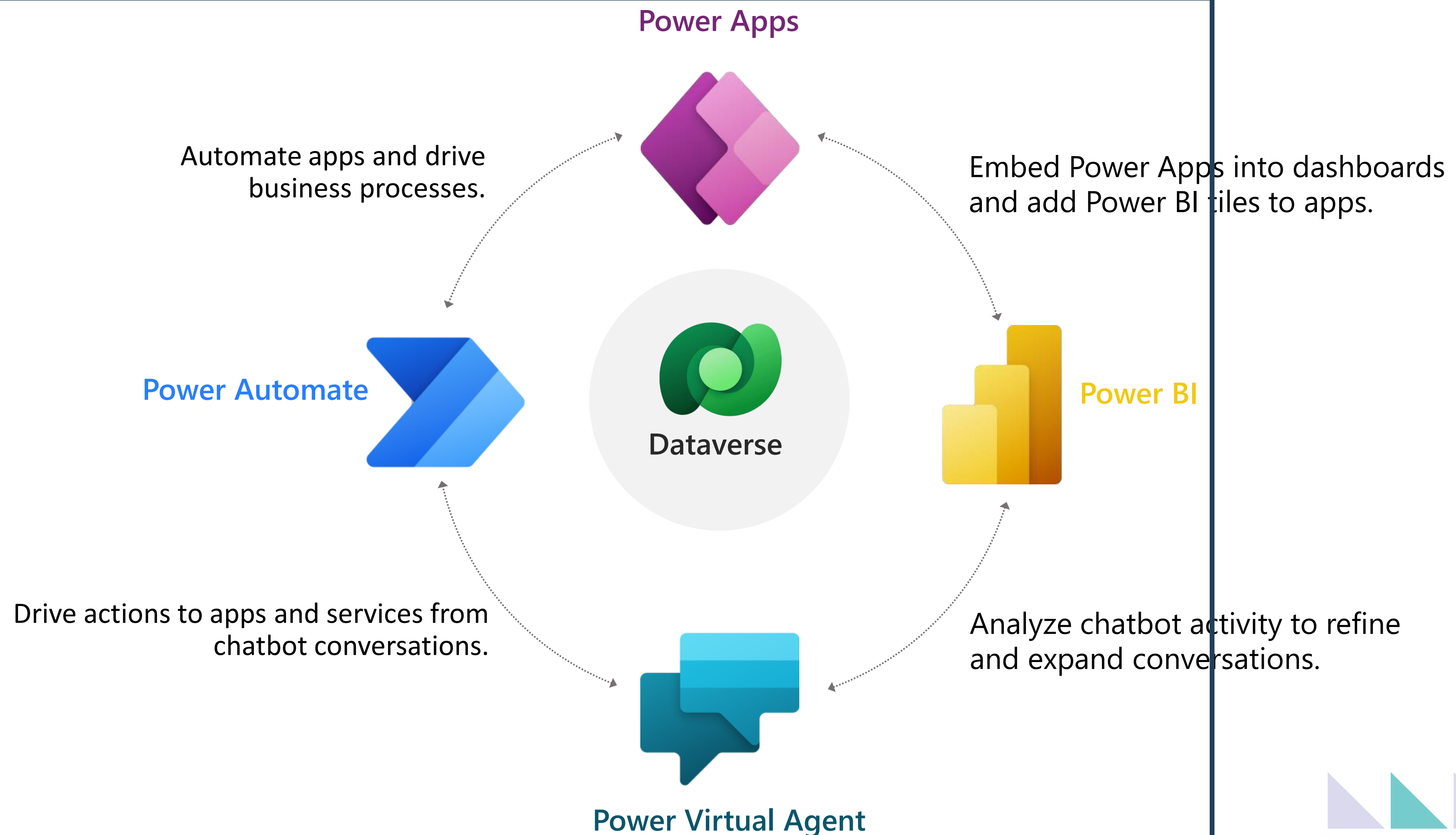
end;

