

Cool New Power BI Features on the Roadmap

Notable Power BI Features in the next 0-6 Month Public Roadmap

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Power BI



Cool New Power BI Features on the Roadmap

Notable Power BI Features being released over the next 0-6 Month Public Roadmap

ABOUT NOW >> [New and planned features for Power BI, 2022 - release wave 1](#)

NEAR FUTURE >> [New and planned features for Power BI, 2022 - release wave 2](#)

Today's Agenda;

1. Datamarts, Datamarts, Datamarts!
2. Power BI in PowerPoint (*the Power couple!*)
3. Quick DAX Measures using Natural Language
4. "*Data in Space!*" – Power BI and Spatial Anchors
5. Metrics (aka "*Goals*")
6. Release Pipeline Enhancements
7. Managed Vnet Data Gateway Service (ie Data Access)
8. Private Link (ie User Access)

Power BI
Data and Reporting
Features

Power BI
Infrastructure
and Administration
Features

Power BI Roadmap

Data and Reporting Features



Power BI

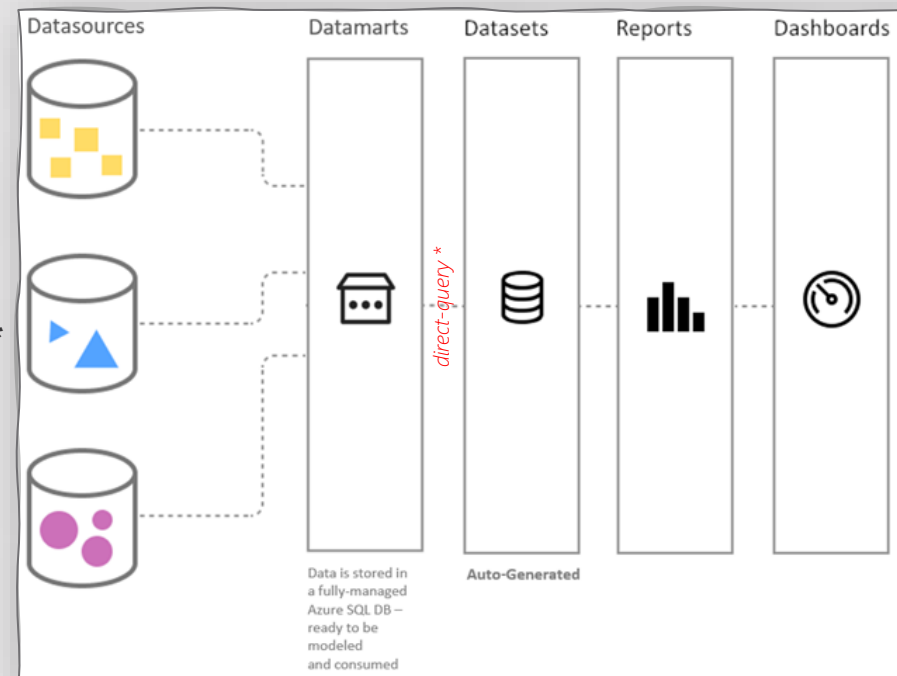


Power BI Datamarts (Public Preview) – on 1x Slide!

<https://docs.microsoft.com/en-us/power-bi/transform-model/datamarts/datamarts-overview>

[Add Data at Scale | Datamart in Power BI - YouTube](#)

- **New self-service “Managed Datamart” capability included with Power BI Premium – enabled via PBI Admin Portal**
- Think of a Datamart as a “*mini data warehouse*” for a **department**. Supports workloads up to **100GB** (+ *future roadmap*)
- Combined **data prep & data model authoring** experience built-into Power BI Service. (not available in PBI Desktop)
- Brings data into an **automatically** managed/tuned **dedicated Azure SQL DB** that’s hosted **behind the PBI Service**
- Ingest data from different sources using **Power Query** (*which builds a special dataflow*) into the **PBI hosted Azure SQL DB**
- The dataflows are setup to populate the Datamart and **refreshed on schedule** (**incremental refresh** supported)
- Can **create relationships/measures** using new model authoring experience, which are stored in the DataMart Dataset
- **Automatically** generates a **DirectQuery (DQ)* dataset** (*points to Datamart*) which is accessed for creating Power BI reports. Dataset is **Read-Only**
- Also provides **T-SQL Endpoint** so users can **query** the underlying **SQL DB hosted inside Power BI** using SQL tools (SQL SSMS, Azure Data Studio, etc)
- **SQL DML** (ie update data) & **SQL DDL** (ie update schema) is **not supported***
- **\$\$\$ Pricing** – Preview is ~Free, GA pricing is TBC. BUT *likely** in **2 parts**;
 (#1) **DataMart “SQL DB”** = Storage, CPU Usage, #Queries executed
 (#2) **Datamart “Dataset”** = uses PBI Premium SKU capacity (CPU, Memory)
- **MS Docs [here](#) compares PBI Datamarts vs Dataflows vs Datasets** and when which is best used and for which process/workload



Datamart in Power BI

Democratize data for every level of your organization



Ingest & Prep

An intuitive low code experience to create a datamart in Power BI with full web authoring



Unified semantic models

An autogenerated self-tuning dataset and an interface that enables defining BI measures, relationships and security rules kept in sync with the database



Integrated governance

Microsoft Purview Information Protection, sensitivity labels, lineage, endorsement, deployment pipelines and end to end monitoring built in



Ease of use

Includes full sharing, ready to build Power BI reports and is discoverable where users work – Data Hub, Excel, Teams



Data sources



Datamart settings

▲ Create Datamarts (Preview)
Unapplied changes

Users in the organization can create Datamarts

☒ Enabled

Apply to:

☐ The entire organization

☒ Specific security groups

☐ Except specific security groups















































































Enabled in Power BI Tenancy
Admin Settings
Enabled for the entire tenancy,
or isolated by group

Lots and Lots of Data Sources
BUT
Not 100% parity yet with
Power BI Desktop

Choose data source

Select a connector or directly drag a file from your computer.

All categories File Database Power Platform Azure Online services Other

 Excel workbook File	 Text/CSV File	 XML File	 JSON File	 Folder File	 PDF File
 Parquet File	 SharePoint folder File	 SQL Server database Database	 Access Database	 Oracle database Database	 IBM Db2 database Database
 MySQL database Database	 PostgreSQL database Database	 Sybase database Database	 Teradata database Database	 SAP HANA database Database	 SAP BW Application Server Database
 SAP BW Message Server Database	 Snowflake Database	 Google BigQuery Database	 Amazon Redshift Database	 Impala Database	 Vertica Database
 Dataflows Power Platform	 Power BI dataflows Power Platform	 Dataverse Power Platform	 Common Data Service (Lega... Power Platform	 Azure SQL database Azure	 Azure Synapse Analytics (SQ... Azure
 Azure Analysis Services Azure	 Azure Blobs Azure	 Azure Tables Azure	 Azure Data Explorer (Kusto) Azure	 Azure Data Lake Storage Ge... Azure	 Azure HDInsight Spark Azure
 SharePoint Online list Online services	 Microsoft Exchange Online Online services	 Salesforce objects Online services	 Salesforce reports Online services	 Google Analytics Online services	 Adobe Analytics Online services
 Web API Other	 Web page Other	 SharePoint list Other	 OData Other	 Active Directory Other	 Spark Other
 Odbc Other	 Action BETA Database	 Amazon Athena Database	 AtScale cubes Database	 BI Connector Database	 Data Virtuality LDW Database
 Denodo Database	 Dremio Cloud BETA Database	 Dremio Software Database	 Exasol Database	 Indexima Database	 InterSystems IRIS BETA Database
 Jethro BETA Database	 Kyligence Database	 Linkar PICK Style / MultiValu... Database	 MariaDB Database	 MarkLogic Database	 TIBCO(R) Data Virtualization Database
 Azure Cosmos DB v2 BETA Azure	 Azure Cost Management Azure	 Azure Databricks Azure	 Azure Synapse Analytics wo... Azure	 Azure Time Series Insights... Azure	 Asana BETA Online services
 Assemble Views Online services	 Automation Anywhere Online services	 Automy Data Analytics BETA Online services	 Databricks BETA Online services	 Digital Construction Works I... Online services	 Dynamics 365 Business Cent... Online services

