



Amazon Q in QuickSight Workshop

Michael Lin

Sr. Solutions Architect
Amazon Web Services

“

GenAI-supported work tends to be more efficient and of higher quality than work produced by unsupported human workers.

Productivity is improved by over 30%, on average.

Gartner, Four GenAI Use Cases for the Digital Workplace, 10 October 2023



© 2025, Amazon Web Services, Inc. or its affiliates. All rights reserved.

So do we have all the insights at our fingertips?



The problem that is yet unsolved



Unstructured Data



Structured Data

Need to bring together
structured and
unstructured data

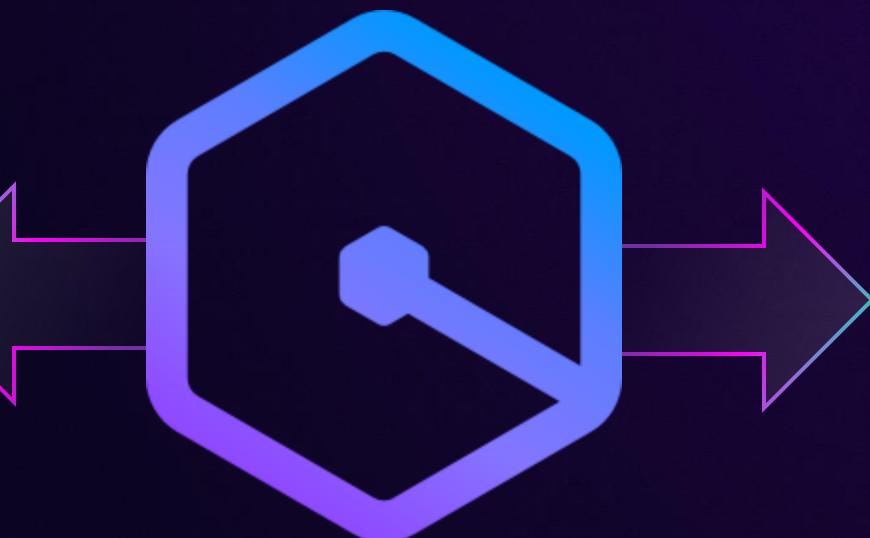


Amazon Business



Unstructured Data

Amazon QuickSight



Structured Data

Amazon QuickSight



© 2025, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon QuickSight



Unified BI service that delivers modern dashboards, pixel-perfect reports and embedded analytics

Consistent performance at any scale

Lower costs by paying for what you need

Policy based governance, security

Amazon Q in QuickSight

NATURAL LANGUAGE CAPABILITIES ACCELERATING ACCESS TO DATA INSIGHTS

Build Dashboards and Reports

Build visuals, build calculations, and refine visuals

Add calculated field

Profit Class

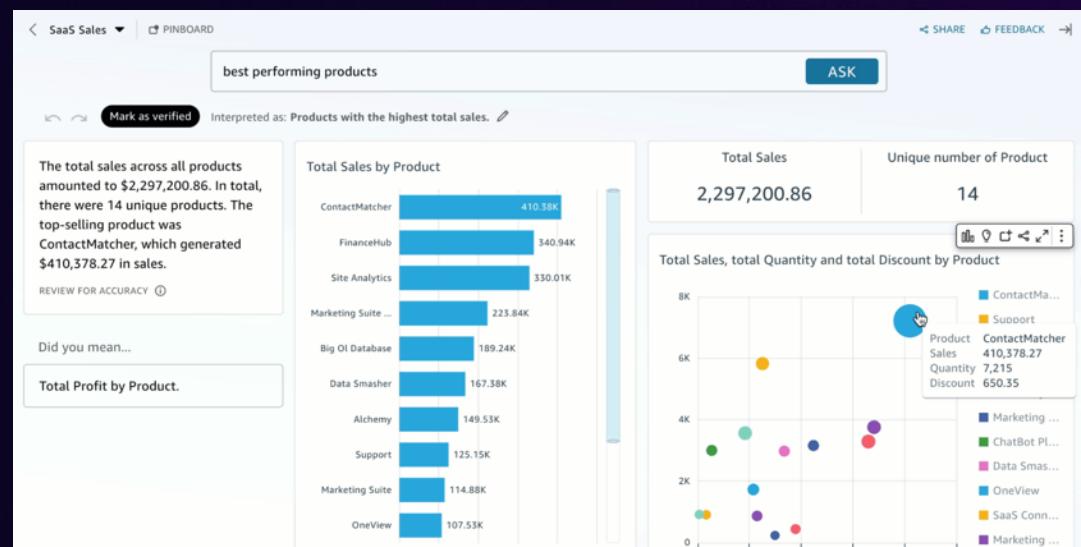
Build calculation

What calculation would you like to build? ⓘ

categorize profit from low to high

Learn more | 246 characters remaining

```
ifelse({Profit} < 1000, "LOW", ifelse({Profit} < 500, "MEDIUM", "HIGH"))
```

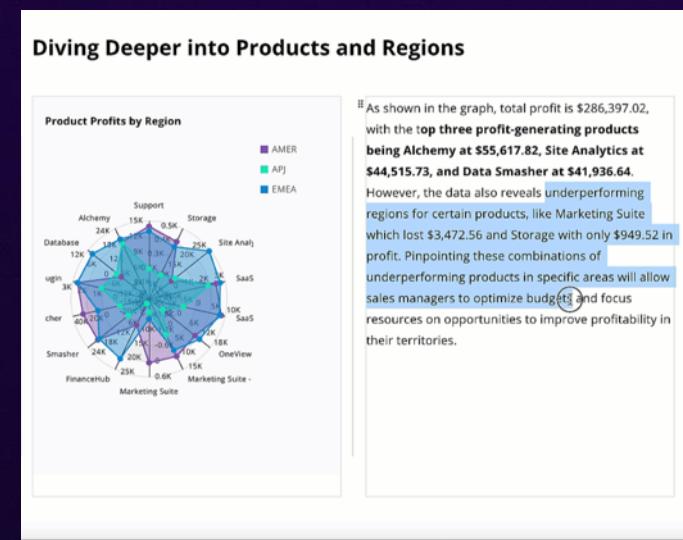


Data Q&A

Ask and answer questions of data not answered in dashboards and reports

Executive Summaries and Stories

Get key insights and trends, and generate documents or slides explaining data



AI-powered dashboard authoring experience

A DASHBOARD BUILDING EXPERIENCE POWERED BY GENERATIVE BI

Build visuals

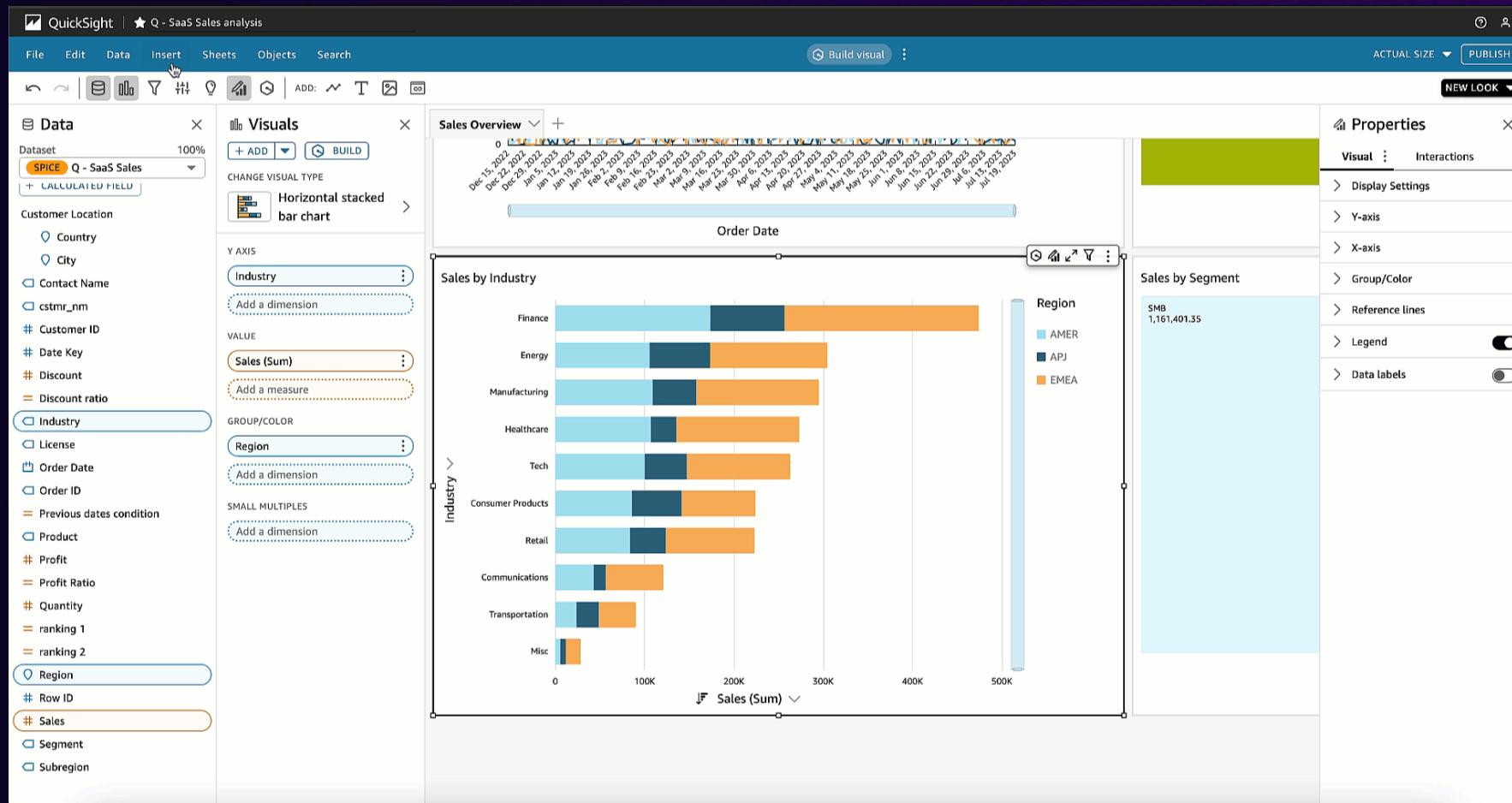
Use natural language to quickly build visuals for dashboards and reports

Build calculations

Easily create calculations using natural language without looking up or learning specific syntax

Refine visuals

Quickly update visuals by describing desired formats using natural language



AI answers to questions of data on demand

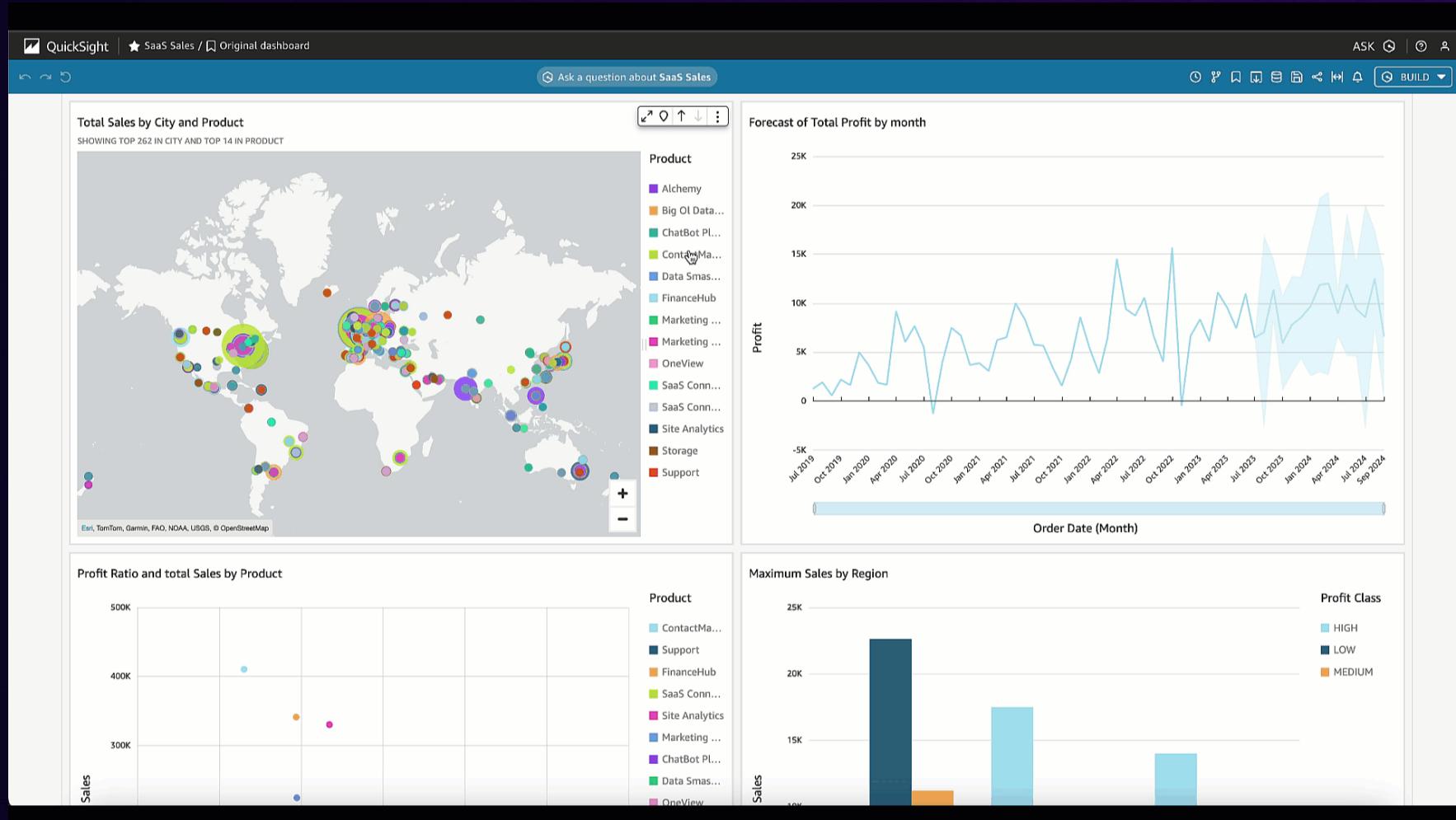
DEEP INSIGHTS AT YOUR FINGERTIPS

Executive summaries

Instantly see key trends and changes in dashboard data

Multi-visual Q&A

Confidently answer questions of data with a multi-visual answers and support for vague questions with "did-you-mean" alternatives



AI-assisted storytelling

IMPACTFUL DATA STORYTELLING TO DRIVE ACTIONS

Data stories

Inform others with data to drive team decisions

Generate stories using AI

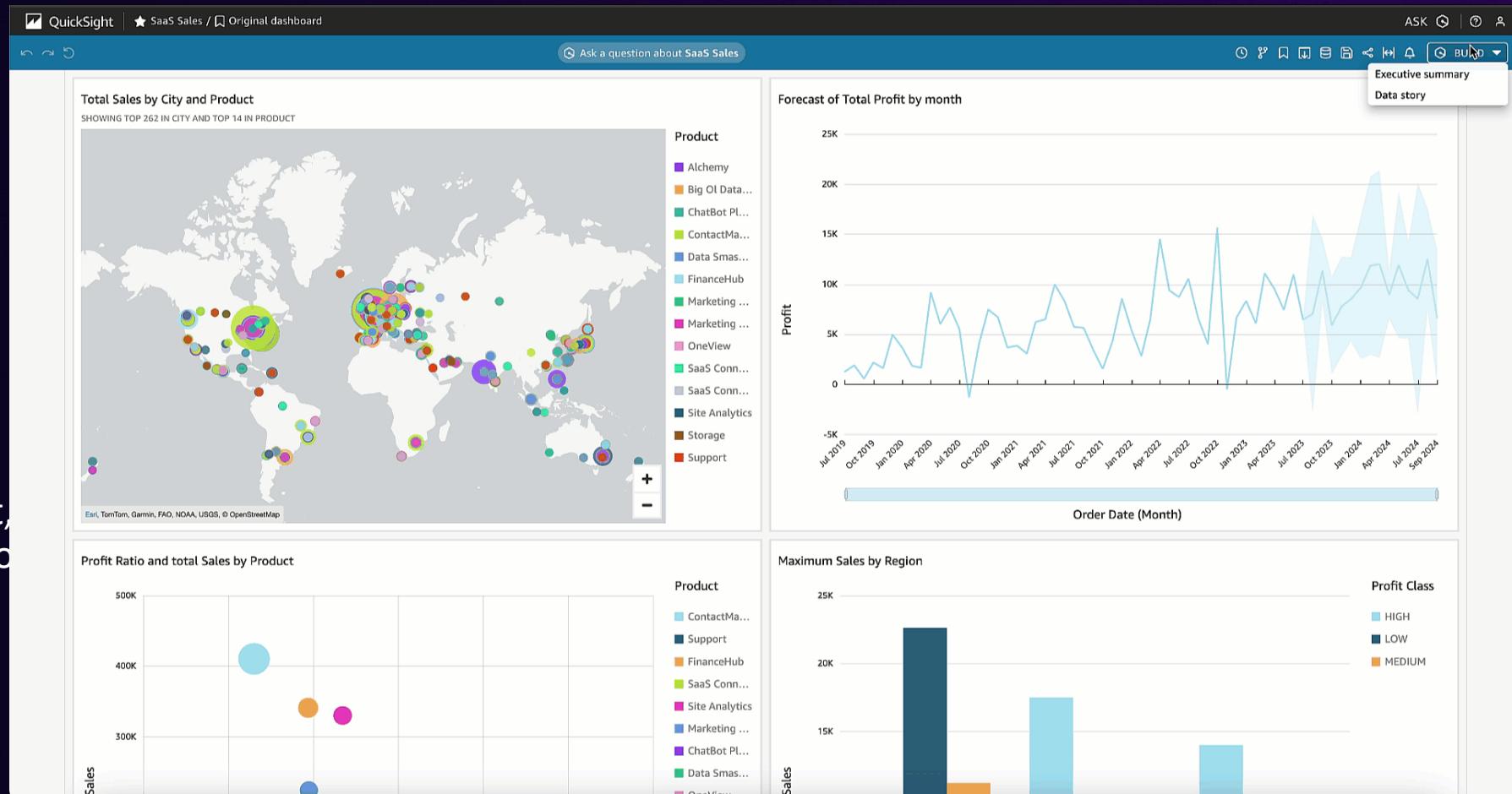
Generate documents and presentations explaining data with simple prompts

Create refined content

Control AI verbosity, customize text, and apply stunning visual themes to bring content to life

Enterprise ready

Reuse existing QuickSight data, governance, and security models



Extend custom apps with AI

QUICKLY ADD GENERATIVE BI CAPABILITIES TO WEB APPS

Easy to integrate

Add generative multi-visual Q&A to existing web apps with a few lines of code

Works with any data

Refine language understanding to optimize specific use cases and data contexts, provide suggested questions to get users started

Seamless experience

Customize size, theme, and interaction to fit your brand

The screenshot shows the Anthology Illuminate web application. At the top, there's a navigation bar with a menu icon, the logo 'Anthology Illuminate', a language selector set to 'English (United States)', a 'What's New' button, and a 'Sign Out' button. Below the header, a large purple banner features the text 'Data for informed educational leadership decisions' and 'Get a clear picture of the activity across the Anthology EdTech platform at your institution.' It also includes the subtext 'Take the right action at the right time.' To the right of the banner is a video player window showing a video titled 'Anthology Illuminate' with a play button and a timestamp of '01:52'. The video content depicts several people working on computers in an office setting. Below the banner are two cards: one on the left showing a person on a mobile device with the text 'Pre-built reports for effective online education strategies' and another on the right showing a person pointing upwards with the text 'A unified data model for your Anthology EdTech environment'. A question mark icon is located in the bottom right corner of the page.

Insights from unstructured data

COMBINE UNSTRUCTURED AND
STRUCTURED DATA FOR DEEPER
INSIGHTS

Answers about your business

Q&A surfaces business documents
relating to answers of questions of data.

The screenshot shows the Amazon Q&A interface for "coffee sales". At the top, there's a navigation bar with "coffee sales" and "PINBOARD". Below it is a purple hexagonal logo with a white letter "Q". The main area has a heading "Ask a question about coffee sales" and a subtitle "Order Date between Jan 2, 2019 and Dec 25, 2024". A search bar contains the placeholder "What are you curious about?". To the right of the search bar is a blue "ASK" button. Below the search bar are two tabs: "Suggested Questions" and "What's in coffee sales". A list of eight suggested questions is displayed in boxes, each with a collapse icon (a triangle inside a circle). The questions are:

- what are the bottom 5 order ids by total quantity with order date f...
- how many unique customer ids by customer name?
- how many order ids by product id?
- how many product ids by order id?
- how many customer ids by city?
- how many distinct cities for every customer id?
- how many unique cities for every order id?
- what are the bottom 5 customer ids by total quantity?

Insights from unstructured data

COMBINE UNSTRUCTURED AND STRUCTURED DATA FOR DEEPER INSIGHTS

Answers about your business

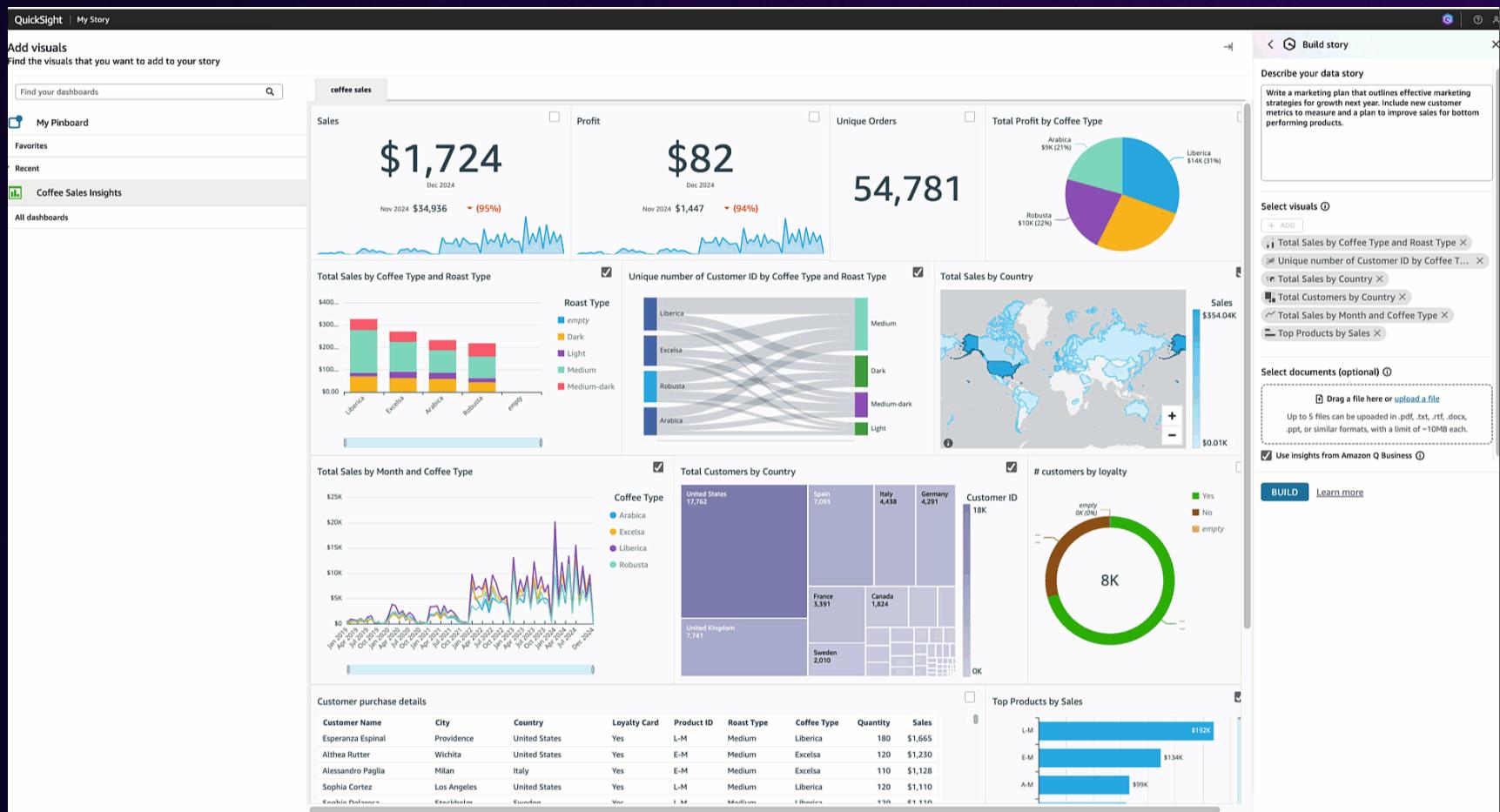
Q&A surfaces business documents relating to answers of questions of data.

Stories about your business

AI generated narratives explain insights and trends in data by drawing from enterprise documents, sites, and wikis.

Add relevant documents

Pick the documents you need and upload to generate your story



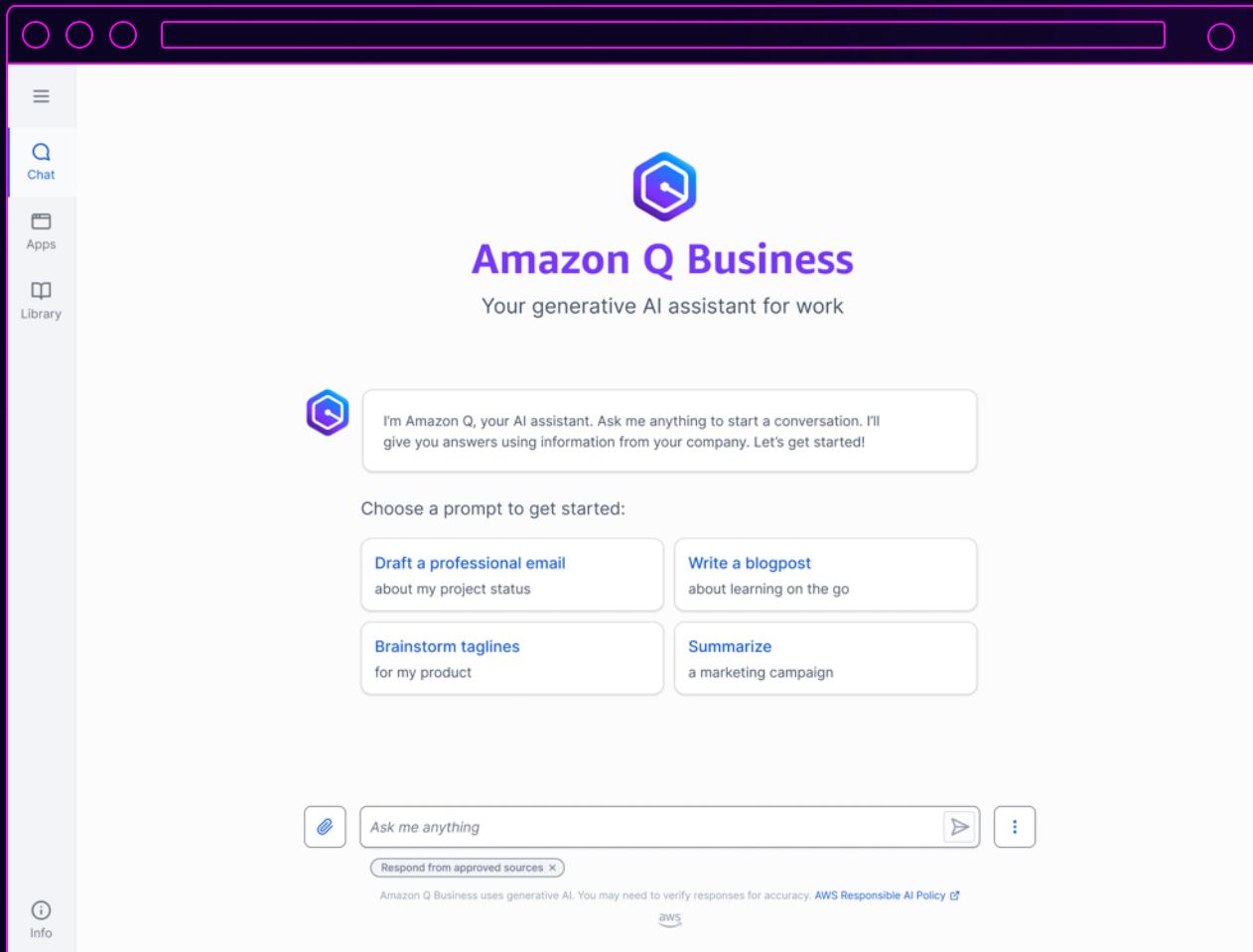
Amazon Q for Business



© 2025, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Q Business overview

BOOST YOUR WORKFORCE PRODUCTIVITY WITH GENERATIVE AI



Connects to **over 40 popular enterprise applications** and document repositories

Delivers quick, accurate, and relevant **answers** to your business questions, securely and privately

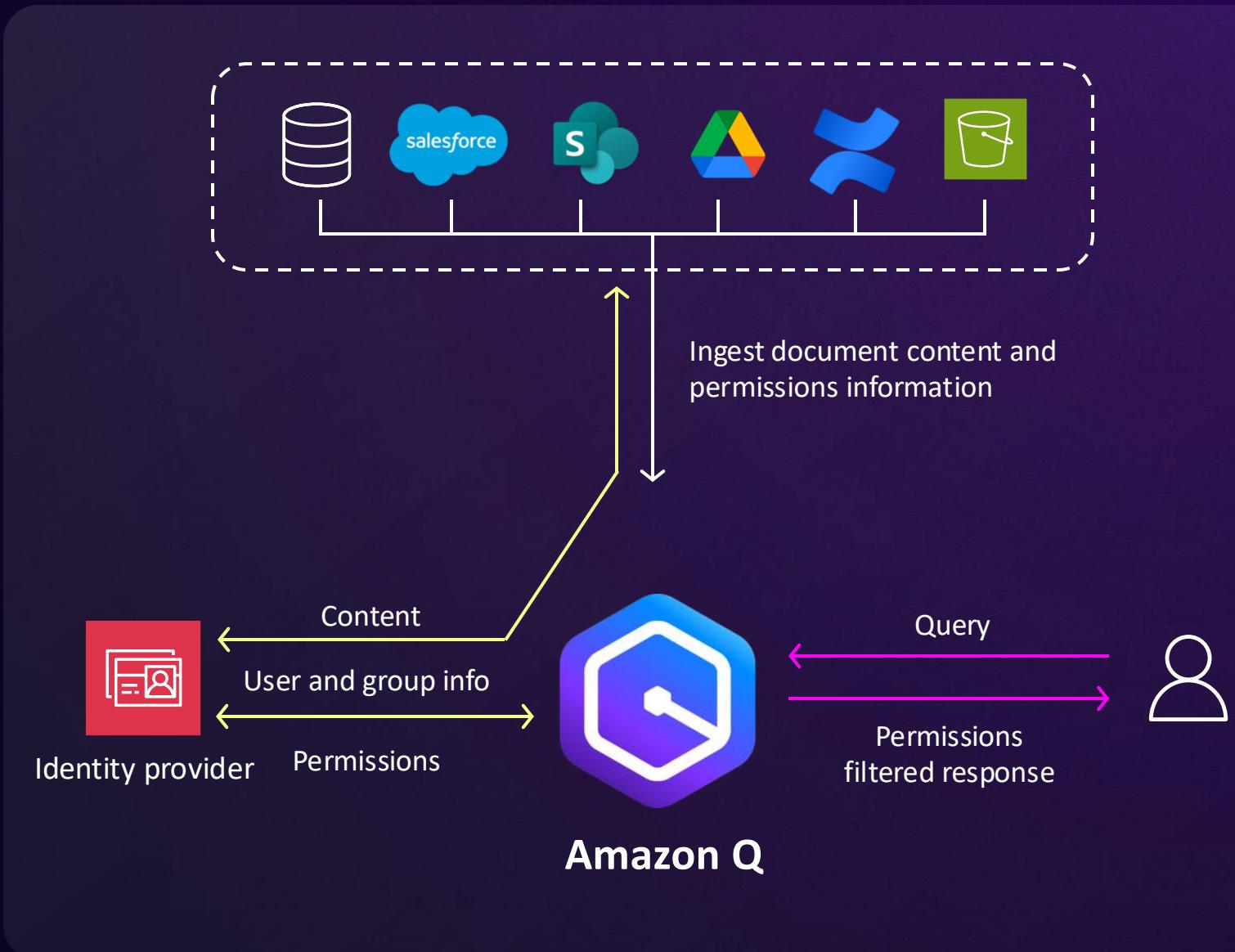
Respects existing **access control** based on user permissions

Allows administrators to easily apply **guardrails** to customize and control responses

Execute **actions** using out-of-the-box or custom plugins

Streamlines **daily tasks** with user-created lightweight applications

Building generative AI experiences with Amazon Q Business





Built-in connectors bring enterprise data

Unify content from all your enterprise sources together in a few clicks!

