

Unleashing Power BI's Hidden Potentials with Advanced Tips & Tricks

Solutions for Success Education Series

Solutions for **Success**



POINT ALLIANCE

Agenda

- About Point Alliance
- Fabric Components
- OneLake and Lakehouse
- Copilot (Newish)
- Direct Lake (New)
- Write Back Functionality
- Obtaining new Visuals in Power BI



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Point Alliance

- Microsoft Solutions Partner w/Security & Modern Work Designations
- Microsoft Gold Partner with 11 Competencies (legacy)
- 100% Microsoft Certified Team
- pointalliance.com/companyprofile



Components of Fabric



Microsoft Fabric Components



Power BI workspaces



Data
Warehouse



Data
Engineering



Data Factory



Data
Science



Real-time
Analytics



DirectLake
models



Data
Activator



Traditional
models



OneLake

Traditional
sources

OneLake and Lakehouses



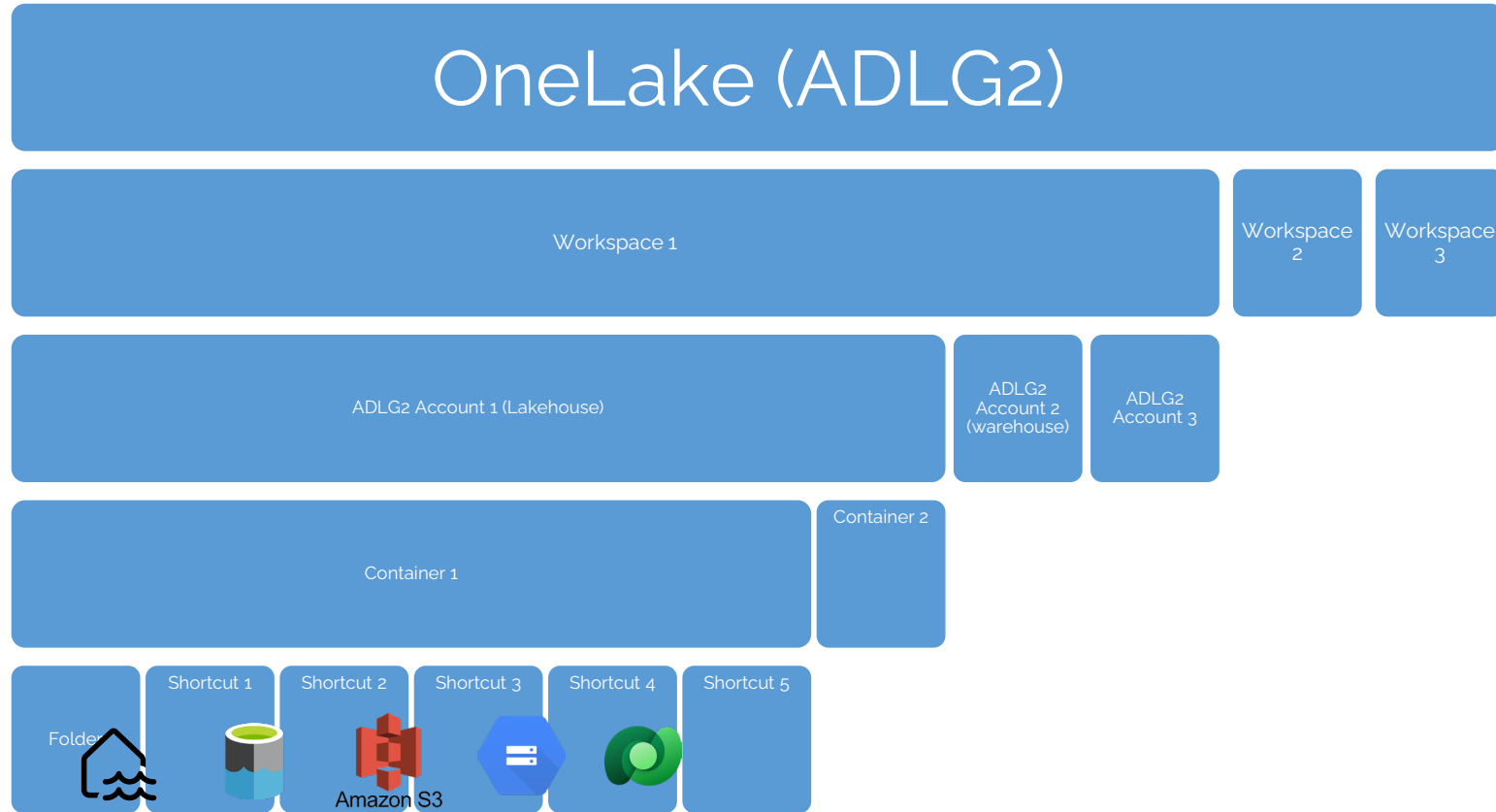
OneLake

One
endpoint
per tenant

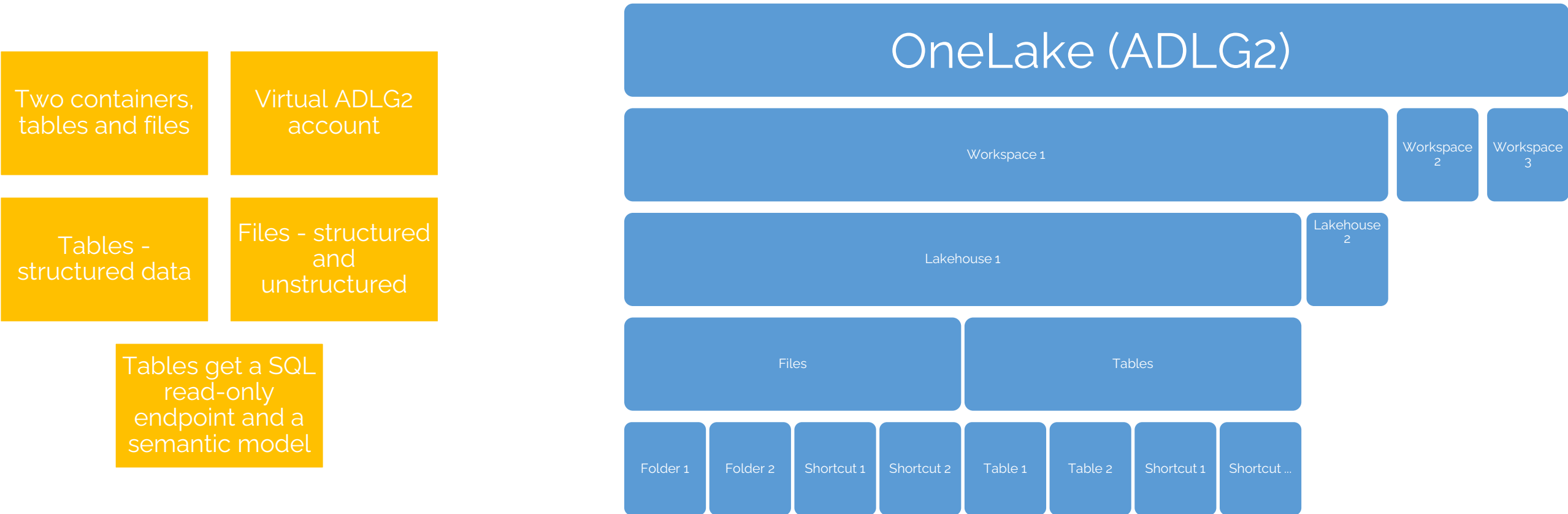
Virtual
ADLG2
account

Includes a
workspace

Shortcuts to
external
data



Lakehouse



Endpoint: <https://onelake.dfs.fabric.microsoft.com/Workspace 1 ID/Lakehouse ID/Files/FolderName/SubfolderName>

Endpoint: <https://onelake.dfs.fabric.microsoft.com/Workspace 1 ID/Lakehouse ID/Tables/TableName>

Delta Parquet

Parquet files for
storage
efficiency

Delta tables for
reliable atomic
transactions

Vertipaq write
compression

Transactional
DB performance
for blob storage

Blob storage
costs

Non-proprietary

One click
conversion

The screenshot displays the Microsoft Fabric Delta Tables Lakehouse interface. The top navigation bar includes the 'Delta_Tables_Lakehouse' dropdown, a search bar, and a 'Fabric Trial: 40 days left' notification. The left sidebar contains navigation icons for Home, Create, Browse, OneLake data hub, Apps, Metrics, Monitoring hub, and Deployment pipelines. The main content area is titled 'Home' and features a toolbar with 'Get data', 'New semantic model', and 'Open notebook' options. The 'Explorer' pane on the left shows the hierarchy: Delta_Tables_Lakehouse > Tables > iotdevicedata. The 'iotdevicedata (file view)' pane on the right displays a table with columns: Name, Date modified, Type, and Size. The table lists three items: a folder named '_delta_log' (3 items) and two Parquet files, each 1 KB in size.

Name ↓	Date modified	Type	Size
_delta_log	1/15/2024 12:13...	Folder	3 items
part-00000-e2adad39-3a7...	1/15/2024 12:15...	PARQUET	1 KB
part-00000-01332b4e-331...	1/15/2024 12:13...	PARQUET	1 KB