Home Transform Add column View Help

Get data Enter data Options Manage parameters Refresh Properties Advanced editor Manage Choose columns Remove columns Keep rows Remove rows Filter rows Sort Split column Group by Data type: Whole number Use first row as headers Replace values Merge queries Append queries Combine files Combine

Queries [7]

- DimCustomer
- DimDate
- DimGeography
- DimProduct
- DimProductCategory
- DimProductSubcategory
- FactInternetSales

Table.RemoveColumns("#Navigation 1", {"NameStyle"})

	CustomerKey	GeographyKey	CustomerAlternateKey	Title	FirstName	MiddleName	LastName	BirthDate	MaritalStatus	Suffix	Gender	EmailAddress
1	11000	26	AW00011000	null	Jon	V	Yang	06/10/1971	M	null	M	jon24@adventure-w
2	11001	37	AW00011001	null	Eugene	L	Huang	10/05/1976	S	null	M	eugene10@adventu
3	11002	31	AW00011002	null	Ruben	null	Torres	09/02/1971	M	null	M	ruben35@adventure
4	11003	11	AW00011003	null	Christy	null	Zhu	14/08/1973	S	null	F	christy12@adventu
5	11004	19	AW00011004	null	Elizabeth	null	Johnson	05/08/1979	S	null	F	elizabeth5@adventu
6	11005	22	AW00011005	null	Julio	null	Ruiz					julio1@adventure-w
7	11006	8	AW00011006	null	Janet	G	Alvarez					@adventure-v
8	11007	40	AW00011007	null	Marco	null	Mehta					
9	11008	32	AW00011008	null	Rob	null	Verhoff					
10	11009	25	AW00011009	null	Shannon	C	Carlson					shannon38@advent
11	11010	22	AW00011010	null	Jacquelyn	C	Suarez					jacquelyn20@adven
12	11011	22	AW00011011	null	Curtis	null	Lu					curtis@adventure-v
13	11012	611	AW00011012	null	Lauren	M	Walker					lauren41@adventure
14	11013	543	AW00011013	null	Ian	M	Jenkins					ian@adventure-w
15	11014	634	AW00011014	null	Sydney	null	Bennett					sydney23@adventu
16	11015	301	AW00011015	null	Chloe	null	Young	26/08/1984	S	null	F	chloe23@adventure
17	11016	329	AW00011016	null	Wyatt	L	Hill	25/10/1984	M	null	M	wyatt32@adventure
18	11017	39	AW00011017	null	Shannon	null	Wang	24/12/1949	S	null	F	shannon1@adventure
19	11018	32	AW00011018	null	Clarence	D	Rai	06/10/1955	S	null	M	clarence32@adventu
20	11019	52	AW00011019	null	Luke	L	Lal	04/09/1983	S	null	M	luke18@adventure-v
21	11020	53	AW00011020	null	Jordan	C	King	19/03/1984	S	null	M	jordan73@adventu
22	11021	536	AW00011021	null	Destiny	null	Wilson	02/03/1984	S	null	F	destiny7@adventure
23	11022	609	AW00011022	null	Ethan	G	Zhang	10/04/1984	M	null	M	ethan20@adventure
24	11023	298	AW00011023	null	Seth	M	Edwards	09/04/1984	M	null	M	seth46@adventure-v
25	11024	311	AW00011024	null	Russell	null	Xie	16/03/1984	M	null	M	russell7@adventure-
26	11025	24	AW00011025	null	Alejandro	null	Beck	22/06/1951	M	null	M	alejandro45@adven
27	11026	4	AW00011026	null	Harold	null	Sai	01/10/1951	S	null	M	harold3@adventure-
28	11027	40	AW00011027	null	Jessie	R	Zhao	05/06/1952	M	null	M	jessie16@adventure
29	11028	17	AW00011028	null	Jill	null	Jimenez	09/10/1951	M	null	F	jill13@adventure-wc
30	11029	32	AW00011029	null	Jimmy	L	Moreno	19/06/1952	M	null	M	jimmy9@adventure-
31	11030	28	AW00011030	null	Bethany	G	Yuan	18/02/1958	M	null	F	bethany10@adventu
32	11031	8	AW00011031	null	Theresa	G	Ramos	18/02/1953	M	null	F	theresa13@adventu
33	11032	35	AW00011032	null	Denise	null	Stone	08/12/1952	M	null	F	denise10@adventu
34												

Can edit and transform just like in Power BI Desktop. This sits in a special PBI Dataflow between Data Source and DataMart SQL DB

Query settings

Properties

Name

DimCustomer

Applied steps

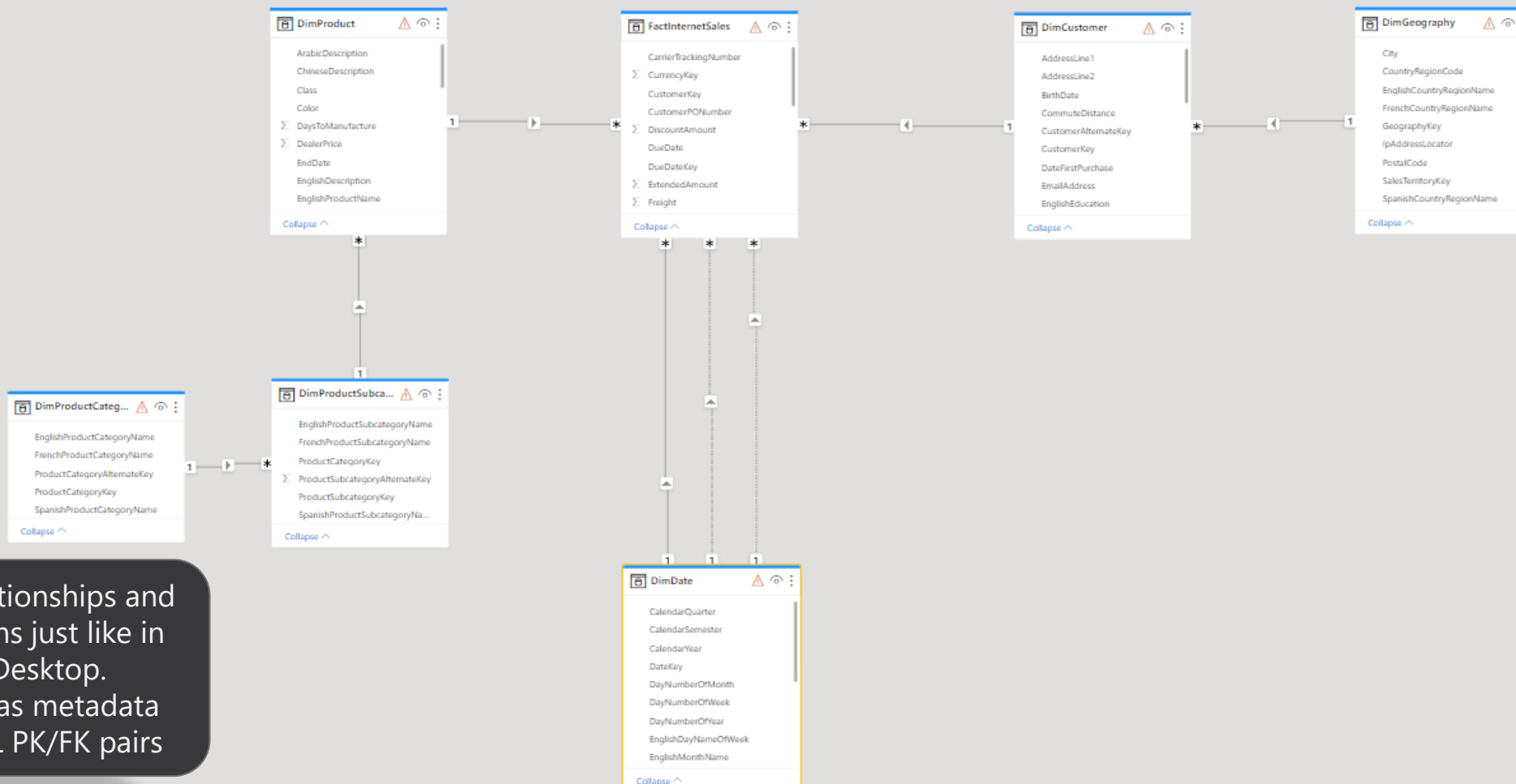
- Source
- Navigation 1
- Removed c...

