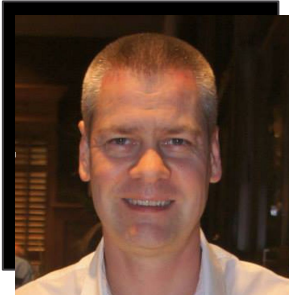


ThoughtSpot Insight Hours

January, 2025



Speakers



Paul Froggatt
Director, Technical
Architects
ThoughtSpot



Addie McNamara
Solutions Consultant
ThoughtSpot



Eliza Dee
Customer Success Manager
ThoughtSpot
Host



Nick Cooper
Principal Solutions
Architect
ThoughtSpot



Aditi Dani
Customer Success Manager
ThoughtSpot



Mark Balcer
Principal Consultant
7Dxperts

Three pillars of **Insights Hours**

**Product
spotlight**

**How-to
ThoughtSpot**

**Community
thread**

- Hosted **last Thursday of every month** by ThoughtSpot's GTM team
- Register for **one or all sessions**
- Ask your questions using Q&A for the **Community thread** discussions

Agenda

01 Introductions

Hello from speakers and what we'll cover today

02 Product spotlight - 10.5 cl release

Addie McNamara

03 Special Guest: Meet the 7DXPERTS team

Unlock real-time geospatial analysis with your modern data stack using ThoughtSpot BYOC

04 Analyst Studio

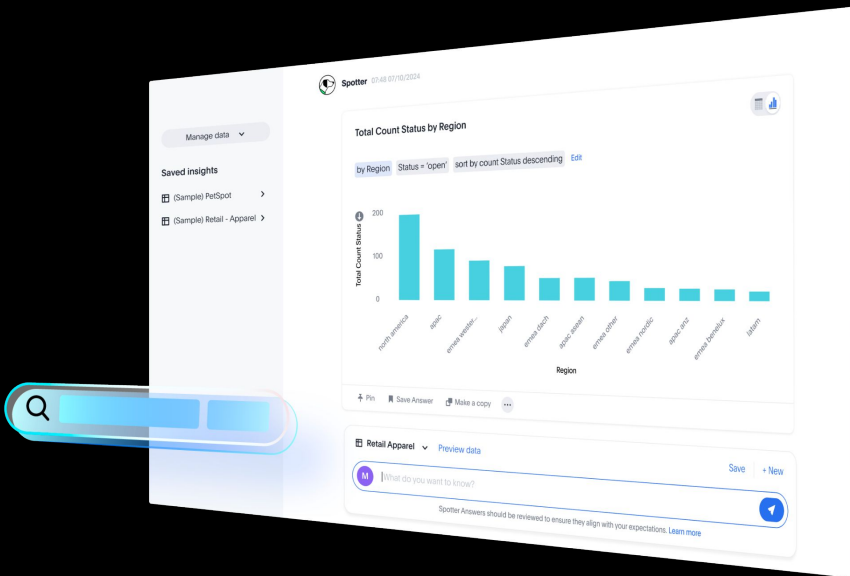
Aditi Dani

05 How to ThoughtSpot - Group aggregates

Nick Cooper

06 Wrap up & next steps

Eliza Dee



Release Highlights

10.5 cl release highlights



Demo Agenda

01 Spotter Improvements

02 Query Sets

03 Pivot Tables 2.0

04 Change Analysis Summary

05 Anomaly-Based Alerts

06 Generic Custom Compare

07 Change Join Cardinality

08 Google Sheets Plugin Data Refresh

Suggested Questions

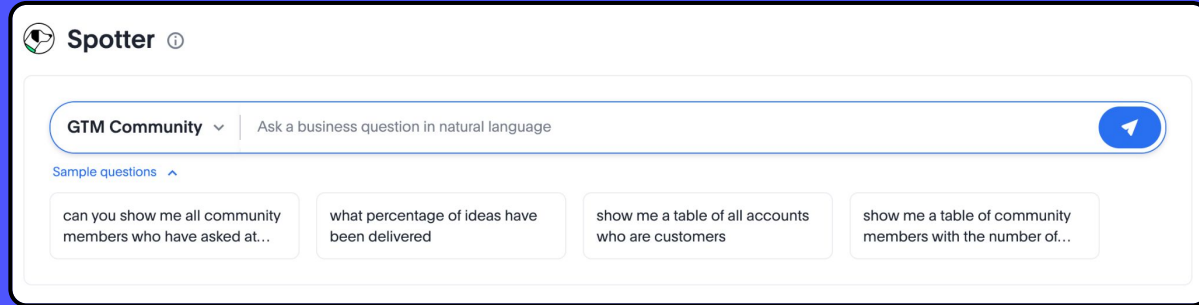
Challenge :

- Quality of AI suggested questions
- Customers have asked for ability to set the suggested questions

Solution :

- Spotter now uses **Reference questions** with **Global** access as suggested questions when they are available.
- Questions with highest number of upvotes will be picked

Instances that **enabled AI Sample Questions** flag will get this change by default in 10.5.0.ci



The screenshot shows a table titled "Spotter - Reference questions". The table has columns for "Question", "Rating", "Search Tokens", "Chart", "Access", and "Worksheet". The first row has a "Rating" of 5 and a "Worksheet" of "GTM Community". The second row has a "Rating" of 4 and a "Worksheet" of "GTM Community". The third row has a "Rating" of 3 and a "Worksheet" of "GTM Community". The fourth row has a "Rating" of 2 and a "Worksheet" of "GTM Community". The fifth row has a "Rating" of 1 and a "Worksheet" of "GTM Community". There are two red circles highlighting the "Access Global" and "Rating Upvoted" labels in the table.