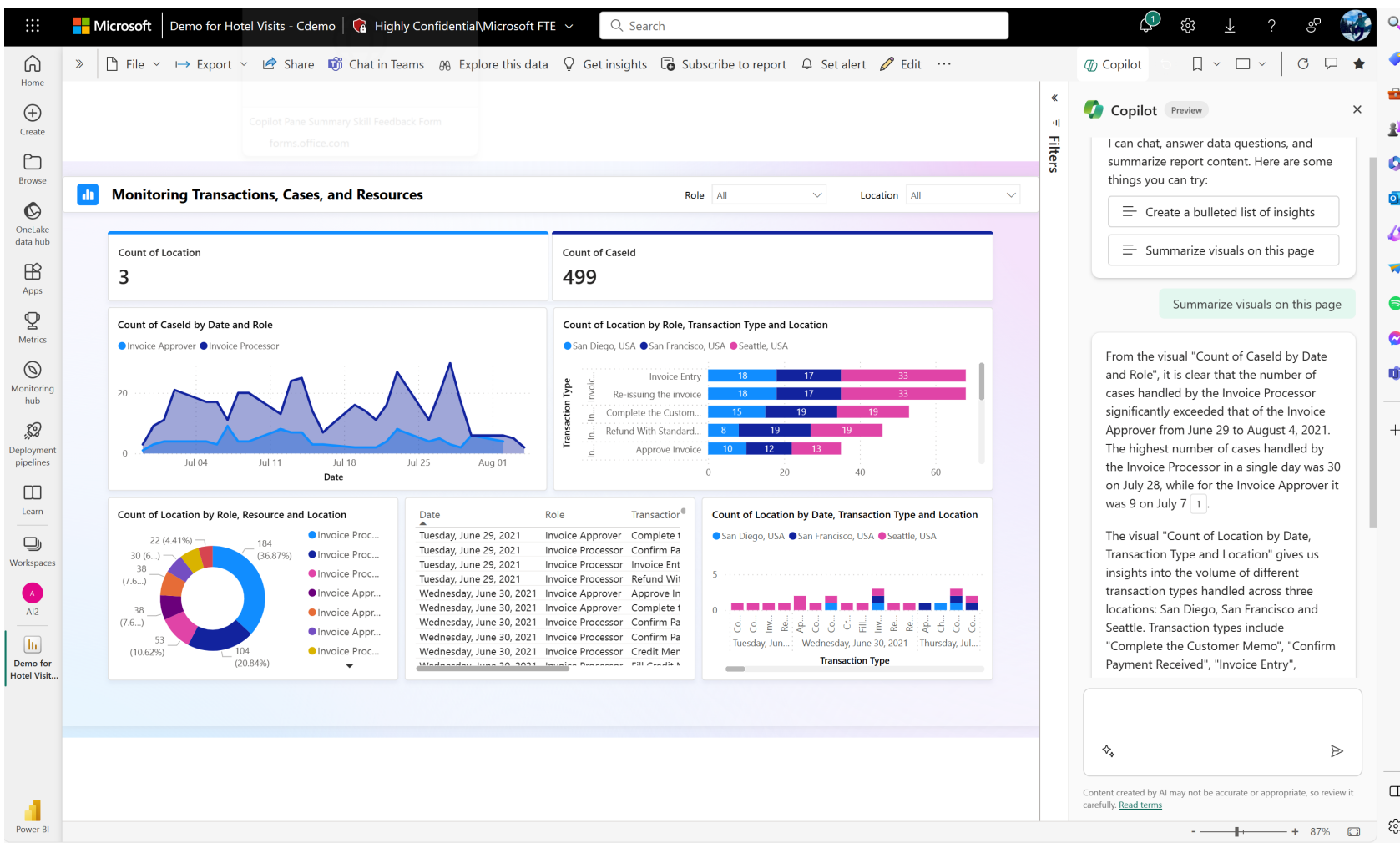
Copilot in Fabric



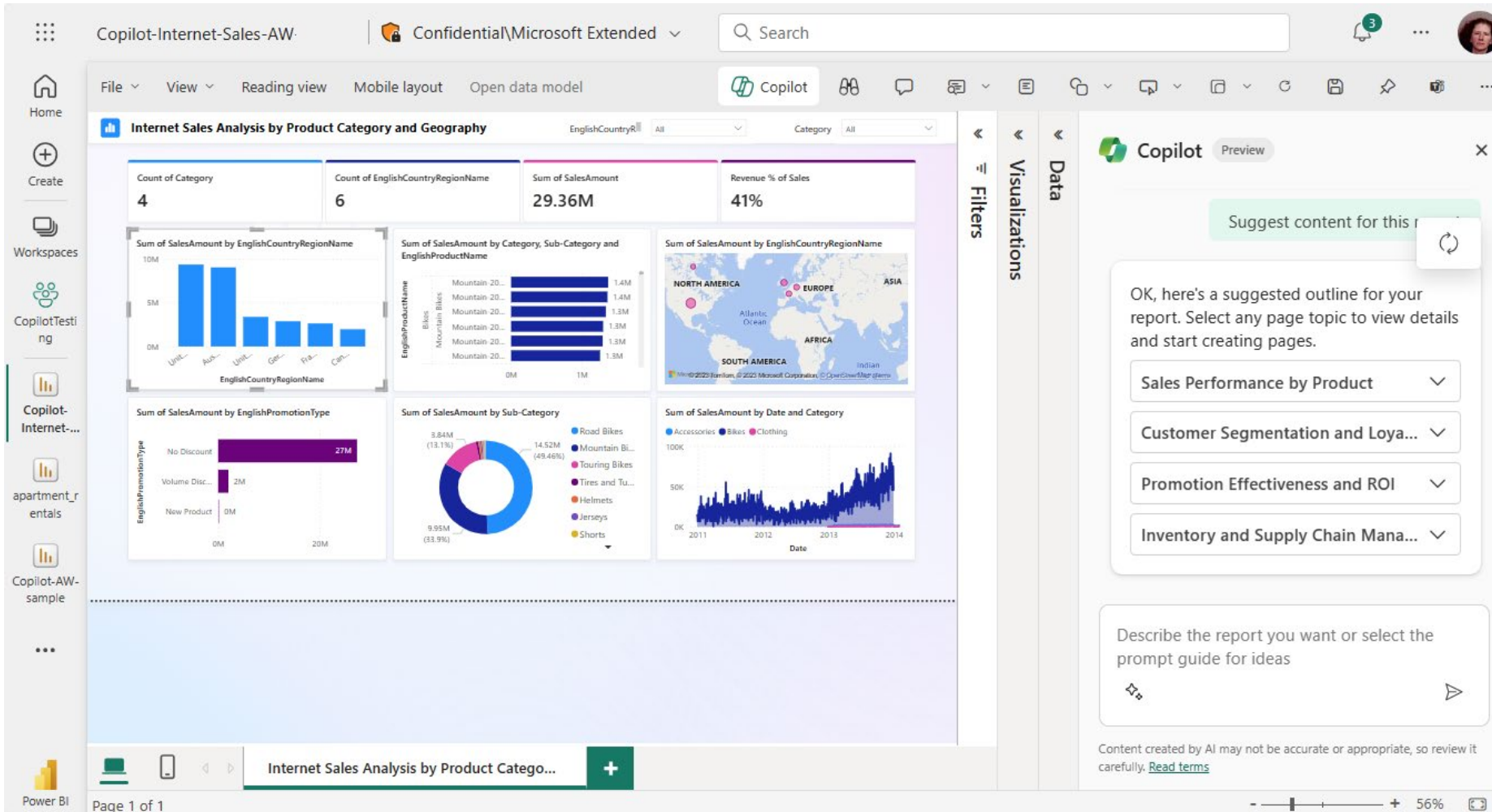
Copilot in Fabric

- Automatically create, format and lay out visuals based on natural language
- Narrative with Copilot visual to add generative AI summaries
- Copilot for DAX query
- Currently F64 capacity is required
- Cost Announcement
 - Copilot in Fabric more accessible and cost-effective.
Microsoft **announces a 50% price reduction for Copilot in Fabric, effective November 1st, 2024.**