Objects

Search

Tables

- > DimCustomer
- > DimDate
- > DimGeography
- > DimProduct
- > DimProductCategory
- > DimProductSubcategory
- > FactInternetSales



Can define relationships and table definitions just like in Power BI Desktop. This is stored as metadata not actual SQL PK/FK pairs

Microsoft | Power BI | rotesmer demos

rotesmer_aw_datamart |

Search

Home

Get data | Transform data | Enter data | New query | **New measure** | Manage roles | View as | New report

Objects

Search

FactInternetSales
CarrierTrackingN...
Σ CurrencyKey
CustomerKey
CustomerPONum...
Σ DiscountAmount
DueDate
DueDateKey
Σ ExtendedAmount
Σ Freight
OrderDate
Σ OrderDateKey
Σ OrderQuantity
ProductKey
Σ ProductStandardC...
Σ PromotionKey
Σ RevisionNumber
Σ SalesAmount
Σ SalesOrderLineNu...
SalesOrderNumber
Σ SalesTerritoryKey
ShipDate
Σ ShipDateKey
Σ TaxAmt
Σ TotalProductCost
UnitPrice

Measure = AVERAGE(FactInternetSales[ExtendedAmount])

FactInternetSales[ExtendedAmount]

FactInternetSales[Freight]

FactInternetSales[OrderDate]

FactInternetSales[OrderDateKey]

FactInternetSales[OrderQuantity]

FactInternetSales[ProductKey]

FactInternetSales[ProductStandardCost]

FactInternetSales[PromotionKey]

FactInternetSales[RevisionNumber]

FactInternetSales[SalesAmount]

FactInternetSales[SalesOrderLineNumber]

FactInternetSales[SalesOrderNumber]

FactInternetSales[SalesTerritoryKey]

Can create DAX "Measures" however these are deployed into the Datamart Dataset, NOT the Datamart SQL DB, (ie cannot be SQL "queried")

123 CustomerKey

123 GeographyKey

ABC CustomerAlternateKey

ABC Title

ABC FirstName

ABC MiddleName

ABC LastName

BirthDate

ABC MaritalStatus

ABC Suffix

ABC Gender

ABC EmailAddress

1.2 YearlyIncome

123 TotalChildren

123 Num...

Can create DAX "Measures" however these are deployed into the Datamart Dataset, NOT the Datamart SQL DB, (ie cannot be SQL "queried")

Microsoft | Power BI | rotesmer demos | rotesmer_aw_datamart |

Home Transform Add column View Help

Data view Schema view **Diagram view** Go to column

Preview Layout Columns

Objects

Tables

- DimCustomer
- DimDate
- DimGeography
- DimProduct
- DimProductCategory
- DimProductSubcateg...
- FactInternetSales

FactInternetSales

SQL Server datab... Navigation Group by Sort Filter rows

DimProduct

SQL Server datab... Navigation

Merge

Merge Expand

2

Completed (174 s) Columns: 5 Rows: 98

Visual Query 1

	ProductKey	Cnt	Amt	EnglishProductName	Color
1	214	2230	78027.7	Sport-100 Helmet, Red	Red
2	217	2085	72954.15	Sport-100 Helmet, Black	Black
3	222	2125	74353.75	Sport-100 Helmet, Blue	Blue
4	225	2190	19688.1	AWC Logo Cap	Multi
5	228	429	21445.71	Long-Sleeve Logo Jersey, S	Multi
6	231	442	22095.58	Long-Sleeve Logo Jersey, M	Multi
7	234	452	22595.48	Long-Sleeve Logo Jersey, L	Multi
8	237	413	20645.87	Long-Sleeve Logo Jersey, XL	Multi
9	310	336	1202298.72	Road-150 Red, 62	Red
10	311	281	1005493.87	Road-150 Red, 44	Red
11	312	337	1205876.99	Road-150 Red, 48	Red
12	313	302	1080637.54	Road-150 Red, 52	Red
13	314	295	1055589.65	Road-150 Red, 56	Red
14	352	174	360427.01...	Mountain-200 Silver, 38	Silver
15	353	422	979035.78	Mountain-200 Silver, 38	Silver

Can create Read-Only SQL queries against the Datamart SQL DB via a visual "data flow" type editor.

Home

+ New query

▶ Run

Objects

Search

Tables

> DimCustomer

> DimDate

> DimGeography

> DimProduct

> DimProductCategory

> DimProductSubcategory

> FactInternetSales

```

1 select fis.ProductKey, count(*) as RowCnt, Sum(fis.SalesAmount) as Amt, dp.EnglishProductName, dp.Color
2 from FactInternetSales as fis
3     inner join DimProduct as dp
4         on fis.ProductKey = dp.ProductKey
5 where dp.Color = 'Red'
6 group by fis.ProductKey, dp.EnglishProductName, dp.Color
7 order by 1
8

```

Open in Excel

	ProductKey	RowCnt	Amt	EnglishProductName	Color
1	214	2230	78027.7	Sport-100 Helmet, Red	Red
2	310	336	1202298.72	Road-150 Red, 62	Red
3	311	281	1005493.87	Road-150 Red, 44	Red
4	312	337	1205876.99	Road-150 Red, 48	Red
5	313	302	1080637.54	Road-150 Red, 52	Red
6	314	295	1055589.65	Road-150 Red, 56	Red
7	320	19	13282.8658	Road-650 Red, 58	Red
8	321	55	43064.45	Road-650 Red, 58	Red
9	322	17	11884.6694	Road-650 Red, 60	Red
10	323	36	28187.64	Road-650 Red, 60	Red
11	324	16	11185.5712	Road-650 Red, 62	Red
12	325	59	46196.41	Road-650 Red, 62	Red
13	326	22	15380.1604	Road-650 Red, 44	Red
14	327	50	39149.5	Road-650 Red, 44	Red
15	328	26	18176.5532	Road-650 Red, 48	Red
16	329	62	48545.38	Road-650 Red, 48	Red
17	330	20	13981.964	Road-650 Red, 52	Red
18	331	41	32102.59	Road-650 Red, 52	Red

Completed (0.45 s) Columns: 5 Rows: 23

SQL Query 2

Can create Read-Only SQL queries against the Datamart SQL DB via a standard SQL Query type editor. (No SQL DDL or DML)

SQLQuery3.sql - x6eps4xrq2xudenlfv6naeo3i4-jn5hpkbgtwhe7iww4gqrlz2cq.msit-datamart.pbidedicated.windows.net.db_powerbiprodnam_20220718_07123977_1672 (rotesmer@microsoft.com (53)) - Micro