Adobe Experience Manager

Alfresco

Amazon Simple Storage Service
(Amazon S3)

PREVIEW

Asana

Atlassian Confluence

Amazon Aurora (MySQL-Compatible Edition, PostgreSQL-Compatible Edition)

Box

DB2

Dropbox

Custom Connector

GitHub

Gmail

Google Drive

PREVIEW

Google Calendar

Jira

Microsoft Exchange

Microsoft OneDrive

Microsoft SharePoint

Microsoft Teams

Microsoft Yammer

Microsoft SQL Server

Salesforce

ServiceNow

Slack

NEW

Smartsheet

Web Crawler

Zendesk

Find accurate and referenceable answers



Trusted answers generated from enterprise data



Trusted answers from general knowledge



Source references for fact-checking



Conversation history and context



Tune the relevance of results with index boosting



Control responses using guardrails

Zones that are physically separated within an AWS Region . [1](#) [2](#) The source also states that S3 is resilient to AZ failures and stores data across multiple AZs, resulting in high data durability . [3](#) Additionally, the Resilience Hub assessment shows that S3 does well in terms of resiliency, with the S3 bucket being resilient to AZ failures . [3](#)

Sources [▼](#) [🔗](#)

Tell me more about availability zones

Availability Zones are distinct locations within an AWS Region that are engineered to be isolated from failures in other Availability Zones. [1](#) [2](#) Each Availability Zone provides inexpensive, low-latency network connectivity to other Availability Zones in the same AWS Region. [1](#) [2](#) By launching instances in separate Availability Zones, you can protect your applications from the failure of a single location. [1](#) [2](#) AWS maintains multiple Availability Zones in each Region, and these Availability Zones are physically isolated from each other but united by private, low-latency, high-throughput, and highly redundant network connections. [3](#) [4](#) This enables AWS to provide very high levels of availability and redundancy, while also minimizing latency. [3](#) [4](#)

Sources [▼](#) [👍](#) [👎](#) [🔗](#)

Enter a prompt [▶](#)

Responding from approved sources

Amazon Q Business uses generative AI. You may need to verify responses for accuracy. [AWS Responsible AI Policy](#) [🔗](#)

aws

Find accurate and referenceable answers



Browser Extension

Get answers directly from your web browser and uploaded files!

The screenshot shows the Amazon Q Business interface. On the left, a browser window displays the AWS re:Invent page for Amazon Q. The main content area features the title "Amazon Q – Generative AI Assistant" and a description of the service. On the right, a separate window titled "Amazon Q Business" shows a conversation with the AI assistant. The AI says "Hello!" and provides instructions on how to use it. A sidebar on the right allows users to add files or webpages to the AI's knowledge base.

AWS re:Invent | Tune in for free to get all the biggest AWS updates this year »

Artificial Intelligence > Generative AI > Amazon Q

Amazon Q – Generative AI Assistant

The most capable generative AI-powered assistant for accelerating software development and leveraging companies' internal data

Learn more ▾

Open in the AWS Management Console

Hello!

I'm the Amazon Q AI assistant. I can answer questions based on my general knowledge - just ask or upload a snapshot of the webpage or files to get started.

Add files

- Add current webpage
- Upload from computer

Limit: 5 webpages and/or files (~10MB each)
Format: pdf, txt, rtf, docx, ppt, xlsx, csv, html, xml

Current sources (0)

No sources added

New chat

Usage is subject to [AWS Responsible AI Policy](#).



Safety and security



Use with identity provider of your choice



Integrates with AWS IAM Identity Center for easier management, auditability, and control



Integrated with AWS CloudTrail to record actions taken by a user, role, or AWS service



Restrict responses to enterprise content only



Use AWS PrivateLink to access Amazon Q Business securely in your VPC environment using a VPC endpoint



Support for Federal Information Processing Standard (FIPS) endpoints

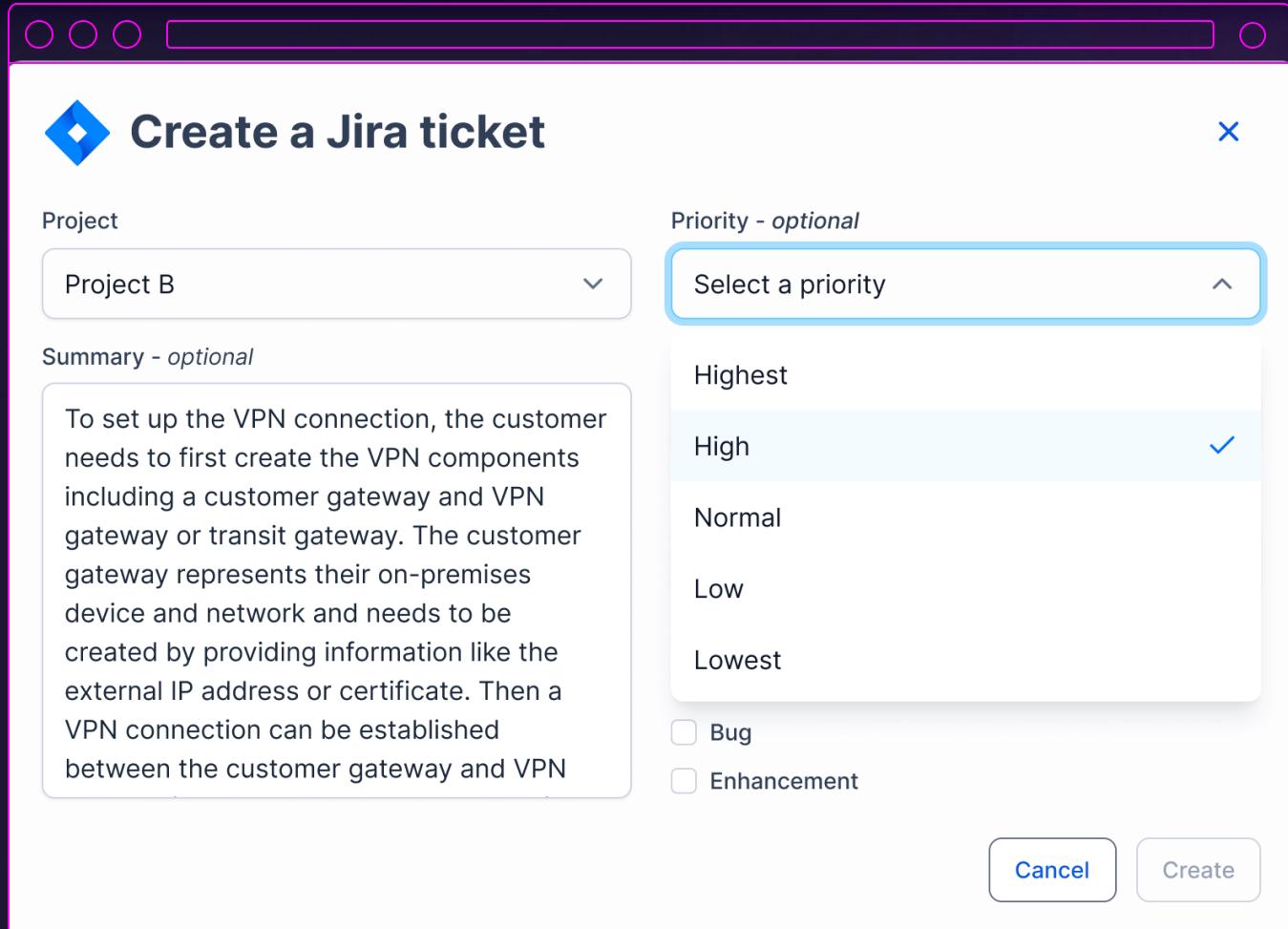


Define special topics and configure guardrails



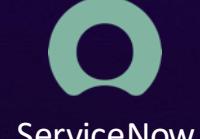
Specify blocked words or phrases that shouldn't appear in responses

Execute actions using plugins

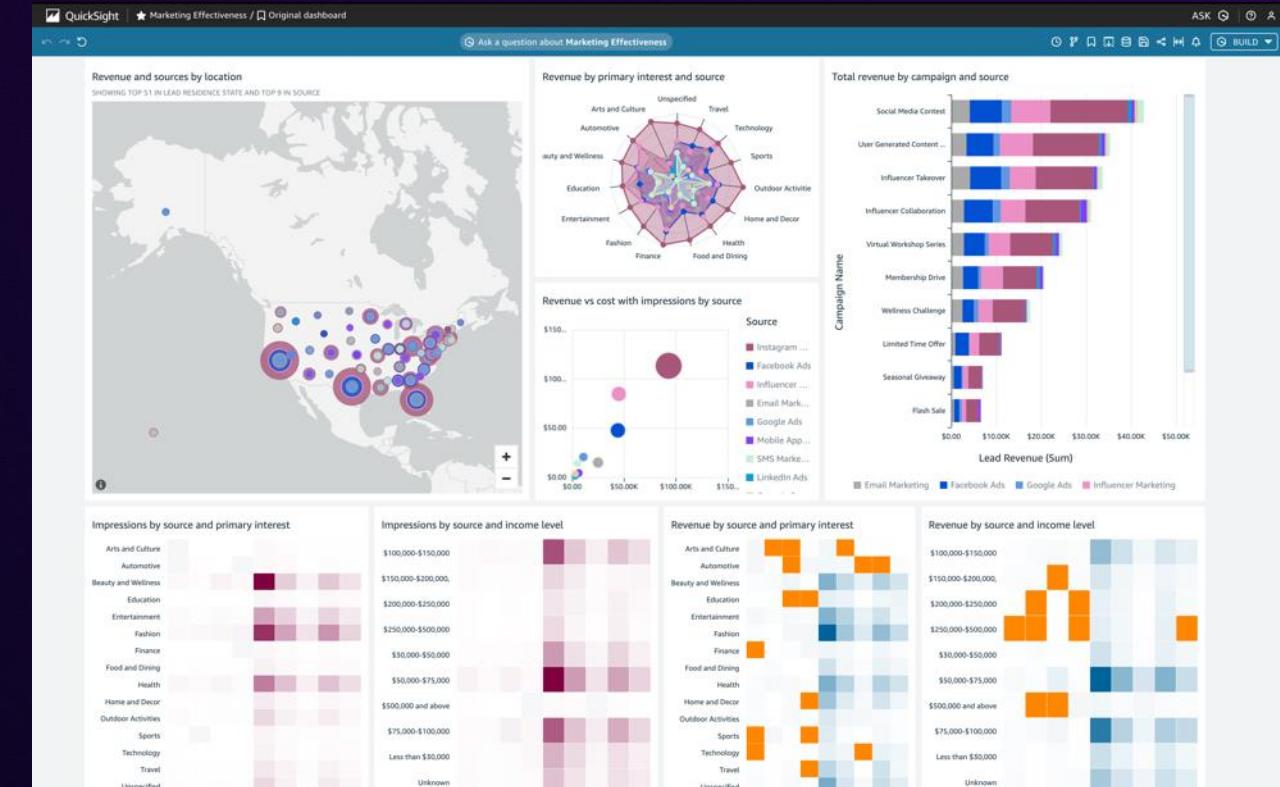
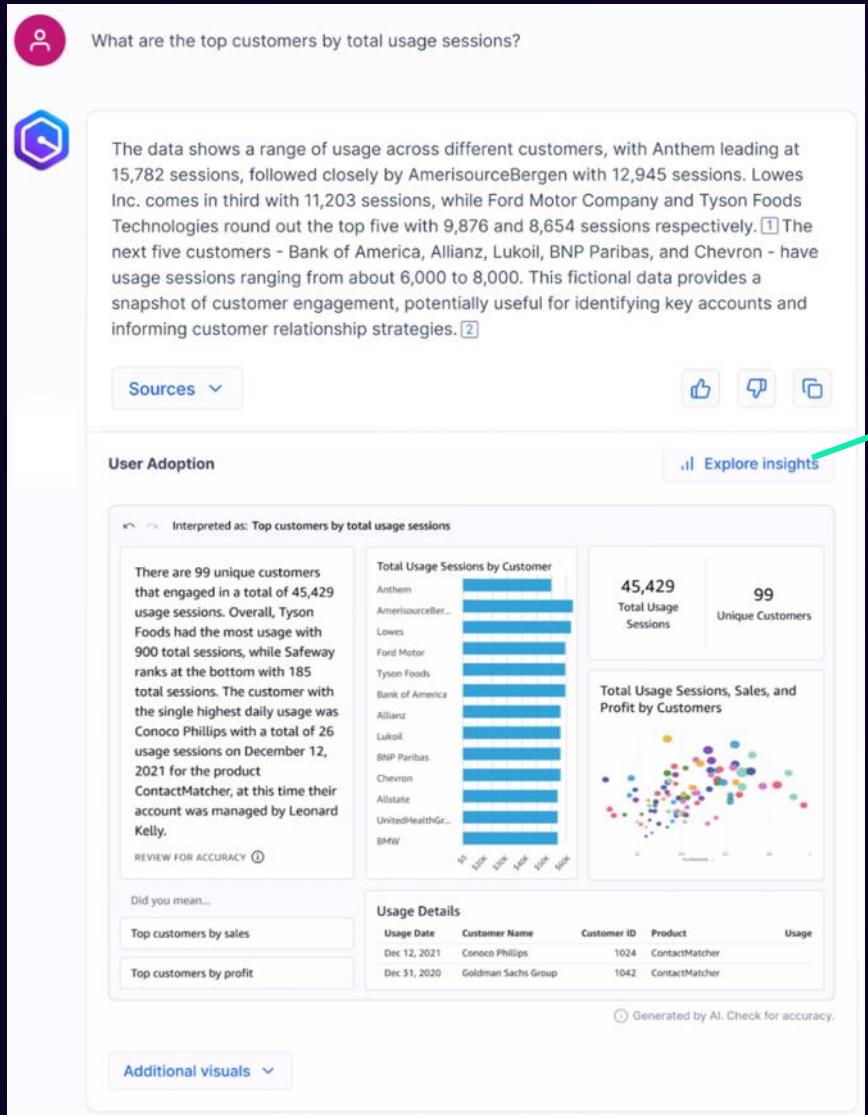


Allow end users to perform actions on SaaS applications

“Summarize conversation and create ticket in Jira”



The end user experience



Key Takeaways

Unified insights across structured and unstructured data

QuickSight

- Q&A
- Data Stories

Q Business

- Single and multi-visualizations from QuickSight
- Deep linking into QuickSight

Highlights

- Embeddable experience + APIs.
- Available to all Q Pro users



Labs

- Environment Setup
- Authoring Experience
- Reader Experience
- Unstructured Insights
- Q & A



<https://ppt.cc/fqH3kx>

[Workshop Studio](#) > [Sign in](#)

Sign in

Choose a preferred sign-in method

Email one-time password (OTP)

Enter your personal or corporate email to receive a one-time password

AWS Builder ID

Login with AWS Builder ID, a new personal profile for builders

Amazon employee

Login with your Amazon Corporate account. Only for Amazon Employees.



[Workshop Studio](#) > [Sign in](#)

Sign in

Choose a preferred sign-in method

Email one-time password (OTP)

Enter your personal or corporate email to receive a one-time password

AWS Builder ID

Login with AWS Builder ID, a new personal profile for builders

Amazon employee

Login with your Amazon Corporate account. Only for Amazon Employees.



One-time email passcode

login.us-east-1.auth.skillbuilder.aws/otp/input/response?redirect_uri=https%3A%2F%2Fgandalf-prod.auth.us-east-1.amazoncognito.com%2Foauth2%2Fidpr...

Incognito

aws training and certification

English

One-time email passcode

Send a passcode to the email below.

Email

Back **Send passcode**

[Get help signing in](#)

Verify one-time email passcode

← → ⌛ ⌂ login.us-east-1.auth.skillbuilder.aws/otp/challenge?redirect_uri=https%3A%2F%2Fgandalf-prod.auth.us-east-1.amazoncognito.com%2Foauth2%2Fidprespo... ☆ Incognito :

aws training and certification

English ▾

One-time email passcode

We sent a passcode to michael.tw.lin@gmail.com. You should receive it within 5 minutes.

Passcode (9-digit) [Resend passcode](#)

529717102

Back

Sign in

[Get help signing in](#)

- Step 1
Enter event access code
- Step 2
Review and join

Review and join

Event details

Name
TCC-Bedrock-Dryrun

Start time
7/27/2024 03:02 PM

Duration
72 hours

Level
300

Description

TCC-Bedrock-Dryrun

Terms and Conditions

Read and accept before joining the event

Read and accept before joining the event:

1. By using AWS Workshop Studio for the relevant event, You agree to [the AWS Event Terms and Conditions](#), the [AWS Responsible AI Policy](#), and the [AWS Acceptable Use Policy](#).
2. If You are under 18 years old, you may participate in the relevant event using AWS Workshop Studio: (a) if You are at least the minimum age below based on the country or region in which You reside, and (b) with the involvement of a parent, guardian, or educator.



Country or region	Minimum age
All countries or regions not listed below (including the United States, Brazil, the United Kingdom, and India)	13
Canada, China, Republic of Korea (South Korea)	14
Australia	15

catalog.us-east-1.prod.workshops.aws/join

aws workshop studio

Philippines, Thailand, Turkey, and countries in Africa

3. You acknowledge and agree that You are using an AWS-owned account that You will only be able to access during the relevant event. You have no ownership rights over this AWS-owned account.

4. During the relevant event, while using this AWS-owned account, You will not use, import, input, or introduce any data, dataset, or other material that contains personal data, financial information, or any other data or materials that may be subject to laws and regulations (such as the General Data Protection Regulation or The Health Insurance Portability and Accountability Act of 1996).

5. If You find residual resources or materials in this AWS-owned account, You will notify your Event Operator immediately.

6. AWS, its affiliates, and any entities or persons acting on AWS's behalf reserves the right to terminate this AWS-owned account and to delete its contents at any time, without any notice to You.

7. During the relevant event, while using this AWS-owned account, You will not process or run any operation on any data other than test datasets or lab materials that have been approved by AWS.

8. You will not copy, import, export or otherwise create derivative works of materials provided by AWS for use outside of the relevant event.

9. AWS, its affiliates, and any entities or persons acting on AWS's behalf have no obligation to enable the transmission of Your materials through AWS Workshop Studio, and may, in their discretion, edit, block, refuse to post, or remove Your materials at any time, without notice to You.

10. If You access and use a service and/or third-party models that have their own terms during the relevant event, while in the AWS-owned account, You agree to review those terms and comply with them during the event.

11. If You are an AWS Partner using AWS Workshop Studio as part of Your participation in the AWS Partner Network Program, Your use of AWS Workshop Studio is governed by these terms, the AWS Partner Network Terms and Conditions, and the AWS Customer Agreement or other agreement with us governing your use of AWS Services.

12. Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

I agree with the Terms and Conditions

Cancel Previous Join event

catalog.us-east-1.prod.workshops.aws/join

aws workshop studio

Philippines, Thailand, Turkey, and countries in Africa

3. You acknowledge and agree that You are using an AWS-owned account that You will only be able to access during the relevant event. You have no ownership rights over this AWS-owned account.

4. During the relevant event, while using this AWS-owned account, You will not use, import, input, or introduce any data, dataset, or other material that contains personal data, financial information, or any other data or materials that may be subject to laws and regulations (such as the General Data Protection Regulation or The Health Insurance Portability and Accountability Act of 1996).

5. If You find residual resources or materials in this AWS-owned account, You will notify your Event Operator immediately.

6. AWS, its affiliates, and any entities or persons acting on AWS's behalf reserves the right to terminate this AWS-owned account and to delete its contents at any time, without any notice to You.

7. During the relevant event, while using this AWS-owned account, You will not process or run any operation on any data other than test datasets or lab materials that have been approved by AWS.

8. You will not copy, import, export or otherwise create derivative works of materials provided by AWS for use outside of the relevant event.

9. AWS, its affiliates, and any entities or persons acting on AWS's behalf have no obligation to enable the transmission of Your materials through AWS Workshop Studio, and may, in their discretion, edit, block, refuse to post, or remove Your materials at any time, without notice to You.

10. If You access and use a service and/or third-party models that have their own terms during the relevant event, while in the AWS-owned account, You agree to review those terms and comply with them during the event.

11. If You are an AWS Partner using AWS Workshop Studio as part of Your participation in the AWS Partner Network Program, Your use of AWS Workshop Studio is governed by these terms, the AWS Partner Network Terms and Conditions, and the AWS Customer Agreement or other agreement with us governing your use of AWS Services.

12. Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

 I agree with the Terms and Conditions

Cancel Previous Join event



Philippines, Thailand, Turkey, and countries in Africa

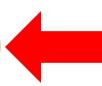
3. You acknowledge and agree that You are using an AWS-owned account that You will only be able to access during the relevant event. You have no ownership rights over this AWS-owned account.
4. During the relevant event, while using this AWS-owned account, You will not use, import, input, or introduce any data, dataset, or other material that contains personal data, financial information, or any other data or materials that may be subject to laws and regulations (such as the General Data Protection Regulation or The Health Insurance Portability and Accountability Act of 1996).
5. If You find residual resources or materials in this AWS-owned account, You will notify your Event Operator immediately.
6. AWS, its affiliates, and any entities or persons acting on AWS's behalf reserves the right to terminate this AWS-owned account and to delete its contents at any time, without any notice to You.
7. During the relevant event, while using this AWS-owned account, You will not process or run any operation on any data other than test datasets or lab materials that have been approved by AWS.
8. You will not copy, import, export or otherwise create derivative works of materials provided by AWS for use outside of the relevant event.
9. AWS, its affiliates, and any entities or persons acting on AWS's behalf have no obligation to enable the transmission of Your materials through AWS Workshop Studio, and may, in their discretion, edit, block, refuse to post, or remove Your materials at any time, without notice to You.
10. If You access and use a service and/or third-party models that have their own terms during the relevant event, while in the AWS-owned account, You agree to review those terms and comply with them during the event.
11. If You are an AWS Partner using AWS Workshop Studio as part of Your participation in the AWS Partner Network Program, Your use of AWS Workshop Studio is governed by these terms, the AWS Partner Network Terms and Conditions, and the AWS Customer Agreement or other agreement with us governing your use of AWS Services.
12. Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

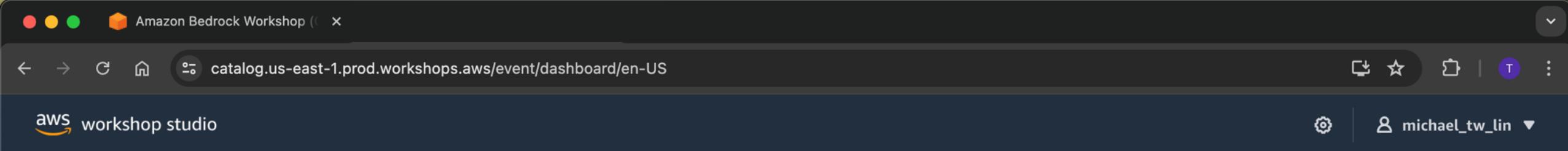
 I agree with the Terms and Conditions

Cancel

Previous

Join event





[Event dashboard](#) > **Bedrock and Claude Deep Dive Workshop**

TCC-Bedrock-Dryrun

Event information

Start time

7/27/2024 03:02 PM

Duration

72 hours

Accessible regions

us-west-2, us-east-1

Description

TCC-Bedrock-Dryrun

Workshop

[Get started >](#)**Title**

Bedrock and Claude Deep Dive Workshop

Complexity level

300

AWS services

Amazon Bedrock

Topics

Generative AI

Description

Showcase Bedrock and Claude 3 functionality with scenarios like Multimodal, Tool Use, Knowledge base, ChatBot, RAG, Agent and Guardrails.

Event Outputs (0)

Amazon Bedrock Workshop

us-west-2.console.aws.amazon.com/console/home?region=us-west-2

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Console Home

Recently visited

- Support
- Service Quotas
- EC2
- IAM
- Amazon SageMaker
- Billing and Cost Management
- Amazon OpenSearch Service

Cloud9

API Gateway

Elastic Beanstalk

S3

Amazon Bedrock

Applications (0)

Region: US West (Oregon)

us-west-2 (Current Region) Find applications

Name Description Region Originating account

No applications

Get started by creating an application.

Create application

View all services

Go to myApplications

Welcome to AWS

Getting started with AWS

AWS Health

Open issues

Cost and usage

Current month costs Cost (\$)

AmazonQ-dryrun-
20250318[Event dashboard](#) > [Authoring experience](#)

Authoring experience

The latest advancements in generative artificial intelligence (AI) and the use of large language models (LLMs) has opened a new world of possibilities for organizations. With Amazon Q in QuickSight, authors can now use new generative BI capabilities to build visuals, build calculated fields, and refine visuals. To learn more about [Amazon Q in QuickSight](#)

In this module, you will learn how to:

1. Create and refine visuals in seconds using natural language and
2. Create calculations without needing to know any syntax

At the end of this module, you will have created a beautiful dashboard as shown below.



Services



QuickSight

Fast, easy to use business analytics



Set to default layout

+ Add widgets

Cor

Services

Features

Resources New

Documentation

Knowledge articles

Marketplace

Blog posts

Events

Tutorials

Features

Data Exports

- Billing and Cost Management feature

Resources / for a focused search

Introducing resource search

Enable to show cross-region resources for your account in search results. Takes less than 5 minutes to set up.

[Go to Resource Explorer](#)



Documentation

Show more

[Signing in to Amazon QuickSight](#)

User Guide

Applications



[Amazon QuickSight](#)

Administration Guide

Cost (\$)

300

200

100



Were these results helpful?

Yes

No



get the most out of AWS.

0

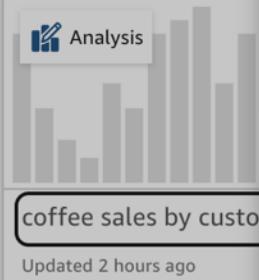
Upcoming and past 7 days

\$0.08



Find analyses & more 

Analyses



Favorites

Recent

My folders

Shared folders

Dashboards

Data stories

Scenarios

Beta

Analyses

Datasets

Community

Topics

Welcome to QuickSight

x

Amazon QuickSight lets you easily visualize and analyze your data.



Next

Last updated (newest first) 



New analysis



Find analyses & more

Datasets

New dataset

Favorites

Recent

My folders

Shared folders

Dashboards

Data stories

Scenarios Beta

Analyses

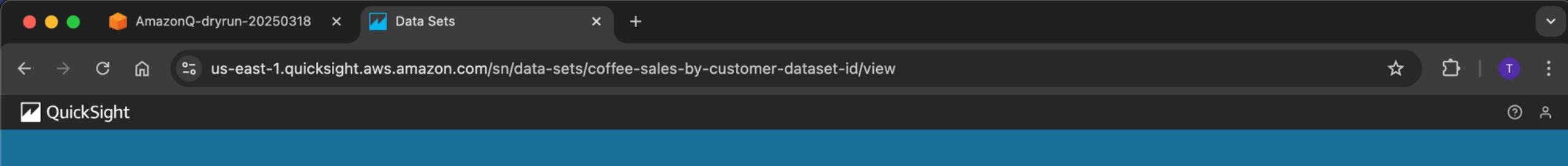
Datasets

Community

Topics

Name	Owner	Last Modified	More
coffee sales dataset SPICE	Me	5 hours ago	





< Datasets

coffee sales dataset

Summary

Refresh

Permissions

Usage

DELETE DATASET

EDIT DATASET

USE IN ANALYSIS

About

SPICE

Size: 19.6MB

REFRESH

✓ Status Completed 55213 rows imported (100% success)

⌚ Last successful refresh March 18, 2025 at 11:41 AM GMT+8

Sources

coffee sales datasource

Usage

Analyses (1)

Dashboards (1)

Datasets (0)

ACCESS SETTINGS

Sharing

Owners (1) Viewers (0)

Row-level security

= No restrictions [Set up](#)

Column-level security

|| No restrictions [Set up](#)

SCHEMA

Unique key [Learn more](#)

Disabled

us-east-1.quicksight.aws.amazon.com/sn/data-sets/coffee-sales-by-customer-dataset-id/prepare

QuickSight

+ ADD ✓ coffee sales dataset

Fields All fields included +

Search fields

Focus All fields

Select All | None

- Customer ID
- Customer Name
- City
- Country
- Loyalty Card
- Order ID
- Order Date
- Product ID
- Coffee Type
- Roast Type

Size

Unit Price

Price per 100g

Profit

Quantity

Sales

Excluded fields No fields excluded

Query mode SPICE Refresh now

Data

coffee-sales-by-cus...

Auto-preview

Add data

Zoom 100%

Dataset

Customer ID	Customer ...	City	Country	Loyalty Card	Order ID	Order Date	Product ID	Coffee Type	Roast Type	Size
989d35ec	Laurel A. De...	Denver	United States	Yes	989d35ec-0...	2019-08-10...	A-MD	Arabica	Medium-dark	0.5
989d35ec	Laurel A. De...	Denver	United States	Yes	989d35ec-0...	2020-02-15...	A-MD	Arabica	Medium-dark	0.5
989d35ec	Laurel A. De...	Denver	United States	Yes	989d35ec-0...	2021-05-20...	A-MD	Arabica	Medium-dark	0.5
791b9e86	Tyrese Mccray	Stockton	United States	Yes	791b9e86-0...	2020-05-05...	R-M	Robusta	Medium	0.5
791b9e86	Tyrese Mccray	Stockton	United States	Yes	791b9e86-0...	2021-01-05...	R-M	Robusta	Medium	0.5
791b9e86	Tyrese Mccray	Stockton	United States	Yes	791b9e86-0...	2022-09-05...	R-M	Robusta	Medium	0.5

us-east-1.quicksight.aws.amazon.com/sn/data-sets/coffee-sales-by-customer-dataset-id/prepare

QuickSight

+ ADD coffee sales dataset

Fields All fields included

Search fields

Focus All fields

Select All | None

- Customer ID
- Customer Name
- City
- Country
- Loyalty Card
- Order ID
- Order Date
- Product ID
- Coffee Type
- Roast Type
- # Size
- # Unit Price
- # Price per 100g
- # Profit
- # Quantity
- # Sales

Excluded fields No fields excluded

Query mode Refresh now

Data

coffee-sales-by-cus...

Auto-preview

Add data

Zoom 100%

Dataset

Order Date	Product ID	Coffee Type	Roast Type	Size	Unit Price	Price per 1...	Profit	Quantity	Sales
2019-08-10...	A-MD	Arabica	Medium-dark	0.5	8.5	1.7	0.765	2	17.0
2020-02-15...	A-MD	Arabica	Medium-dark	0.5	8.5	1.7	0.765	1	8.5
2021-05-20...	A-MD	Arabica	Medium-dark	0.5	8.5	1.7	0.765	3	25.5
2020-05-05...	R-M	Robusta	Medium	0.5	6.75	1.35	0.6075	2	13.5
2021-01-05...	R-M	Robusta	Medium	0.5	6.75	1.35	0.6075	1	6.75
2022-09-05...	R-M	Robusta	Medium	0.5	6.75	1.35	0.6075	3	20.25

Feedback

AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

- ▶ Initial setup
- ▼ Authoring experience
 - [Build & refine visuals using natural language](#)
 - Create calculations using natural language

- ▶ Reader experience
- Scenarios
- ▶ Unstructured insights

- ▼ AWS account access
 - [Open AWS console \(us-east-1\)](#)
 - [Get AWS CLI credentials](#)

Exit event



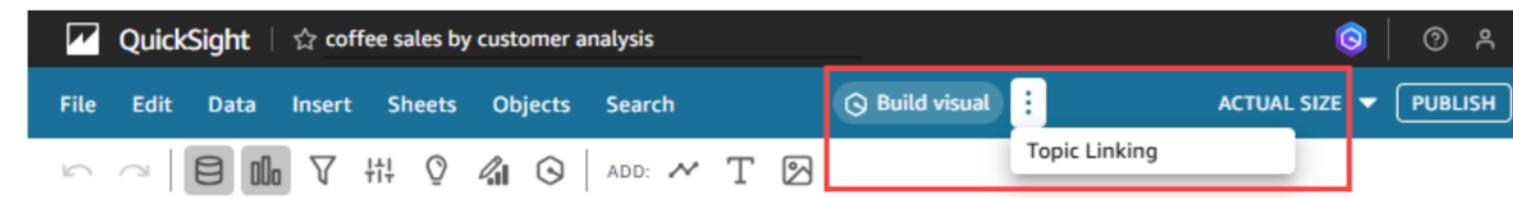
Build & refine visuals using natural language

Note: If you are using event account, select **coffee sales by customer analysis**, you will find two sheets: **workshop** sheet for the hands-on workshop session and **coffee sales** sheet for reference.

A Topic is a collection of one or more datasets that represent a subject matter such as Sales, Media or Marketing about which questions can be asked. Learn more about how to make topics natural language friendly [here](#)

Let's link the Q Topic with **coffee sales analysis**.

- Open **coffee sales by customer analysis**
- Click **ellipsis** next to **Build visual** on top pane
- Click **Topic Linking**



- **Toggle on** - Link topic for Build Visual and Q&A
- Select **coffee sales** from **Topic** list dropdown
- Click **APPLY CHANGES**

Topic linking



QuickSight

Analyses

Last updated (newest first)

New analysis

Favorites

Recent

My folders

Shared folders

Dashboards

Data stories

Scenarios Beta

Analyses Beta

Datasets

Community

Topics



QuickSight

Find analyses & more

Analyses

Last updated (newest first) New analysis

Favorites

Recent

My folders

Shared folders

Dashboards

Data stories

Scenarios

Analyses

Datasets

Community

Topics

coffee sales by customer

Updated 2 hours ago



us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE PUBLISH

Data Visuals

workshop coffee sales +

Select or add a visual

SPICE coffee sales dataset

City Coffee Type Country Customer ID Customer Name Loyalty Card Order Date Order ID Price per 100g Product ID Profit Quantity Roast Type Sales Size Unit Price

Calculated Field

Feedback

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... Manage Q&A Preview dashboard experience

ACTUAL SIZE PUBLISH

Data Visuals

workshop coffee sales +

Select or add a visual

SPICE coffee sales dataset

City Coffee Type Country Customer ID Customer Name Loyalty Card Order Date Order ID Price per 100g Product ID Profit Quantity Roast Type Sales Size Unit Price

Manage Q&A

Preview dashboard experience

City

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data Visuals

Dataset: SPICE coffee sales dataset 100%
Search fields + CALCULATED FIELD
City, Coffee Type, Country, Customer ID, Customer Name, Loyalty Card, Order Date, Order ID, Price per 100g, Product ID, Profit, Quantity, Roast Type, Sales, Size, Unit Price

Visuals

+ ADD ▾ BUILD

Select or add a visual

Manage Q&A

Manage which datasets are enabled for Q&A, or link an existing topic instead.