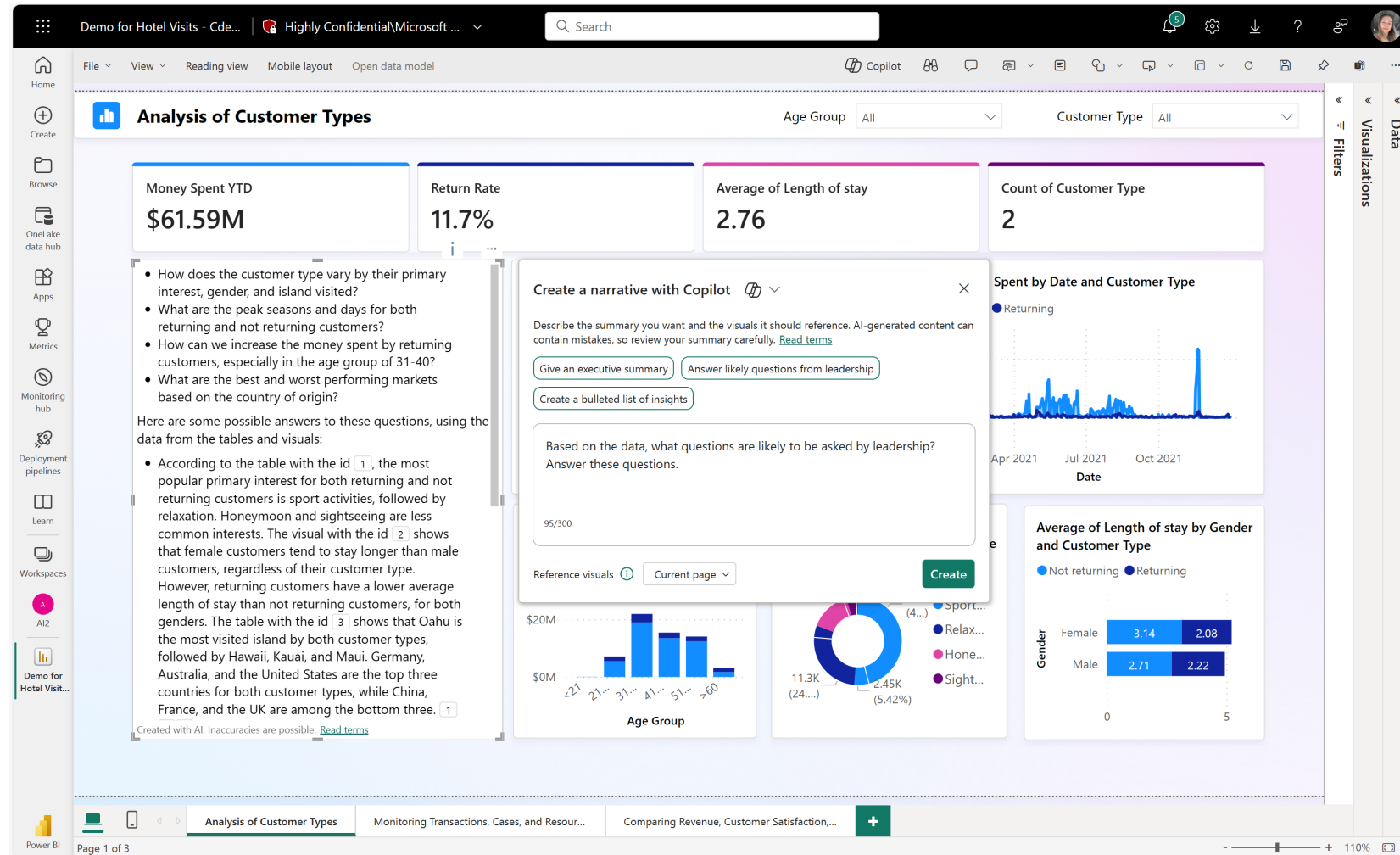
Example: Generate a summary of your report in the Copilot pane



Example: Suggest content for a report



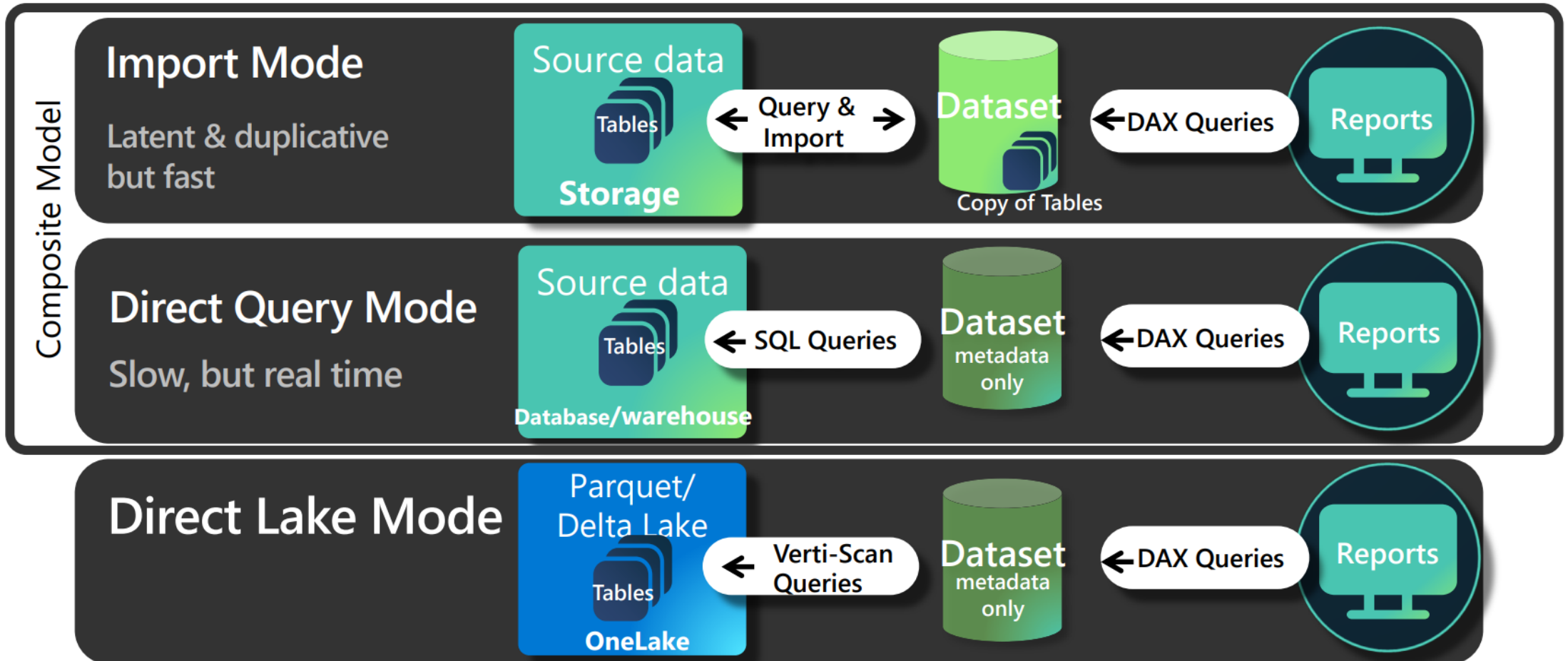
Example: Create a summary visual on the report itself