}

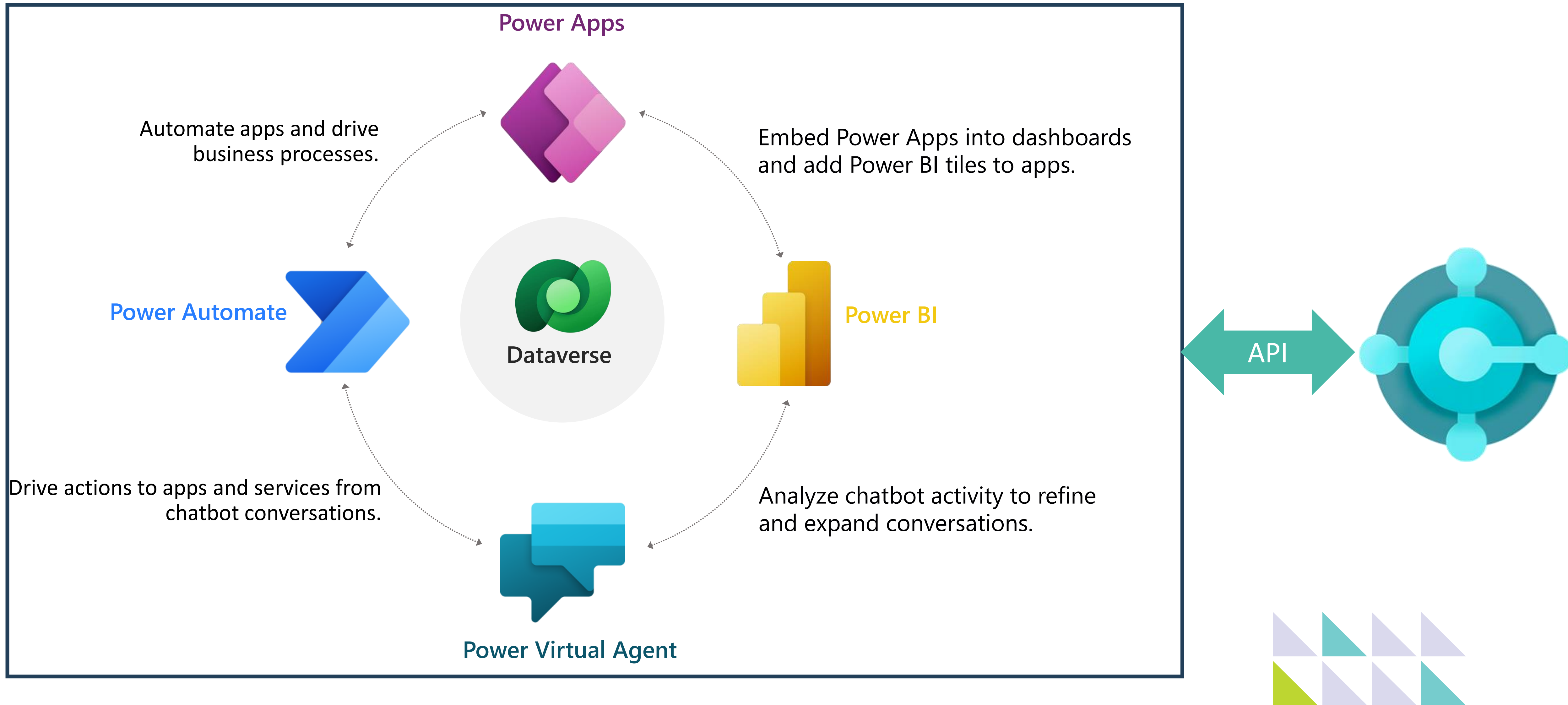
Demo – Embed Power BI into Business Central