Question	Rating	Search Tokens	Chart	Access	Worksheet
can you show me all community members who have asked at least one unique question	5	Community Network Member Name uni	KPI	Global	GTM Community
what percentage of ideas have been delivered	4	percentage delivered Idea Status = 'deli		Global	GTM Community
show me a table of all accounts who are customers	3	Account Status Account Name Acc	Scatter	Global	GTM Community
show me a table of community members with the number of questions and product...	2	unique count Idea Title unique count Idea Bi		Global	GTM Community

Typeahead Suggestion from context

Challenge :

- Users find it difficult to type exactly type column names and values

Solution :

- Spotter provides column name and column value suggestions to help users type their question easily
- Note : Column value suggestion only suggests attribute column values that are shown in one of the viz loaded in conversation

Beta in 10.5.0.ci (Feature behind a flag, **disabled** by default)

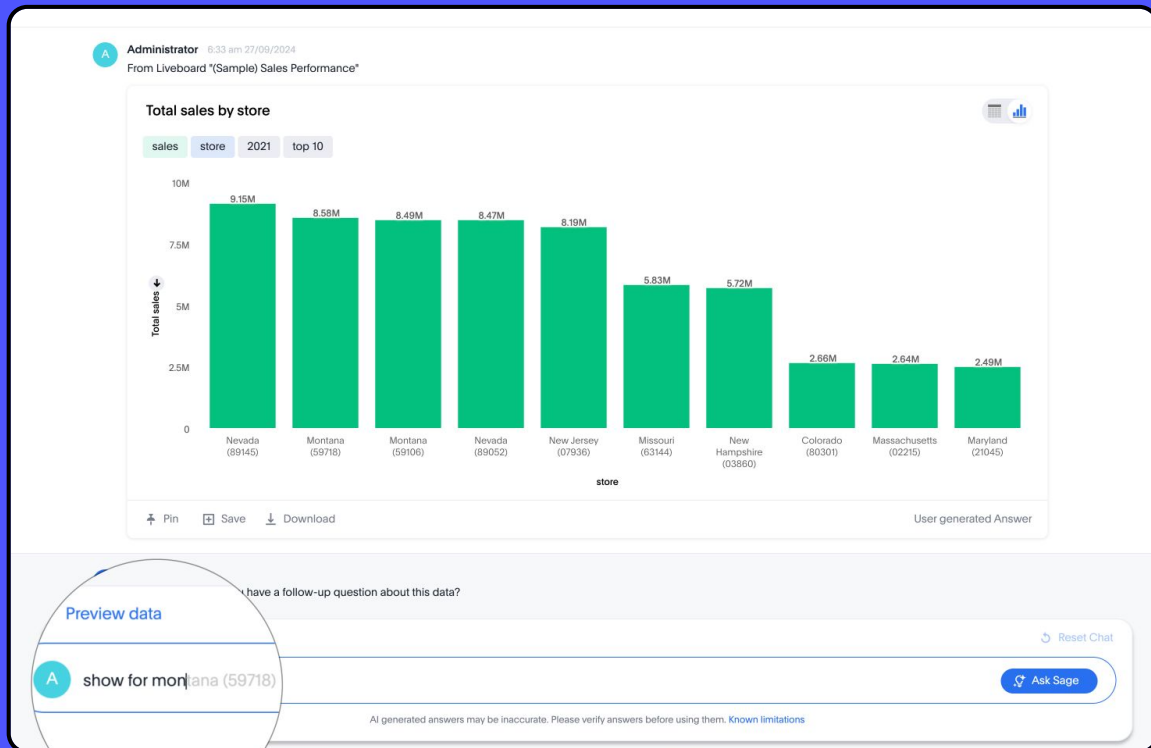


Chart Readability Improvements

Challenge :

- Customers using smaller screen resolutions have complained about the readability ai answers

Solution :

On smaller screen resolution, we have made the following changes to improve readability of AI answers :

- Reduced the white spaces on side to expand the chart
- Introduced minimum chart height to reduce distortion of charts on extremely small screen resolutions

Enabled by default in 10.5
[Loom link](#)

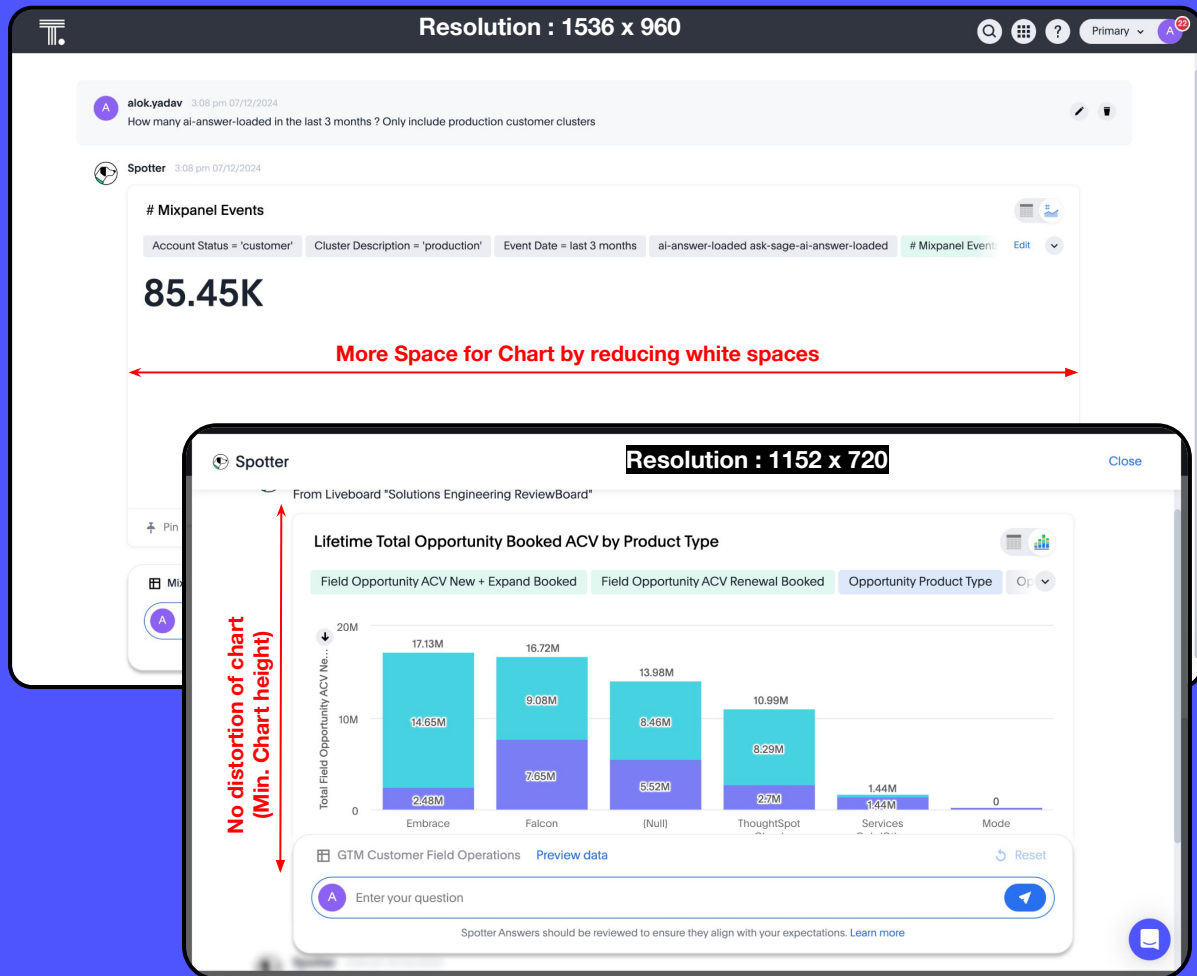


Chart Selection

Challenge :

- Users want the ability to request for a specific chart type in Spotter

Solution :

- Spotter will apply the user specified chart type if the data fits charting requirement
- Limitations :
 - Custom charts are NOT supported yet
 - Users can only ask for specific chart type , other chart settings are not available yet

Enabled by default in Spotter (& Ask Sage) experience from 10.5.0.cl.