Direct Lake



Direct Lake



Power BI Storage Mode Scenarios

Import Mode

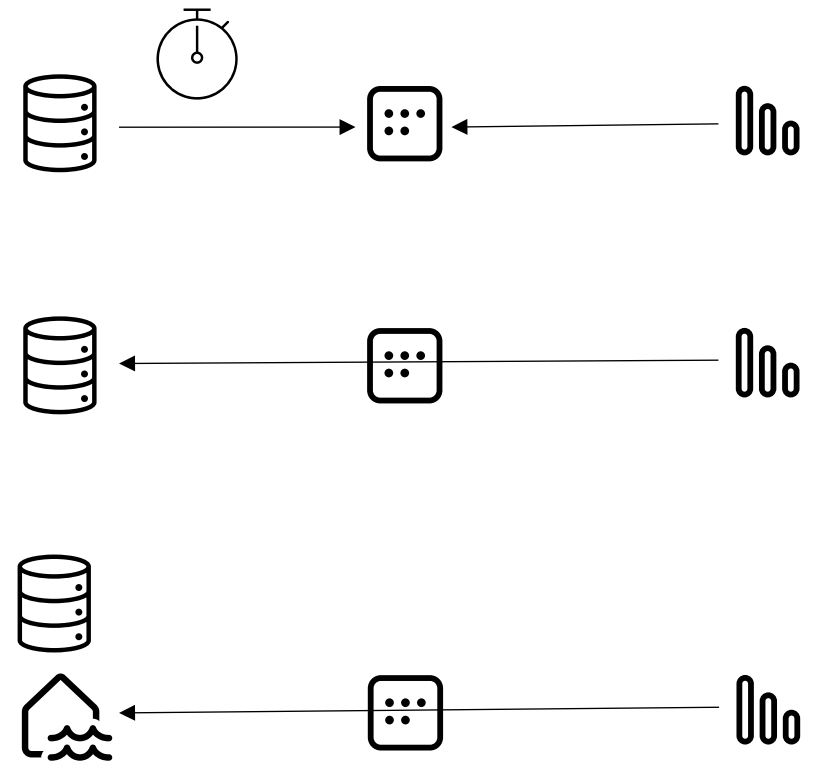
Local data
High performance
High latency