Use datasets for Build visual and Q&A

Use a linked topic for Build visual and Q&A

Search topics coffee sales

coffee sales

Create Topic

APPLY CHANGES

A red arrow points to the "coffee sales" topic in the search results list.

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data Visuals ADD: T

Manage Q&A

Manage which datasets are enabled for Q&A, or link an existing topic instead.

Use datasets for Build visual and Q&A

Use a linked topic for Build visual and Q&A

coffee sales

Dataset(s): coffee sales dataset

SHARE TOPIC

APPLY CHANGES

A red arrow points to the "APPLY CHANGES" button.

SPICE coffee sales dataset

City
Coffee Type
Country
Customer ID
Customer Name
Loyalty Card
Order Date
Order ID
Price per 100g
Product ID
Profit
Quantity
Roast Type
Sales
Size
Unit Price

Select or add a visual

Icon: Chat

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual :

ACTUAL SIZE PUBLISH

Data Visuals workshop coffee sales +

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Select or add a visual

coffee sales is successfully linked. Review the topic or start asking questions in Q bar.

REVIEW TOPIC

?

...

...

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

ACTUAL SIZE ▾ PUBLISH

Build visual

Data

Dataset: SPICE coffee sales dataset (100%)

Search fields

+ CALCULATED FIELD

City, Coffee Type, Country, Customer ID, Customer Name, Loyalty Card, Order Date, Order ID, Price per 100g, Product ID, Profit, Quantity, Roast Type, Sales, Size, Unit Price

Visuals

workshop coffee sales +

+ ADD ▾ BUILD

Select or add a visual

Bar chart icon

Red arrow pointing to the "Build visual" button in the top right corner of the interface.

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

Build visual

ACTUAL SIZE ▾ PUBLISH



Data

Dataset 100%

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals

+ ADD ▾

BUILD

Select or add a visual



workshop coffee sales +

+ ADD

BUILD



Build a visual

Order Date between Jan 2, 2019 and Dec 25, 2024

What data do you want to visualize

BUILD



catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

michael_tw_lin

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

Initial setup

Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

Reader experience

Scenarios

Unstructured insights

AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

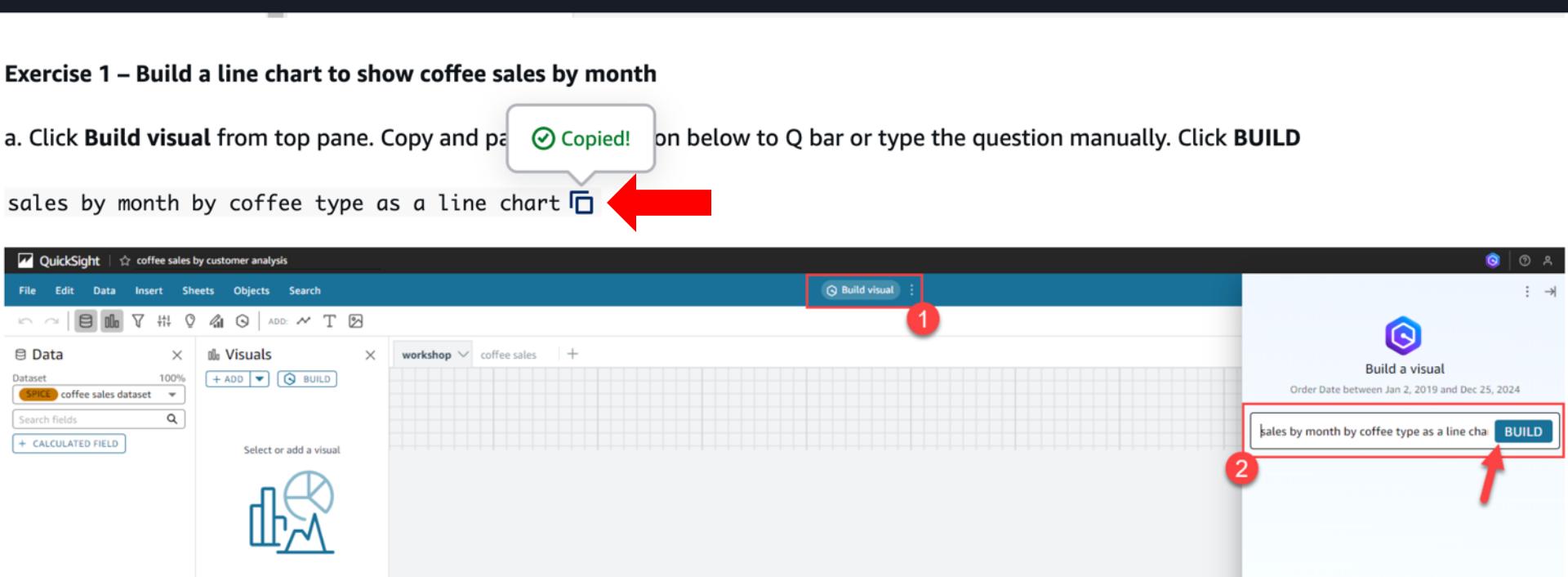
Exit event

Exercise 1 – Build a line chart to show coffee sales by month

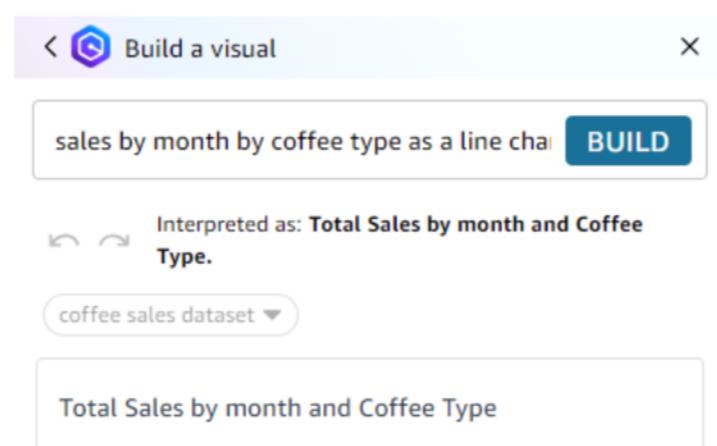
a. Click **Build visual** from top pane. Copy and paste the question below to Q bar or type the question manually. Click **BUILD**

Copied!

sales by month by coffee type as a line chart



b. Click **ADD TO ANALYSIS** button below the new line chart generated.



QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

Build visual

ACTUAL SIZE ▾ PUBLISH



Data

Dataset 100%

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals

+ ADD ▾

BUILD

Select or add a visual



workshop coffee sales +

+ ADD

BUILD



Build a visual

Order Date between Jan 2, 2019 and Dec 25, 2024

sales by month by coffee type as a line chart

BUILD



QuickSight | coffee sales by customer analysis



File Edit Data Insert Sheets Objects Search

Build visual

ACTUAL SIZE ▾ PUBLISH



Build a visual



Data

Dataset 100%

SPICE coffee sales dataset

Search fields



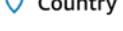
+ CALCULATED FIELD



City



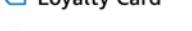
Coffee Type



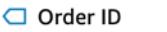
Country



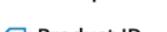
Customer ID



Customer Name



Loyalty Card



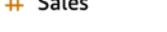
Order Date



Order ID



Price per 100g



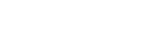
Product ID



Profit



Quantity



Roast Type



Sales



Size



Unit Price

Visuals

+ ADD ▾

BUILD

Select or add a visual



workshop coffee sales +

+ ADD



BUILD

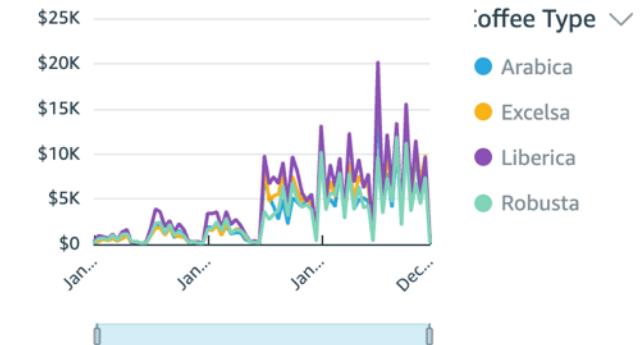
sales by month by coffee type as a line chart

BUILD

Interpreted as: Total Sales by month and Coffee Type.

coffee sales dataset ▾

Total Sales by month and Coffee Type



ADD TO ANALYSIS



us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE PUBLISH

Data Visuals workshop coffee sales +

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals Select or add a visual

workshop coffee sales +

+ ADD BUILD

sales by month by coffee type as a line chart BUILD

Interpreted as: Total Sales by month and Coffee Type.

coffee sales dataset

Total Sales by month and Coffee Type

Arabica

Excelsa

Liberica

Robusta

\$25K

\$20K

\$15K

\$10K

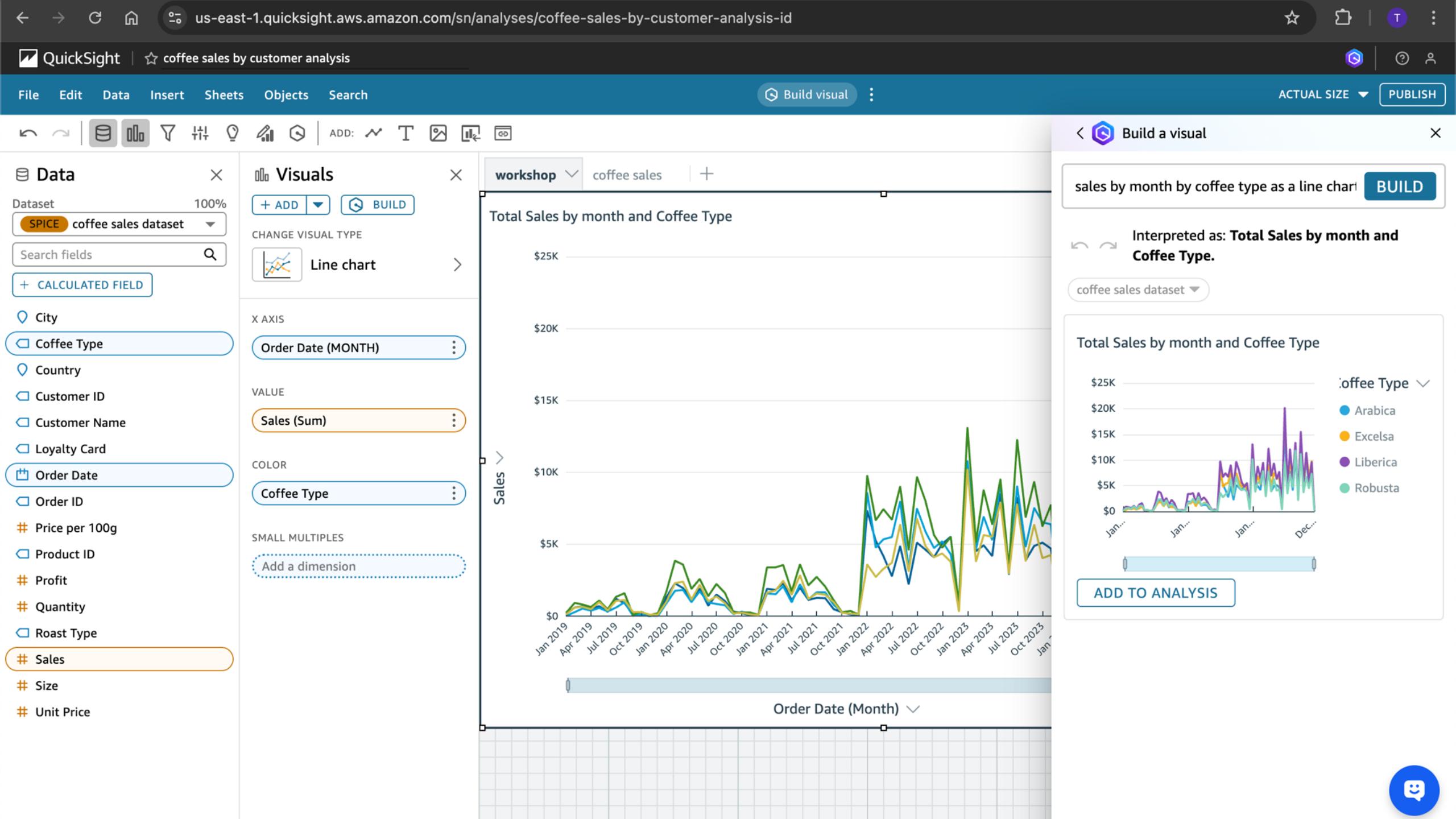
\$5K

\$0

Jan... Jan... Jan... Dec...

ADD TO ANALYSIS

A screenshot of the Amazon QuickSight interface. The top navigation bar includes File, Edit, Data, Insert, Sheets, Objects, Search, Build visual, and Publish. The main workspace shows three panels: 'Data' (with a dataset named 'SPICE coffee sales dataset'), 'Visuals' (with a placeholder for a new visual), and 'workshop coffee sales'. The 'workshop' panel contains a line chart titled 'Total Sales by month and Coffee Type' showing sales for four coffee types over a year. A red arrow points to the 'ADD TO ANALYSIS' button at the bottom of this panel.



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

► Initial setup

▼ Authoring experience

[Build & refine visuals using natural language](#)

Create calculations using natural language

► Reader experience

Scenarios

► Unstructured insights

▼ AWS account access

[Open AWS console \(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

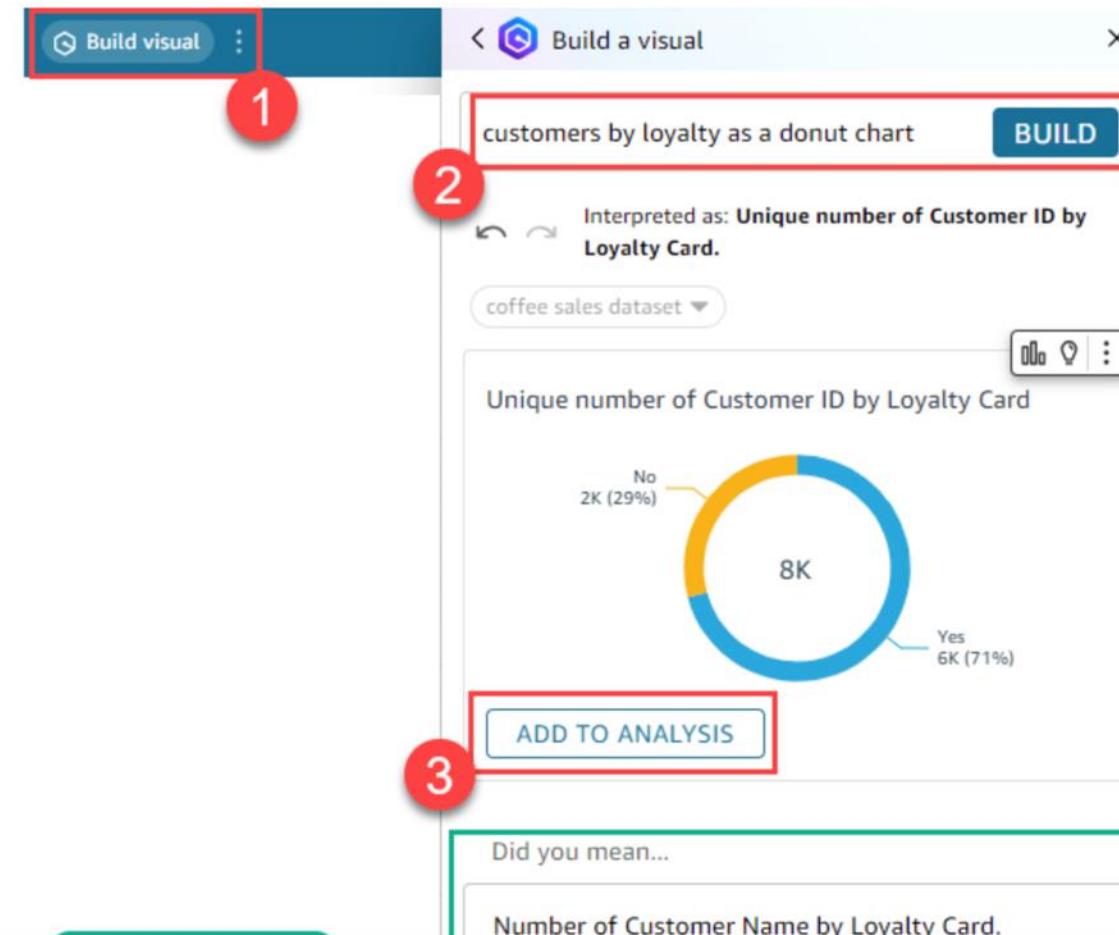
Exercise 2 – Build a donut chart to find customers who are loyal

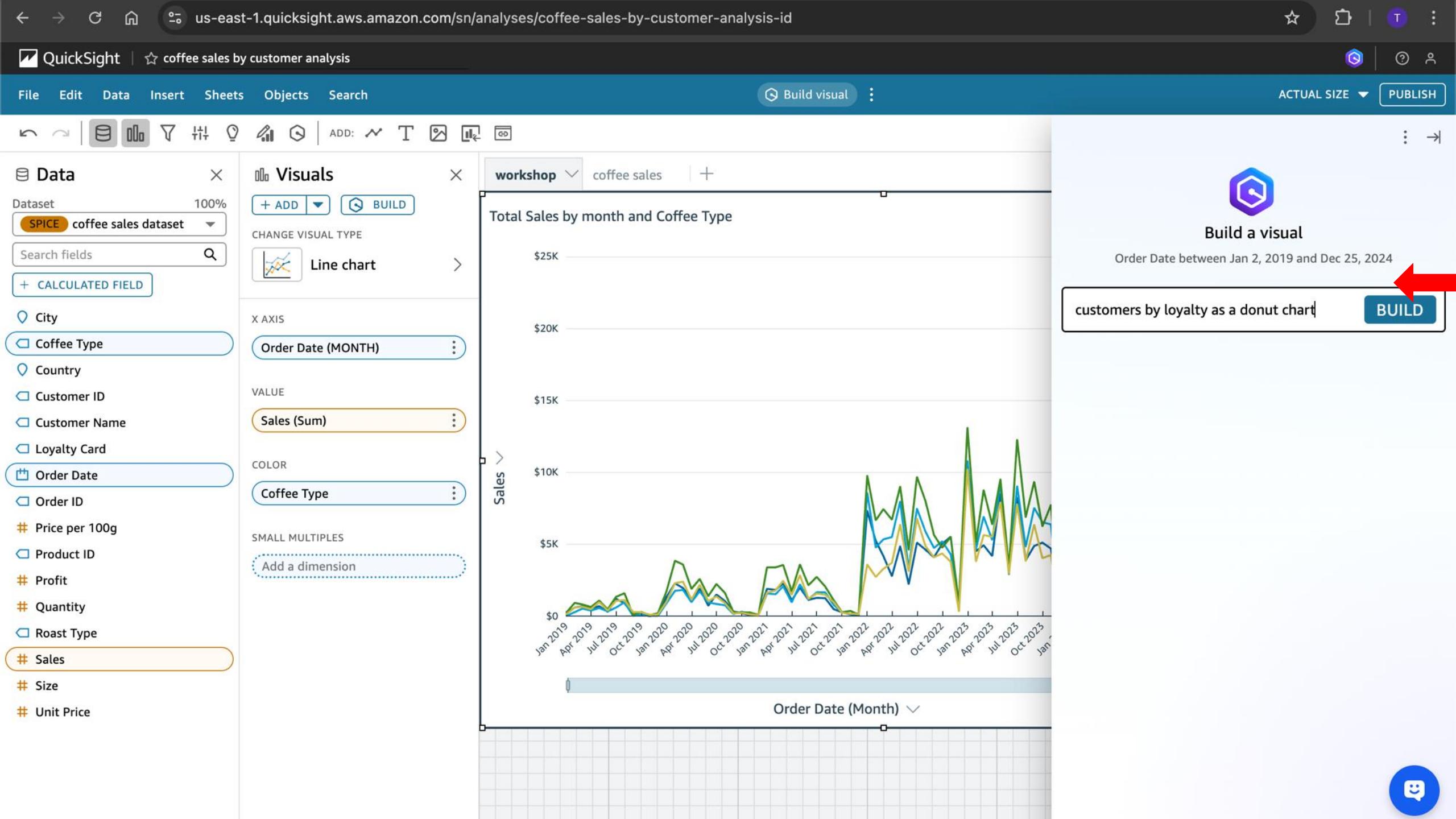
a. Click Build visual

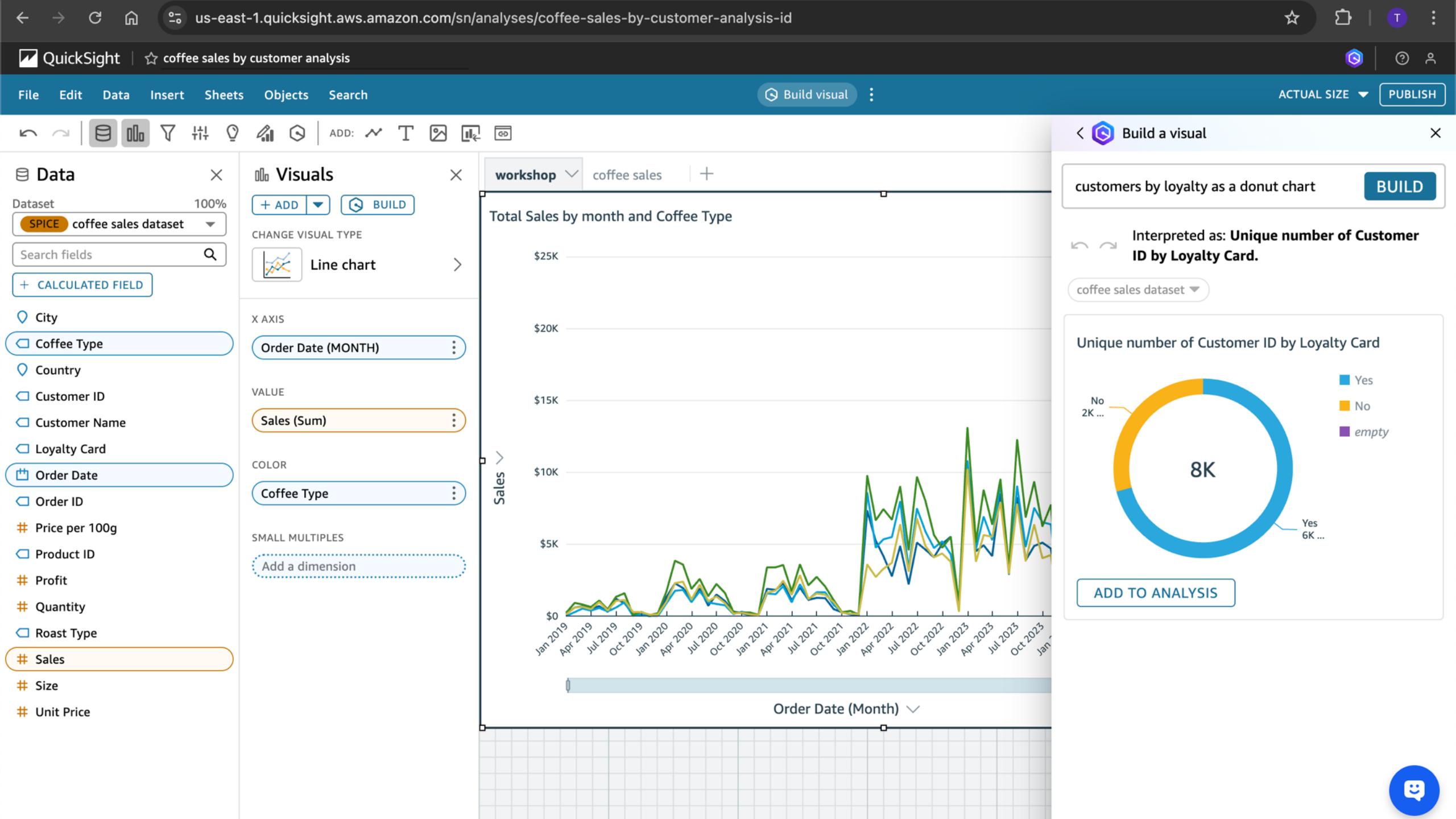
Copied!

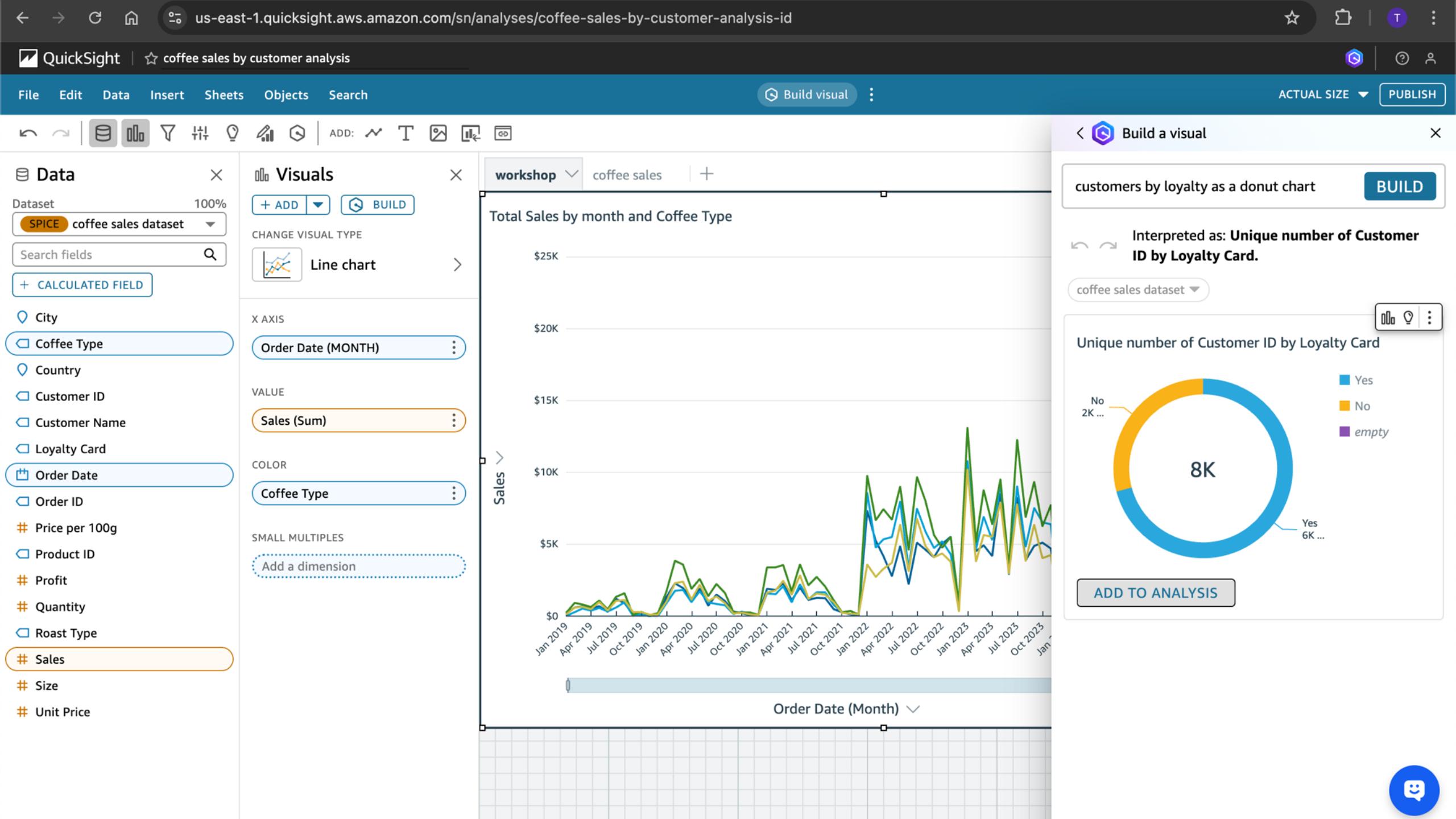
b. Enter prompt customers by loyalty as a donut chart and click BUILD

c. Click ADD TO ANALYSIS









catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

AmazonQ-dryrun-20250318 < (i)

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

- Build & refine visuals using natural language 1
- Create calculations using natural language

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

- Open AWS console (us-east-1) 1
- Get AWS CLI credentials

Exit event

Exercise 3 – Build a KPI visual to get unique number of orders

a. Click Build visual

b. Enter prompt `unique number of orders as a kpi chart` 1 and click **BUILD**

c. Click **ADD TO ANALYSIS**

Build a visual

unique number of orders as a kpi chart 1 **BUILD**

Interpreted as: Unique number of Order ID.