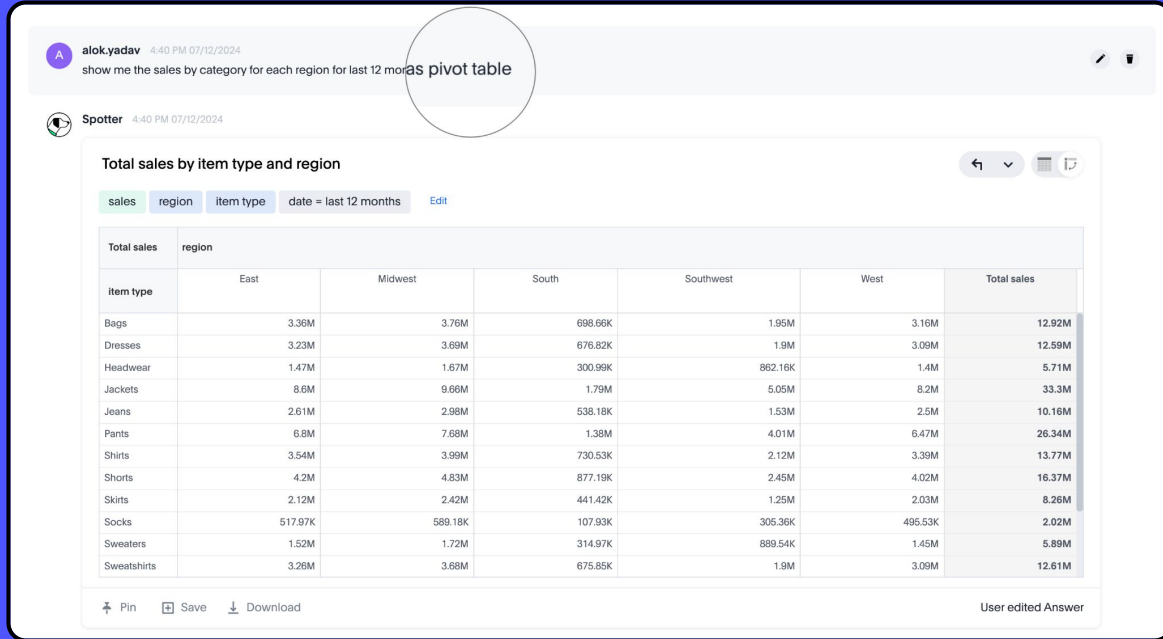


Chart Selection (2/2)

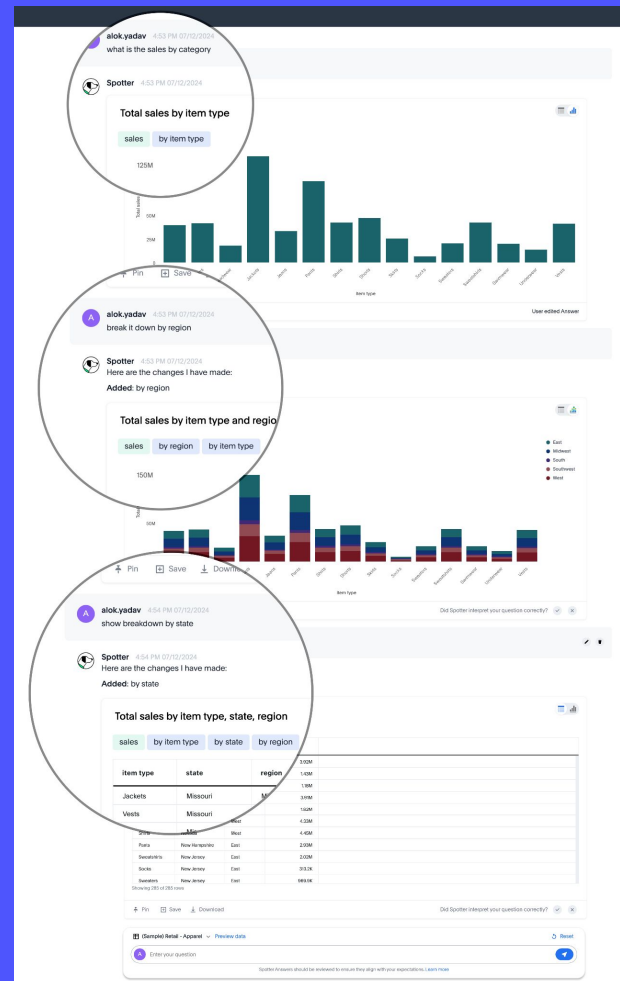
Challenge :

- Users perceive that Spotter answers to be incorrect when the chart selected doesn't visualise all the data (even though Spotter generates the correct Search Data tokens)

Solution :

- Spotter will show the data in table view when the suggested chart doesn't fit the data.
- Spotter will retain the chart type in cases of filter changes (or data aggregation changes)

Enabled by default in Spotter (& Ask Sage) experience from 10.5.0.ci.



Query Sets - UI Conditions

Why?

- **Query Sets** provide the ability for the **analyst to simplify asking** and answering questions that require **subquery analysis**.
- I.e.
 - Acquisition Analysis
 - Basket Analysis
 - Segmentation Analysis
 - Frequency Analysis
- [YouTube Channel for All Things Sets](#)

What?

- With this release we have **updated the UI to provide the smart conditions definition**;

When?

- Sets will continue to be EA with a GA planned first quarter of 2025 calendar year.