Use Power Platform for Business Central Reporting

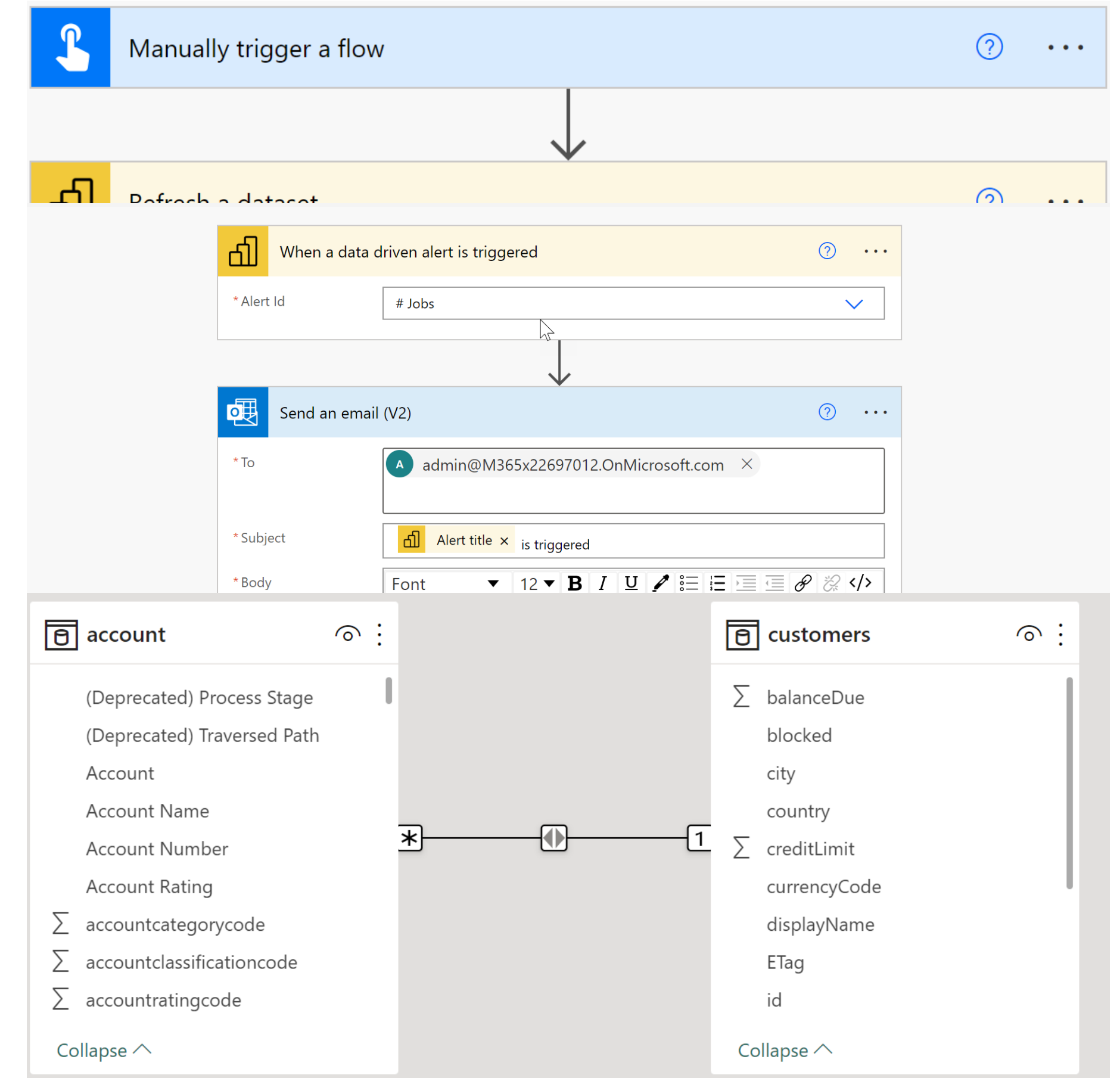


Use Power Platform for Business Central Reporting



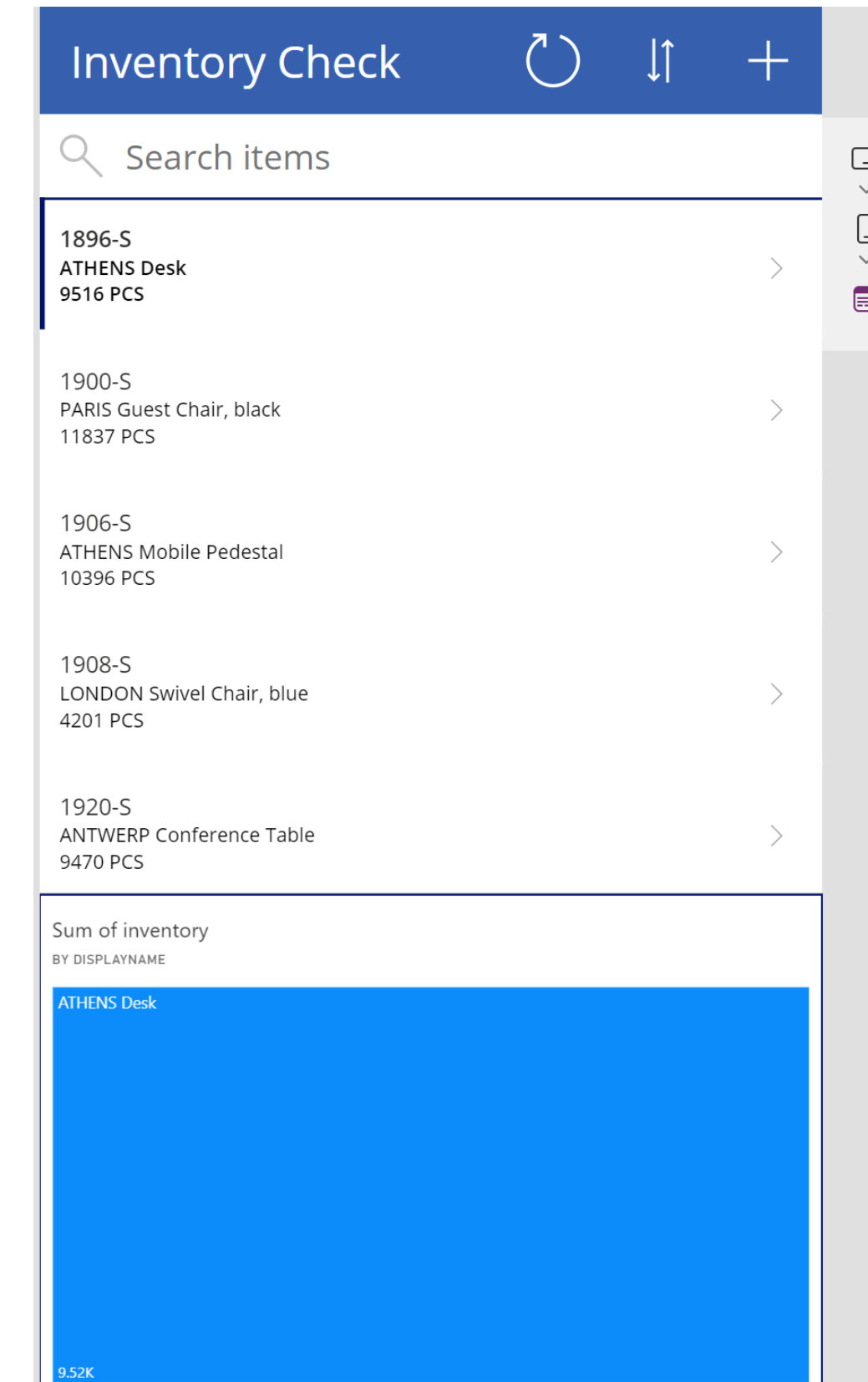
Use Power Platform for Business Central Reporting

- Use Power Automate button in Power BI report.
 - Trigger dataset refresh with Power Automate.
 - Send notifications based on the Power BI Alert.
-
- Combine D365 Business Central data with data from other sources via Dataverse



Use Power Platform for Business Central Reporting

- Build Power Apps based on D365 Business Central Data with embedded Power BI



Demo – utilize Power Platform for Business Central Reporting