coffee sales dataset

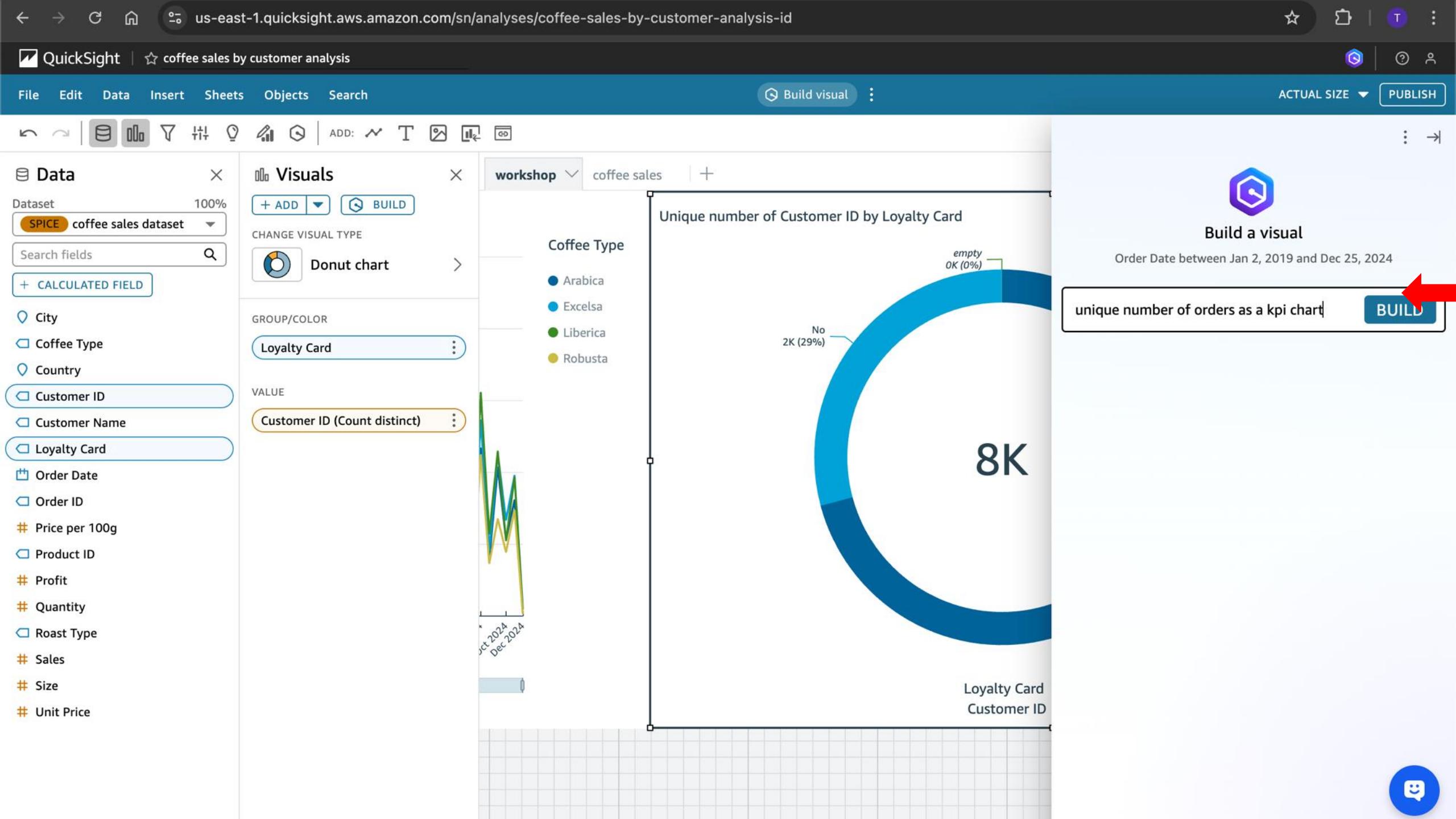
Unique number of Order ID

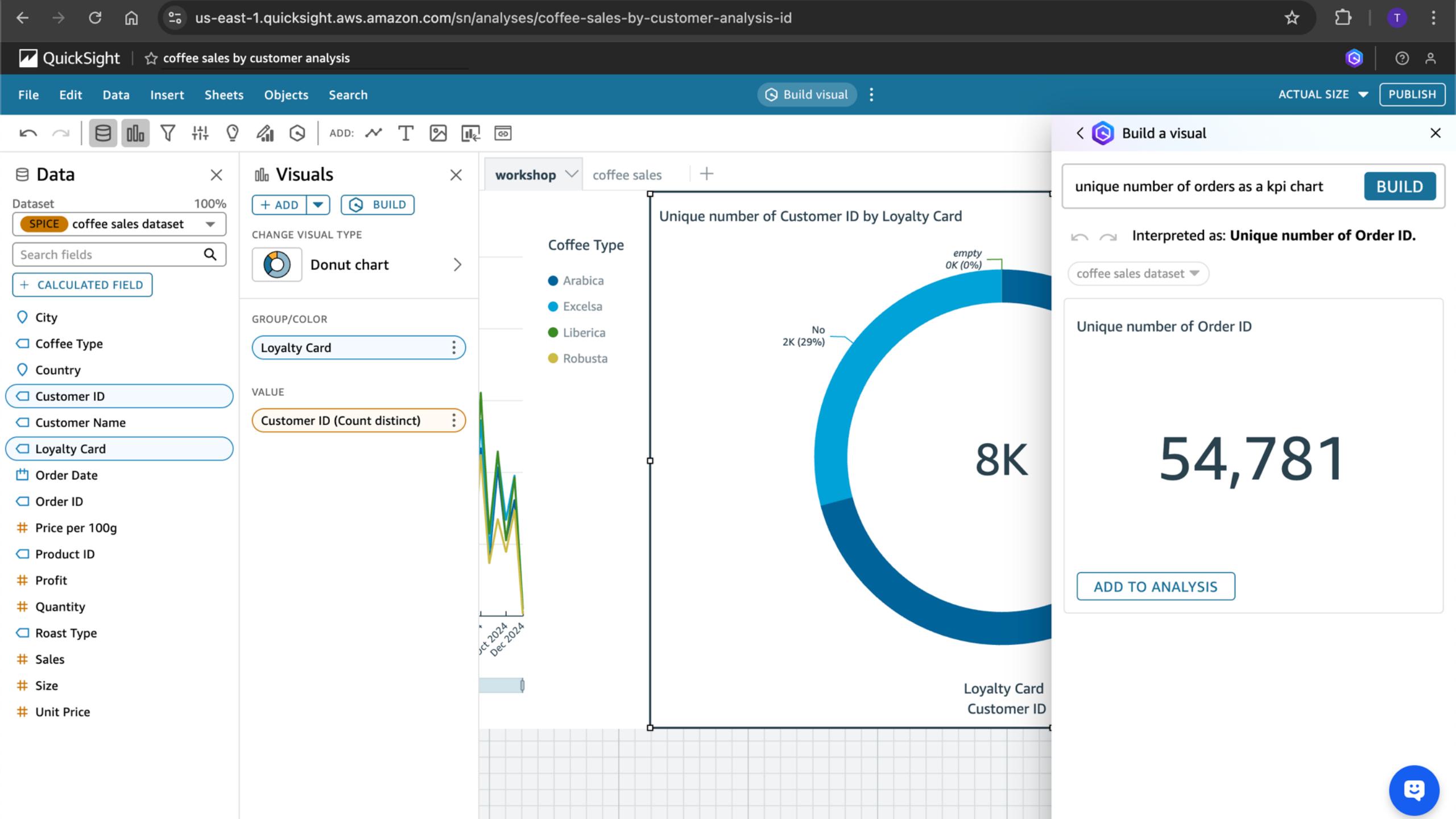
54,781

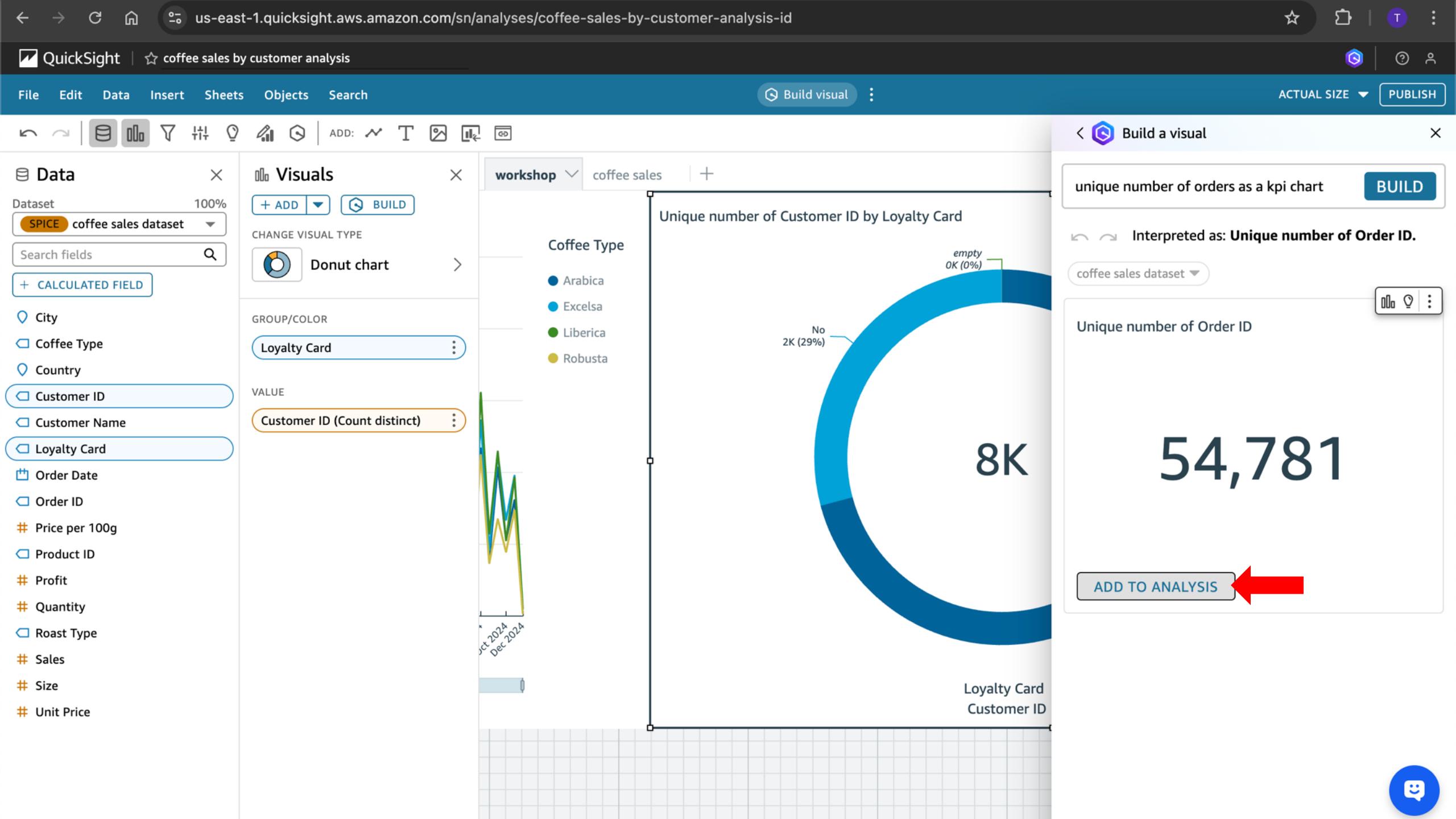
?

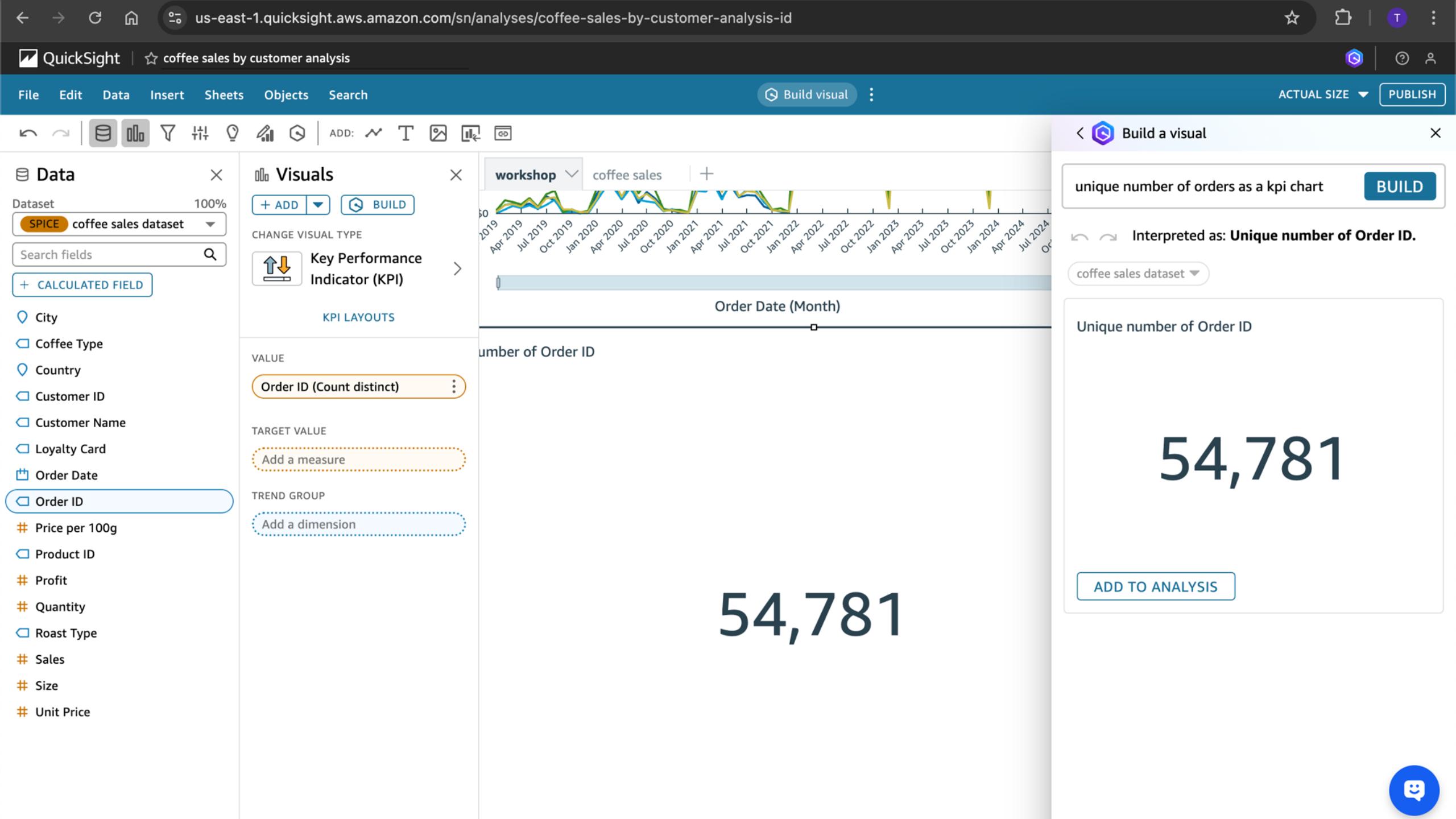
michael_tw_lin ▾

The screenshot shows a workshop interface for Amazon Q. On the left, there's a sidebar with navigation links like 'Initial setup', 'Authoring experience' (which is expanded), and 'Reader experience'. Under 'Authoring experience', 'Build & refine visuals using natural language' is selected, indicated by a blue background and bold text. Below it are 'Create calculations using natural language', 'Reader experience', 'Scenarios', and 'Unstructured insights'. The main content area has a title 'Exercise 3 – Build a KPI visual to get unique number of orders'. It lists three steps: 'Click Build visual', 'Enter prompt unique number of orders as a kpi chart and click BUILD', and 'Click ADD TO ANALYSIS'. Step 2 has a green 'Copied!' message bubble. Below this is a 'Build a visual' dialog with a text input field containing the prompt, a 'BUILD' button, and a note 'Interpreted as: Unique number of Order ID.' with a red circle '1'. The result section shows the value '54,781'. At the bottom right is a help icon with a question mark.









catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

- Open AWS console (us-east-1) 
- Get AWS CLI credentials

Exit event

Exercise 4 – KPI visual for monthly change in sales

a. Click Build visual 

b. Enter prompt `monthly sales change`  and click BUILD

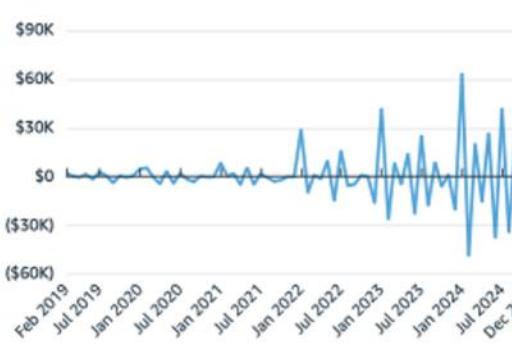
Build a visual

monthly sales change 

Interpreted as: Total Sales difference month over month by month.

coffee sales dataset

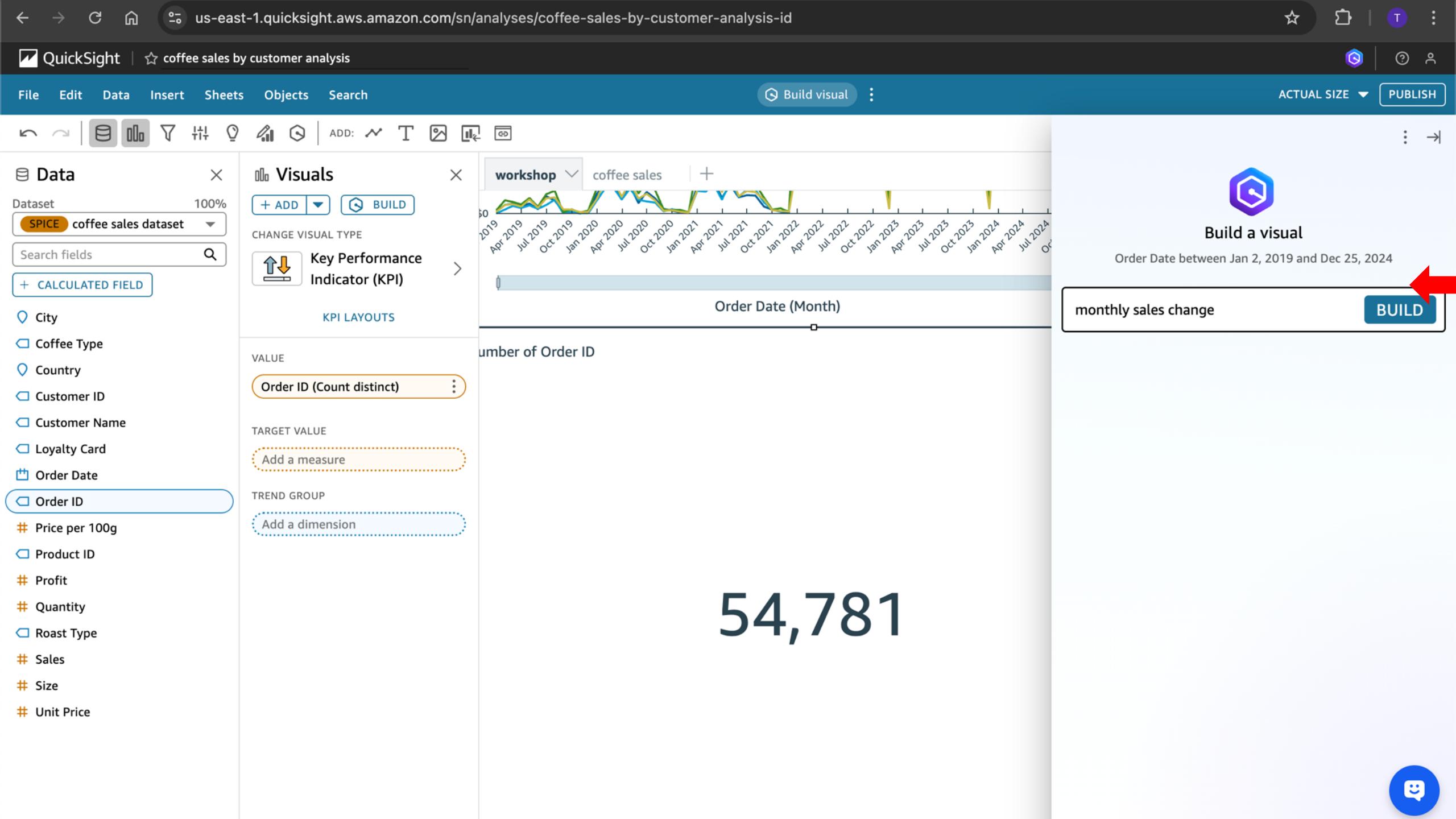
Total Sales difference month over month by month

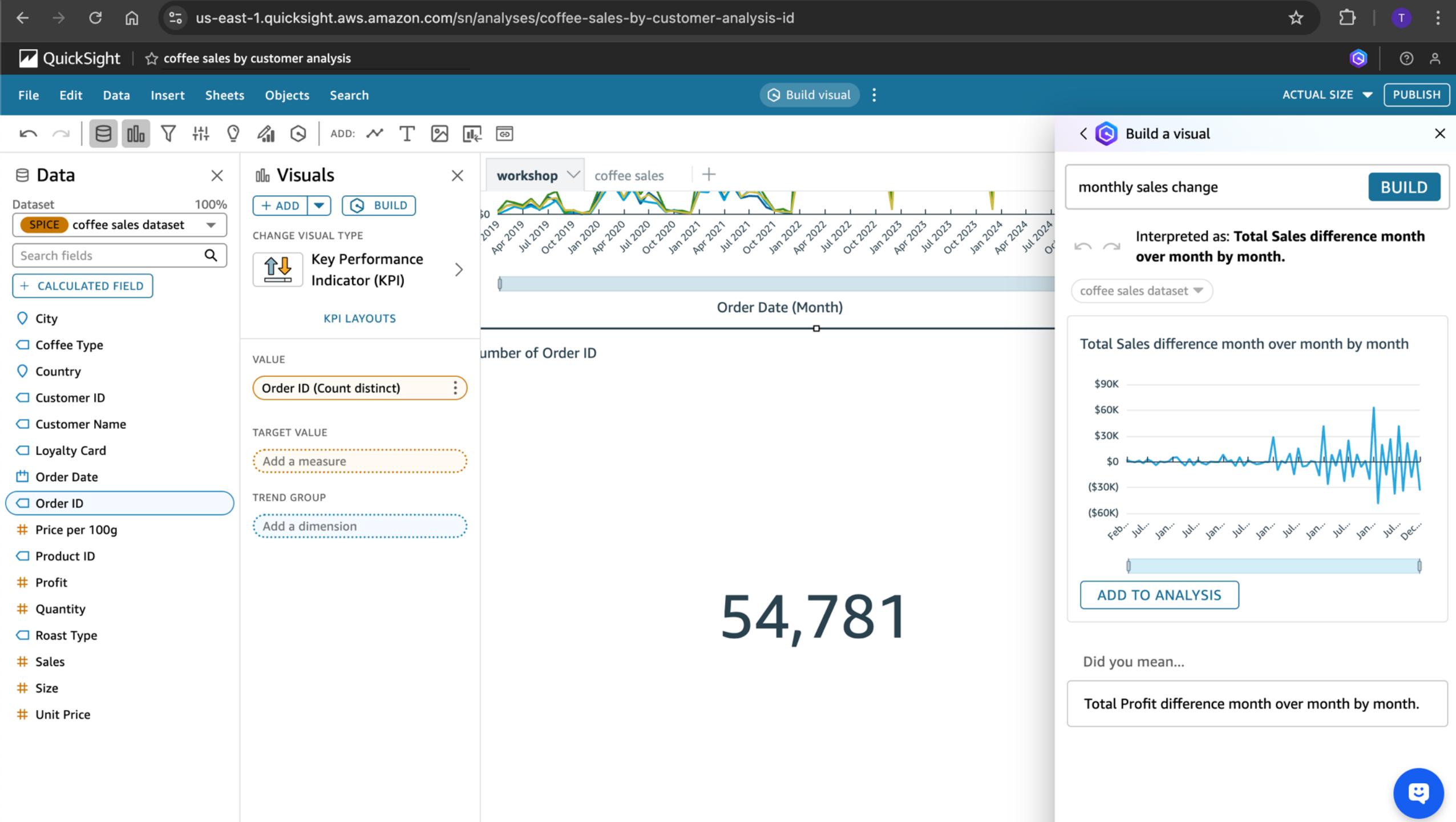


ADD TO ANALYSIS

Did you mean...

Total Profit difference month over month by month





us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE PUBLISH

Data Visuals

workshop coffee sales

Order Date (Month)

Number of Order ID

Order ID (Count distinct)

Target Value

Add a measure

Trend Group

Add a dimension

54,781

monthly sales change

Interpreted as: Total Sales difference month over month by month.

Change Visual Type

Total Sales difference month over month by month

\$90K
\$60K
\$30K
\$0
(\$30K)
(\$60K)

Feb Jul Jan Jul Jan Jul Jan Jul Jan Jul Dec

ADD TO ANALYSIS

Did you mean...

Total Profit difference month over month by month.

SPICE coffee sales dataset

City Coffee Type Country Customer ID Customer Name Loyalty Card Order Date Order ID Price per 100g Product ID Profit Quantity Roast Type Sales Size Unit Price

DATA

Visuals

BUILD

CHANGE VISUAL TYPE

Key Performance Indicator (KPI)

KPI LAYOUTS

VALUE

TARGET VALUE

TREND GROUP

Did you mean...

Total Profit difference month over month by month.

ACTUAL SIZE

PUBLISH

Build a visual

BUILD

coffee sales dataset

Change Visual Type

...

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE PUBLISH

Data Visuals

workshop coffee sales +

Order Date (Month)

Number of Order ID

54,781

monthly sales change

Interpreted as: Total Sales difference month over month by month.

Total Sales difference month over month by month.

Did you mean?

Total Profit difference month over month by month.

ADD TO A

Visuals

+ ADD BUILD

CHANGE VISUAL TYPE

Key Performance Indicator (KPI)

KPI LAYOUTS

VALUE

Order ID (Count distinct)

TARGET VALUE

Add a measure

TREND GROUP

Add a dimension

Dataset

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE PUBLISH

Data Visuals

workshop coffee sales

Order Date (Month)

Number of Order ID

54,781

monthly sales change

Interpreted as: Total Sales difference month over month by month.

Total Sales di

Key Performance Indicator (KPI)

ADD TO A

Did you mean

Total Profit difference month over month by month.

DATA

Dataset: SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals

+ ADD BUILD

CHANGE VISUAL TYPE

Key Performance Indicator (KPI)

KPI LAYOUTS

VALUE

Order ID (Count distinct)

TARGET VALUE

Add a measure

TREND GROUP

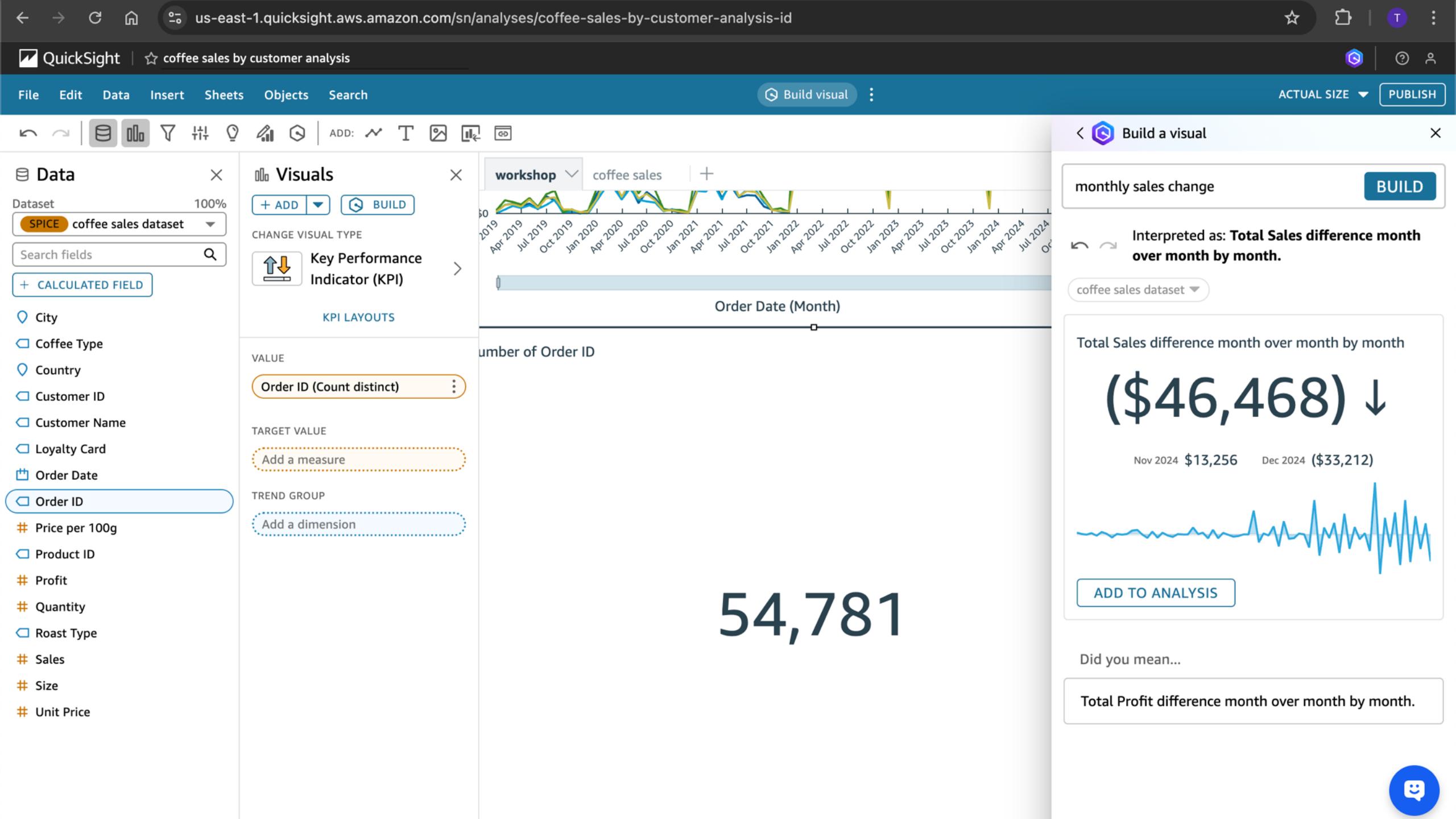
Add a dimension

Build a visual

BUILD

coffee sales dataset

Up arrow icon (highlighted with a red arrow)



us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ...

ACTUAL SIZE ▾ PUBLISH

ADD: ↗ T ↘

Data Visuals

workshop coffee sales

Order Date (Month)

Number of Order ID

Order ID (Count distinct)

Target Value

Add a measure

Trend Group

Add a dimension

54,781

monthly sales change

Interpreted as: Total Sales difference month over month by month.

coffee sales dataset

Total Sales difference month over month by month

(\$46,468) ↓

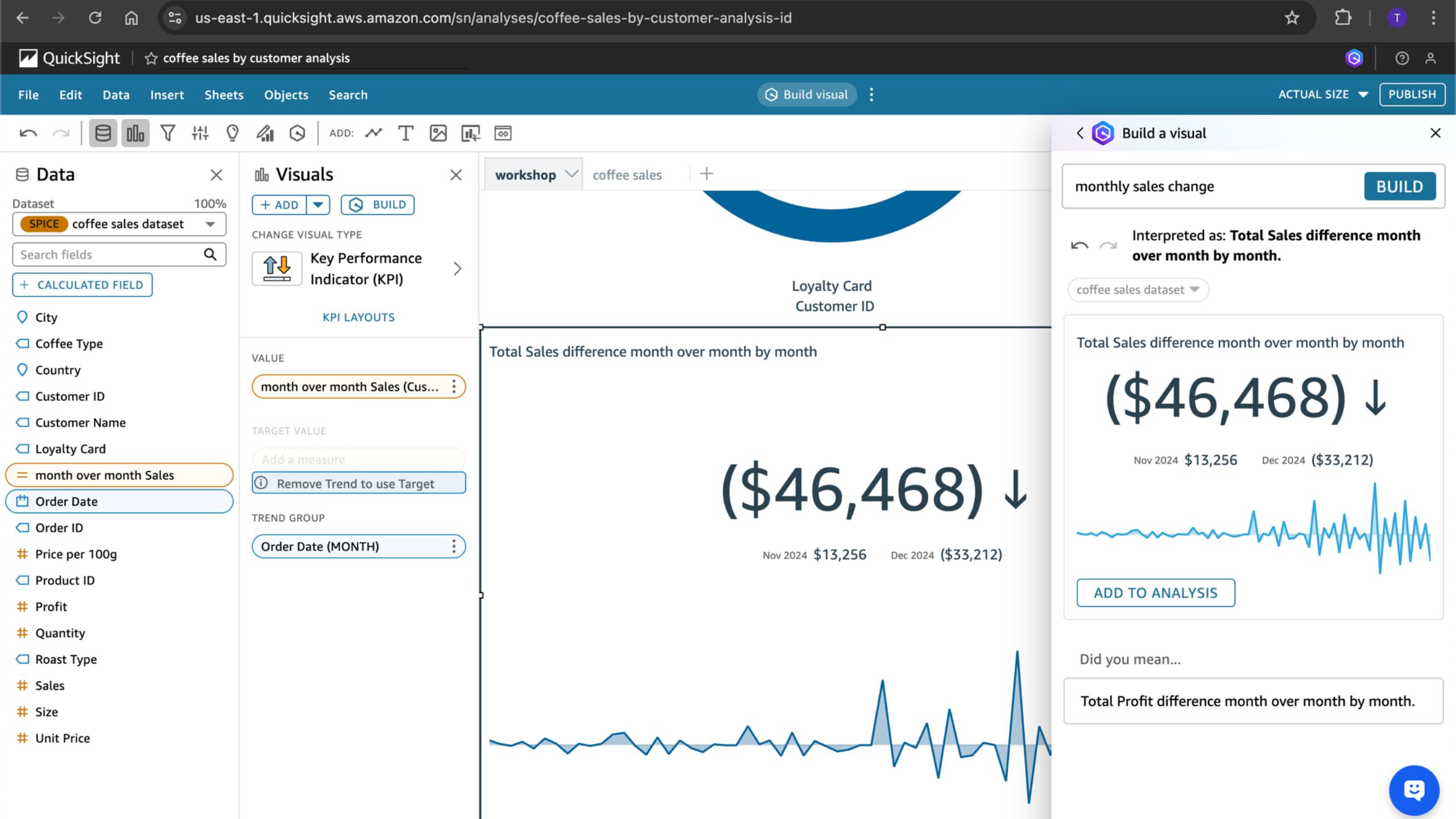
Nov 2024 \$13,256 Dec 2024 (\$33,212)

Did you mean...

Total Profit difference month over month by month.

ADD TO ANALYSIS

A red arrow points to the "ADD TO ANALYSIS" button.