Query Sets - UI Conditions

Query set

Edit set details

Define groups for included query values

Conditions Column



1 - 10

Remove group

Rank By Month

Between

1

10



+ Add condition



11 - 20

Remove group

Rank By Month

Between

11

20



+ Add condition



21 - 30

Remove group

Rank By Month

Between

21

30



+ Add condition

+ Add group

Show remaining values as

Individual values

Group

Pivot Tables 2.0

The new Pivot table supports **all the features** in the existing Pivot table. Additionally, users also get:

Faster performance

- No more loading and flashing on pivots upon every interaction on the chart
- Faster load times with pagination

Improved UX

- Detailed tooltips
- Zebra mode for better readability
- No clutter
- Expand/Collapse all

More customization

- Custom sort order support
- Adjustable column widths
- Slice with measures and attributes
- Measure names and values for more granular control on configurations
- Native TS capabilities: conditional formatting, number formatting
- Formatting for cells, headers and totals

Note: A few features are not available in the Beta version. For the list of features that will be available in EA and GA, please see this [doc](#)

Change Analysis Summary Tab

Challenge:

When a user runs change analysis, they directly land on the insight for an attribute. Either the first attribute is not relevant or the user does not understand the deeper insight immediately, hence we see a drop off in retention. It was also noticed that ~50% of users, do not check the change across a second attribute.

Solution:

On running change analysis, the user lands on an Overview tab that gives a summary of the change across the selected attributes

Rollout: Staggered rollout controlled by PM and CSM

Change analysis				Nov 2024	Nov 2023	
Retail sales - Rahul LB		Sales monthly		981.23K	↓ 4.26%	1.02M
Change Analysis						
Major contributors to the 43.64K decrease						
Attribute	Top contributor	Contribution	Other contributors			
item type	Pants ↓ 11.5%	-19.37K	Shorts, Dresses and 1 others View details →			
state	Arizona ↓ 4.26%	-43.64K	No other major contributors View details →			
store	Arizona (85226) ↓ 9.31%	-43.57K	No other major contributors View details →			
product	Resort dress ↓ 21.03%	-2.87K	Insulator pants, Down sweater and 7 others View details →			
region	Southwest ↓ 4.26%	-43.64K	No other major contributors View details →			

Anomaly based alerts

Challenge:

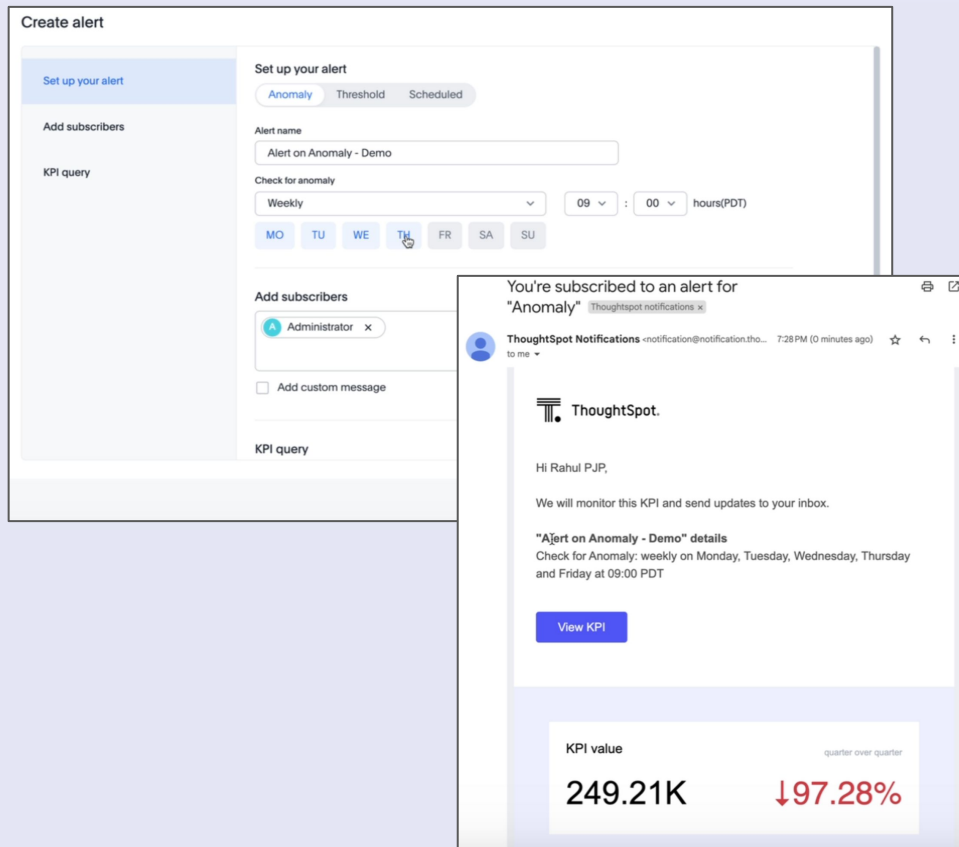
Understanding the trend of a KPI helps user be on top of it effectively. Users can monitor important KPIs for unusual behaviours at their fingertips to take proactive action

Solution:

We run ML and statistical based anomaly detection on KPI to detect the deviation away from expected range. If an KPI falls outside this range, ThoughtSpot sends a notification to users' email for them to take action.

Early Access: 10.1

GA: 10.5



The image shows two screenshots related to setting up an anomaly alert. The top screenshot is the 'Create alert' interface, and the bottom screenshot is an email notification.

Create alert interface:

- Set up your alert:** Anomaly (selected), Threshold, Scheduled
- Alert name:** Alert on Anomaly - Demo
- Check for anomaly:** Weekly (dropdown), 09 : 00 hours(PDT)
- Days:** MO, TU, WE, TH (selected), FR, SA, SU
- Add subscribers:** Administrator (selected)
- Options:** Add custom message (checkbox)
- KPI query:** (empty field)

Email notification:

- Subject:** You're subscribed to an alert for "Anomaly"
- From:** ThoughtSpot Notifications
- Body:** ThoughtSpot. Hi Rahul PJP. We will monitor this KPI and send updates to your inbox. "Alert on Anomaly - Demo" details: Check for Anomaly: weekly on Monday, Tuesday, Wednesday, Thursday and Friday at 09:00 PDT.
- Action:** View KPI
- KPI value:** 249.21K (quarter over quarter) ↓97.28%

Generic Custom Compare

Challenge:

The options for comparison on a KPI chart was restricted to a predefined set of options. Users with seasonality apart from the fixed set were not able to derive value from the comparison