DirectQuery

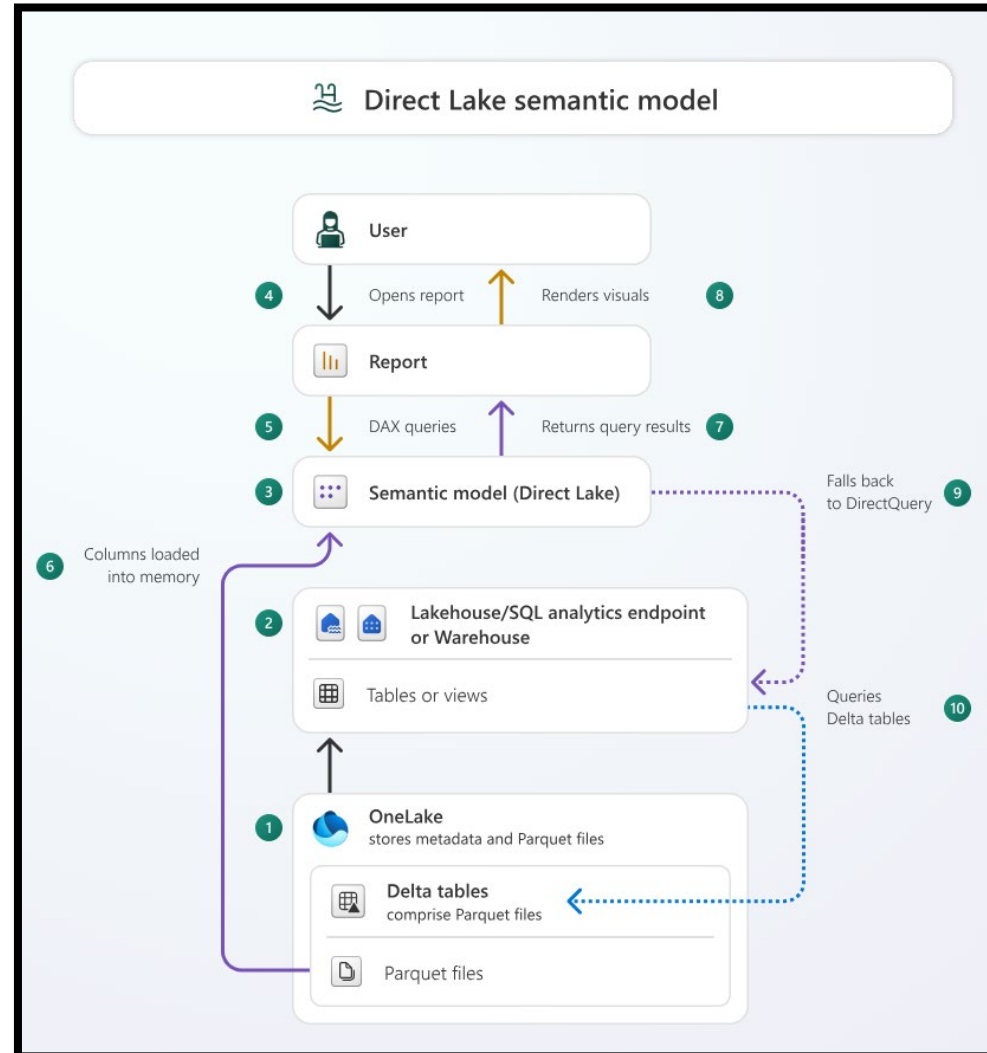
Remote data
Low performance
Low latency

Direct Lake

Direct connect to DeltaParquet data