Telemetry for Business Central reports

- Through App Insights or using out of the box Power BI Telemetry app.
- Use **Report usage** report to check which reports are used and when.
- As a **consultant** I can always take a look what are most used report layouts and suggest improvements.

This page shows the reports that users use, how often, when, and how they run them, and which layouts and document formats they prefer.

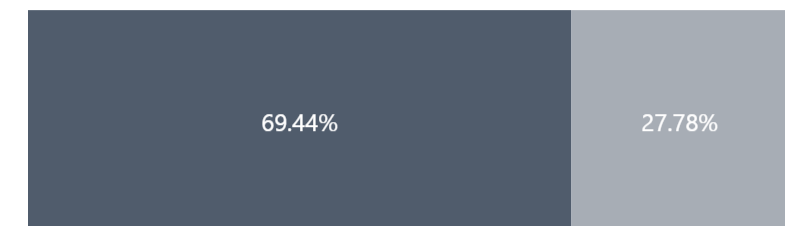
Reports by Environment

Count	Domain	AAD Tenant Id	Environment Name
24		3923348d-a7a7-4976-acbe-44d7ab206375	SandboxPBI
11		7acb52b7-c2a0-4fdd-8514-77d097697d12	Community
1		7acb52b7-c2a0-4fdd-8514-77d097697d12	Sandbox
36			