File Edit View Query Project Tools Window Help

db_powerbiprodnam_2022(

Execute

Object Explorer

Connect

x6eps4xrq2xudenlfv6naeo3i4-jn5hpkbgtwhe7iww4gqrlz2

Databases

System Databases

db_powerbiprodnam_20220718_07123977_1672

Database Diagrams

Tables

Views

System Views

metadata.relationshipColumns

metadata.relationships

model.DimCustomer

model.DimDate

model.DimGeography

model.DimProduct

model.DimProductCategory

model.DimProductSubcategory

model.FactInternetSales

External Resources

Synonyms

Programmability

Query Store

Extended Events

Storage

Security

Integration Services Catalogs

SQLQuery3.sql - x6...microsoft.com (53))*

select fis.ProductKey, count(*) as RowCnt, Sum(fis.SalesAmount) as Amt, dp.EnglishProductName, dp.Color

from FactInternetSales as fis

inner join DimProduct as dp

on fis.ProductKey = dp.ProductKey

where dp.Color = 'Red'

group by fis.ProductKey, dp.EnglishProductName, dp.Color

order by 1

100 %

Results Messages

	ProductKey	RowCnt	Amt	EnglishProductName	Color
1	214	2230	78027.70000000006	Sport-100 Helmet, Red	Red
2	310	336	1202298.72	Road-150 Red, 62	Red
3	311	281	1005493.87	Road-150 Red, 44	Red
4	312	337	1205876.99	Road-150 Red, 48	Red
5	313	302	1080637.54	Road-150 Red, 52	Red
6	314	295	1055589.65	Road-150 Red, 56	Red
7	320	19	13282.8658	Road-650 Red, 58	Red
8	321	55	43064.45	Road-650 Red, 58	Red
9	322	17	11884.6694	Road-650 Red, 60	Red
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13	326	22	15380.1604	Road-650 Red, 44	Red
14	327	50	39149.5	Road-650 Red, 44	Red
15	328	26	18176.5532	Road-650 Red, 48	Red
16	329	62	48545.38	Road-650 Red, 48	Red
17	330	20	13981.964	Road-650 Red, 52	Red
18	331	41	32102.59	Road-650 Red, 52	Red
19	368	144	351842.4	Road-250 Red, 44	Red
20	369	162	395822.6999999999	Road-250 Red, 48	Red
21	370	133	324965.55	Road-250 Red, 52	Red
22	371	172	375228.75	Road-250 Red, 58	Red
23	372	134	327408.9	Road-250 Red, 58	Red

Can connect to the Datamart SQL DB via a standard SQL Query Tools, such as SSMS, or Azure Data Studio

Microsoft | Power BI | rotesmer demos

General Alerts Subscriptions Dashboards Datasets Workbooks Reports Dataflows **Datamarts (Preview)** App

rotesmer_aw_datamart

Settings for rotesmer_aw_datamart

- ▶ Datamart Description
- ▶ Gateway Connection
- ▶ Server settings
- ▶ Data source credentials
 - 🕒 Edit credentials [Show in lineage view](#)
- ▶ Scheduled refresh
 - Keep your data up to date
 - ☐ Off
 - Refresh frequency
 - Daily
 - Time zone
 - (UTC+10:00) Canberra, Melbourne, Sydney
 - Time
 -
 - [Add another time](#)
- Send refresh failure notifications to
 - ☒ Datamart owner
 -

Apply Discard

DataMart Datasets use automatic SSO to connect to backend Datamart SQL DB
ie no Editing of Credentials

Scheduled refresh will by default use the DataMart owner/author to connect to Data Sources, or whatever Source auth was setup in the connection

Lineage View

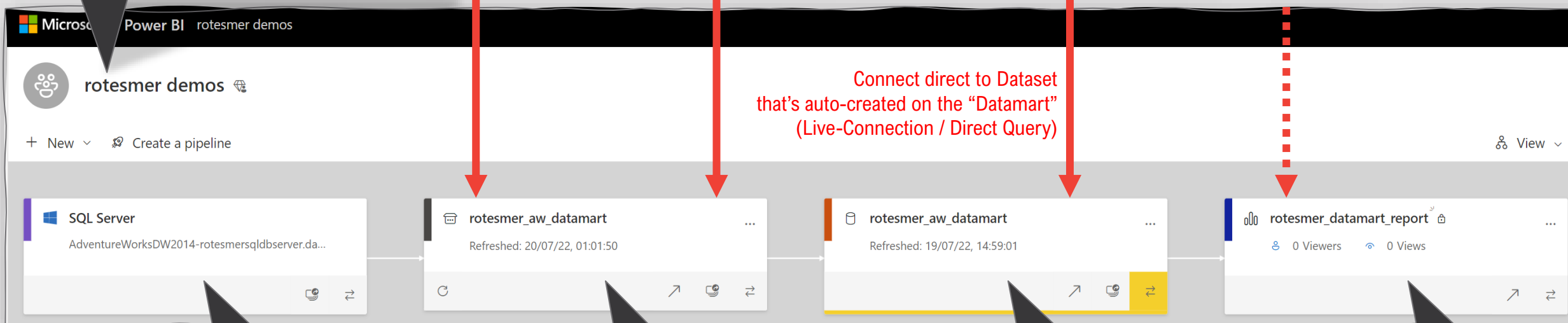
Can observe the end to end Power BI Lineage to see the various component connections

Connect direct to Tables that reside in Datamart "SQL DB"

Connect direct to Tables that reside in Datamart "SQL DB" (Import / Direct Query)

Connect direct to Dataset that's auto-created on the "Datamart" (Live-Connection / Direct Query)

Deploy report



Data Source

Standalone SQL Server
Deployed in Azure

Power BI Datamart

Built on Azure SQL DB
Hosted in Power BI Service
Handles high interactive
concurrent user workloads

Power BI Dataset

Direct Query (DQ)* Dataset
that is automatically built by
default on the Datamart

Power BI Report

Built on Power BI Dataset

Power BI DataMarts

Demo

Power BI

https://msit.powerbi.com/groups/c0d5efce-6f24-43a1-9491-fed520a4f61c/list

Microsoft

Power BI

Priya_Northwind_Demo_Workspace

Search

Priya_Northwind_Demo_Workspace

Create app

+ New

Create a pipeline

View

Filters

Settings

Access

Search

AllContentDatasets + dataflowsDatamarts (Preview)

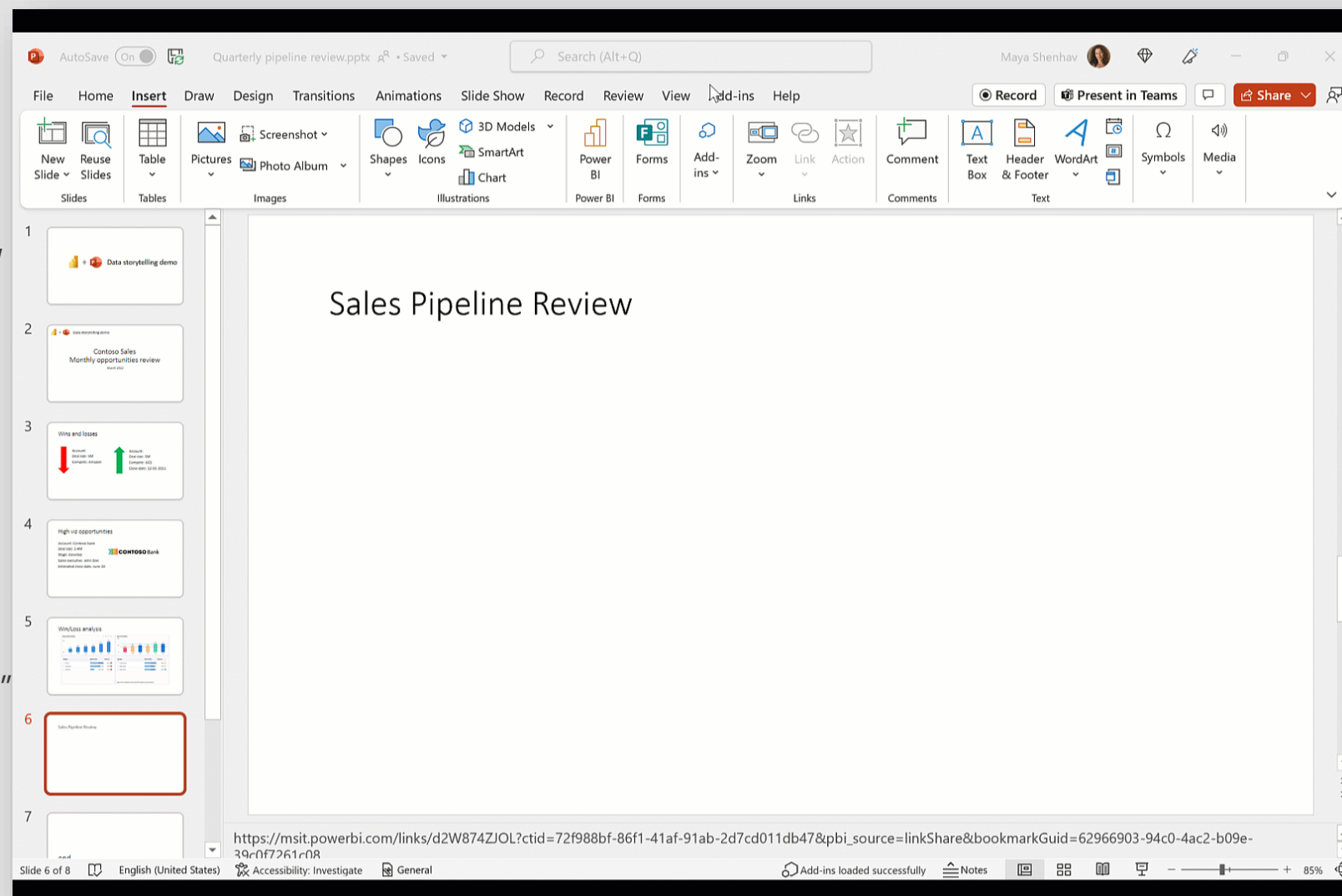
Name	Type	Owner	Refreshed	Next refresh	Endorsement	Sensitivity
Northwind Datamart	Datamart	Priya Sathy	—	N/A	—	—