High performance
Low latency



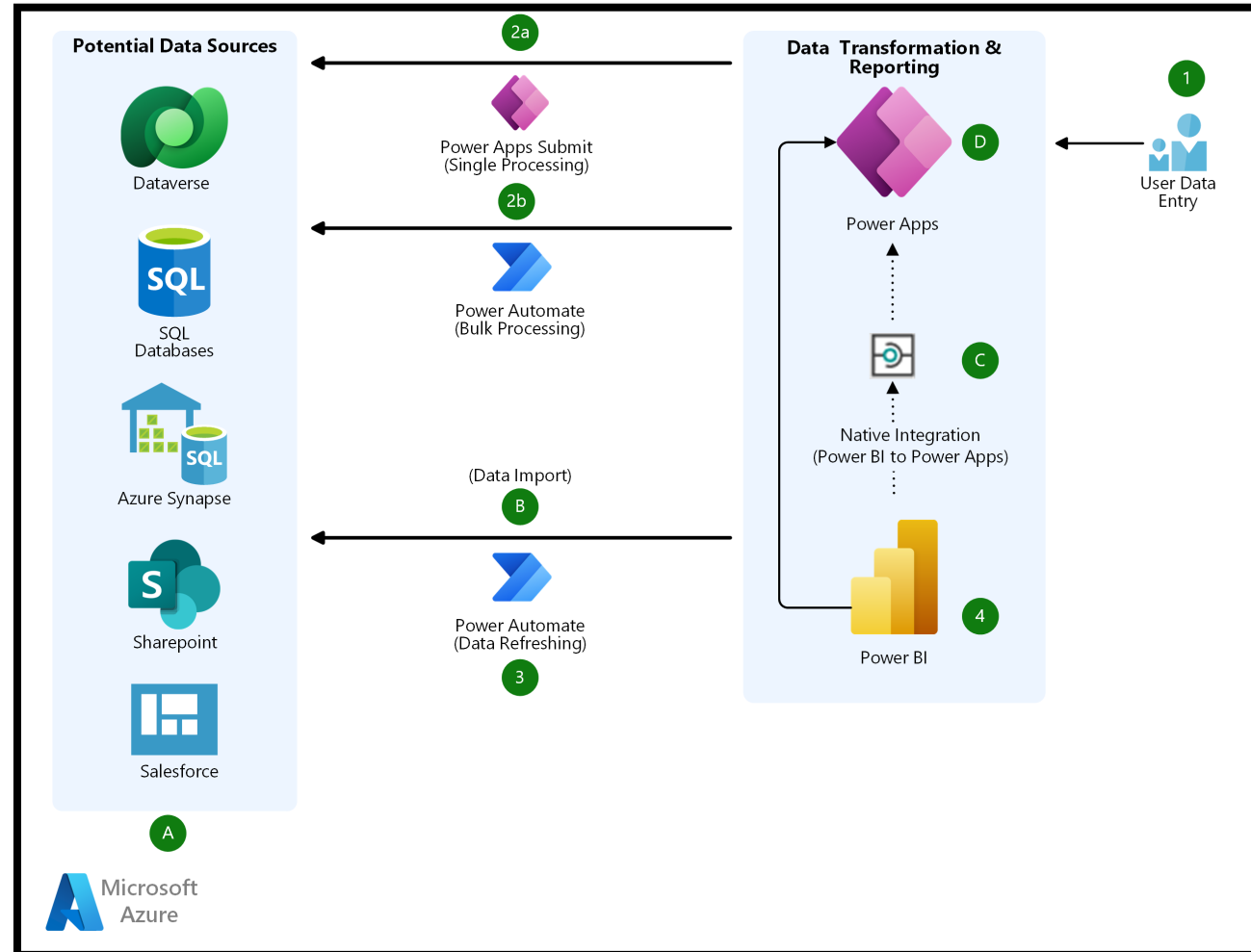
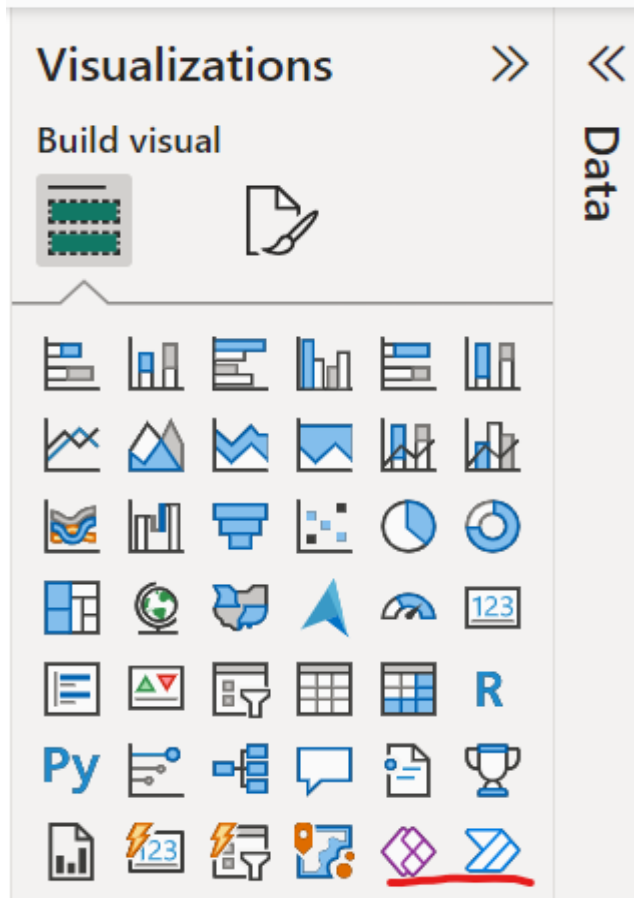
Direct Lake Semantic Model