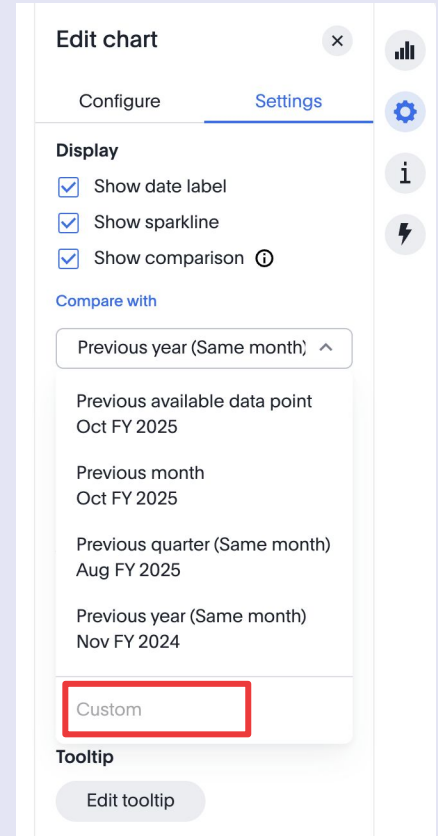
Solution:

The ability to set a custom comparison period is available to users.

Example: They can compare their monthly KPI to any month in the past

Early Access: 10.5 (Custom calendar is not supported)

GA: 10.6 (With Custom calendar support)



The screenshot shows the 'Edit chart' settings panel. The 'Settings' tab is active. Under the 'Display' section, three options are checked: 'Show date label', 'Show sparkline', and 'Show comparison'. The 'Compare with' dropdown menu is open, showing a list of comparison options: 'Previous year (Same month)', 'Previous available data point', 'Previous month', 'Previous quarter (Same month)', and 'Previous year (Same month)'. The 'Custom' option is highlighted with a red box. The 'Previous available data point' option shows 'Oct FY 2025'. The 'Previous month' option shows 'Oct FY 2025'. The 'Previous quarter (Same month)' option shows 'Aug FY 2025'. The 'Previous year (Same month)' option shows 'Nov FY 2024'. At the bottom of the panel, there is a 'Tooltip' section with an 'Edit tooltip' button.

Change join cardinality

Challenge:

Users are not able to change the join cardinality once they create the join and use it in a worksheet/model.

Current workaround is to delete the join and fix downstream objects manually.

Solution:

Users can change the join cardinality from the new tables will not work (consistent with current behavior)

Early Access: 10.5

GA: 10.7

The screenshot displays a software interface for configuring a join. On the left, a sidebar lists 'Data workspace' with a '+ Create new' button, and a navigation menu including 'Home', 'Connections', 'Sync', 'dbt', 'Usage statistics', 'Utilities', 'Data governance', and 'Liveboard verification'. The main area is titled 'SYSTEM TABLE ACCOUNT' and has tabs for 'Columns', 'Joins', 'Data samples', 'Dependencies', and 'Row Security'. The 'Joins' tab is active, showing a configuration for a join named 'OPPORTUNITY_to_ACCOUNT'. It details the 'Source Table' as 'OPPORTUNITY' and the 'Destination Table' as 'ACCOUNT'. The 'Source Columns' list 'ACCOUNT_ID' and the 'Destination Columns' list 'ID'. A 'Many:1' cardinality is indicated between the source and destination. A diagram on the right shows two boxes representing 'System table OPPORTUNITY' and 'System table ACCOUNT' connected by a line with 'ID' in a circle. The interface includes a search bar, a grid icon, a help icon, and a 'Primary' dropdown in the top right, and a '+ Add Join' button and a '84%' zoom level in the bottom right.

Google Sheets Plugin - Refresh data

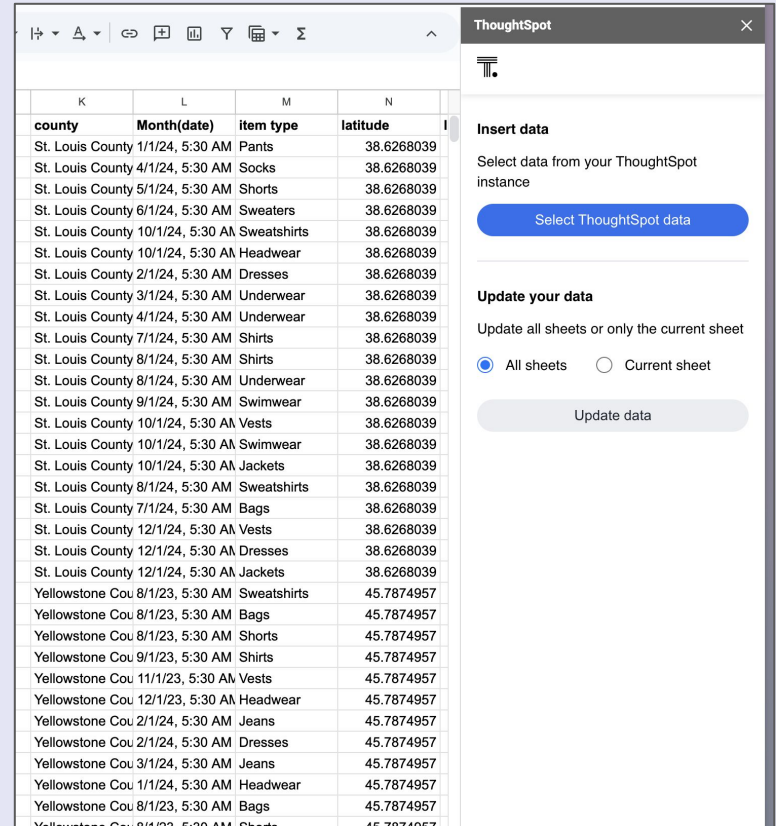
Challenge:

- One time data import. No refresh / update data functionality.
- Error messaging issues

Solution:

- Addition of Refresh functionality in the Google Sheets Plugin workflow.
- Similar to how it currently works in Google Slides

Rollout: Already in Production



The screenshot shows a Google Sheet with a table of data. The table has columns for 'county', 'Month(date)', 'item type', and 'latitude'. The data is organized by county, with St. Louis County and Yellowstone County. The ThoughtSpot plugin is overlaid on the right side of the sheet, showing options to 'Insert data' and 'Update your data'.