Layout types

Layout Type

- Excel
- Rdlc
- Word



Report usage by Publisher

Publisher / Report	Count
Microsoft	15
Account Schedule	2
Customer - Top 10 List	15
Standard Purchase - Order	1
Trial Balance	1
Milan & Renato	9
Inventory By Locations	9
Steven Renders	8
Total	36

Report usage

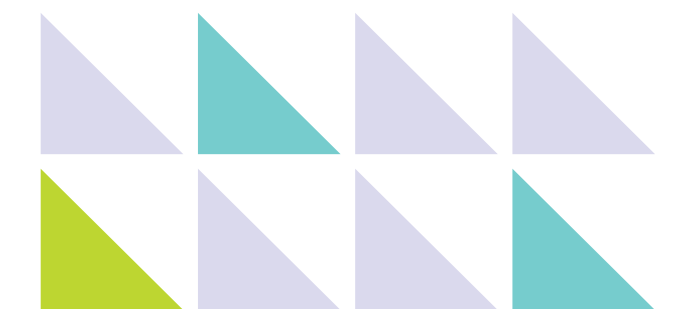
Report / Version	Count
Account Schedule	2
Customer - Top 10 List	15
Finance	1
Inventory By Locations	9
1.0.0.0	9
ItemAvailability	5
Shipments	2
Standard Purchase - Order	1
Total	36

Layout details (which layouts are used in reports)

Count	Layout Name	Layout Type	Layout Id
7	./SalesReceivables/CustomerTop10List.rdlc	Rdlc	437dbf0e-84ff-417a-965d-ed2bb9650972
5	Customer Top 10 PV	Excel	00000000-0000-0000-0000-000000000000
4	Excel RF	Excel	00000000-0000-0000-0000-000000000000
3	ExcelLayout	Excel	a76f5d4b-fc72-4745-b1c0-46fc82df8227
2	./FinancialMgt/FinancialReports/AccountSchedule.rdlc	Rdlc	437dbf0e-84ff-417a-965d-ed2bb9650972
2	Customer - Top 10 PV	Excel	00000000-0000-0000-0000-000000000000
2	Inventory by Location PV	Excel	00000000-0000-0000-0000-000000000000
2	ItemAvailability1	Excel	7a94187d-bc58-4a8f-b658-6de95fa1e5c9
36			

Reports by date

Client type ● WebClient



Telemetry for Business Central reports



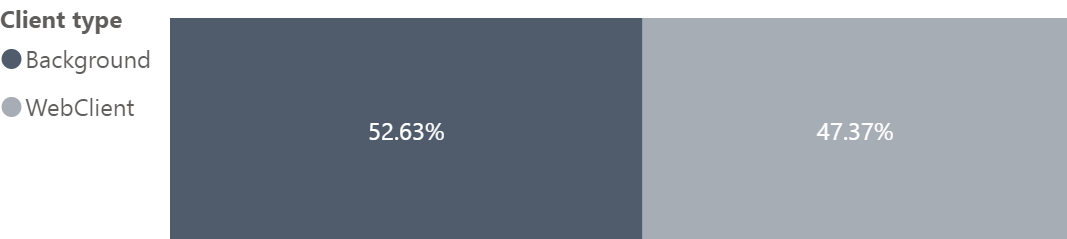
- Use **Report performance** statistics to check timings of reports, client and layout types.

- <https://aka.ms/bctelemetry>

Report statistics

Count	Report Name	Object Id	Sum time (min)	Avg time (sec)	Max time (sec)
1	Standard Purchase - Order	1322	1	33	33
15	Customer - Top 10 List	111	0	1	5
40	Delegate Approval Requests	1511	0	0	1
9	Inventory By Locations	50100	0	0	1
5	ItemAvailability	50100	0	0	1
1	Finance	50101	0	2	2
2	Account Schedule	25	0	1	1
1	Trial Balance	6	0	1	1
2	Shipments	50102	0	0	0
76			1	1	33