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

[Build & refine visuals using natural language](#)

Create calculations using natural language

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

[Open AWS console \(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

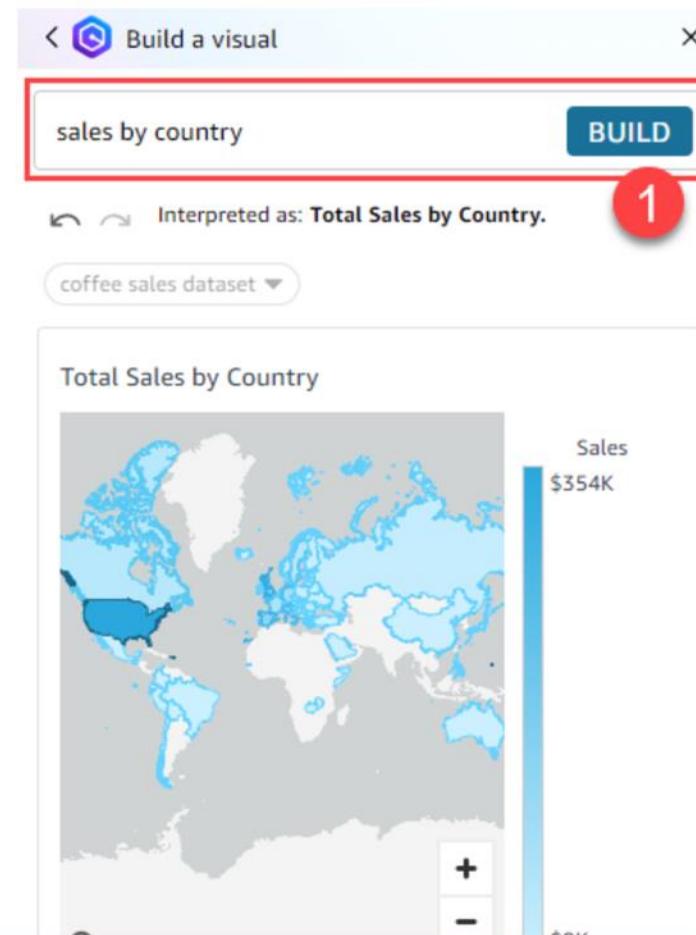
Exercise 5 – Build Geo map for sales

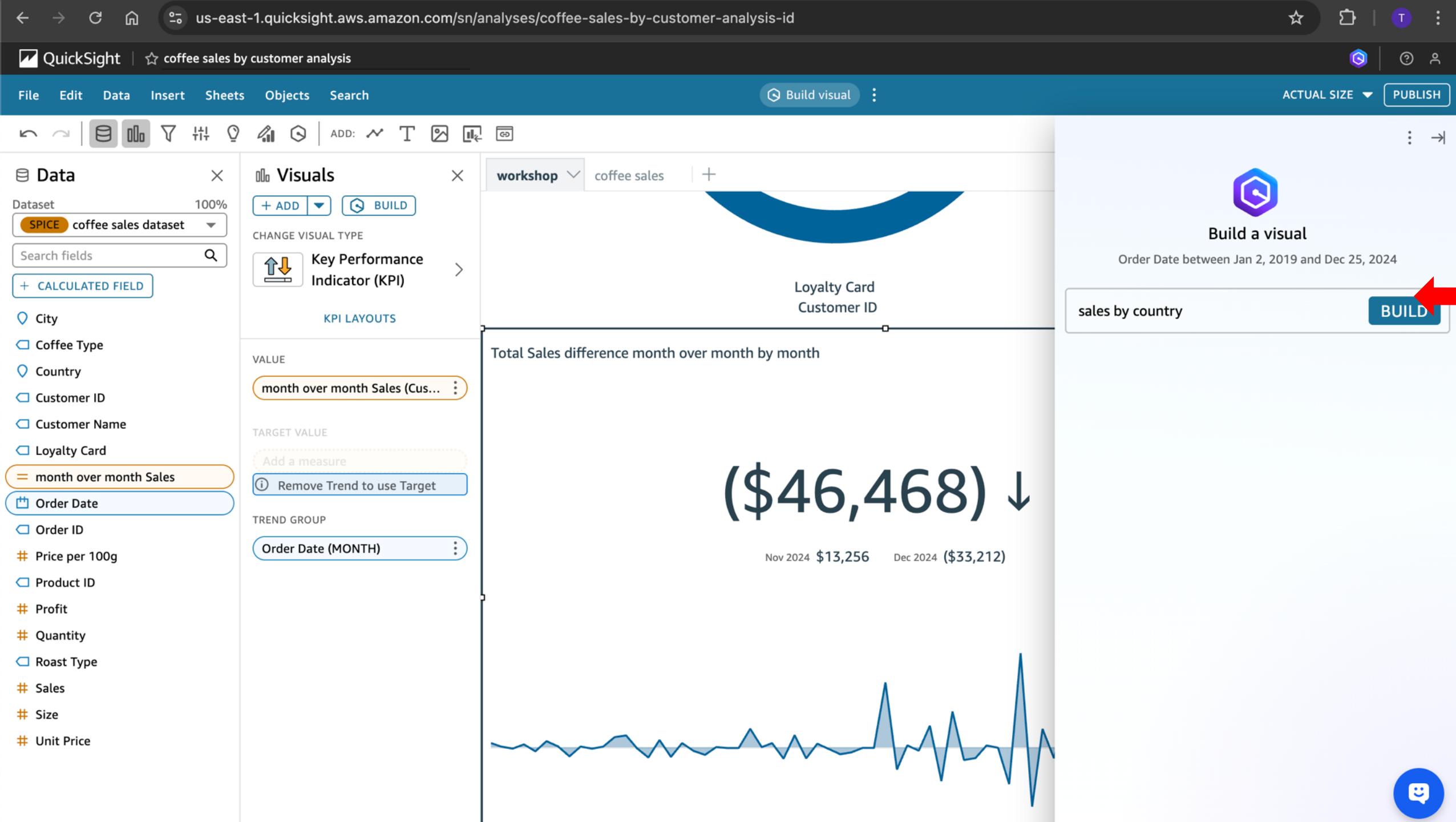
a. Click Build visual

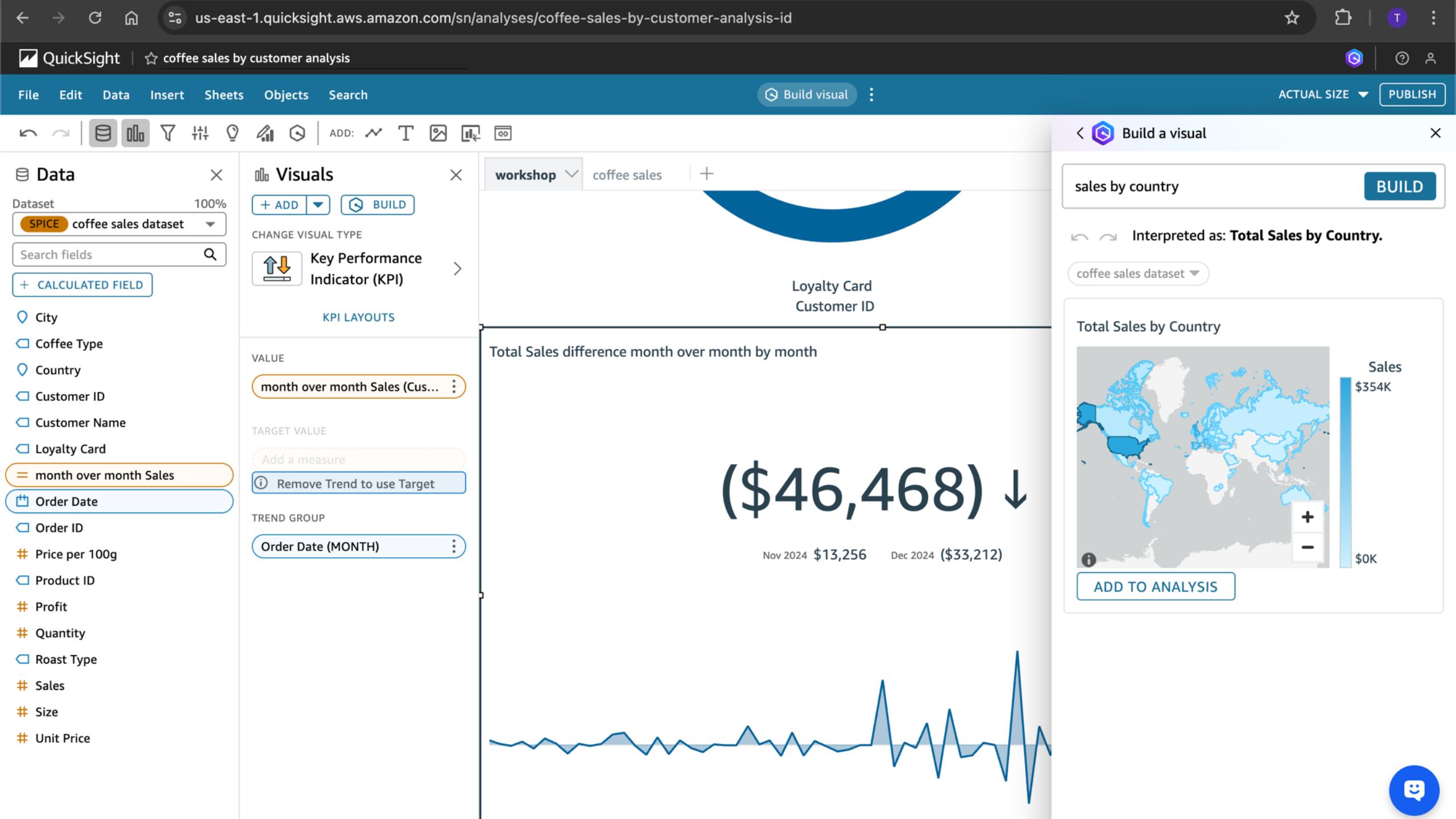
Copied!

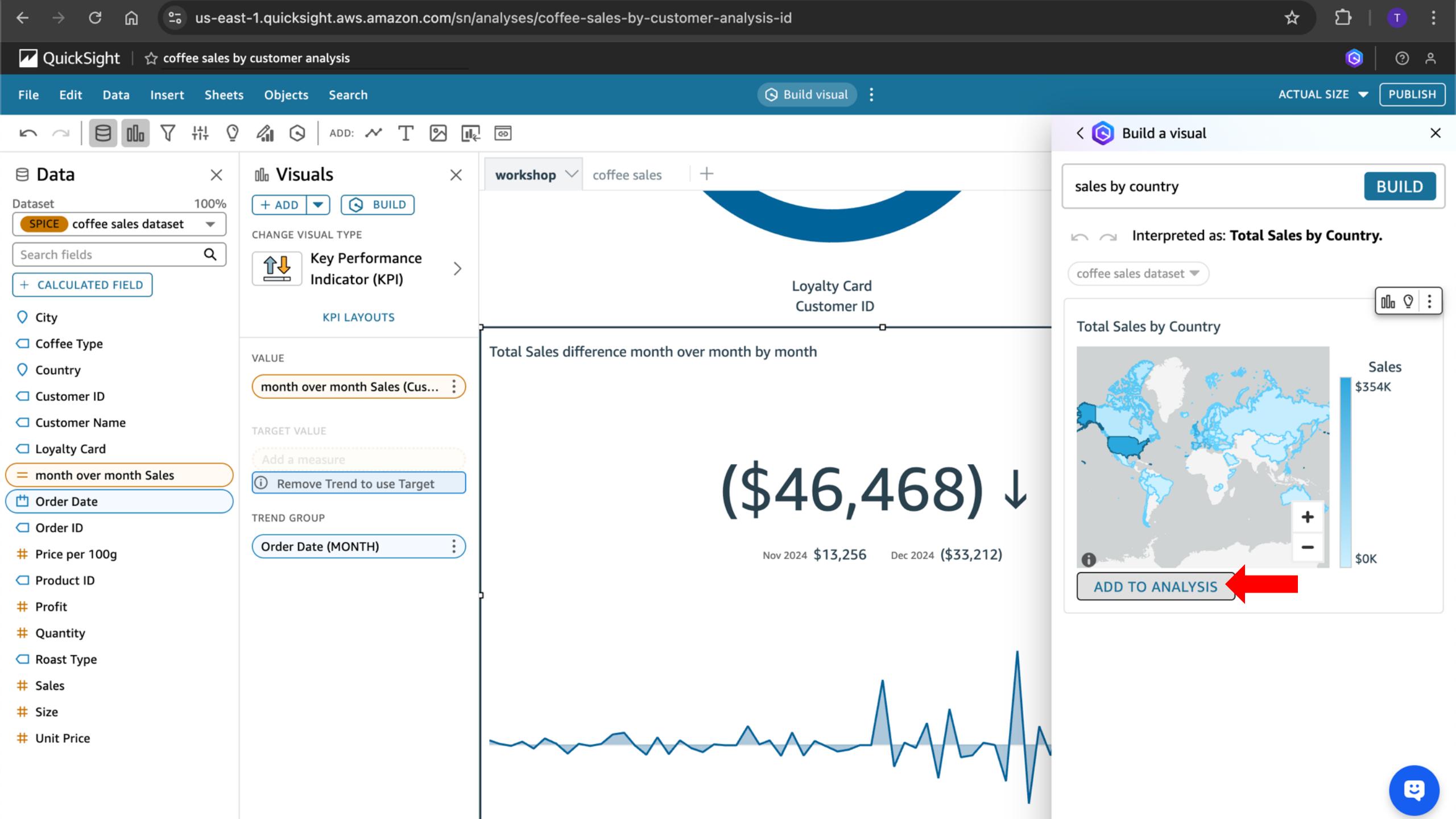
b. Enter prompt sales by country and click BUILD

c. Click ADD TO ANALYSIS











Data

Dataset 100%

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals

+ ADD ▾

BUILD

CHANGE VISUAL TYPE



Filled Map



LOCATION

Country



COLOR

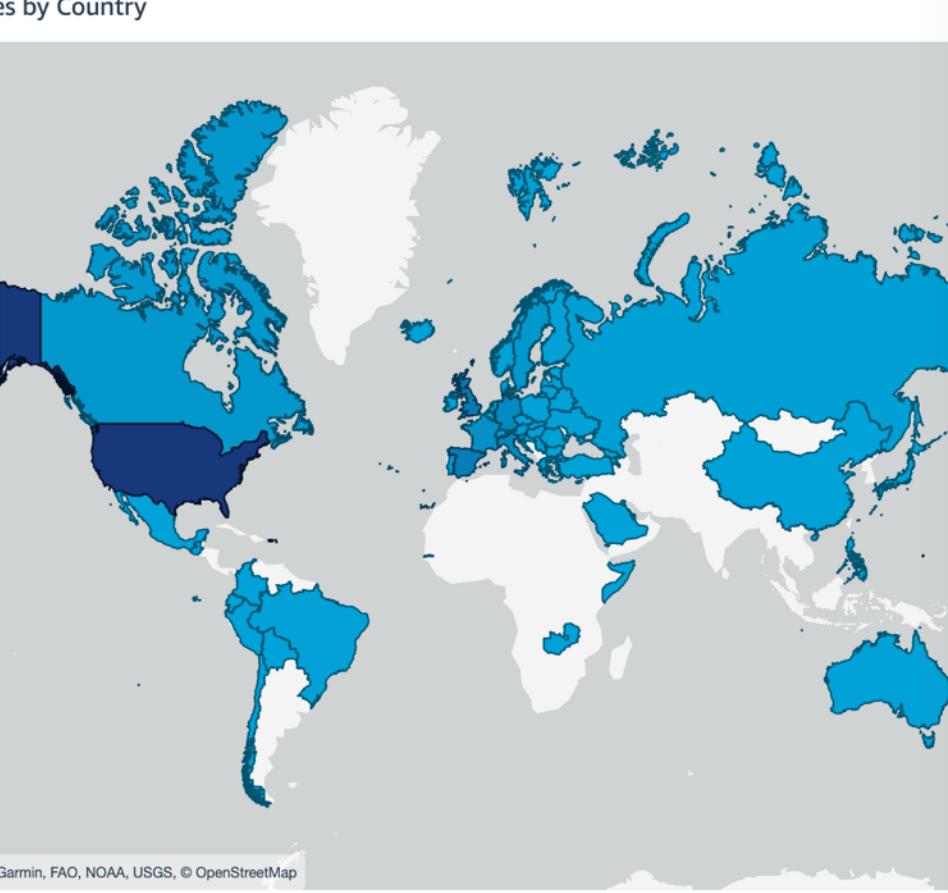
Sales (Sum)



workshop coffee sales +

coffee sales by Country

Sales by Country



< Build a visual

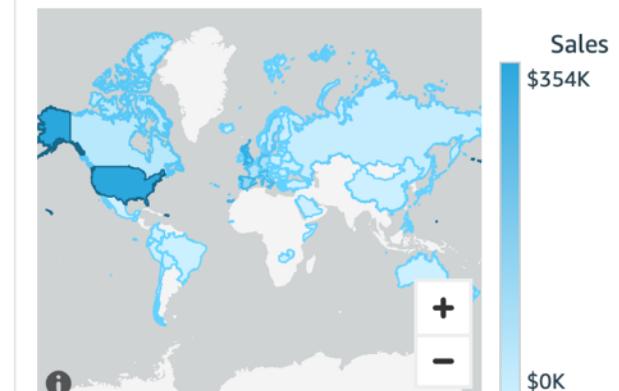
sales by country

BUILD

Interpreted as: Total Sales by Country.

coffee sales dataset

Total Sales by Country



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

[Build & refine visuals using natural language](#)

Create calculations using natural language

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

[Open AWS console \(us-east-1\)](#)

[Get AWS CLI credentials](#)

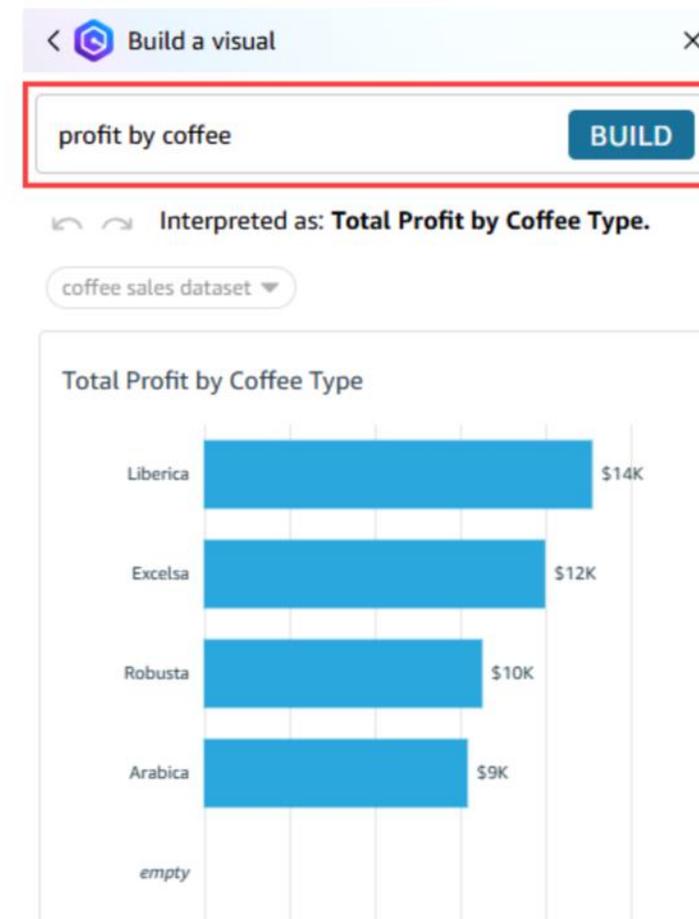
Exit event

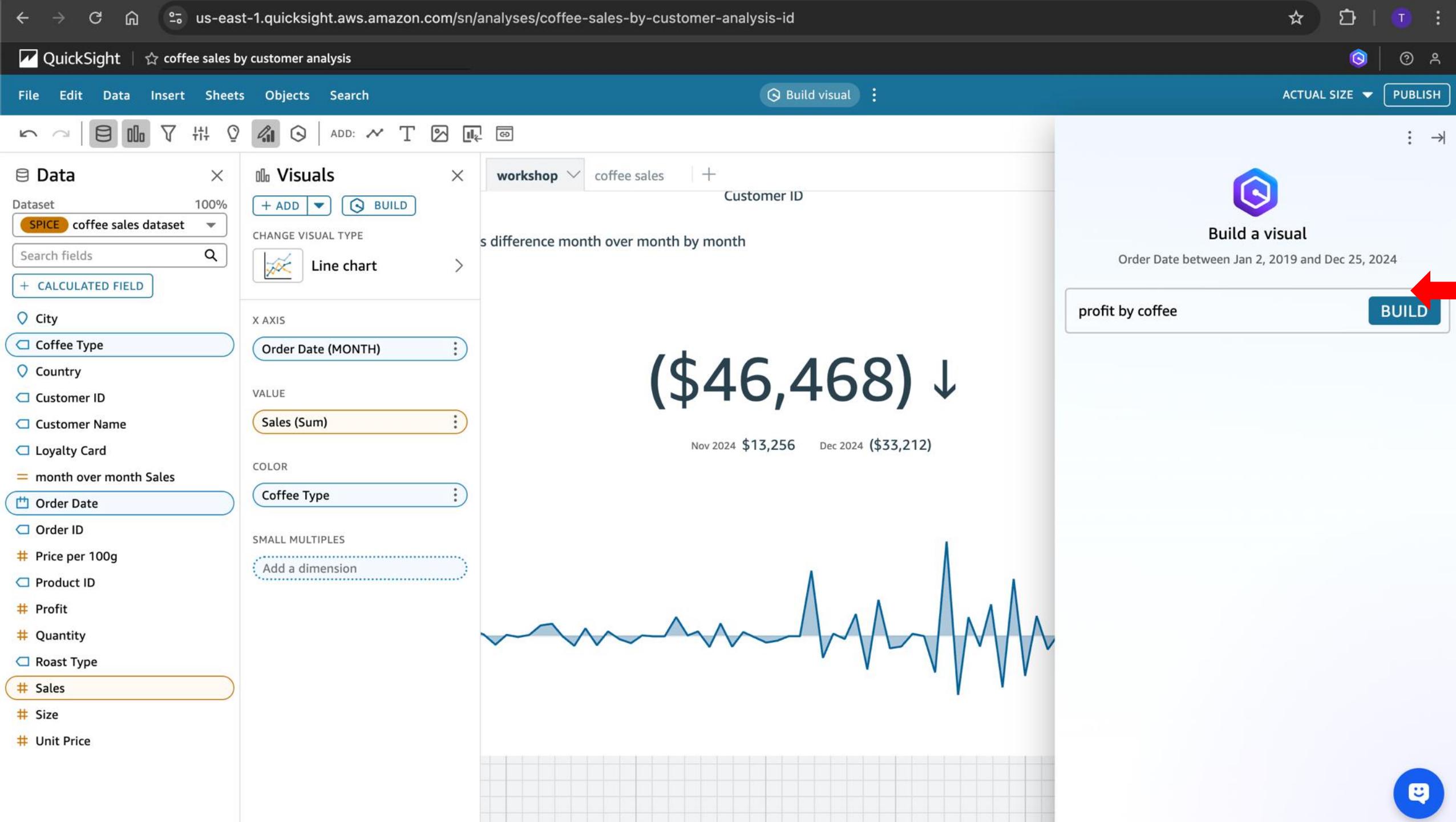
Exercise 6 – Build a pie chart to find profit for coffee

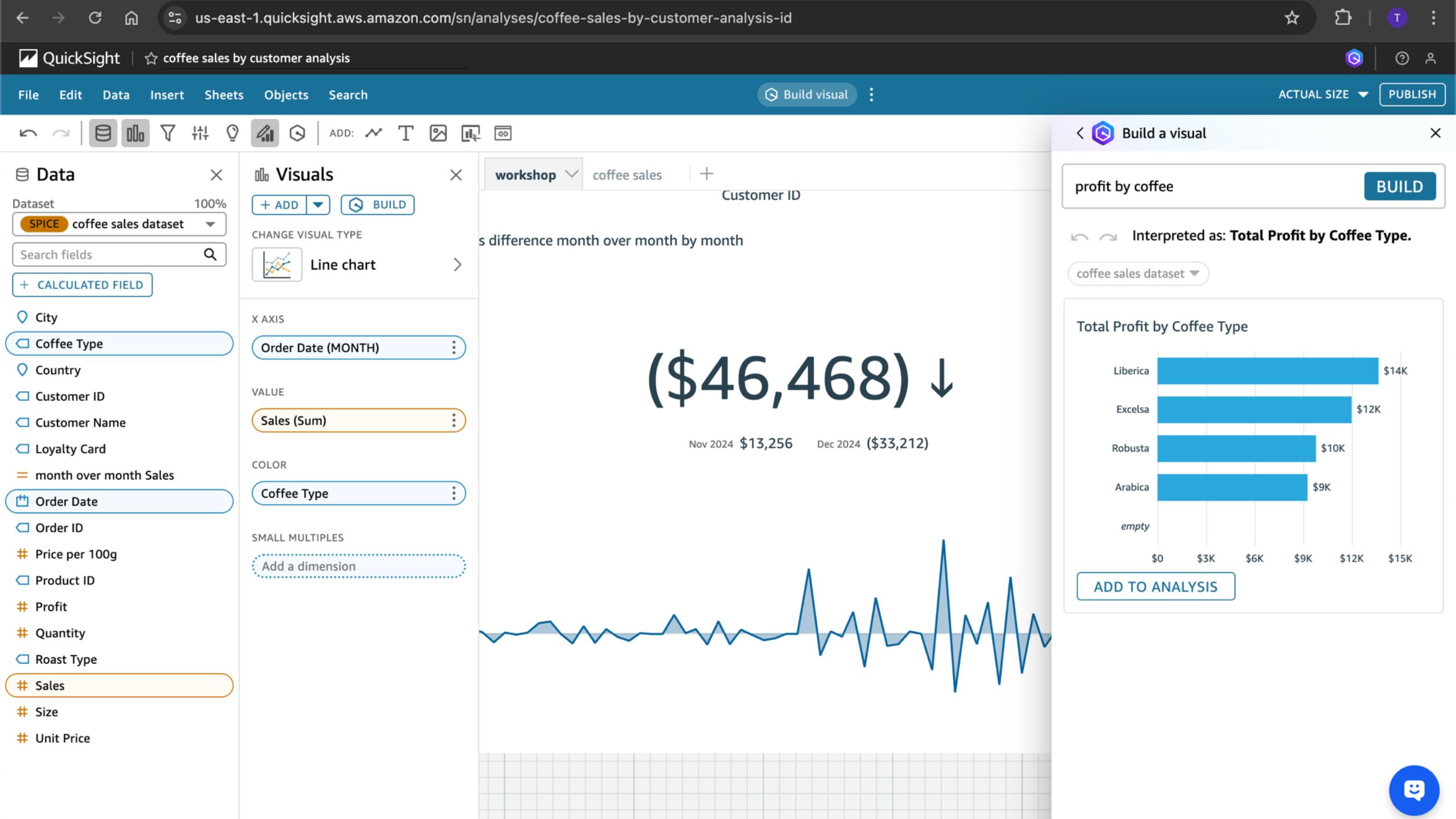
a. Click Build visual

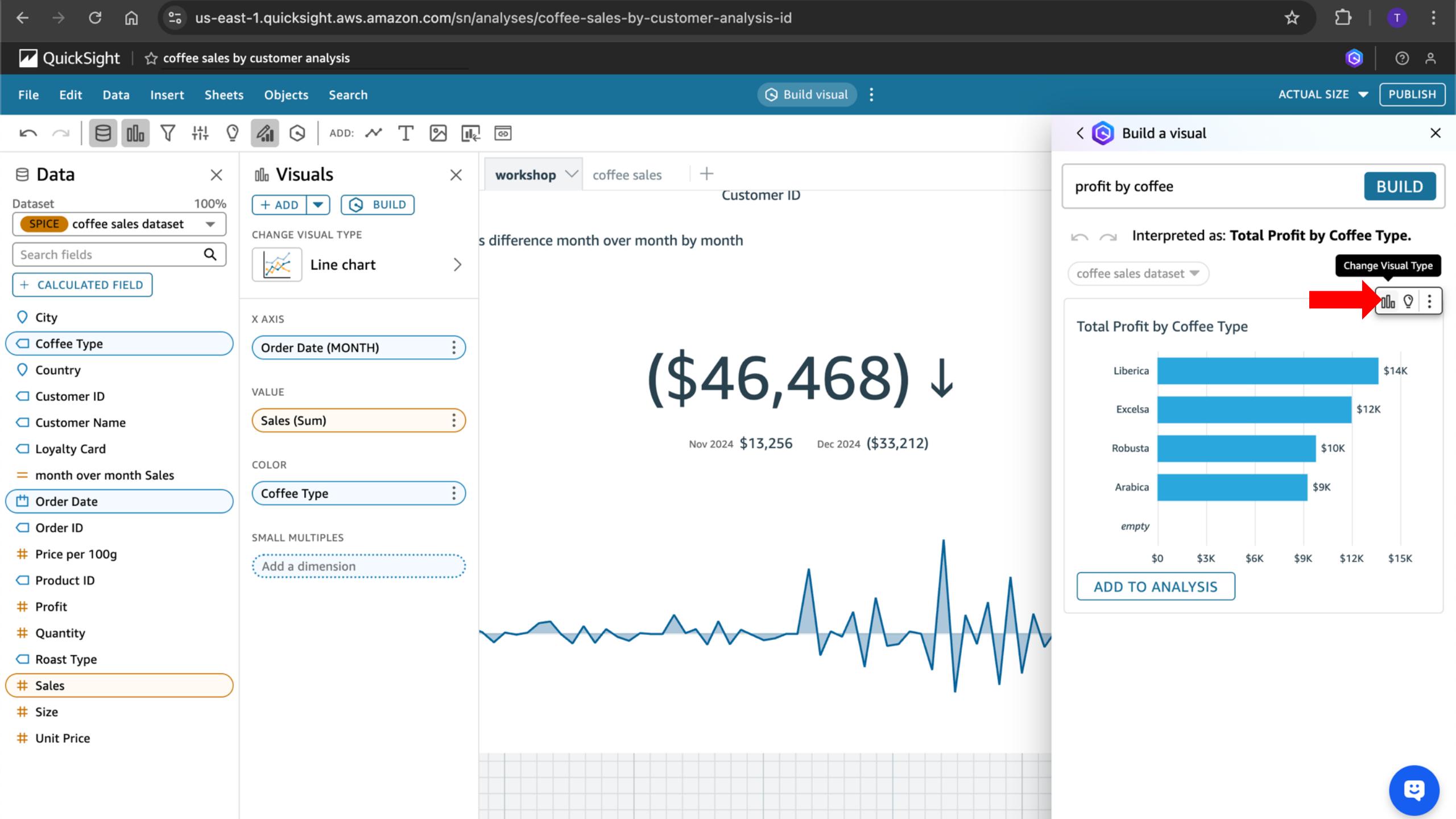
b. Enter prompt profit by coffee and click BUILD

- By default, this prompt generates a horizontal bar graph









us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE PUBLISH

Data Visuals workshop coffee sales Customer ID

CHANGE VISUAL TYPE Line chart >

X AXIS Order Date (MONTH)

VALUE Sales (Sum)

COLOR Coffee Type

SMALL MULTIPLES Add a dimension

Customer ID

s difference month over month by month

(**\$46,468**) ↓

Nov 2024 \$13,256 Dec 2024 (\$33,212)

profit by coffee BUILD

Interpreted as: Total Profit by Coffee Type.

coffee sales dataset

Total Profit by coffee

Liberica

Excelsa

Robusta

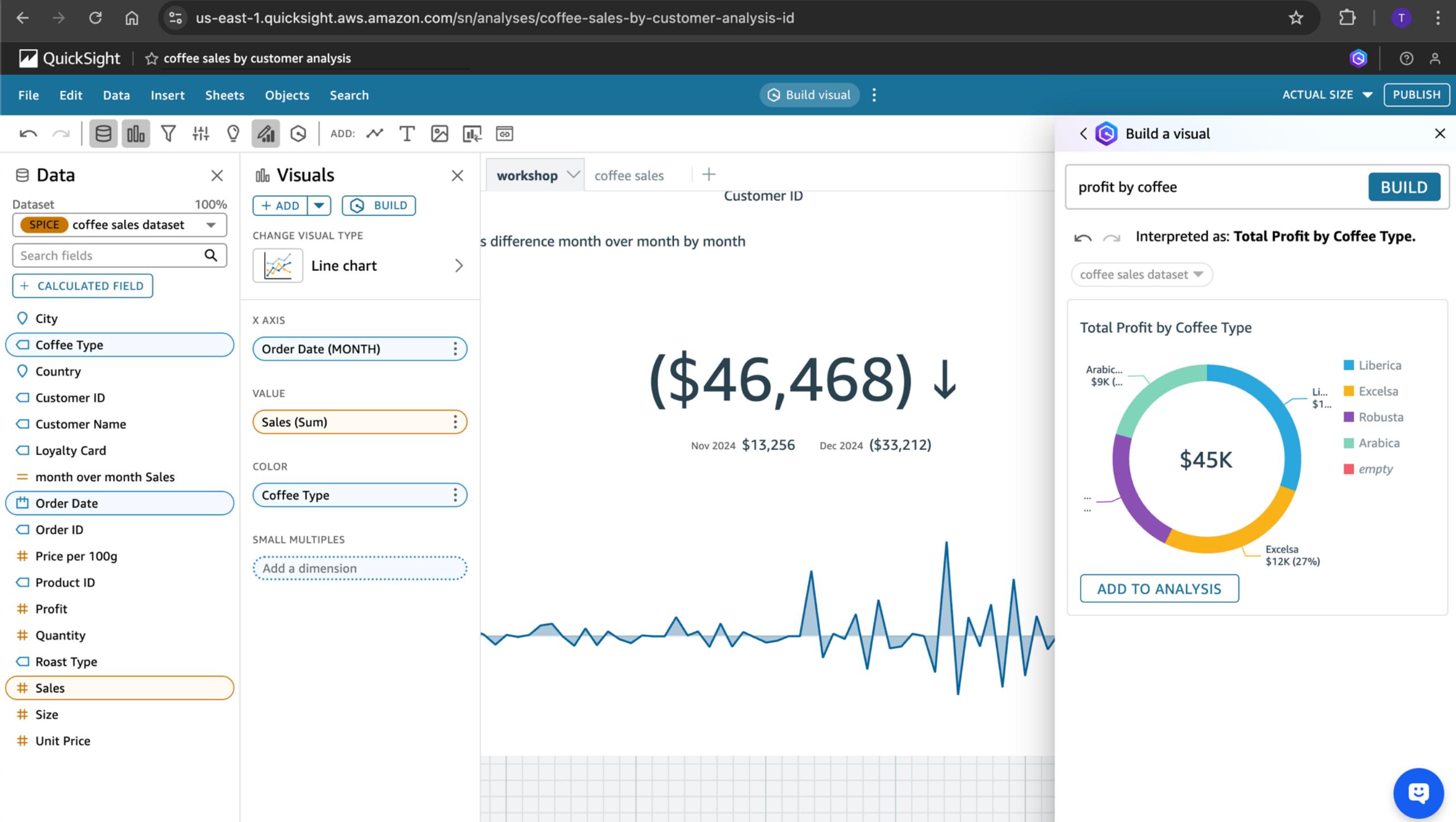
Arabica

empty

ADD TO A

Donut chart

A screenshot of the Amazon QuickSight web application. The main area displays a line chart titled "workshop" showing "coffee sales" over time. The chart highlights a significant dip in sales from November 2024 to December 2024, with a large callout indicating a total profit of \$46,468. The left sidebar lists various data fields such as "Sales", "Customer ID", and "Order Date". A central "Visuals" panel shows the configuration for the current chart, including the X-axis as "Order Date (MONTH)" and the value as "Sales (Sum)". To the right, a "Build a visual" modal is open, showing a grid of visualization icons. One specific icon, a donut chart, is highlighted with a red arrow. The top navigation bar includes links for "File", "Edit", "Data", "Insert", "Sheets", "Objects", "Search", "Build visual", "ACTUAL SIZE", and "PUBLISH". The overall theme is light blue and white.



us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ... ACTUAL SIZE ▾ PUBLISH

Data Visuals workshop coffee sales Customer ID

CHANGE VISUAL TYPE Line chart >

X AXIS Order Date (MONTH)

VALUE Sales (Sum)

COLOR Coffee Type

SMALL MULTIPLES Add a dimension

(\$46,468) ↓

Nov 2024 \$13,256 Dec 2024 (\$33,212)

profit by coffee BUILD

Interpreted as: Total Profit by Coffee Type.

coffee sales dataset

Total Profit by Coffee Type

Liberica \$1...
Excelsa \$1...
Robusta \$1...
Arabica \$1...
empty \$1...