Power BI Writeback



Power BI Writeback



Power BI Writeback Demo

Film Analytics – Top Grossing Movies

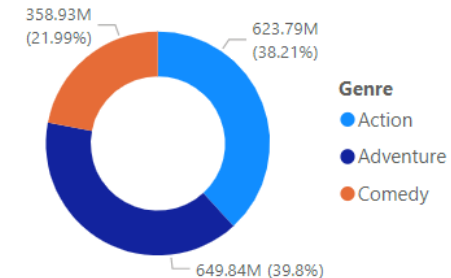
Movie Review Outline: To Update Data, Select a Row for Single Update or Press Bulk Update

Year	Movie ID	Genre	MPAA Rating	Review Rating	Tickets Sold	Total for Year
1995	1D1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	PG-13	3	42,326,002.00	\$184,031,112
1996	1F1F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	2	69,269,062.00	\$306,169,255
1997	211F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	PG-13	4	54,607,854.00	\$250,650,052
1998	231F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	4	94,524,324.00	\$443,319,081
1999	251F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	PG	2	84,732,942.00	\$430,443,350
2000	271F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG	4	47,006,948.00	\$253,367,455
2001	291F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG	3	53,074,988.00	\$300,404,434
2002	2B1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	PG-13	1	69,484,746.00	\$403,706,375
2003	2D1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	G	5	56,737,374.00	\$339,714,367
2004	2F1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	PG	3	71,050,925.00	\$441,226,247
2005	311F5B20-6088-EC11-93B0-000D3A5C8A20	Action	PG-13	2	59,324,582.00	\$380,270,577
2006	331F5B20-6088-EC11-93B0-000D3A5C8A20	Action	PG-13	1	64,628,368.00	\$423,315,812
2007	351F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	5	48,914,288.00	\$336,530,303
2008	371F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	5	73,955,652.00	\$531,001,578
2009	391F5B20-6088-EC11-93B0-000D3A5C8A20	Action	PG-13	1	53,614,916.00	\$402,111,870
2010	3B1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	G	1	52,598,844.00	\$415,004,880
2011	3D1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	PG-13	4	48,046,812.00	\$381,011,219
2012	3F1F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	5	78,311,295.00	\$623,357,910
2013	411F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	5	50,306,552.00	\$408,992,272
2014	431F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	PG-13	3	40,765,637.00	\$333,055,258
Total					1,632,555,202.00	\$11,320,483,403

Single Update

Bulk Update

How Are Ticket Sales Distributed Across Genre?



What Is My Rating Breakdown?



Power BI Writeback Demo

Would You Like To Update a Row?:
Select a Row Below to Use the Power App on the Right

Year	Movie ID	Genre	Review Rating
1995	1D1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	3

Data Write-Back

Single Update

Bulk Update

Year

1995

Name

1d1f5b20-6088-ec11-93b0-000d3a5c8a20

Genre

Action

Review Rating

Submit

Power BI Writeback Demo

←

Would You Like To Update a Row?:
Select a Row Below to Use the Power App on the Right

Year	Movie ID	Genre	Review Rating
1995	1D1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	3
1996	1F1F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	2
1997	211F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	4
1998	231F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	4
1999	251F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	2
2000	271F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	4
2001	291F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	3
2002	2B1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	1
2003	2D1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	5
2004	2F1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	3
2005	311F5B20-6088-EC11-93B0-000D3A5C8A20	Action	2
2006	331F5B20-6088-EC11-93B0-000D3A5C8A20	Action	1
2007	351F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	5
2008	371F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	5
2009	391F5B20-6088-EC11-93B0-000D3A5C8A20	Action	1
2010	3B1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	1
2011	3D1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	4
2012	3F1F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	5
2013	411F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	5
2014	431F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	3
2015	451F5B20-6088-EC11-93B0-000D3A5C8A20	Action	3
2016	471F5B20-6088-EC11-93B0-000D3A5C8A20	Action	5
2017	491F5B20-6088-EC11-93B0-000D3A5C8A20	Action	2
2018	4B1F5B20-6088-EC11-93B0-000D3A5C8A20	Action	4
2019	4D1F5B20-6088-EC11-93B0-000D3A5C8A20	Adventure	5
2020	4F1F5B20-6088-EC11-93B0-000D3A5C8A20	Comedy	2