county	Month(date)	item type	latitude
St. Louis County	1/1/24, 5:30 AM	Pants	38.6268039
St. Louis County	4/1/24, 5:30 AM	Socks	38.6268039
St. Louis County	5/1/24, 5:30 AM	Shorts	38.6268039
St. Louis County	6/1/24, 5:30 AM	Sweaters	38.6268039
St. Louis County	10/1/24, 5:30 AM	Sweatshirts	38.6268039
St. Louis County	10/1/24, 5:30 AM	Headwear	38.6268039
St. Louis County	2/1/24, 5:30 AM	Dresses	38.6268039
St. Louis County	3/1/24, 5:30 AM	Underwear	38.6268039
St. Louis County	4/1/24, 5:30 AM	Underwear	38.6268039
St. Louis County	7/1/24, 5:30 AM	Shirts	38.6268039
St. Louis County	8/1/24, 5:30 AM	Shirts	38.6268039
St. Louis County	8/1/24, 5:30 AM	Underwear	38.6268039
St. Louis County	9/1/24, 5:30 AM	Swimwear	38.6268039
St. Louis County	10/1/24, 5:30 AM	Vests	38.6268039
St. Louis County	10/1/24, 5:30 AM	Swimwear	38.6268039
St. Louis County	10/1/24, 5:30 AM	Jackets	38.6268039
St. Louis County	8/1/24, 5:30 AM	Sweatshirts	38.6268039
St. Louis County	7/1/24, 5:30 AM	Bags	38.6268039
St. Louis County	12/1/24, 5:30 AM	Vests	38.6268039
St. Louis County	12/1/24, 5:30 AM	Dresses	38.6268039
St. Louis County	12/1/24, 5:30 AM	Jackets	38.6268039
Yellowstone Cou	8/1/23, 5:30 AM	Sweatshirts	45.7874957
Yellowstone Cou	8/1/23, 5:30 AM	Bags	45.7874957
Yellowstone Cou	8/1/23, 5:30 AM	Shorts	45.7874957
Yellowstone Cou	9/1/23, 5:30 AM	Shirts	45.7874957
Yellowstone Cou	11/1/23, 5:30 AM	Vests	45.7874957
Yellowstone Cou	12/1/23, 5:30 AM	Headwear	45.7874957
Yellowstone Cou	2/1/24, 5:30 AM	Jeans	45.7874957
Yellowstone Cou	2/1/24, 5:30 AM	Dresses	45.7874957
Yellowstone Cou	3/1/24, 5:30 AM	Jeans	45.7874957
Yellowstone Cou	1/1/24, 5:30 AM	Headwear	45.7874957
Yellowstone Cou	8/1/23, 5:30 AM	Bags	45.7874957
Yellowstone Cou	8/1/23, 5:30 AM	Shorts	45.7874957

ThoughtSpot

Insert data

Select data from your ThoughtSpot instance

Select ThoughtSpot data

Update your data

Update all sheets or only the current sheet

All sheets Current sheet

Update data

How to

7Dxperts





ThoughtSpot®

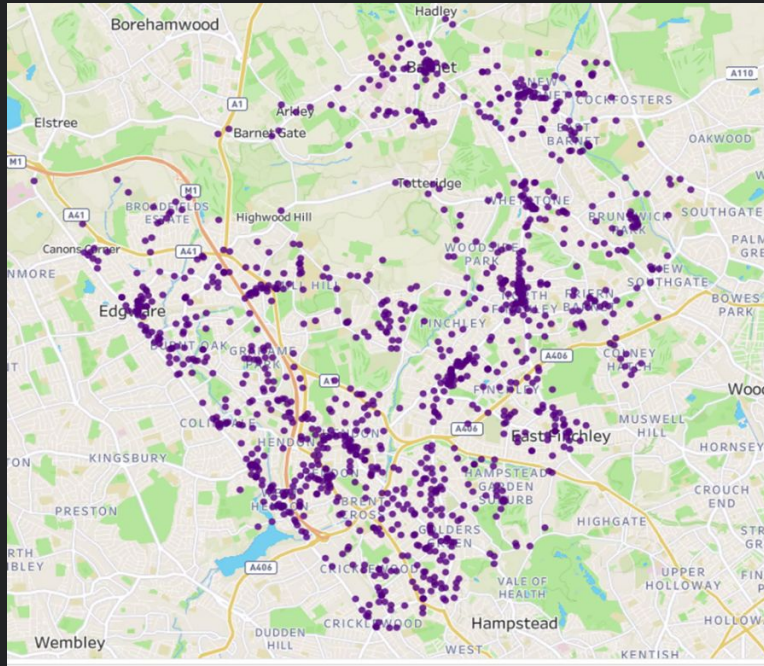
Bringing Maps to Life

Unlock real-time geospatial analysis with your modern data stack using **ThoughtSpot BYOC** (Bring Your Own Charts)

Mark Balcer – Principal Consultant



The problem



The solution



The logo for DXPERTS features a stylized white 'D' with a green 'x' inside it, followed by the word 'PERTS' in white. The background is dark green with a glowing, particle-like effect.

DXPERTS

DEMO

Did you know..

Of the **10,000** customers that a leading CDW company have, approximately **6,000** of those have Latitude and Longitude data residing in their CDW

They estimate that only **10%** are utilizing this geospatial data

This leaves a lot of use cases to be explored for value...

Some use cases by Industries



Retail

Store Location
Optimisation, Targeted
Marketing, Supply Chain
Efficiency



Telecommunications

Network Expansion,
Service Quality
Improvement,
Customer Segmentation



Transportation

Demand Forecasting,
Infrastructure Planning,
Public Transit
Optimization



Logistics

Route Optimisation,
Warehouse Placement,
Inventory Management



Real Estate

Property Value Analysis,
Development Planning,
Risk Assessment



Travel

Destination Popularity
Analysis, Targeted
Marketing for Travel
Packages, Seasonal
Demand Forecasting