\$45K

ADD TO ANALYSIS

The screenshot shows the QuickSight interface with a line chart visualization titled "coffee sales" and a donut chart titled "Total Profit by Coffee Type".

Line Chart: The chart displays monthly sales from November 2024 to December 2024. The value for November is \$13,256 and for December is (\$33,212). The chart shows significant fluctuations, with a major peak in December. The X-axis is labeled "Order Date (MONTH)" and the Y-axis is labeled "Sales (Sum)".

Donut Chart: The chart shows the distribution of total profit by coffee type. The segments represent Liberica (blue), Excelsa (orange), Robusta (purple), Arabica (green), and empty (red). The total profit is \$45K. A red arrow points to the "ADD TO ANALYSIS" button at the bottom right of the chart.

Data Panel: On the left, the "Data" panel lists various dimensions and measures used in the analysis, such as "SPICE coffee sales dataset", "City", "Coffee Type", "Country", "Customer ID", "Customer Name", "Loyalty Card", "month over month Sales", "Order Date", "Order ID", "Price per 100g", "Product ID", "Profit", "Quantity", "Roast Type", "# Sales", "# Size", and "# Unit Price".

Visuals Panel: On the right, the "Visuals" panel shows the configuration for the line chart, including "CHANGE VISUAL TYPE" set to "Line chart", "X AXIS" set to "Order Date (MONTH)", "VALUE" set to "Sales (Sum)", and "COLOR" set to "Coffee Type". It also includes a "Small Multiples" section with a placeholder "Add a dimension".



Data

Dataset 100%

SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Visuals

+ ADD ▾ BUILD

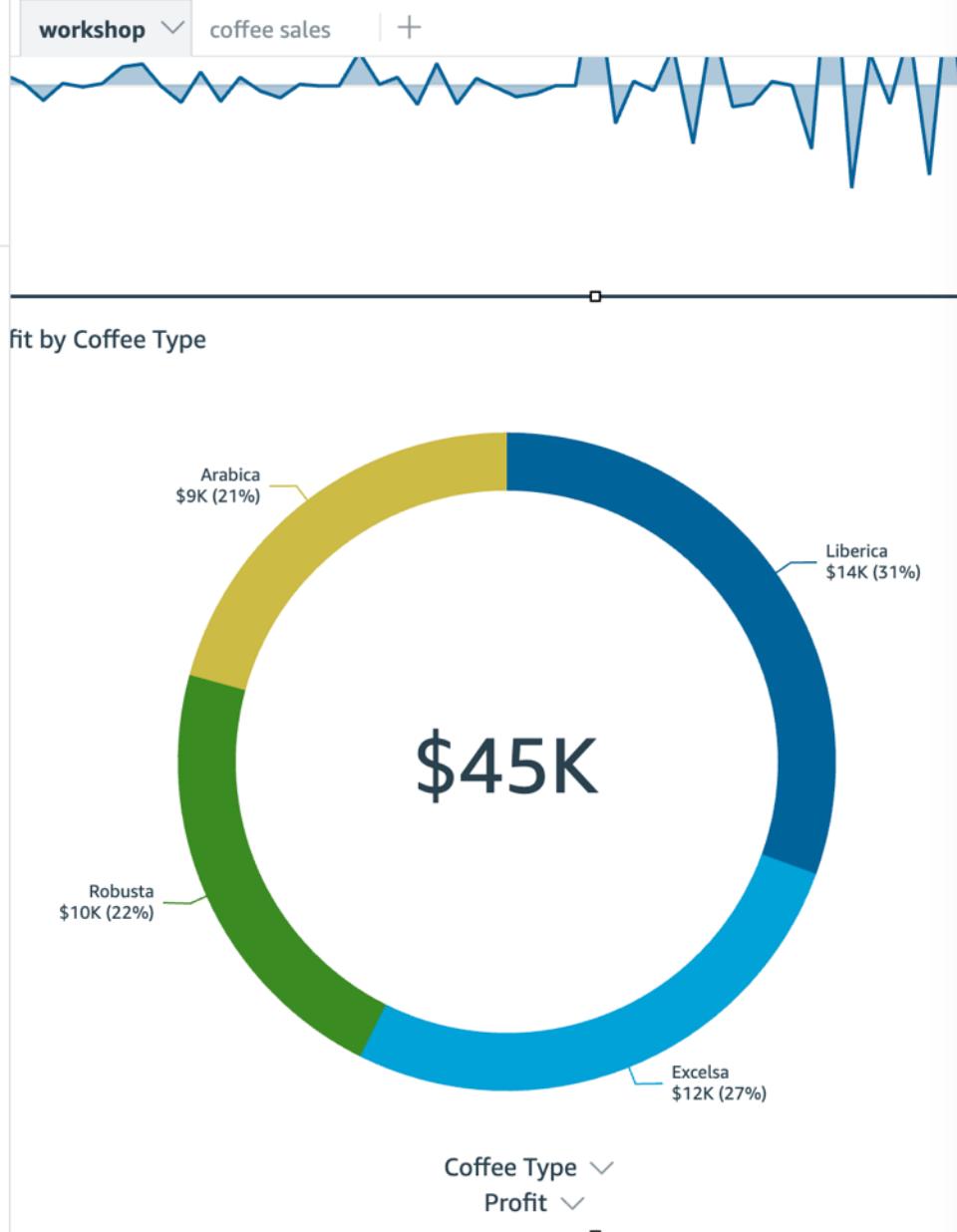
CHANGE VISUAL TYPE



+ -

coffee sales

+



Build a visual

profit by coffee

BUILD

Interpreted as: Total Profit by Coffee Type.

coffee sales dataset ▾

Total Profit by Coffee Type



ADD TO ANALYSIS



catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

Initial setup

Authoring experience

Build & refine visuals using natural language

Create calculations using natural language

Reader experience

Scenarios

Unstructured insights

AWS account access

Open AWS console (us-east-1)

Get AWS CLI credentials

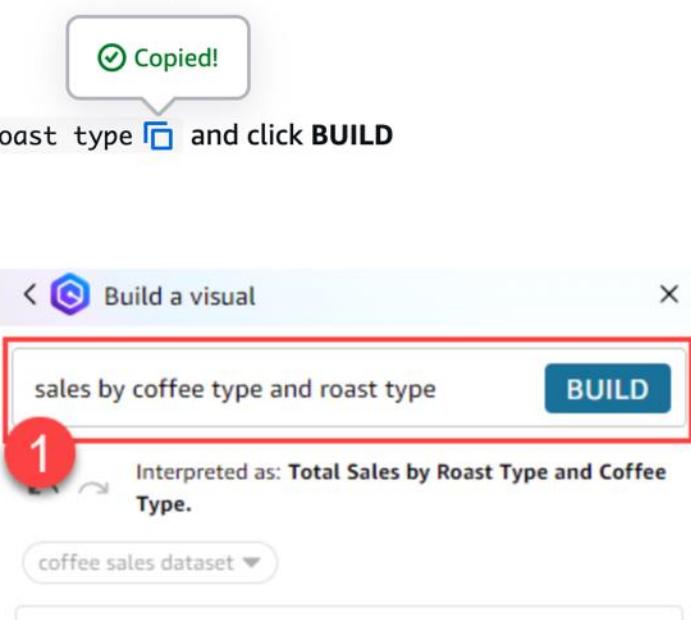
Exit event

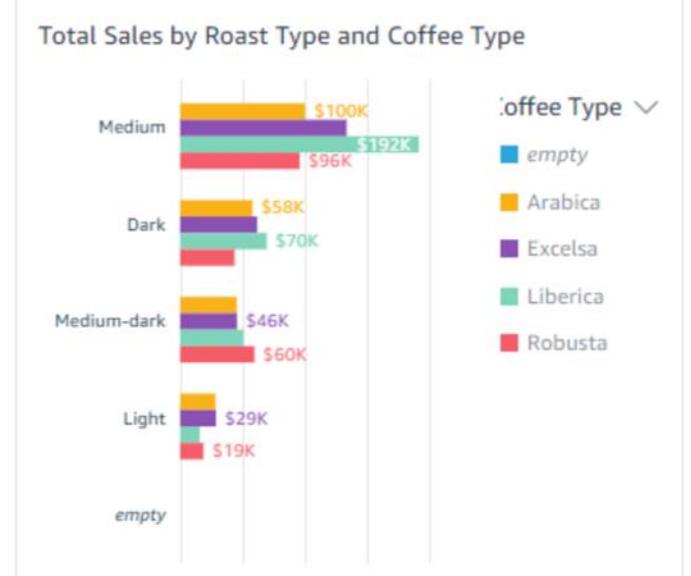
Exercise 7 – Build visual to find sales by coffee and roast type

a. Click Build visual

b. Enter prompt sales by coffee type and roast type  and click BUILD

c. Click ADD TO ANALYSIS





QuickSight | ★ coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ⋮

ACTUAL SIZE ▾ PUBLISH

Data Visuals

workshop coffee sales +

SPICE coffee sales dataset 100%

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

+ ADD ▾ BUILD

CHANGE VISUAL TYPE

Donut chart >

GROUP/COLOR

Coffee Type

VALUE

Profit (Sum)

fit by Coffee Type

Arabica \$9K (21%)

Liberica \$14K (31%)

Robusta \$10K (22%)

Excelsa \$12K (27%)

\$45K

Coffee Type ▾ Profit ▾

Build a visual

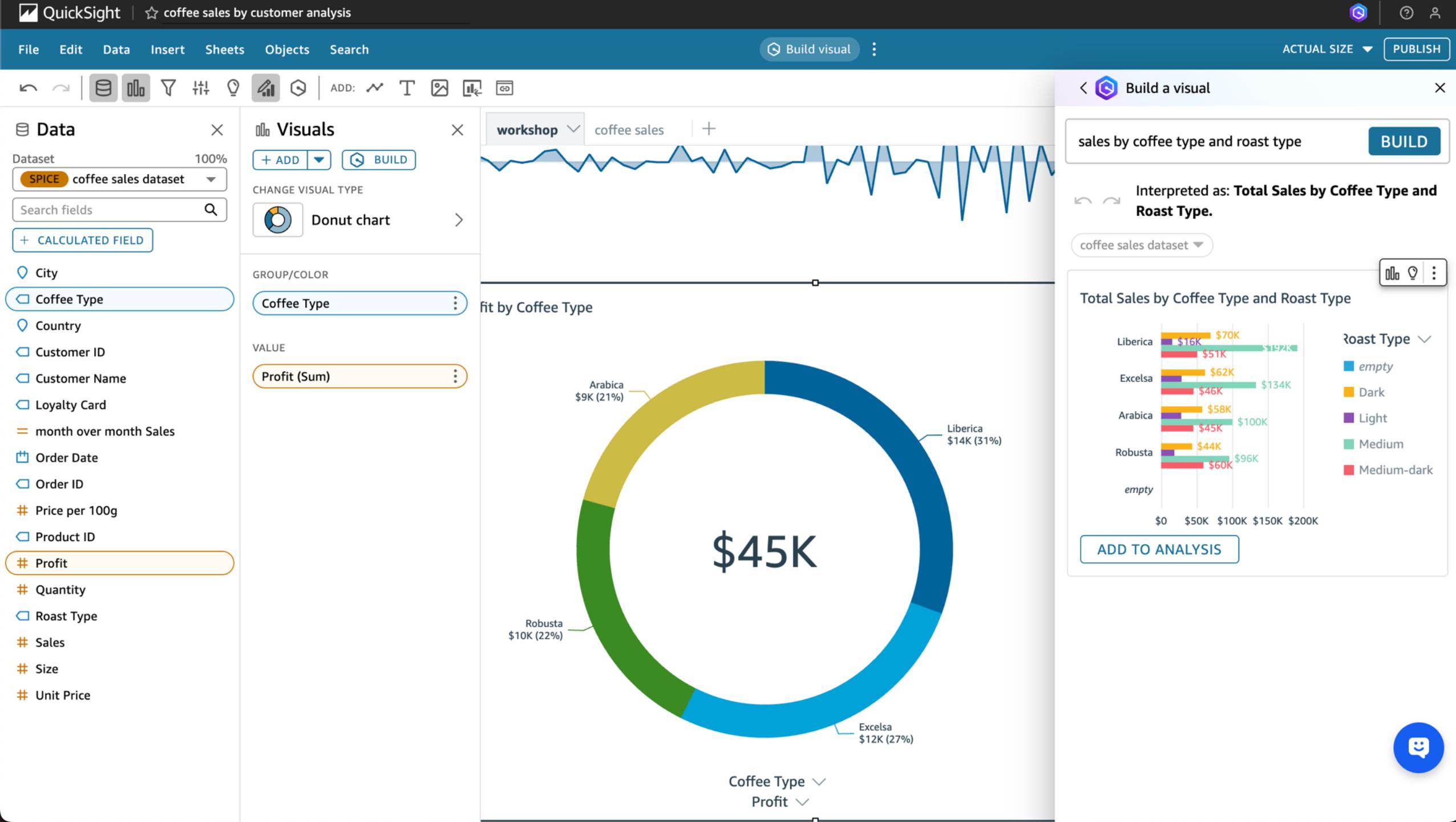
Order Date between Jan 2, 2019 and Dec 25, 2024

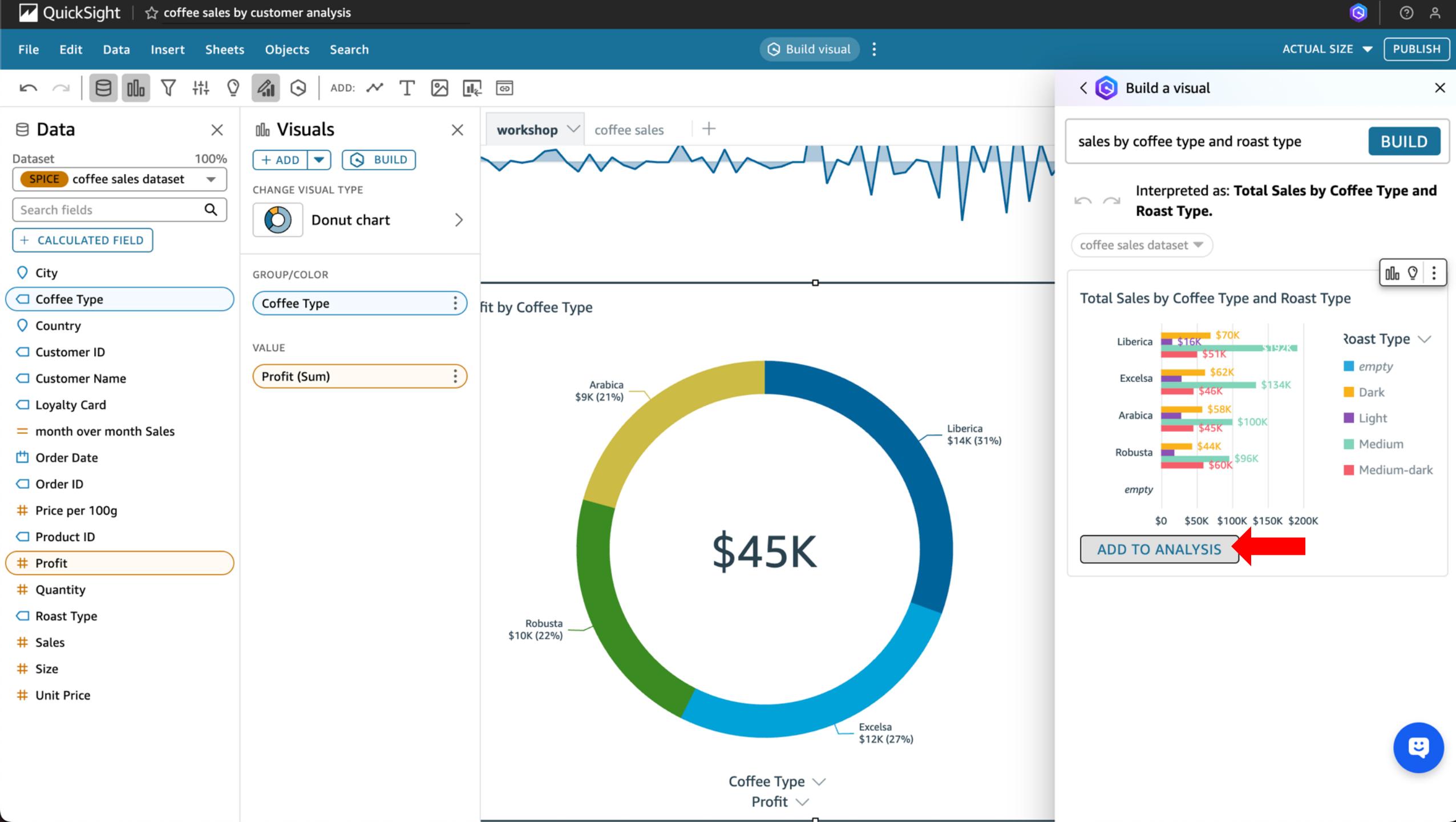
sales by coffee type and roast type

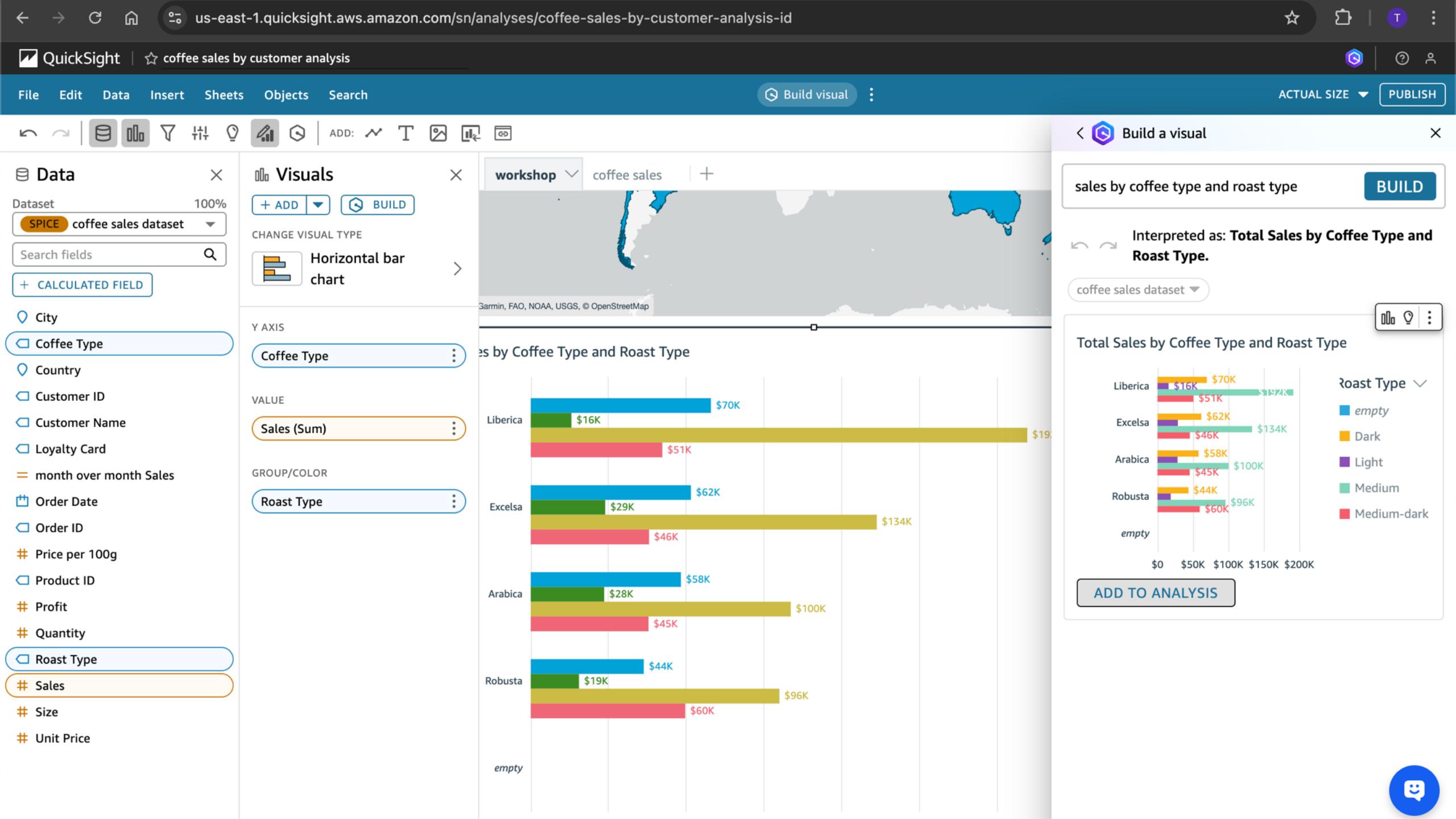
BUILD

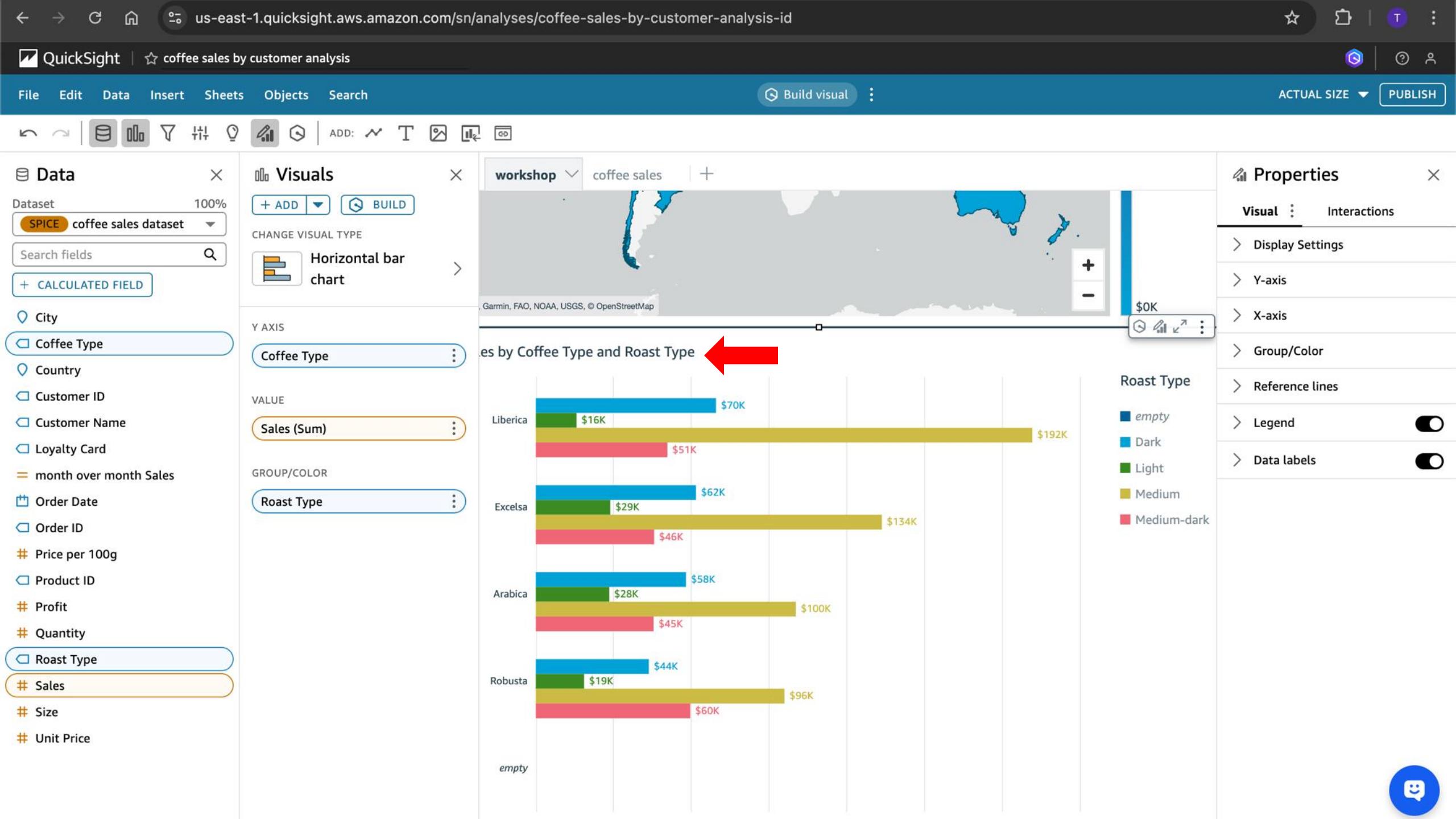
Feedback icon

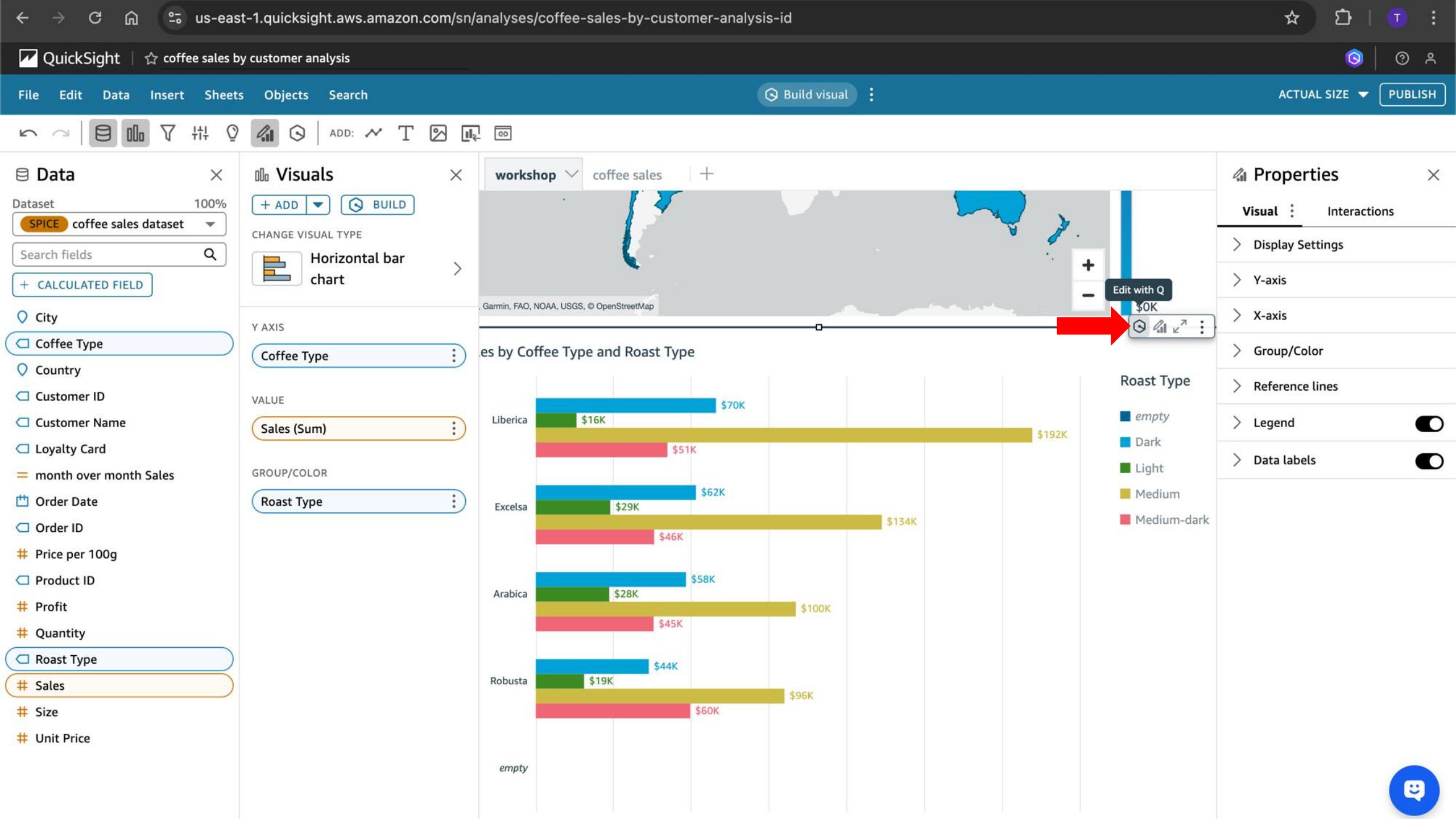
The screenshot shows the QuickSight dashboard interface. On the left, the 'Data' panel lists various dimensions and measures, with 'Profit' highlighted. The 'Visuals' panel shows a donut chart titled 'fit by Coffee Type' with segments for Arabica, Liberica, Robusta, and Excelsa, and a total value of \$45K. A line chart titled 'coffee sales' is also visible. A red arrow points to the 'BUILD' button in the 'sales by coffee type and roast type' section.