Power BI in Power Point (Public Preview)

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

- **PowerPoint** makes use of static content and images vs **Power BI** which is all about interactive visualisations and data story telling
- **Power BI & Powerpoint...**
...like nuts & gum = together at last!
- New PowerPoint **Power BI Add-In**
- Report is **completely live**, inc filters
- Any set **PBI Filter selections** are saved in PP and kept on file reopen
- When you share the PP deck to others they **must have** PBI access & report access to view content.
- Can do this sharing via the
"Power BI : [Share > PowerPoint] option"

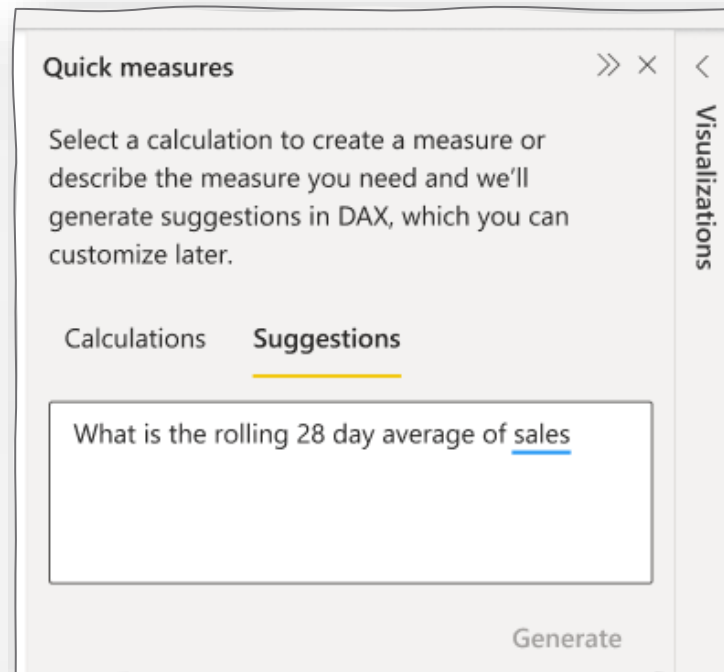




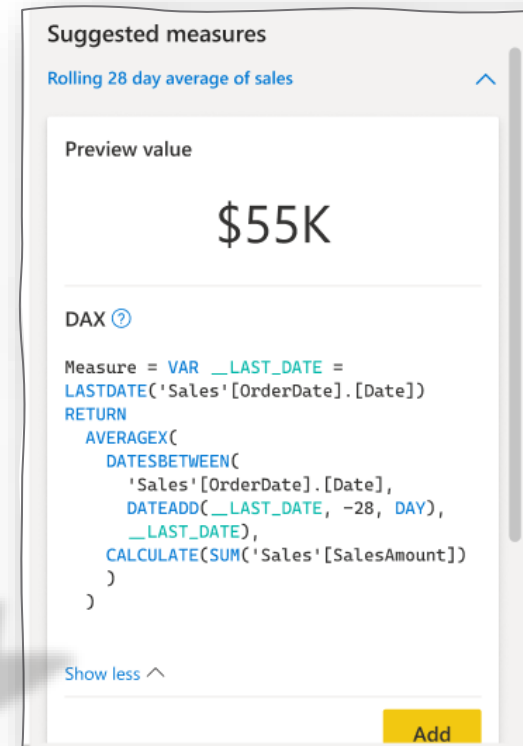
Quick measures with natural language (Private Preview)

[Quick measures using natural language - Power Platform Release Plan | Microsoft Docs](#)

- Previously to **create measures** you had to know / write **DAX**. *This can be complicated!*
- Now you can use "natural language" statements to define **DAX** calculations (*PBI Desktop only*)
- Explain the calculation you need, and Power BI **creates several suggested DAX measures**
- English language statements can include; simple mathematical operations, time-based, Top-N, calculations, if conditions, text concatenation, *+more!*



DAX generation is performed via a Microsoft Language ML Model that's hosted in Azure Datacentres (ie not in Desktop Tool)



Power BI Spatial Anchoring (Public Preview)