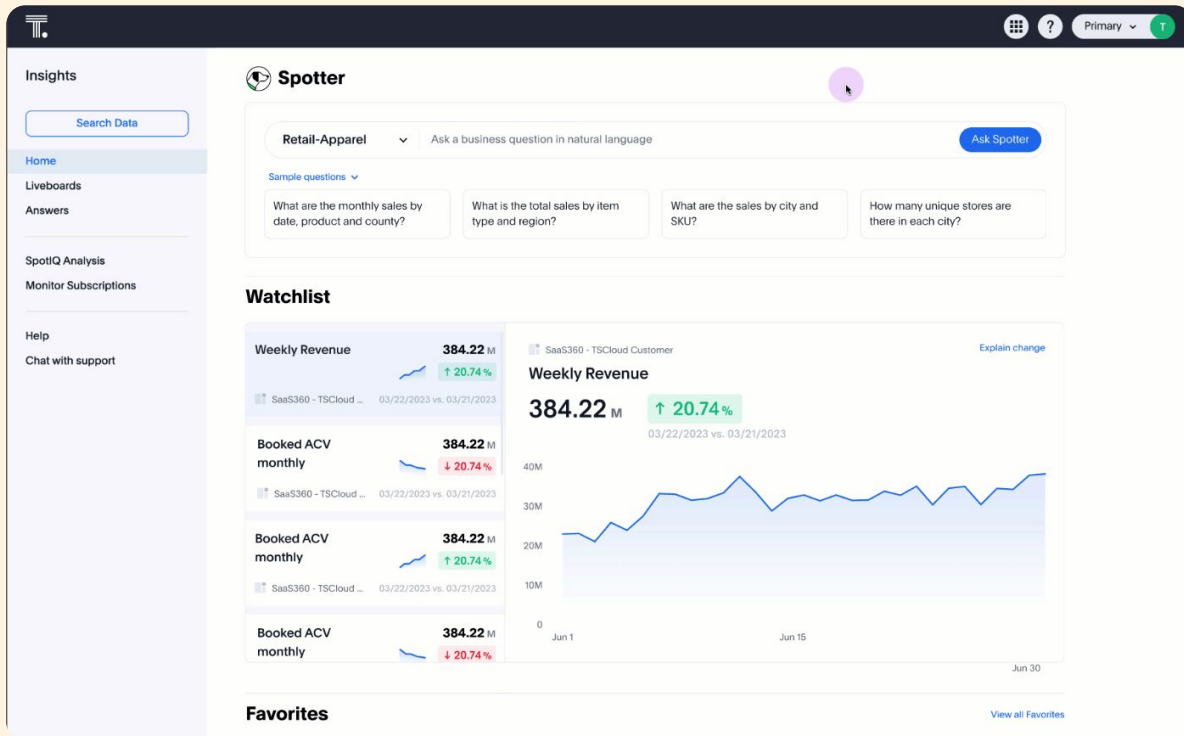
How to

Analyst Studio



INTRODUCING ANALYST STUDIO

Accelerate data to insights



Get your data
AI-ready



Complete analytics
workflow



Analyze and explore in
SQL, Python, and R



Optimize cloud costs

Unify your data

Challenges:

- *Data stored in separate CDWs.*
- *Some data in CDWs and other data scattered in files*.*

Capability

- *Join datasets together in ThoughtSpot data models or worksheets to unify data from multiple sources.*

Value

- *Comprehensive Insights*
- *Flexibility*

The screenshot displays the ThoughtSpot data workspace interface. On the left is a dark sidebar with navigation options: Data objects, Connections, Analyst Studio, Utilities, Sync, SPOTTER COACHING, Reference questions, Business terms, GOVERNANCE, Data catalog, Usage, dbt, and Liveboard verification. The main area shows a data catalog with tabs for Worksheets, Views, Tables, and All Tags. A table lists various data objects with columns for Name, Source, Type, and Tags. A modal window titled 'Select a data source' is open, showing a search bar and categories of data sources: Popular (Snowflake, Amazon Redshift, Google Bigquery), Popular (Azure Synapse, Databricks), Enterprise data platforms (Teradata, SAP HANA, Starburst), and Query engines (Dremio, Trino, Presto). A 'Next' button is visible at the bottom right of the modal.

Name	Source	Type	Tags
Sales worksheet		Worksheet	
Total sales view		View	
Data table		Table	
customer_usage	Dataset extract	Table	--
Total sales view	Snowflake	View	Marketing
Data table	Snowflake	Table	Marketing
My SQL View	Snowflake	View	Sales
July sale	Dataset extract	Worksheet	Customer
East Sales Pipeline	Snowflake	Table	Marketing

Advanced tooling to get your data AI-ready

Problem

- *Slow time-to-value*

Capability

- *SQL Editor*
- *Google Sheets*
- *Publish Datasets to ThoughtSpot*

Value

- *Get started within minutes:*
- *Build prototypes & gather feedback:*
- *Faster insights for business users:*

The screenshot displays a data analytics tool interface. The main window shows a SQL query editor with a query that filters for 'gloss' and 'poster' orders. Below the editor is a table view showing columns for 'Promotion served' and 'Promotion owner'. An 'AI ASSIST' overlay is visible on the right side, showing a continuation of the SQL query. The interface includes a top navigation bar with 'Personal' and 'Untitled Report' tabs, and a sidebar with 'Report Builder' and 'Python Notebook' options.

```
1 WITH
2   orders AS (
3     SELECT o.id,
4            o.account_id,
5            o.occurred_at,
6            o.standard_qty,
7            o.standard_qty * o.standard_amt_usd AS sales_volume,
8            CASE
9              WHEN o.gloss_qty > 0 THEN 'gloss'
10             WHEN o.poster_qty > 0 THEN 'poster'
11             ELSE 'standard'
12            END AS order_type,
13            a.name AS rep_name,
14            r.name AS region
15   FROM demo.orders o
16   JOIN demo.accounts a
17     ON a.id = o.account_id
18   JOIN demo.sales_reps s
19     ON s.id = a.sales_rep_id
20   JOIN demo.region r
21     ON r.id = s.region_id
22 ),
23
24 e.years_at_dunder_mifflin,
25 MONTH
26 )
27 SELECT
28   account_manager,
29   title,
30   department,
31   years_at_dunder_mifflin,
32   MONTH,
33   total_sales,
34   LAG(total_sales) OVER (
35     PARTITION BY department
36     ORDER BY
37       MONTH
38   ) AS previous_month_sales,
39   (
40     total_sales - LAG(totalsales) OVER (
```

Ad hoc exploration tooling for analysts

Table calculation settings

Quick table calculation type: Percent of Total

Calculate using: Custom order

Apply calculation in the following order:

Addressing: state, region

Partitioning: product category, item type, item name

Calculate based on the values in **addressing fields**, and reapply the calculation within **partitioning fields**.

[Learn more](#) about table calculations

Reset Apply Apply and close

Visual Explorer

Columns (X): MONTH(Promotion date)

Rows (Y): Shared Axis 1, Annual pace, SUM(Purchase price), Annual pace compar...