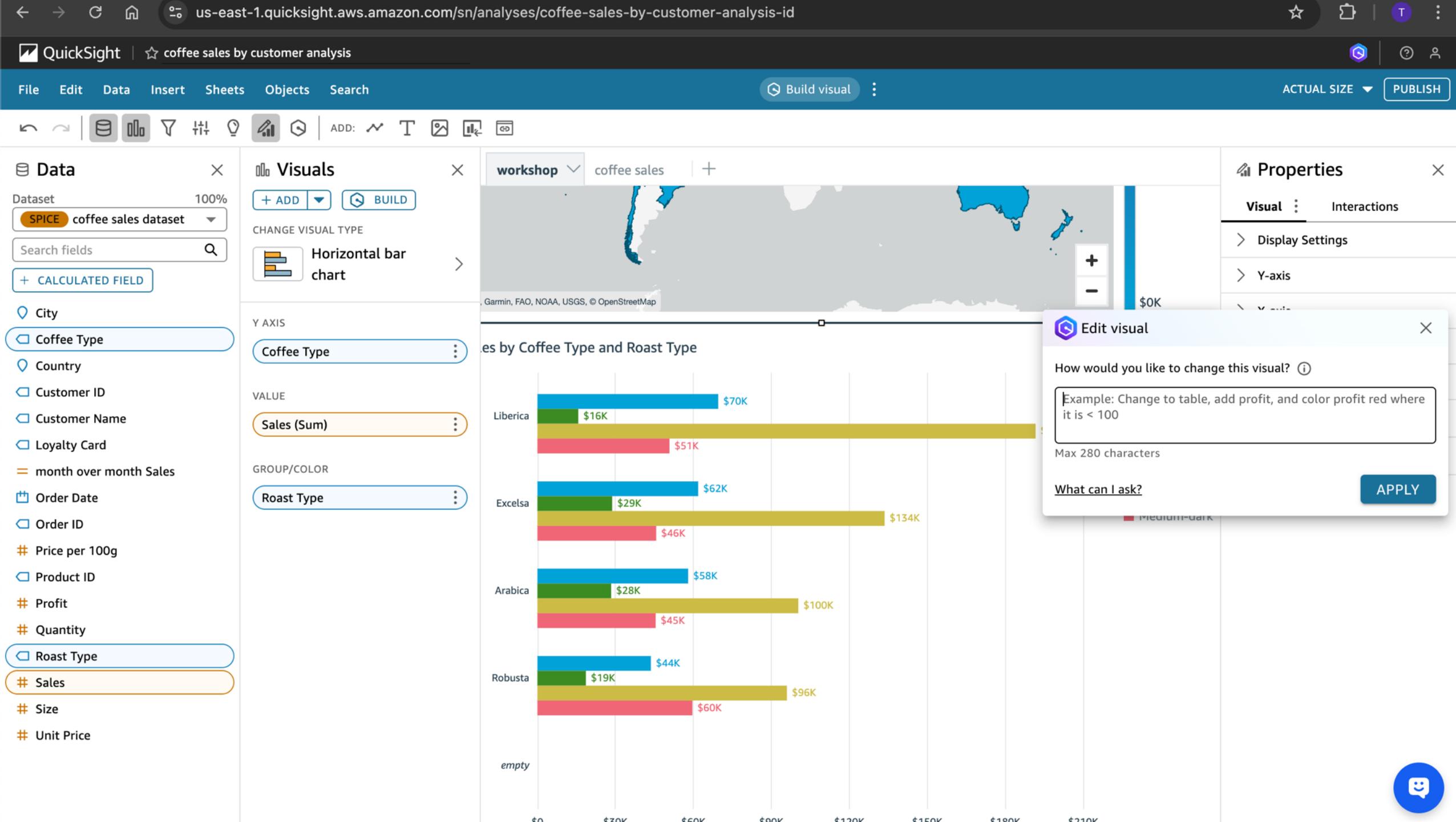












AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

► Initial setup

▼ Authoring experience

[Build & refine visuals using natural language](#)

Create calculations using natural language

► Reader experience

Scenarios

► Unstructured insights

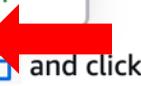
▼ AWS account access

[Open AWS console \(us-east-1\)](#)

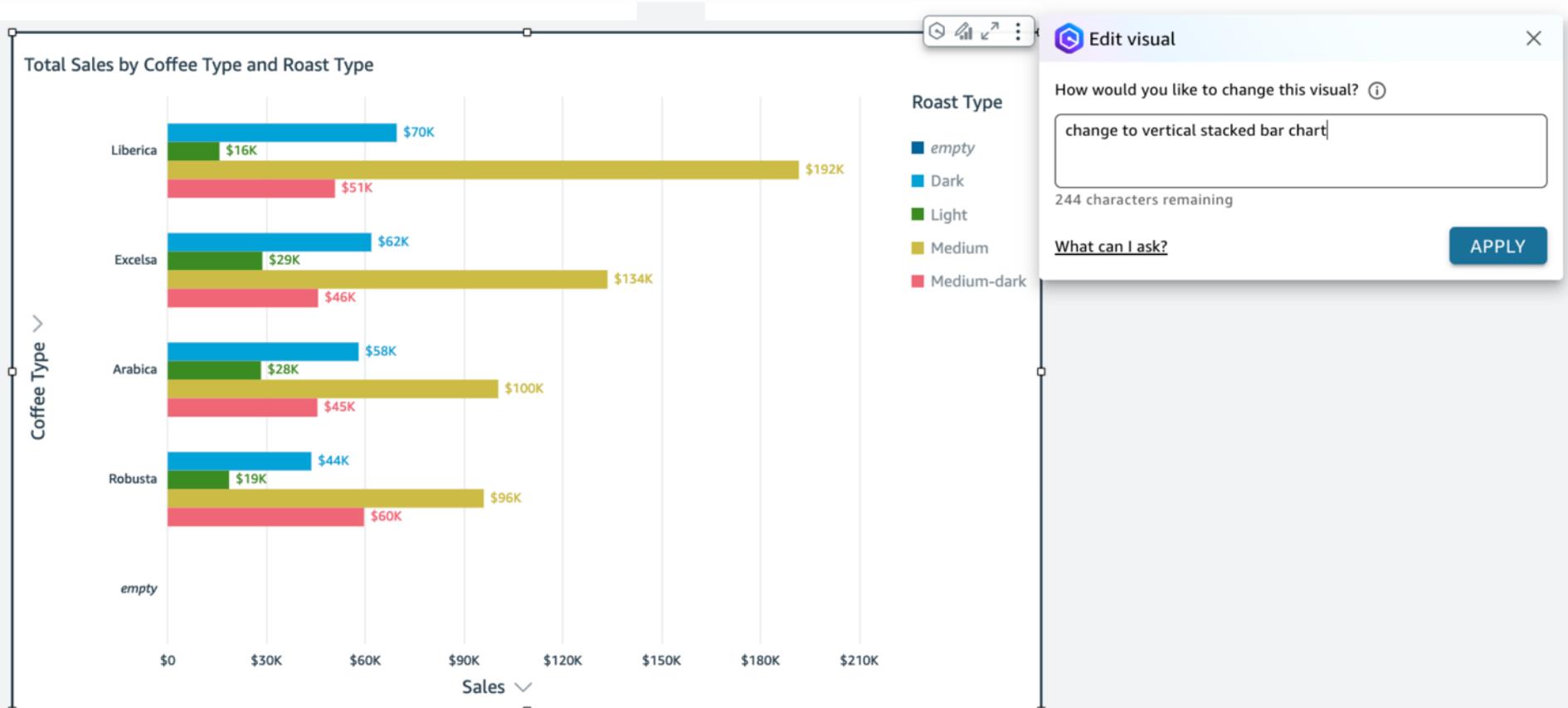
[Get AWS CLI credentials](#)

Exit event

Copied!



e. Refine visual with prompt change to vertical stacked bar chart and click **APPLY**



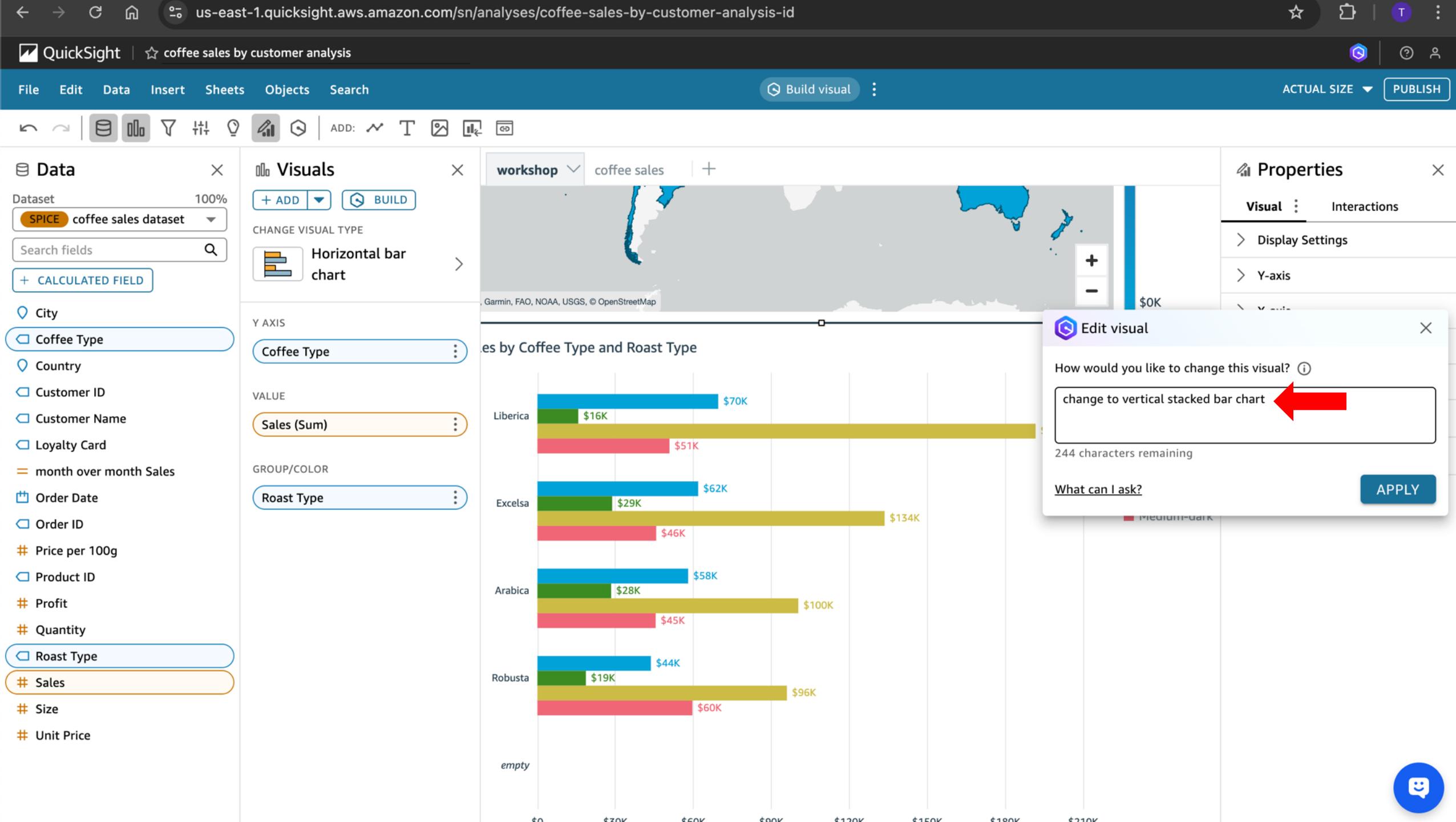
- Horizontal bar chart is now updated to **Vertical stacked bar chart**

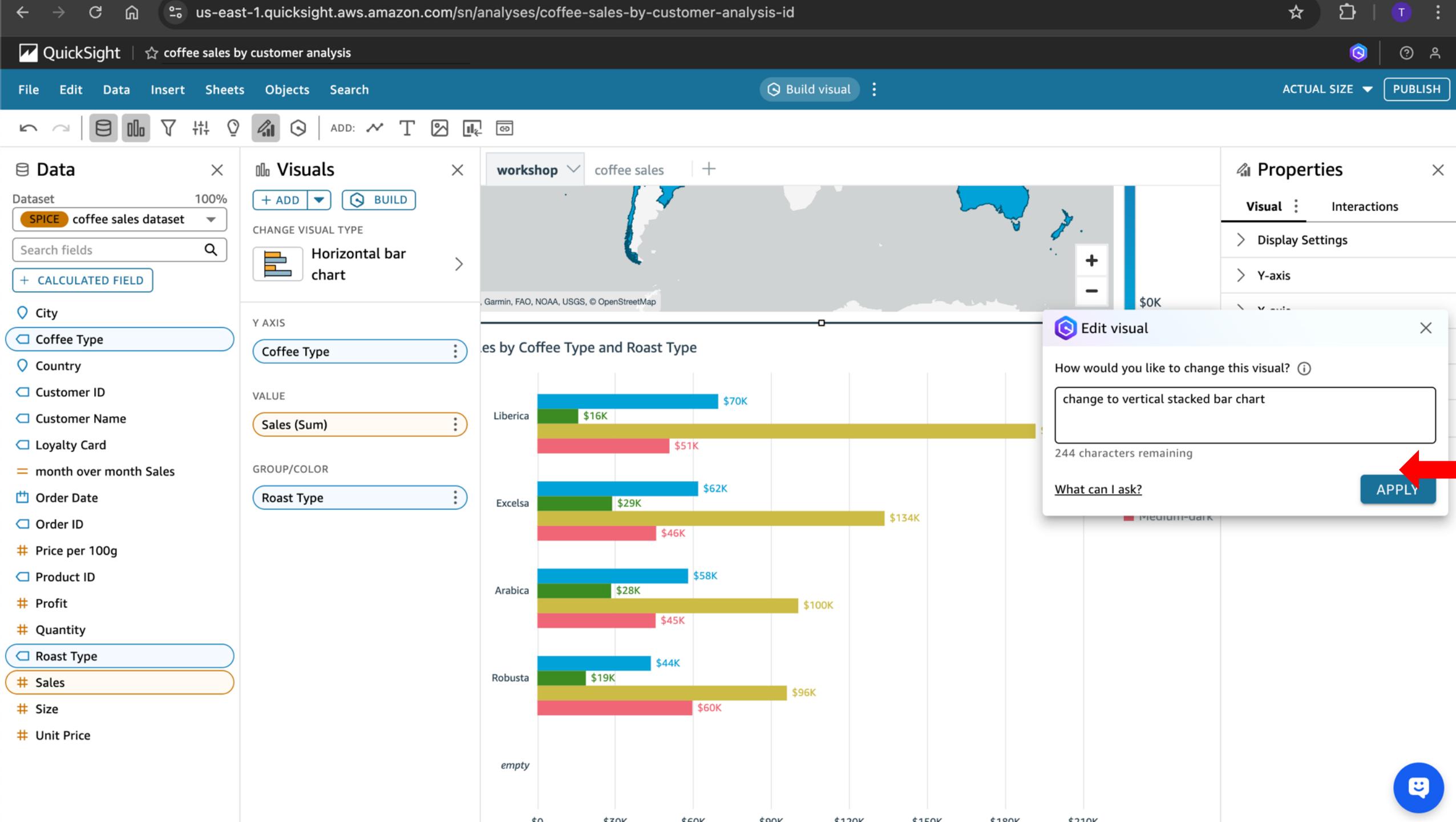
Total Sales by Roast Type and Coffee Type

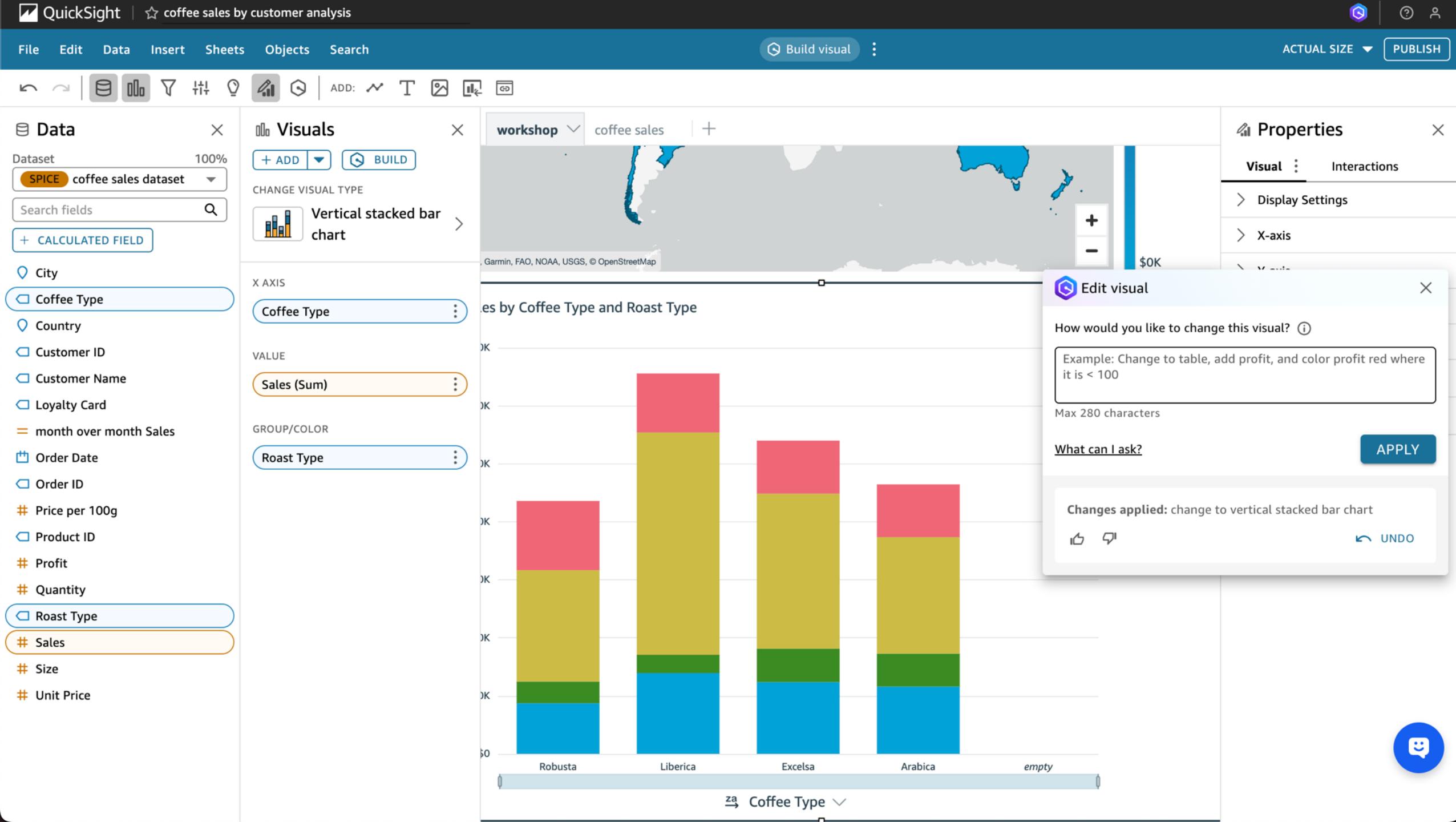
\$600K

Coffee Type









AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in
QuickSight: A step-by-step
workshop

► Initial setup

▼ Authoring experience

[Build & refine visuals using
natural language](#)

Create calculations using natural
language

► Reader experience

Scenarios

► Unstructured insights

▼ AWS account access

[Open AWS console
\(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

Exercise 8 – Find unique customers by country with Tree map

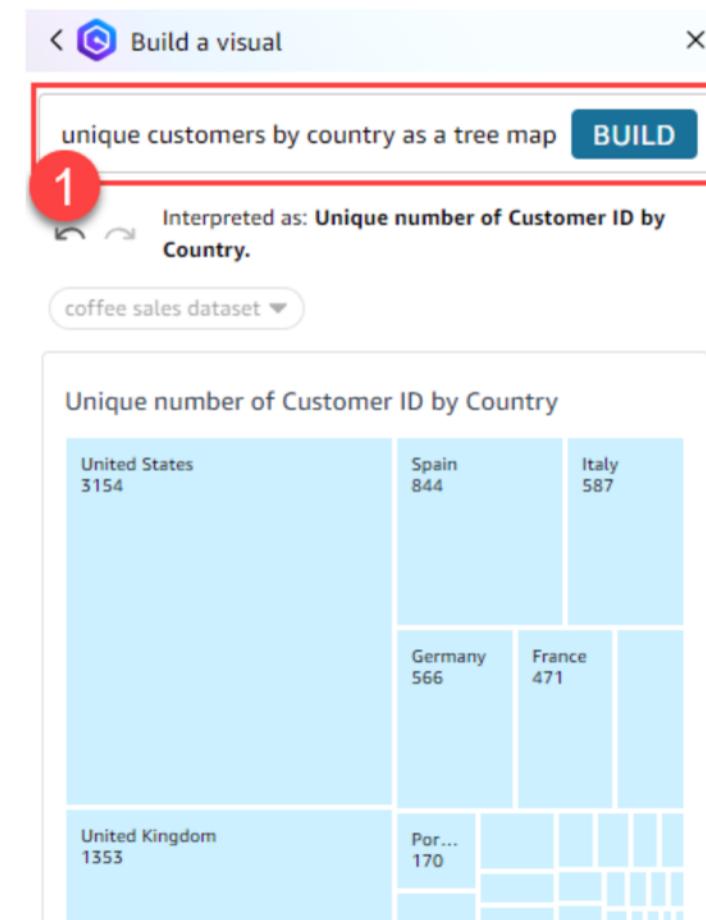
a. Click Build visual

Copied!



b. Enter prompt `unique customers by country as a tree map` and click **BUILD**

c. Click **ADD TO ANALYSIS**



QuickSight | ★ coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ⋮

ACTION SIZE ▾ PUBLISH

Data Visuals workshop coffee sales +

Dataset: SPICE coffee sales dataset 100% ADD: T G ADD: T G ADD: T G ADD: T G

Visuals: Vertical stacked bar chart

CHANGE VISUAL TYPE X AXIS: Coffee Type VALUE: Sales (Sum) GROUP/COLOR: Roast Type

Garmin, FAO, NOAA, USGS, © OpenStreetMap

Order Date between Jan 2, 2019 and Dec 25, 2024

unique customers by country as a tree map BUILD

Build a visual

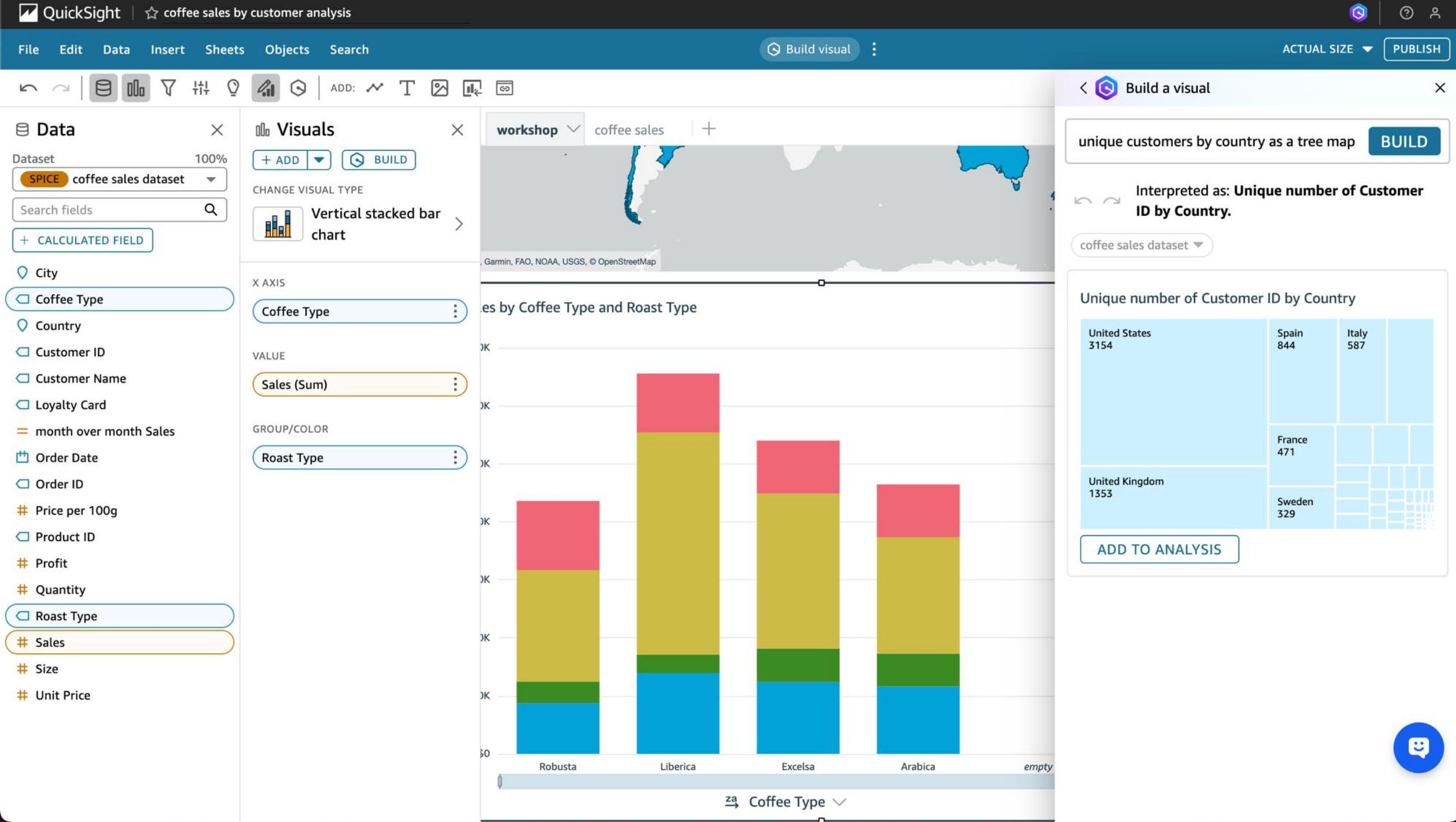
workshop coffee sales

Legend: Robusta (Blue), Liberica (Green), Excelsa (Yellow), Arabica (Red)

Stacked Bar Chart Data:

Coffee Type	Robusta	Liberica	Excelsa	Arabica	Total Sales
Robusta	\$10K	\$10K	\$10K	\$10K	\$40K
Liberica	\$15K	\$15K	\$15K	\$15K	\$60K
Excelsa	\$10K	\$10K	\$10K	\$10K	\$40K
Arabica	\$10K	\$10K	\$10K	\$10K	\$40K
empty	\$0	\$0	\$0	\$0	\$0

Feedback: ☺



QuickSight | ★ coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ...

ACTUAL SIZE ▾ PUBLISH

Data Visuals workshop coffee sales +

SPICE coffee sales dataset 100% ADD: T GO

CHANGE VISUAL TYPE Vertical stacked bar chart

X AXIS Coffee Type

VALUE Sales (Sum)

GROUP/COLOR Roast Type

coffee sales by Coffee Type and Roast Type

Robusta Liberica Excelsa Arabica empty

Garmin, FAO, NOAA, USGS, © OpenStreetMap

unique customers by country as a tree map BUILD

Interpreted as: Unique number of Customer ID by Country.

coffee sales dataset

Unique number of Customer ID by Country

Country	Customer ID
United States	3154
Spain	844
Italy	587
France	471
United Kingdom	1353
Sweden	329

ADD TO ANALYSIS

This screenshot shows the QuickSight interface with a vertical stacked bar chart and a tree map visualization. The bar chart displays coffee sales by coffee type (Robusta, Liberica, Excelsa, Arabica) and roast type. The tree map visualization shows unique customers by country. A red arrow points to the 'ADD TO ANALYSIS' button in the tree map panel.

Legend:

- SPICE coffee sales dataset
- Month over month Sales
- Order Date
- Order ID
- Price per 100g
- Product ID
- Profit
- Quantity
- Roast Type
- Sales
- Size
- Unit Price

DATA

Dataset: SPICE coffee sales dataset (100%)

Search fields:

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

VISUALS

+ ADD ▾ BUILD

CHANGE VISUAL TYPE: Tree map

GROUP BY: Country

SIZE: Customer ID (Count distinct)

COLOR: Add a measure

workshop coffee sales

Coffee Type Profit

Excelsa \$12K (27%)

Unique number of Customer ID by Country

Country	Customer ID (Count distinct)
United States	3154
United Kingdom	1353
Spain	844
France	471
Sweden	329

Country ▾ Customer ID ▾

unique customers by country as a tree map BUILD

Interpreted as: Unique number of Customer ID by Country.

coffee sales dataset

Unique number of Customer ID by Country

Country	Customer ID (Count distinct)
United States	3154
Spain	844
Italy	587
France	471
United Kingdom	1353
Sweden	329

ADD TO ANALYSIS

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

michael_tw_lin

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

Initial setup

Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

Reader experience

Scenarios

Unstructured insights

AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

Exit event

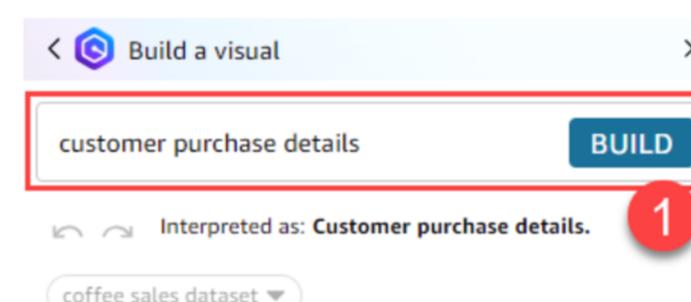
Exercise 9 – Build a table visual with customer purchase details and apply conditional formatting

a. Click Build visual

b. Enter prompt customer purchase details  and click BUILD.

c. Click ADD TO ANALYSIS





Customer purchase details

Customer Name	City
Aaron Adams	Manchester
Aaron Black	Portland
Aaron Black	Portland
Aaron Black	Portland
Aaron Blythe	Coventry
Aaron Dempster	Portland
Aaron Dempster	Portland
Aaron Dempster	Portland

QuickSight | ★ coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ⋮

ACTION SIZE ▾ PUBLISH

Data Visuals workshop coffee sales +

Dataset 100% SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

CHANGE VISUAL TYPE Tree map >

GROUP BY Country

SIZE Customer ID (Count distinct)

COLOR Add a measure

Unique number of Customer ID by Country

United States 3154

Spain 844

France 471

United Kingdom 1353

Sweden 329

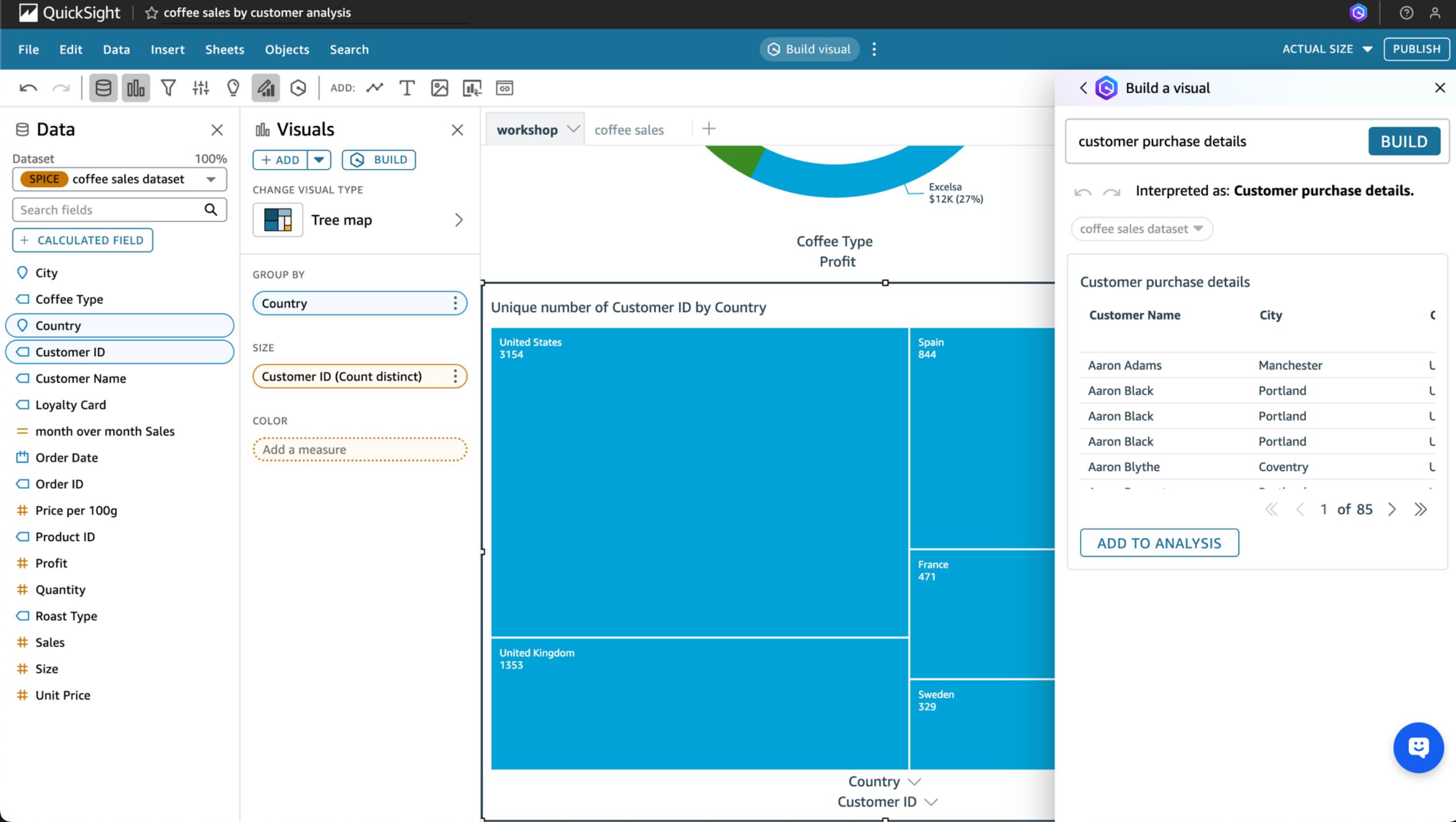
Coffee Type Profit

Excelsa \$12K (27%)

Build a visual Order Date between Jan 2, 2019 and Dec 25, 2024

customer purchase details BUILD

Feedback icon



QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ...

ACTUAL SIZE ▾ PUBLISH

Data Visuals workshop coffee sales +

customer purchase details BUILD

Interpreted as: Customer purchase details.

coffee sales dataset

Customer purchase details

Customer Name City

Customer Name	City
Aaron Adams	Manchester
Aaron Black	Portland
Aaron Black	Portland
Aaron Black	Portland
Aaron Blythe	Coventry

ADD TO ANALYSIS

The screenshot shows the QuickSight interface with the following components:

- Left Panel (Data):** Contains a dataset dropdown set to "SPICE coffee sales dataset" (100%), a search bar, and a list of fields: City, Coffee Type, Country, Customer ID, Customer Name, Loyalty Card, month over month Sales, Order Date, Order ID, Price per 100g, Product ID, Profit, Quantity, Roast Type, Sales, Size, and Unit Price.
- Middle Panel (Visuals):** Shows a "workshop" view for "coffee sales". A tree map visualization titled "Unique number of Customer ID by Country" displays the following data:

Country	Customer ID (Count distinct)
United States	3154
United Kingdom	1353
Spain	844
France	471
Sweden	329

The visualization has a header "Coffee Type Profit" and a legend indicating "Excelsa \$12K (27%)".
- Right Panel (Build a visual):** A sidebar titled "customer purchase details" with a "BUILD" button. It shows the interpreted data source as "coffee sales dataset". A table titled "Customer purchase details" lists customer names and cities. At the bottom is a red arrow pointing to a "ADD TO ANALYSIS" button.

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ...