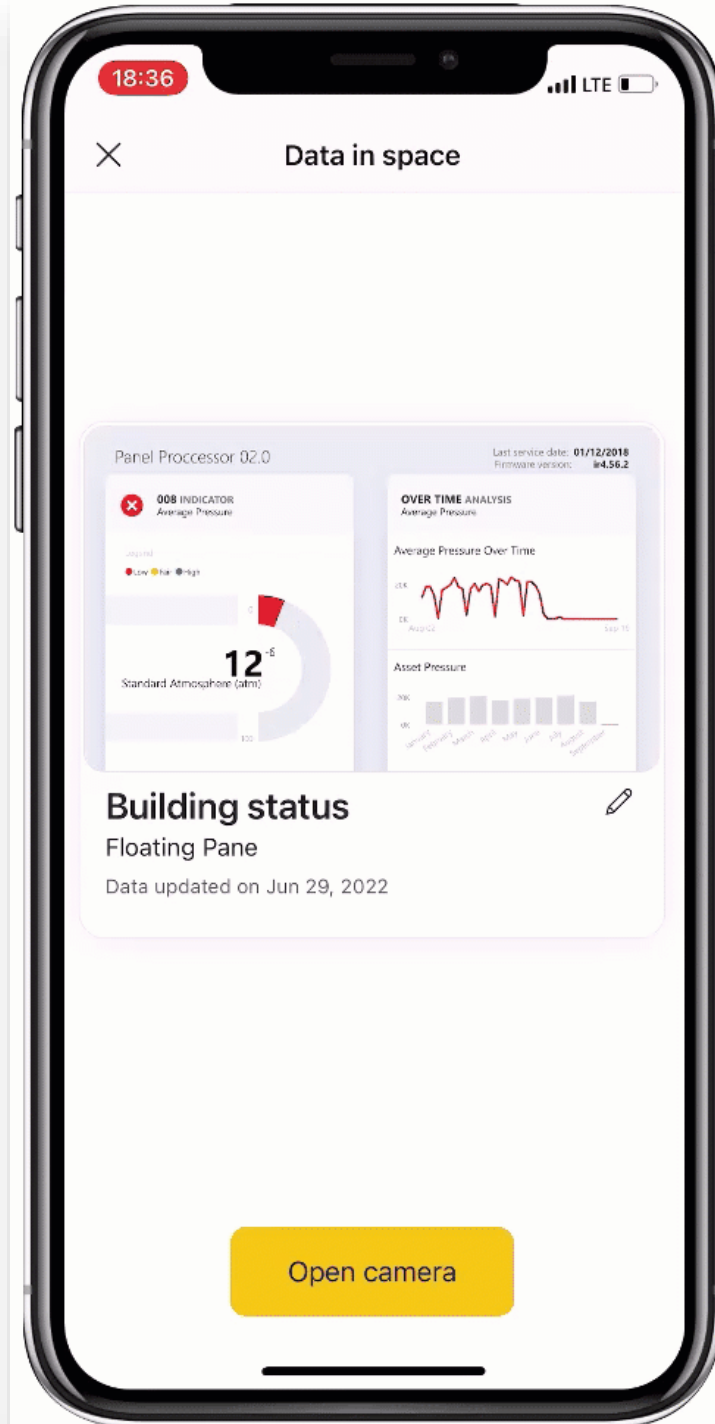
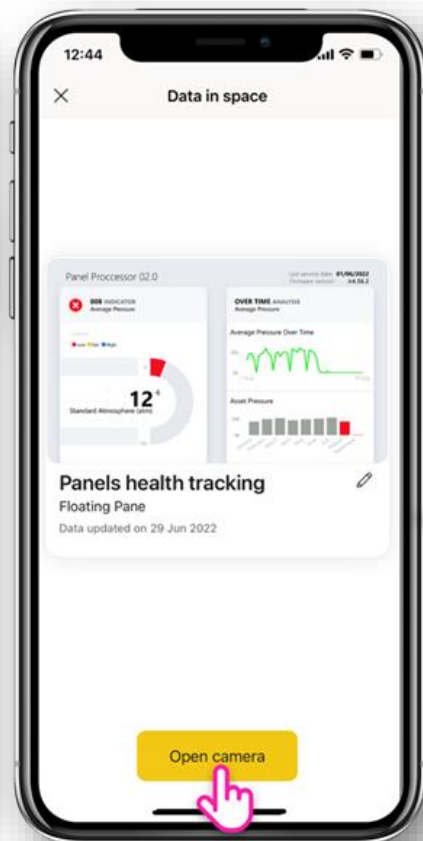
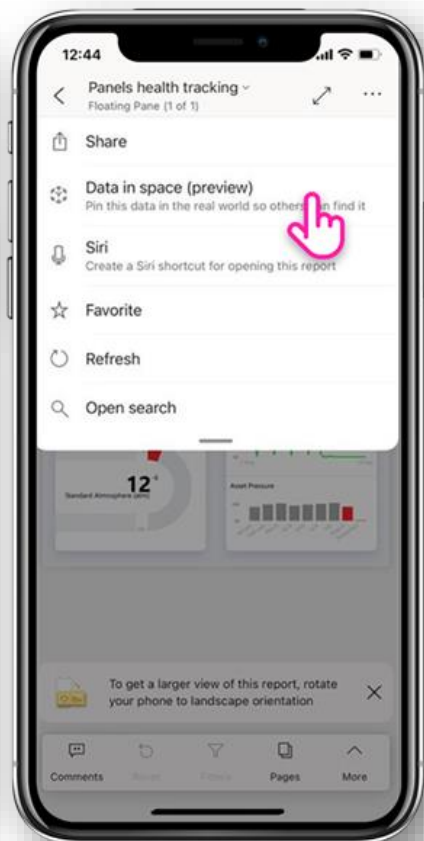
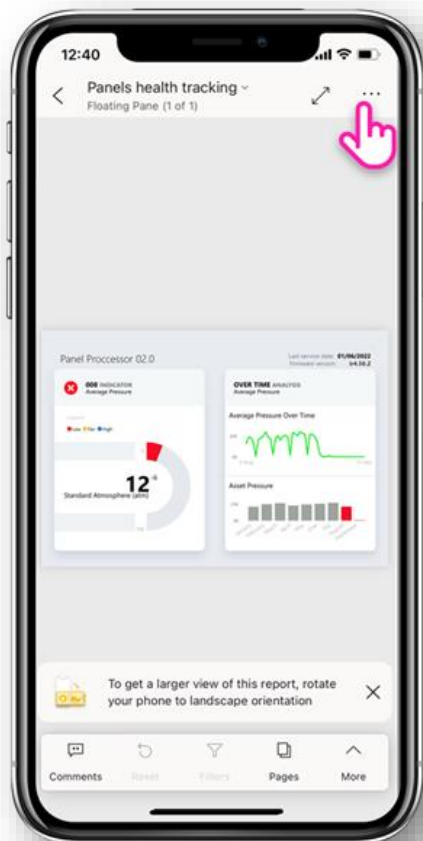
[Power BI – Data in Space](#)

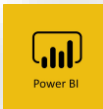
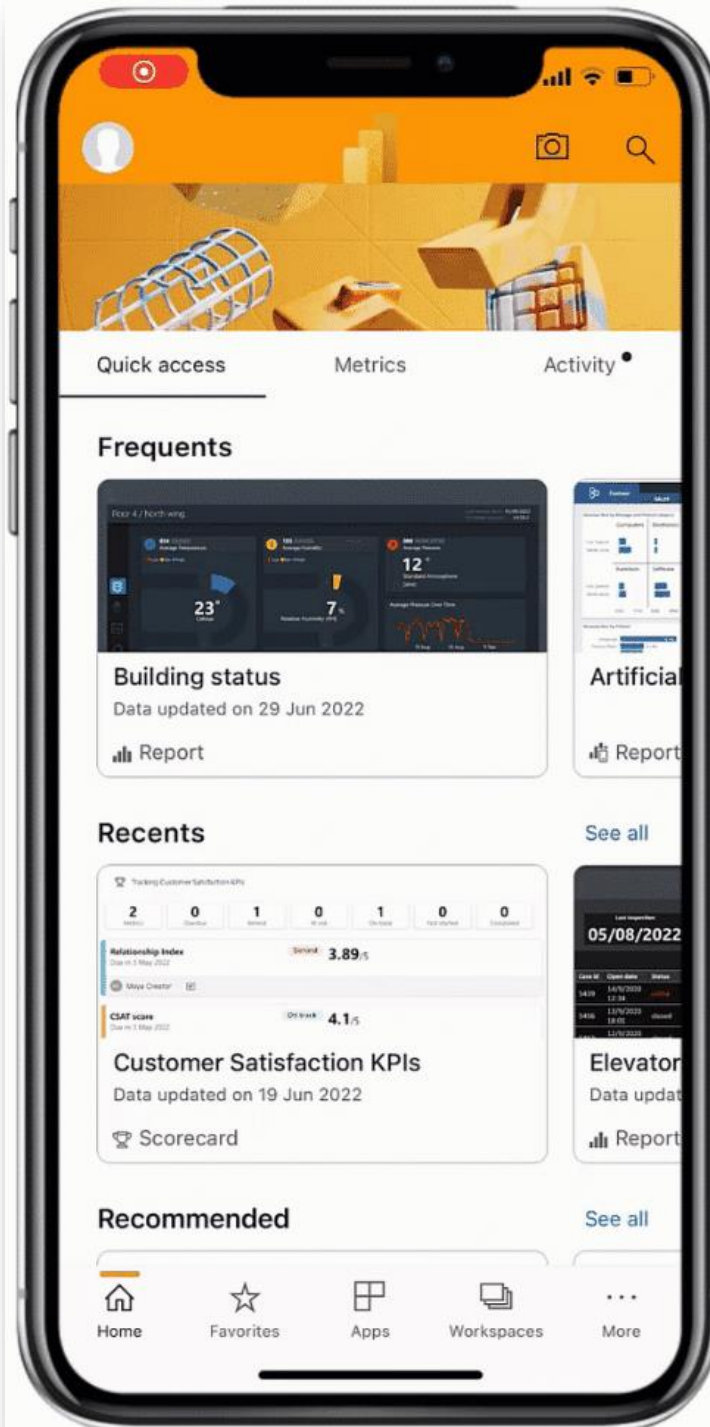


In a digital world, data is produced in vast quantities by IoT sensors embedded in almost any environment

With Data in space the frontline worker will be able to augment Power BI reports in physical space, as close as possible to the objects who generate them

Reports add a data layer on top of the object, helping get a better understanding of the data in spatial context.