Data Write-Back

Single UpdateBulk Update

Year

2007

Name

351f5b20-6088-ec11-93b0-000d3a5c8a20

Genre

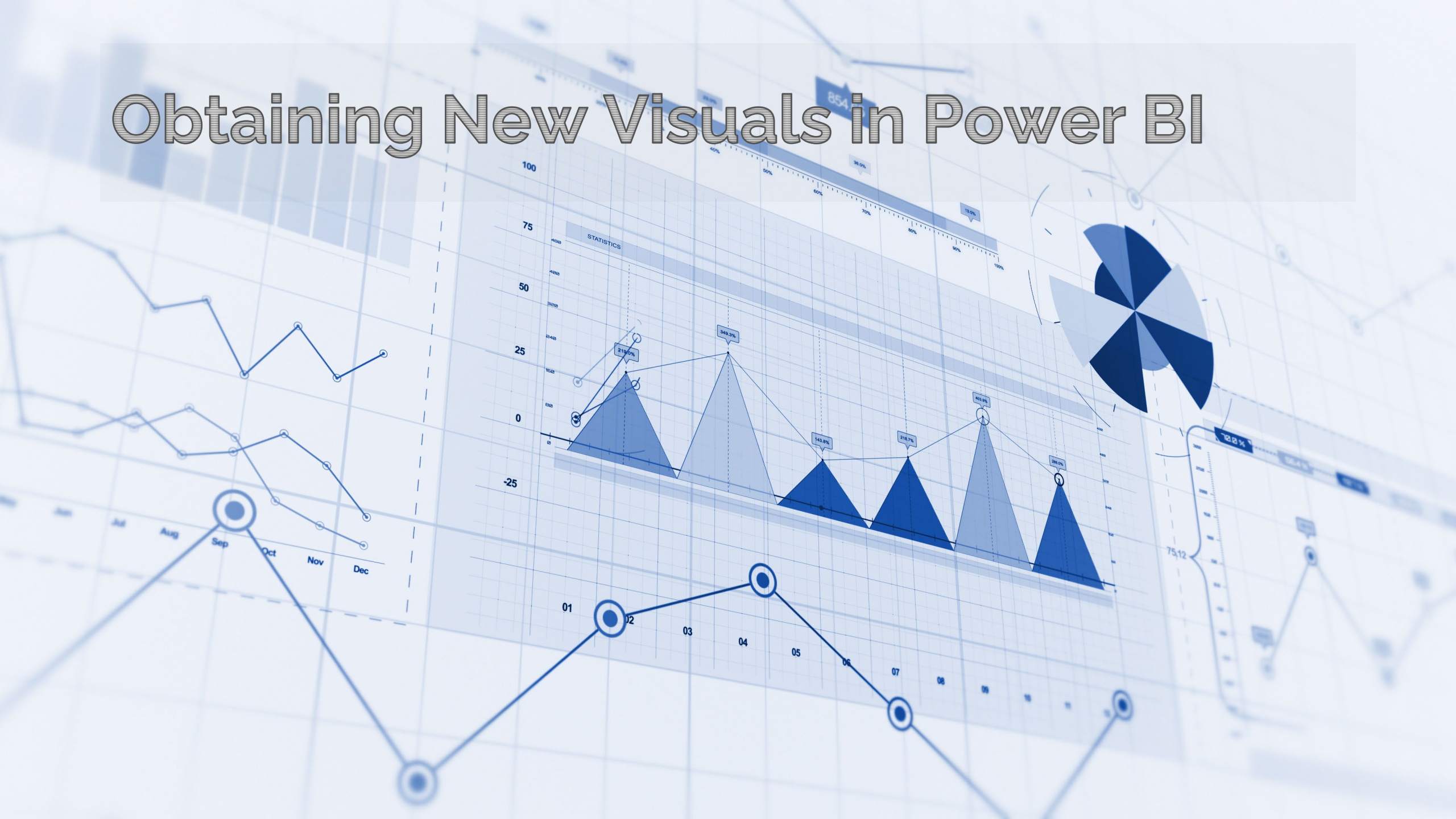
Adventure

Review Rating

Save & Continue

Submit All

Obtaining New Visuals in Power BI



Obtaining new Visuals

The screenshot displays the Microsoft Power BI Desktop application window. The title bar shows 'Untitled - Power BI Desktop' and a search bar. The ribbon includes tabs for File, Home, Insert, Modeling, View, Optimize, and Help. The Home tab is active, showing various icons for data sources (Get data, Excel, OneLake, SQL Server, Enter data, Dataverse, Recent sources), queries (Transform data, Refresh), new visuals (New visual, Text box, More visuals), calculations (New measure, Quick measure), sensitivity, publish, and Copilot.

In the center of the workspace, the text reads: **Add data to your report**
Once loaded, your data will appear in the Data pane.

Below this text are four buttons for data import:

- Import data from Excel
- Import data from SQL Server
- Paste data into a blank table
- Use sample data

Below these buttons is a link: [Get data from another source →](#)

On the right side, the 'Visualizations' pane is open, showing a grid of various chart and table icons. A context menu is open over the 'Visualizations' pane, listing the following options:

- Get more visuals
- Import a visual from a file
- Remove a visual
- Restore default visuals

The 'Visualizations' pane also shows sections for 'Build visual', 'Filters', 'Values', 'Drill through', and 'Cross-report'.

Power BI Visuals

Power BI visuals

① By clicking 'Add' and/or 'Download Sample' and downloading a visual, you agree to the provider's Terms and Conditions and Privacy Policy on the visual's page and agree Microsoft can share your account details to provider for their transactional purposes. Use of Microsoft's AppSource is subject to the [Microsoft Commercial Marketplace Terms and Privacy Statement](#).

All visuals Organizational visuals AppSource visuals

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Filter by All Sort by: Popularity



Icon Map Pro
Tekantis
★★★★★ (1)



Text Filter
Microsoft Corporation
★★★★★ (181)



Chiclet Slicer
Microsoft Corporation
★★★★★ (251)



Gantt
Microsoft Corporation
★★★★★ (171)



Word Cloud
Microsoft Corporation
★★★★★ (140)



Radar Chart
Microsoft Corporation
★★★★★ (132)



Sankey Chart
Microsoft Corporation
★★★★★ (128)



Timeline Slicer
Microsoft Corporation
★★★★★ (244)



Power KPI Matrix
Microsoft Corporation
★★★★★ (137)



Tornado chart
Microsoft Corporation
★★★★★ (55)

Additional Information

- [Microsoft Fabric release plan documentation - Microsoft Fabric | Microsoft Learn](#)
- [Fabric capacity license](#)

Upcoming S4S Webinars

- Third Tuesday of Each Month
- pointalliance.com/events

2024 22 OCT	SOLUTIONS FOR SUCCESS EDUCATION SERIES Unleashing Power BI's Hidden Potentials with Advanced Tips & Tricks 🕒 11:30 AM - 30 MINUTES Register	2024 31 OCT	SOLUTIONS FOR SUCCESS EDUCATION SERIES Information Security Awareness Training 🕒 11:30 AM - 45 MINUTES Register
2024 19 NOV	SOLUTIONS FOR SUCCESS EDUCATION SERIES Revolutionizing Workspaces Globally with Microsoft 365 Cloud PC Empowerment 🕒 11:30 AM - 30 MINUTES Register		

Questions?



Leave us a review