Layers: All Layers, Annual pace, SUM(Purchase price), Bar, Measure Names

Measures: Measure Values, Annual pace, Annual pace comparison, Buyer CSAT score, Calculation 2, Calculation 4, Cumulative sales, Purchase price, Quantity, Rating, Sales amount

Early Promotion Performance: A

Total Sales

Annual Pace Comparison

Campaign Active Month

MONTH(Promotion date)	Measure Names	Annual Pace Across Table	Sales amount	Annual pace co
2018-01-01 00:00:00	ANNUAL_PACE across table	516021.0333		
2018-02-01 00:00:00	ANNUAL_PACE across table	407445.0750		
2018-03-01 00:00:00	ANNUAL_PACE across table	365692.9667		
2018-04-01 00:00:00	ANNUAL_PACE across table	355833.1167		
2018-05-01 00:00:00	ANNUAL_PACE across table	372933.0967		
2018-06-01 00:00:00	ANNUAL_PACE across table	359457.8722		
2018-07-01 00:00:00	ANNUAL_PACE across table	348642.3071		

Manage data and costs on your terms

Problem

- *Slow or costly analytics*

Capability

Create periodic data snapshots or extracts, allowing data to be refreshed at regular intervals

When to use extracts?

- *Performance and scalability issues*
- *Fragmented data sources*
- *Data freshness*

Value

- *Optimized Performance*

The screenshot displays a Snowflake SQL editor with a query, a table of results, and a 'Publish to the data workspace' dialog box.

```
1 WITH
2 orders AS (
3   SELECT o.id,
4         o.account_id,
5         o.occurred_at,
6         o.standard_qty,
7         o.standard_qty * o.standard_amt_usd AS sales_volume,
8         CASE
9           WHEN o.gloss_qty > 0 THEN 'gloss'
10          WHEN o.poster_qty > 0 THEN 'poster'
11          ELSE 'standard'
12        END AS order_type,
13        a.name AS rep_name,
14        r.name AS region
15   FROM demo.orders o
16   JOIN demo.accounts a
17     ON a.id = o.account_id
18   JOIN demo.sales_reps s
19     ON s.id = a.sales_rep_id
20   JOIN demo.region r
21     ON r.id = s.region_id
22 ),
```

Promotion served	Promotion owner	Promotion used	Rating	Rating type
1 Discount code	Kimberly Nemchinov	false	5	Detractor
2 Discount code	Traver Arkell	true	4	Detractor
3 Discount code	Moshe Bindon	true	0	Detractor
4 Discount code	Price Palle	false	4	Detractor
5 Raffle	Garret Redmond	true	4	Detractor
		true	3	Detractor
		true	10	Promoter
		true	0	Detractor
		false	4	Detractor
		true	5	Detractor
		true	10	Promoter
11 Coupon	Iggy Dallivater	true	0	Detractor
12 Discount code	Hetty Klug	true	0	Detractor
13 Coupon	Jaquenette Dillestone	true	2	Detractor
14	Alysa Keddy	true	10	Promoter

Publish to the data workspace

This imports the Dataset as a table into the data workspace. The table will only be visible to you and admins by default.

Name:

Dataset details

Source	SQL Query
Records	1000
Total columns	35
Size	6MB
Connection	Snowflake
Collection	Marketing
Schedules	Daily at 9:00 am Eastern Time (US & Canada)

⚠️ The imported table will automatically use the most recent results available. Changes to the Dataset's structure require manual updates to the table and may break content built on it.

Dataset successfully published

Advanced tooling for data scientists

Problem:

- *Lack of data science capabilities within Thoughtspot*
- *Need to use other tools for advanced analytics.*

Capability

- *Analyst Studio includes an integrated Python/R notebook where query results are readily accessible.*

Value

- *Run advanced analytics using Python or R*

The screenshot displays the Analyst Studio Python Notebook interface. The top navigation bar includes 'Personal', 'Untitled Report', and 'Report' options. The main workspace is divided into three sections: a left sidebar with 'Report Builder' and 'Python Notebook' tabs, a central code editor, and a right sidebar with a 'Python 3' environment dropdown and a 'Frequently used' list.

The code editor shows the following Python code:

```
1 #plotting the forecast
2 past = revenue_aggregate.ds.max()
3 historical_data = revenue_aggregate.loc[(revenue_aggregate['ds'] <= past)][['ds', 'y']]
4 future_data = forecast.loc[forecast['ds'] > past][['ds', 'yhat']]
5 future_data.rename(columns={'yhat': 'y'}, inplace=True)
6 combine_df = historical_data.append(future_data)
7 combine_df['y'] = combine_df['y'].astype('int')
8 combine_df['ds'] = pd.to_datetime(combine_df['ds'])
9 combine_df['data'] = np.where(combine_df['ds'] > past, 'forecast', 'historical data')
10 plt.figure(figsize=(20, 10))
11 plot = sns.lineplot(x='ds', y='y', data=combine_df, hue = 'data', palette=["#2A6F2B", "#78C51C"])
```

The output section displays a line plot with 'ds' on the x-axis (ranging from 2017 to 2024) and 'y' on the y-axis (ranging from 5000 to 20000). The plot shows two data series: 'historical data' (represented by a blue line) and 'forecast' (represented by a light blue shaded area). The historical data shows a clear upward trend with seasonal fluctuations, while the forecast continues this trend with a shaded confidence interval.

Two interactive buttons are overlaid on the bottom left of the plot area: 'Use output' and 'Create a dataset'.

The right sidebar shows the 'Python 3' environment dropdown with options for 'Python 3', 'R', and 'Python 3 Edge'. Below it, the 'Frequently used' list includes:

- [matplotlib](#): 2D plotting library
- [numpy](#): scientific computing library

Other libraries listed include scipy, seaborn, arrow, BeautifulSoup4, engarde, jsonify, numexpr, and pandas.

How to

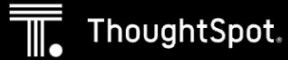
Group aggregates



A top-down view of a person's hands on a laptop keyboard. The person is wearing a white long-sleeved shirt and a ring on their left hand. A black microphone on a stand is positioned above the laptop. To the right, a smartphone is lying on the desk. In the bottom right corner, there is a white coffee cup filled with coffee on a cork coaster. On the left side, there is a notebook with a pen and some papers, including one with a table.

What's coming & next steps

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