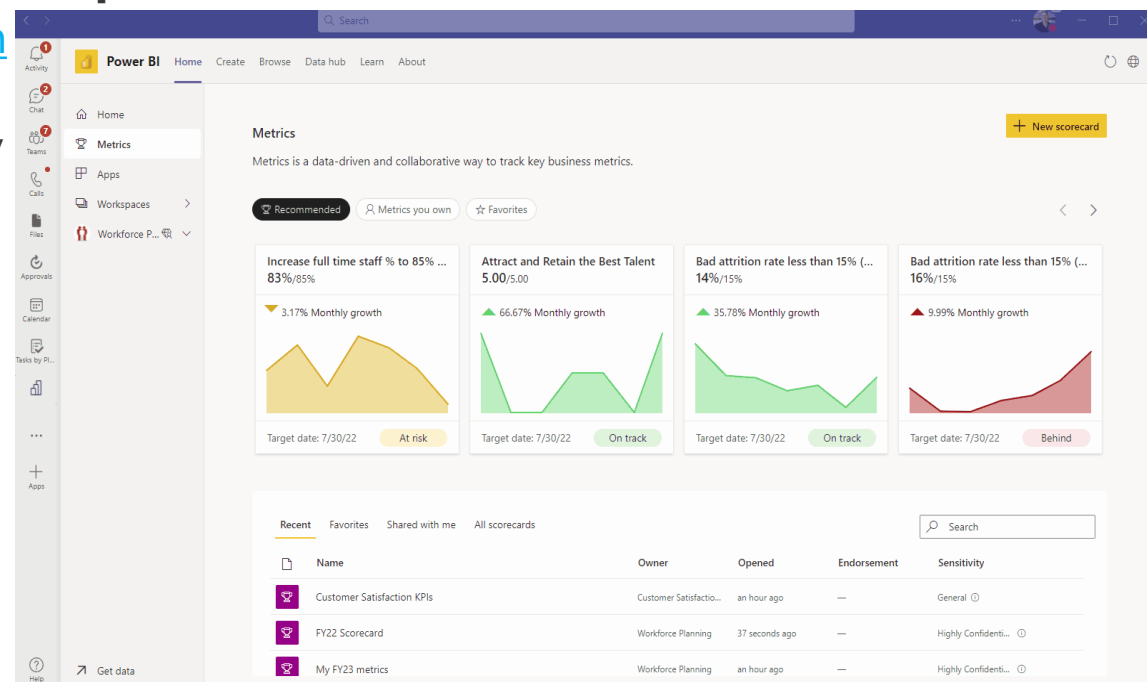
Power BI Metrics (aka “Goals”) (GA + *more to come*)

[Create Power BI metrics to track your performance - Power Platform Release Plan | Microsoft Docs](#)
[Goals in Power BI is becoming ‘metrics’ and is moving to GA! | Microsoft Power BI Blog](#)

- Define, curate, and track **business metrics** and **KPIs** to help drive better decision making.
- Metrics capabilities are **integrated into Power BI** – so measures can come from virtually any data source
- [Viva Goals](#) also offers “*objectives and key results*” (OKR) capabilities to help align teams to strategic priorities. There will be integration from Viva Goals into Power BI Metrics (ie PBI as the data source)

+ ***more to come...*** additional new Metrics features are still in preview!

- **Cascading Goals** - [Cascading goals - Power BI Release Plan](#)
- Ex. define a hierarchy based on the data model (ie geographical or product hierarchy) and automatically cascade goals across levels
- **Goal Rollups** - [Goals rollups - Power BI Release Plan](#)
- Ex. Provides flexibility to specify how data is aggregated (ie % complete, weighted avg, sum, etc) from child goals to parent goals
- **Linked Goals Across Scorecards**
- Ex. link a goal from one scorecard to appear on other scorecards. Provides flexibility for defining and aligning scorecards across the org



Power BI Roadmap

Administration and Development Features




Power BI



Power BI Deployment Pipelines (Public Preview)

<https://docs.microsoft.com/en-gb/power-platform-release-plan/2022wave1/power-bi/deployment-pipelines-azure-devops-extension>

- Power BI provides an **Azure DevOps extension** that enables creators to integrate **deployment pipeline operations** into their Azure Pipelines
- Developers can **manage the lifecycle of their content** with tools used to manage other projects
- The **new Power BI Azure DevOps extension** allows a faster and easier integration between existing Azure Pipelines and Power BI deployment pipelines.
- This extension **supports pipeline features** such as;
 1. Create a new pipeline
 2. Assign a workspace to a pipeline stage
 3. Add a user to a deployment pipeline
 4. Add a user to a workspace
 5. Deploy content to a deployment pipeline
 6. Remove a workspace from a deployment pipeline
 7. Delete a pipeline
- Azure DevOps Marketplace – **Extension Download** [here](#)
- This new feature will go **GA in Sep 2022**



Power BI automation tools (Preview)
 Microsoft | 1,750 installs | ★★★★★ (0) | Free
 Automate release management tasks related to Power BI deployment pipelines
[Get it free](#)

[Overview](#)
[Q & A](#)
[Rating & Review](#)

The Power BI [deployment pipelines](#) tool enables BI teams to build an efficient and reusable release process for their Power BI content. You can leverage the tasks in this Azure DevOps extension to integrate Power BI into your organization's automation process. Here are a few examples of what can be done using the extension:

- Manage Power BI pipelines from start to finish, including creating a pipeline, assigning a workspace to any stage, deploying and deleting the pipeline.
- Assign users to a pipeline.
- Assign users to a workspace.
- Deploy all/selected items in a Power BI pipeline to the next stage.

Learn more about using these tasks [here](#).

To get started with deployment pipelines, learn more [here](#).

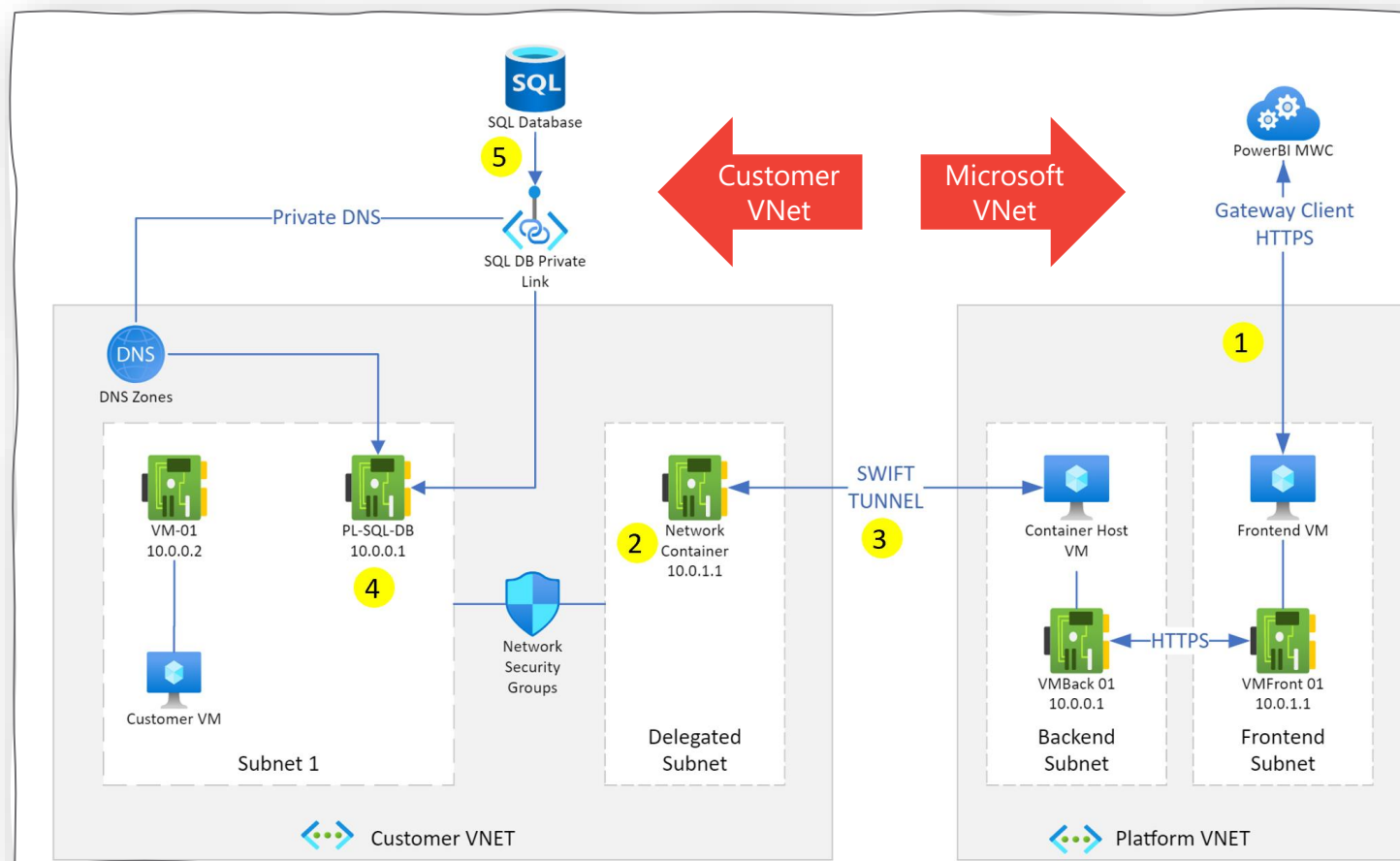
Release Notes

Version	Remarks
1.0.2	Public preview release.