Reports by Client Type



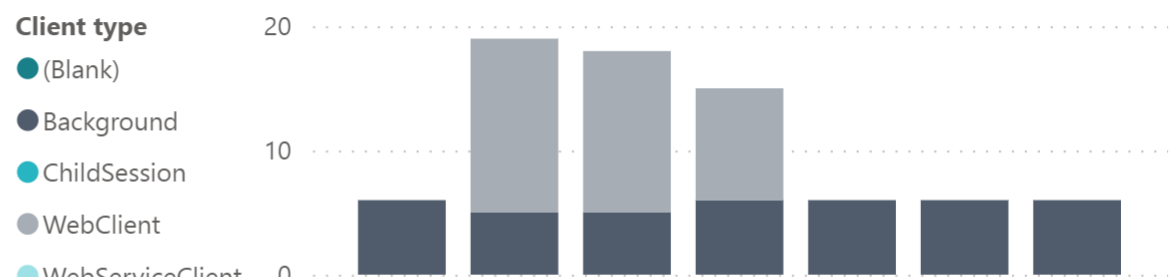
Reports by Database Access Intent



Layouts (which layouts are being used)

Count	Layout Name	Layout Type	Layout Id
40		ProcessingOnly	
2	./FinancialMgt/FinancialReports/AccountSchedule.rdlc	Rdlc	437dbf0e-84ff-417a-965d-ed2bb9
1	./FinancialMgt/GeneralLedger/TrialBalance.rdlc	Rdlc	437dbf0e-84ff-417a-965d-ed2bb9

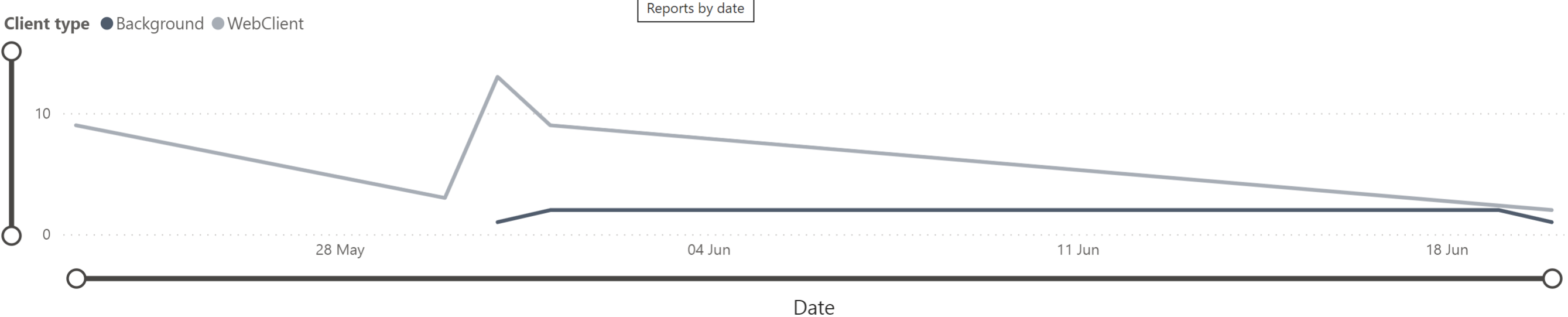
Reports over the Week



Dataset and rendering statistics

Count	Report Name	Object Id	Sum total time (min)	Avg total time (sec)	Max total time (sec)	Sum dataset time (min)	Avg dataset time (sec)	Max dataset time (sec)	Sum rendering time (min)	Avg rendering time (sec)	Max rendering time (sec)
2	Shipments	50102	0	0	0	0	0	0	0	0	0
1	Trial Balance	6	0	1	1	0	1	1	0	0	0
2	Account Schedule	25	0	1	1	0	1	1	0	0	0
1	Finance	50101	0	2	2	0	2	2	0	0	0
5	ItemAvailability	50100	0	0	1	0	0	1	0	0	0
9	Inventory By Locations	50100	0	0	1	0	0	1	0	0	0
40	Delegate Approval Requests	1511	0	0	1	0	0	1	0	0	0
15	Customer - Top 10 List	111	0	1	5	0	1	5	0	0	0
76			1	1	33	1	1	33	0	0	0

Reports by date



Demo - Telemetry for Business Central reports



Best practices

- Use **Telemetry**
 - Manage your **Datasets**
 - Use **Read Scale-Out** to read data from a read-only copy of the database
 - Use **AL queries** to optimize the way data is read from the database
 - Manage **Security**
 - If “Power BI” then “**Star**” | “**Snowflake**”!
 - **Know** your stuff
-
- ☺ Enroll for **Learning Journeys** for Business Central -
<https://businesscentralbooster.com>
 - Attract the right resources
 - Offer them continued learning
 - Retain talent