Power BI Managed Vnet Gateway (Public Preview)

<https://docs.microsoft.com/en-us/data-integration/vnet/overview>

- **Managed VNet data gateway** connects Microsoft Cloud to Azure data sources in a VNet **without needing an on-premises data gateway**.
- **Customer provides a Vnet** into which the managed vnet data gateway will be deployed
- **Requires 5-7 IPs** available in the Vnet – and you can add more VNet gateways later to the same Vnet
- **Premium-only feature** (Premium and PPU)
- **Not all data sources are supported** – see list [here](#)
- The data gateway is **physically in the same region** as your Azure Vnet – (sits in a delegated subnet)
- Every VNet data gateway = **1 CPU core + 6 GB RAM**.
- Vnet data gateways also **support HA** – see [here](#)
- Cross tenant connectivity is **not supported** (ie vnet in tenant-A >> powerbi in tenant-B)
- All traffic uses **Azure backbone**, including Swift tunnel.



Power BI Private Endpoint / Private Link (GA)

<https://docs.microsoft.com/en-us/power-bi/enterprise/service-security-private-links>

- Private endpoints ensure Power BI **user connections** transit via Microsoft private network backbone when they access resources in the Power BI service.
- Data travels the **Microsoft private network backbone** instead of going across the **Internet**.
- This means that your **users** must route from your **internal vnet** to the Power BI Service (powerbi.com)
- Private endpoints **do not guarantee** that traffic from Power BI to your **data sources** is routed privately *
- There are several **considerations** and **limitations** – see [here](#) for details

Advanced networking

Azure Private Link

Enabled for the entire organization

Increase security by allowing people to use a Private Link to access your Power BI tenant. Someone will need to finish the set-up process in Azure. If that's not you, grant permission to the right person or group by entering their email. [Learn more](#) | [Set-up instructions](#)

Enabled

Apply

Cancel

Block Public Internet Access

Disabled for the entire organization

For extra security, block access to your Power BI tenant via the public internet. This means people who don't have access to the Private Link won't be able to get in. Keep in mind, turning this on could take 10 to 20 minutes to take effect.

Disabled

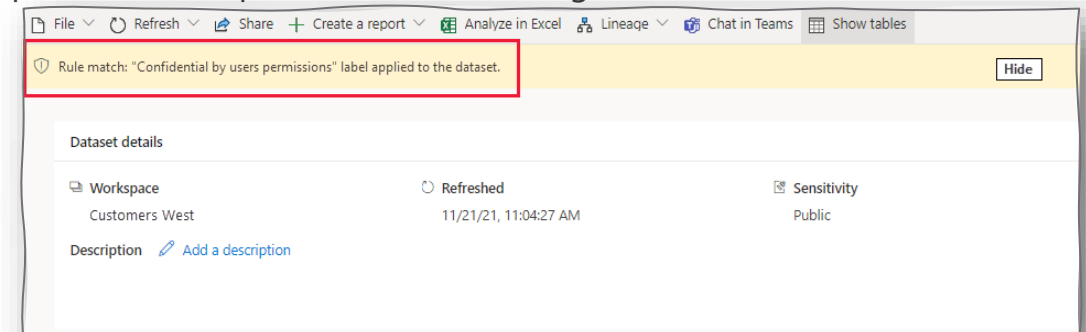
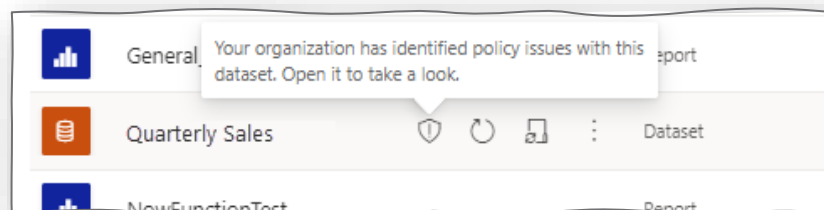
Apply

Cancel

Power BI Data Loss Prevention (DLP) (Preview)

<https://docs.microsoft.com/en-us/power-platform-release-plan/2022wave1/power-bi/data-protection-enhancements--highlighting-centralized-power-bi-dlp-policies>

- DLP in Power BI already supports many features, and also integration into [MS Data Protection](#)
 - Sensitivity Labels -- Enforce governance policies even when Power BI content is exported to Excel, PowerPoint, PDF
 - Defender for Cloud Apps -- protect your Power BI reports, data, and services from unintended leaks or breaches
 - Central Security Team -- use Microsoft 365 data loss prevention policies to enforce the organization's DLP policies on Power BI
- **Today:** Control/protect sensitive data by leveraging Microsoft's information & threat protection
 - When a PowerBI data set matches the criteria in a DLP policy, an alert that explains the nature of the sensitive content can be triggered.
 - This alert is also registered in the data loss prevention Alerts tab in the Microsoft compliance portal for monitoring
 - Email alerts can also be sent to administrators and specified users.
- **Future:** This feature expands DLP capabilities for Power BI – and adds additional conditions / actions
 - Support auto-classification of data - makes it possible to define conditions (ie classified as sensitive)
 - Define a DLP policy in the data loss prevention section of the Microsoft Purview compliance portal -- specify;
 - (a) sensitivity labels / info types to detect, and
 - (b) actions that will happen when the policy detects a dataset that contains sensitive data
 - DLP policies only apply to Premium Gen2 workspaces, and are not supported for sample datasets, streaming datasets, or DQ datasets



If alerts are enabled in the policy, an alert will be recorded on the data loss prevention **Alerts** tab in the compliance center, and (if configured) an email will be sent to administrators and/or specified users.

Microsoft 365 compliance

Home

Compliance Manager

Data classification

Data connectors

Alerts

Reports

Policies

Permissions

Trials

Solutions

Catalog

Audit

Content search

Communication compliance

Data loss prevention

eDiscovery

Information governance

Information protection

Insider risk management

Data loss prevention

Remove from navigation

Overview

Policies

Alerts

Endpoint DLP settings

Activity explorer

Export

Refresh

94 items

Customize columns

Filter

Reset

Filters

Time range: 11/8/2021-12/8/2021

User: Any

Alert status: Any

Alert severity: Any

Alert name	Severity	Status	Time detected
DLP-Protected Sensitive data validation	Medium	Active	Nov 25, 2021 6:43 AM
DLP-Public data validation	Low	Active	Nov 25, 2021 6:41 AM
DLP-Flight Numbers	Low	Active	Nov 24, 2021 5:15 PM
DLP-Floating Point Numbers	Low	Active	Nov 24, 2021 5:15 PM
DLP-Protected Sensitive data validation	Medium	Active	Nov 24, 2021 4:12 PM
DLP-Email control	Medium	Active	Nov 24, 2021 4:04 PM
DLP-Protected Sensitive data validation	Medium	Active	Nov 24, 2021 4:04 PM
DLP-Control Credit cards	Medium	Active	Nov 24, 2021 3:46 PM
DLP-Control Credit cards	Medium	Active	Nov 24, 2021 3:45 PM
DLP-Public data validation	Low	Active	Nov 24, 2021 2:12 PM

end of session