Licencing

Power BI	<u>https://powerbi.microsoft.com/en-us/pricing</u>
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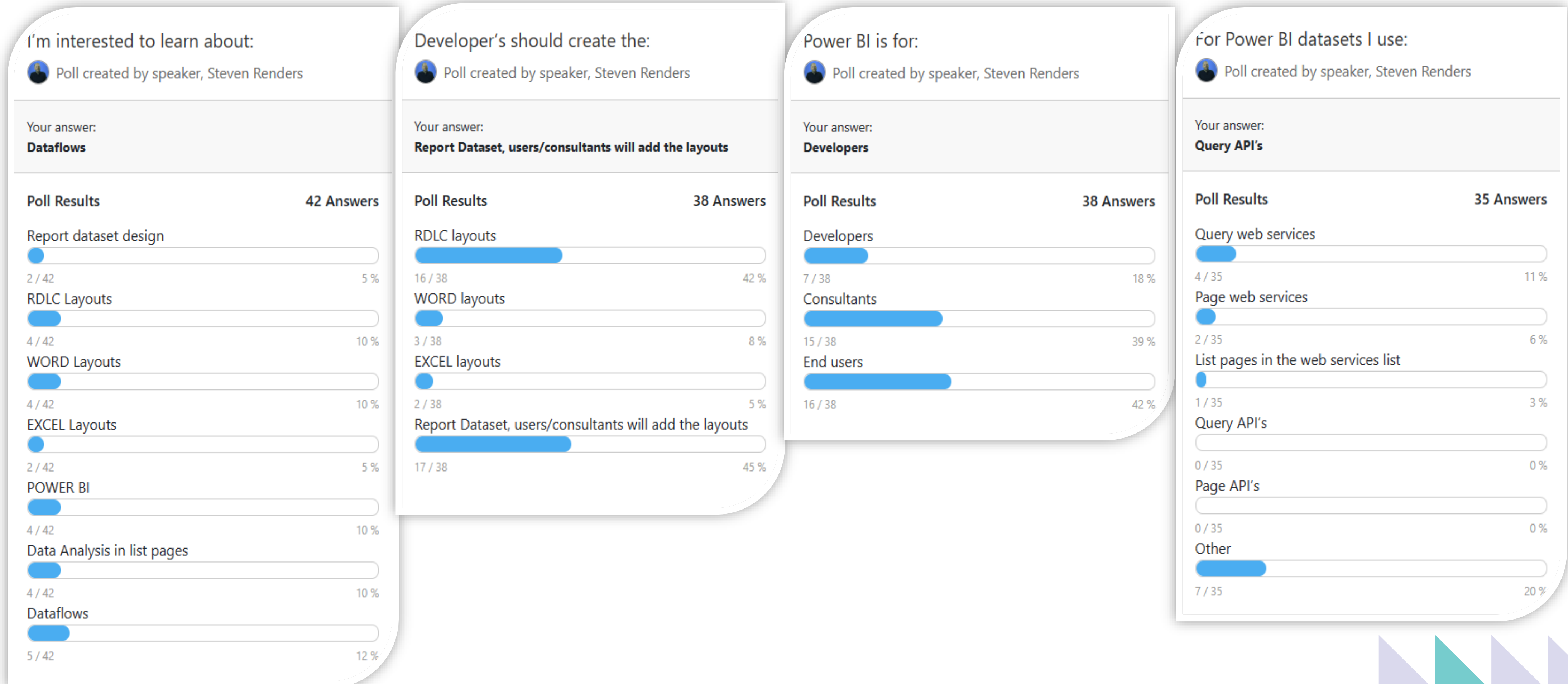
Power Platform	<u>https://learn.microsoft.com/en-us/power-platform/admin/powerapps-flow-licensing-faq</u>
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Other	<u>aka.ms/VeryConfusing...</u>
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Conclusion

- Poll results:



Conclusion

RDLC Layout



Report Type usually based on:



Conclusion

- *When having spent a lot of time implementing Business Central, enter/import the data, implement business logic, it should be fast and easy to get it out in the desired format and learn from it!*

“It is a capital mistake to theorize before one has data.”

Sherlock Holmes



Q&A

Any Questions?





Thank You!