ACTUAL SIZE ▾ PUBLISH

Data

- Dataset: SPICE coffee sales dataset (100%)
- Search fields: City, Coffee Type, Country, Customer ID, Customer Name, Loyalty Card, month over month Sales, Order Date, Order ID, Price per 100g, Product ID, Profit, Quantity, Roast Type, Sales, Size, Unit Price

Visuals

workshop coffee sales

CHANGE VISUAL TYPE: Table

GROUP BY: 7

Customer Name	City	Country	Loyalty Card	Product ID
Aaron Adams	Manchester	United Kingdom	Yes	A-L
Aaron Black	Portland	United States	Yes	A-D
Aaron Black	Portland	United States	Yes	A-L
Aaron Black	Portland	United States	Yes	A-M
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD
Amber Campbell	Portland	United States	Yes	A-D
Amber Campbell	Portland	United States	Yes	A-MD
Amber Campbell	Portland	United States	Yes	A-M
Beverly Carter	Dublin	Ireland	Yes	A-D
Carmen Hart	Portland	United States	Yes	A-D
Carmen Hart	Portland	United States	Yes	A-L
Deborah Kay	San Antonio	United States	Yes	A-M
Ed Conner	Stockholm	Sweden	No	A-D
Ed Conner	Stockholm	Sweden	No	A-M
Fiona Etherwaite	San Diego	United States	Yes	A-M
Giovanni Azevedo	Coimbra	Portugal	Yes	A-M

Add a dimension: Add a measure

Build a visual

customer purchase details **BUILD**

Interpreted as: Customer purchase details.

coffee sales dataset

Customer purchase details

Customer Name	City
Aaron Adams	Manchester
Aaron Black	Portland
Aaron Black	Portland
Aaron Black	Portland
Aaron Blythe	Coventry

1 of 85

ADD TO ANALYSIS

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data X

Dataset 100% SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales +

\$50K

\$0

Robusta Liberica Excelsa Arabica empty

Coffee Type

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID	Roast Type	Coffe
Aaron Adams	Manchester	United Kingdom	Yes	A-L	Light	Arabi
Aaron Black	Portland	United States	Yes	A-D	Dark	Arabi
Aaron Black	Portland	United States	Yes	A-L	Light	Arabi
Aaron Black	Portland	United States	Yes	A-M	Medium	Arabi
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD	Medium-dark	Arabi
Aaron Dempster	Portland	United States	Yes	A-D	Dark	Arabi
Aaron Dempster	Portland	United States	Yes	A-M	Medium	Arabi
Aaron Dempster	Portland	United States	Yes	A-MD	Medium-dark	Arabi
Aaron McIver	Dublin	Ireland	Yes	A-D	Dark	Arabi
Aaron McCarthy	Portland	United States	Yes	A-D	Dark	Arabi
Aaron McCarthy	Portland	United States	Yes	A-L	Light	Arabi
Aaron McKay	San Antonio	United States	Yes	A-M	Medium	Arabi
Aaron O'Conner	Stockholm	Sweden	No	A-D	Dark	Arabi
Aaron O'Conner	Stockholm	Sweden	No	A-M	Medium	Arabi
Aaron Satterthwaite	San Diego	United States	Yes	A-M	Medium	Arabi
Abelarda Azevedo	Coimbra	Portugal	Yes	A-M	Medium	Arabi

Properties

Visual Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

Feedback

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual :

ACTUAL SIZE ▾ PUBLISH

ADD:

Data X

Dataset 100%
SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales +

\$50K
\$0

Robusta Liberica Excelsa Arabica empty

Coffee Type

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID	Roast Type	Coffe
Aaron Adams	Manchester	United Kingdom	Yes	A-L	Light	Arabi
Aaron Black	Portland	United States	Yes	A-D	Dark	Arabi
Aaron Black	Portland	United States	Yes	A-L	Light	Arabi
Aaron Black	Portland	United States	Yes	A-M	Medium	Arabi
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD	Medium-dark	Arabi
Aaron Dempster	Portland	United States	Yes	A-D	Dark	Arabi
Aaron Dempster	Portland	United States	Yes	A-M	Medium	Arabi
Aaron Dempster	Portland	United States	Yes	A-MD	Medium-dark	Arabi
Aaron McIver	Dublin	Ireland	Yes	A-D	Dark	Arabi
Aaron McCarthy	Portland	United States	Yes	A-D	Dark	Arabi
Aaron McCarthy	Portland	United States	Yes	A-L	Light	Arabi
Aaron McKay	San Antonio	United States	Yes	A-M	Medium	Arabi
Aaron O'Conner	Stockholm	Sweden	No	A-D	Dark	Arabi
Aaron O'Conner	Stockholm	Sweden	No	A-M	Medium	Arabi
Aaron Satterthwaite	San Diego	United States	Yes	A-M	Medium	Arabi
Abelarda Azevedo	Coimbra	Portugal	Yes	A-M	Medium	Arabi

Properties

Visual Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data X

Dataset 100% SPICE coffee sales dataset

Search fields

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales +

\$50K

\$0

Robusta Liberica Excelsa Arabica empty

Coffee Type

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID	Roast Type	Coffee Type
Aaron Adams	Manchester	United Kingdom	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Black	Portland	United States	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD	Medium-dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Dempster	Portland	United States	Yes	A-MD	Medium-dark	Arabica
Aaron McIver	Dublin	Ireland	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-L	Light	Arabica
Aaron McKay	San Antonio	United States	Yes	A-M	Medium	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-D	Dark	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-M	Medium	Arabica
Aaron Satterthwaite	San Diego	United States	Yes	A-M	Medium	Arabica
Abelarda Azevedo	Coimbra	Portugal	Yes	A-M	Medium	Arabica

Properties X

Visual Interactions

Display Settings

Headers

Edit visual

How would you like to change this visual? ⓘ

Example: Change to table, add profit, and color profit red where it is < 100

Max 280 characters

What can I ask?

Conditional formatting

APPLY

Feedback

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/build-and-refine-visuals-using-natural-language

aws workshop studio

michael_tw_lin

AmazonQ-dryrun-20250318

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID
Aaron Adams	Manchester	United Kingdom	Yes	A-L
Aaron Black	Portland	United States	Yes	A-D
Aaron Black	Portland	United States	Yes	A-L
Aaron Black	Portland	United States	Yes	A-M
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD
Aaron Dempster	Portland	United States	Yes	A-D
Aaron Dempster	Portland	United States	Yes	A-M
Aaron Dempster	Portland	United States	Yes	A-MD
Aaron McIver	Dublin	Ireland	Yes	A-D
Aaron McCarthy	Portland	United States	Yes	A-D

View: 500 items < < 1 of 85 > >

1. Select Edit with Q on table visual and enter prompt color red where sales < 1000 and click APPLY

2. color red where sales < 1000

3. APPLY

Copied!

Customer purchase details

Country	Loyalty Card	Product ID	Roast Type	Coffee Type	Quantity	Sales
United Kingdom	Yes	A-L	Light	Arabica	2	\$16
United States	Yes	A-D	Dark	Arabica	8	\$70
United States	Yes	A-L	Light	Arabica	2	\$16

Based on the prompt, Table visual is now updated with conditional formatting applied. Sales field cell values with <1000 are highlighted in red.

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data X

Dataset 100% SPICE coffee sales dataset Search fields + CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales +

\$50K

\$0

Robusta Liberica Excelsa Arabica empty

Coffee Type

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID	Roast Type	Coffee Type
Aaron Adams	Manchester	United Kingdom	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Black	Portland	United States	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD	Medium-dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Dempster	Portland	United States	Yes	A-MD	Medium-dark	Arabica
Aaron McIver	Dublin	Ireland	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-L	Light	Arabica
Aaron McKay	San Antonio	United States	Yes	A-M	Medium	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-D	Dark	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-M	Medium	Arabica
Aaron Satterthwaite	San Diego	United States	Yes	A-M	Medium	Arabica
Abelarda Azevedo	Coimbra	Portugal	Yes	A-M	Medium	Arabica

Properties X

Visual Interactions

Display Settings

Headers

Edit visual

How would you like to change this visual? color red where sales < 1000

252 characters remaining

What can I ask?

APPLY

Conditional formatting

Smile icon

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ACTUAL SIZE PUBLISH

Data workshop coffee sales +

Dataset SPICE coffee sales dataset 100% Search fields + CALCULATED FIELD

City Coffee Type Country Customer ID Customer Name Loyalty Card month over month Sales Order Date Order ID Price per 100g Product ID Profit Quantity Roast Type Sales Size Unit Price

coffee sales

\$50K \$0 Robusta Liberica Excelsa Arabica empty

Coffee Type

Customer purchase details

Customer Name	City	Country	Loyalty Card	Product ID	Roast Type	Coffee
Aaron Adams	Manchester	United Kingdom	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Black	Portland	United States	Yes	A-L	Light	Arabica
Aaron Black	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Blythe	Coventry	United Kingdom	Yes	A-MD	Medium-dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-D	Dark	Arabica
Aaron Dempster	Portland	United States	Yes	A-M	Medium	Arabica
Aaron Dempster	Portland	United States	Yes	A-MD	Medium-dark	Arabica
Aaron McIver	Dublin	Ireland	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-D	Dark	Arabica
Aaron McCarthy	Portland	United States	Yes	A-L	Light	Arabica
Aaron McKay	San Antonio	United States	Yes	A-M	Medium	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-D	Dark	Arabica
Aaron O'Conner	Stockholm	Sweden	No	A-M	Medium	Arabica
Aaron Satterthwaite	San Diego	United States	Yes	A-M	Medium	Arabica
Abelarda Azevedo	Coimbra	Portugal	Yes	A-M	Medium	Arabica

Properties Visual Interactions

Display Settings Headers

Edit visual How would you like to change this visual? color red where sales < 1000 252 characters remaining What can I ask? APPLY Conditional formatting

APPLY

Feedback

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual : ACTUAL SIZE ▾ PUBLISH

Data X

Dataset 100% SPICE coffee sales dataset

Search fields Q

+ CALCULATED FIELD

City

Coffee Type

Country

Customer ID

Customer Name

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales +

Coffee Type

purchase details

Country	Loyalty Card	Product ID	Roast Type	Coffee Type	Quantity	Sales
United Kingdom	Yes	A-L	Light	Arabica	2	\$16
United States	Yes	A-D	Dark	Arabica	8	\$70
United States	Yes	A-L	Light	Arabica	2	\$16
United States	Yes	A-M	Medium	Arabica	2	\$17
United Kingdom	Yes	A-MD	Medium-dark	Arabica	2	\$17
United States	Yes	A-D	Dark	Arabica	2	\$18
United States	Yes	A-M	Medium	Arabica	3	\$25
United States	Yes	A-MD	Medium-dark	Arabica	4	\$34
Ireland	Yes	A-D	Dark	Arabica	2	\$18
United States	Yes	A-D	Dark	Arabica	1	\$9
United States	Yes	A-L	Light	Arabica	3	\$23
United States	Yes	A-M	Medium	Arabica	3	\$25
Sweden	No	A-D	Dark	Arabica	4	\$35
Sweden	No	A-M	Medium	Arabica	8	\$66
United States	Yes	A-M	Medium	Arabica	1	\$8
Portugal	Yes	A-M	Medium	Arabica	8	\$66

View: 500 items ▾ < < 1 of 85 > >>

Properties

Visual Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

Chat icon

AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

Build & refine visuals using natural language

[Create calculations using natural language](#)

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

[Open AWS console
\(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event



Create calculations using natural language

In this section, we will create calculations using natural language and learn how to use them in building visuals.

Exercise 1 – Create calculation to find customers who bought Arabica coffee

a. Click CALCULATED FIELD

The screenshot shows the QuickSight interface with the title "coffee sales by customer analysis". The top navigation bar includes File, Edit, Data, Insert, Sheets, Objects, and Search. Below the title, there are icons for back, forward, search, and other functions. The main area is divided into two panels: "Data" on the left and "Visuals" on the right. The "Data" panel shows a dataset named "SPICE coffee sales dataset" and a "Search fields" input field. The "Visuals" panel has a "+ ADD" button and a "BUILD" button. At the bottom, it says "Select or add a visual". A red box highlights the "+ CALCULATED FIELD" button in the Data panel.

b. Add label Arabica customers and click Build calculation

The screenshot shows a modal dialog titled "Add calculated field". Inside, there is an input field containing the text "Arabica customers" with a pencil icon to its right. A red box highlights the input field. Below the input field, there is a large red circular button with a white exclamation mark inside.



Find analyses & more

Analyses New analysis

Favorites

Recent

My folders

Shared folders

Dashboards

Data stories

Scenarios

Analyses

Datasets

Community

Topics

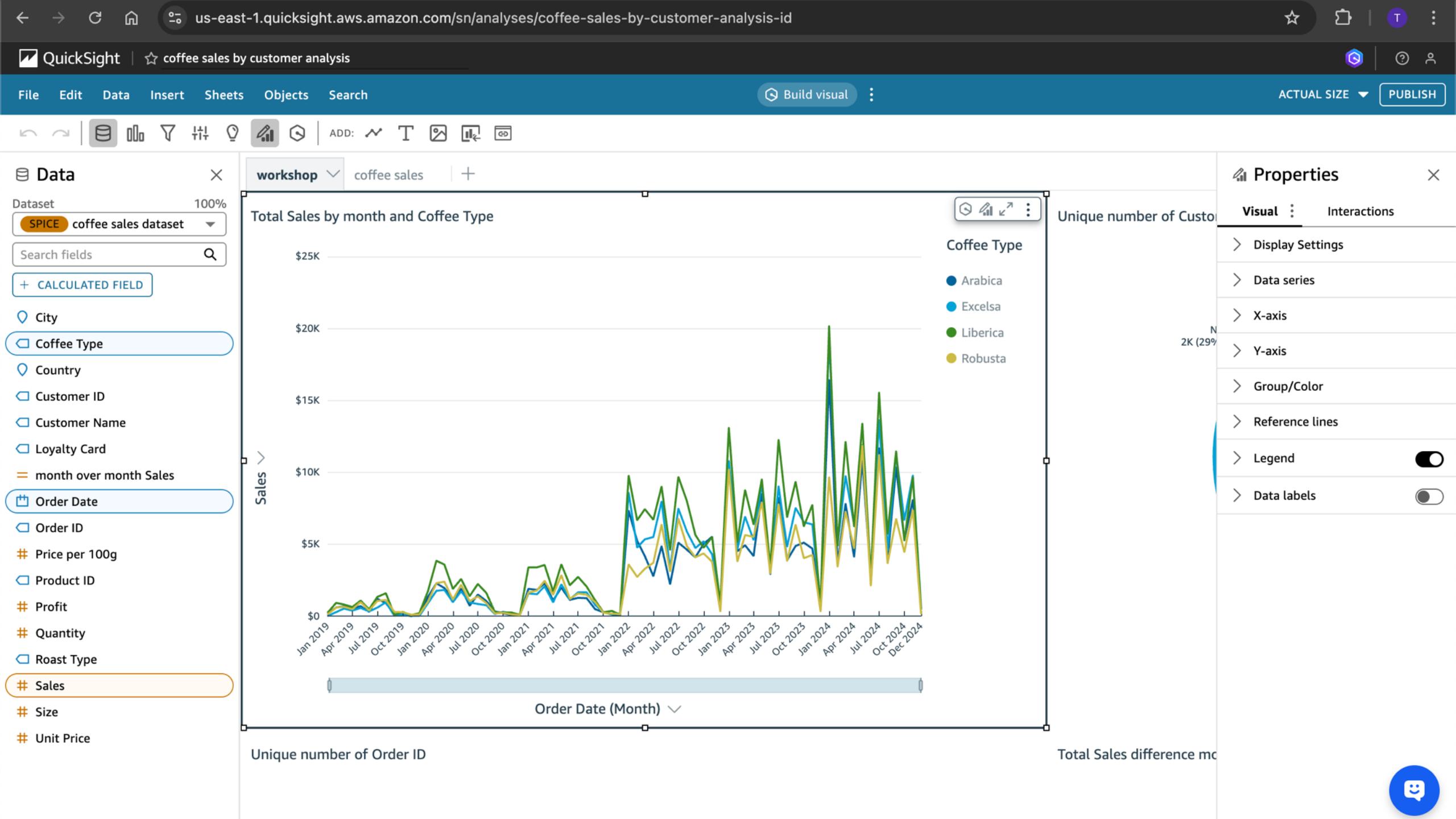
Analyses

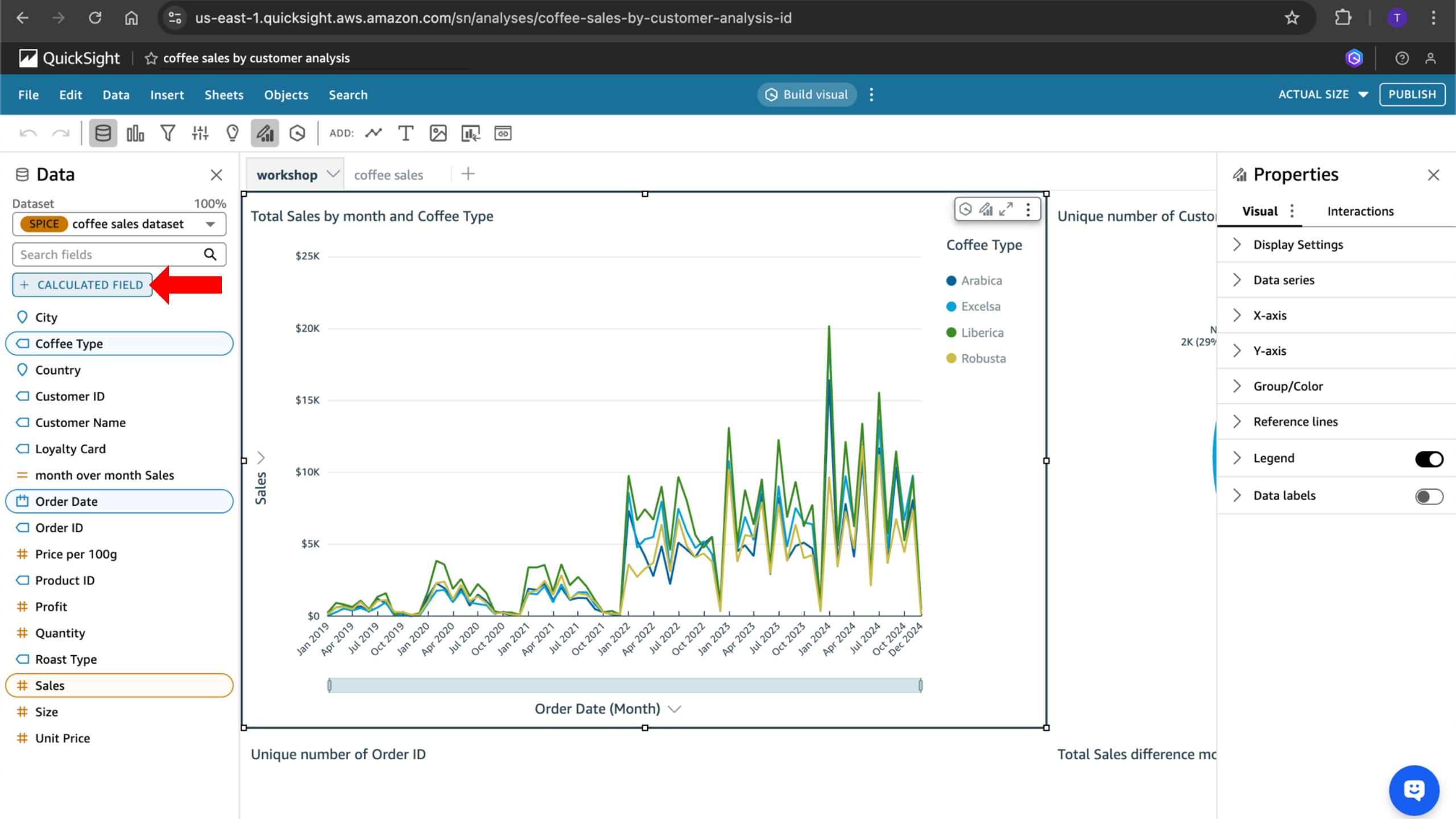
Analysis

coffee sales by customer

Updated 9 minutes ago







Add calculated field

Add name

Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

Build & refine visuals using natural language

[Create calculations using natural language](#)

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

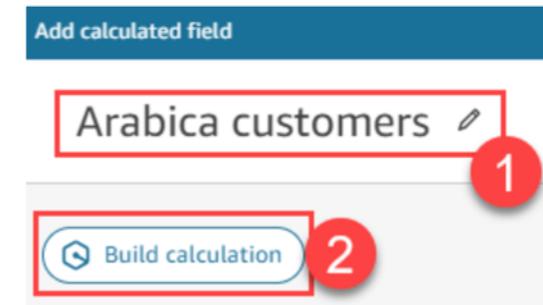
[Open AWS console
\(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

Copied!

b. Add label Arabica customers and click Build calculation



c. Enter prompt number of customers who bought Arabica coffee in the Q bar - click BUILD to generate the calculation - click INSERT too add calculation to editor.



- New calculation is now added to editor. Click **SAVE**.

Add calculated field



Add calculated field

Arabica customers

Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field



X

Arabica customers

Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

Arabica customers

Cancel

Save

Build calculation

What calculation would you like to build?

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

1

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/create-calculations-using-natural-language

aws workshop studio michael_tw_lin

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

Initial setup

Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

Reader experience

Scenarios

Unstructured insights

AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

Exit event

c. Enter prompt number of customers who bought Arabica coffee in the Q bar - click BUILD to generate the calculation - click INSERT too add calculation to editor.

Add calculated field

Arabica customers

Build calculation

What calculation would you like to build? ①

number of customers who bought Arabica coffee ①

Learn more | 235 characters remaining

distinctCountOver({Customer ID}, [{Coffee Type}], PRE_FILTER) ②

BUILD ②

✓ INSERT ③

New calculation is now added to editor. Click **SAVE**.

Add calculated field

Arabica customers

Save ④

Build calculation

What calculation would you like to build? ⑤

Describe the calculation

BUILD

Fields

Parameters

Functions

Search functions

Copied!

Add calculated field



X

Arabica customers

Cancel

Save

Build calculation



What calculation would you like to build?

number of customers who bought Arabica coffee

BUILD

[Learn more](#) | 235 characters remaining

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



← → C ⌂ us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id ⌂ ☆ | T : X

Add calculated field

Arabica customers ↴

Cancel Save

Build calculation

What calculation would you like to build? ⓘ

number of customers who bought Arabica coffee

Learn more | 235 characters remaining

BUILD

Fields

Parameters

Functions

Search functions

All

- TO_LOWER
- TO_UPPER
- abs
- addDateTime
- addWorkDays
- avg
- avgIf
- avgOver
- ceil
- coalesce
- concat
- contains
- count
- countIf
- countOver
- isDiff

1

Smile icon

Add calculated field

Arabica customers

Cancel

Save

Build calculation



What calculation would you like to build?

number of customers who bought Arabica coffee

BUILD

Learn more | 235 characters remaining

distinctCountOver({Customer ID}, [{Coffee Type}], PRE_FILTER)



✓ INSERT

1

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field



Arabica customers

Cancel

Save

Build calculation

What calculation would you like to build?

number of customers who bought Arabica coffee

BUILD

Learn more | 235 characters remaining

distinctCountOver({Customer ID}, [{Coffee Type}], PRE_FILTER)

Insert expression into editor



Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

Arabica customers

Cancel

Save

Build calculation

What calculation would you like to build?

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

```
1 /*  
2 (AI generated) number of customers who bought Arabica coffee  
3 */  
4 distinctCountOver({Customer ID}, [{Coffee Type}], PRE_FILTER)
```

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

Cancel

Save

Arabica customers

Build calculation

What calculation would you like to build?

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

```
1 /*  
2 (AI generated) number of customers who bought Arabica coffee  
3 */  
4 distinctCountOver({Customer ID}, [{Coffee Type}], PRE_FILTER)
```

X

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

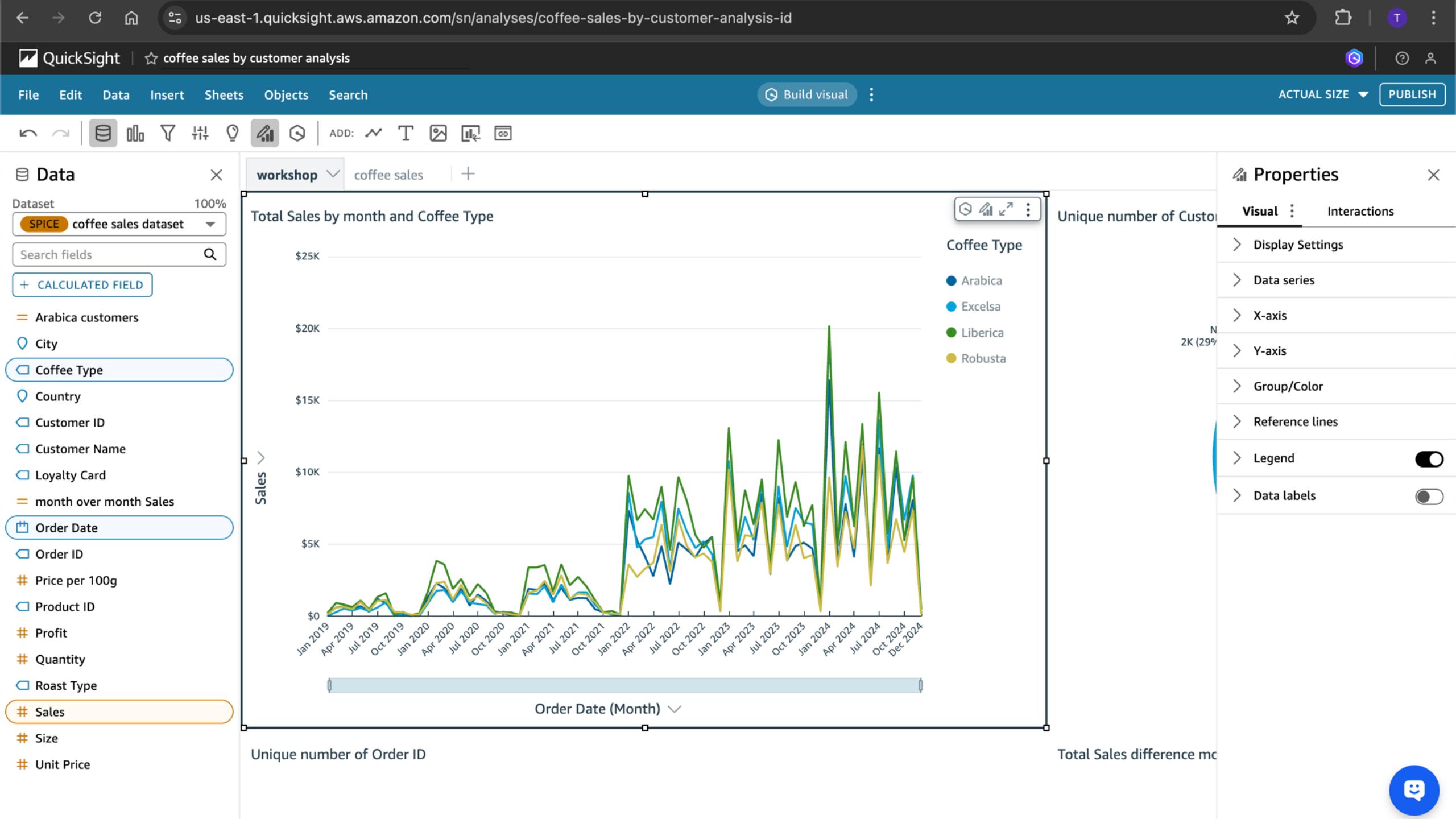
contains

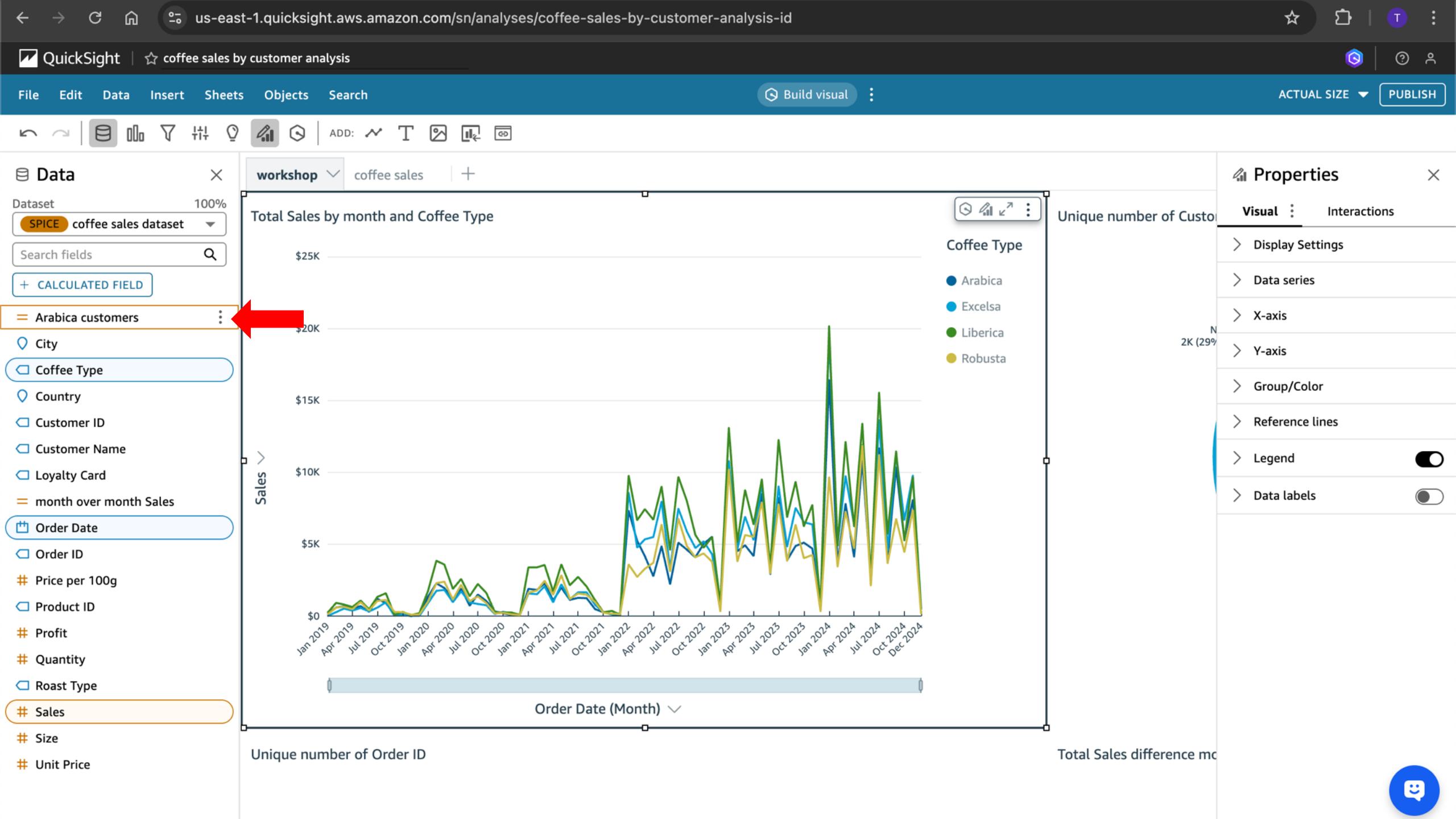
count

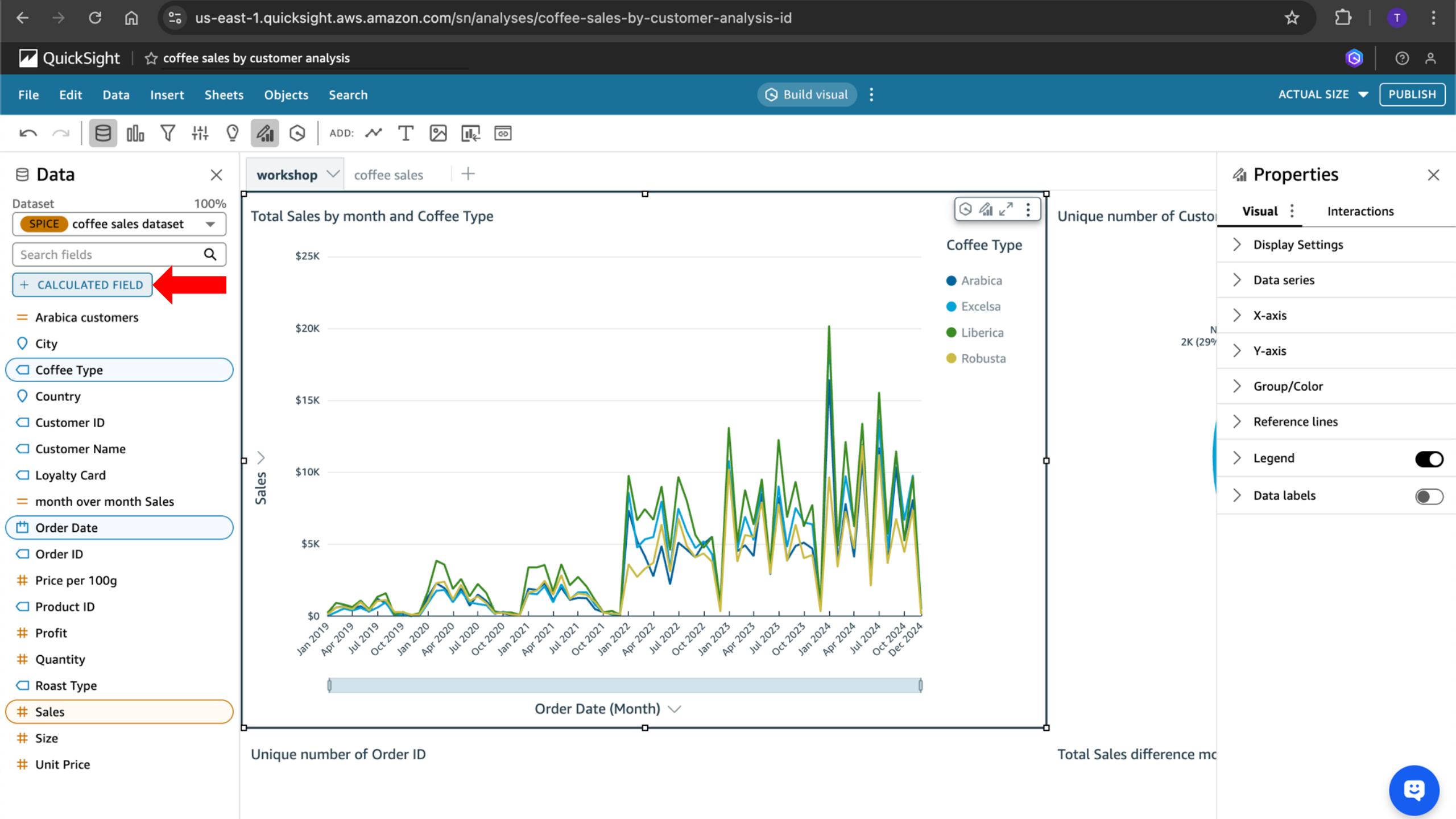
countIf

countOver









Add calculated field

Add name

Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

Build & refine visuals using natural language

[Create calculations using natural language](#)

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

[Open AWS console
\(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

Exercise 2 – Create calculation for discounted coffee price

a. Click CALCULATED FIELD

Copied!



b. Add label discounted coffee price and click Build calculation

c. Enter prompt create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa in the Q bar - click BUILD to generate the calculation - click INSERT too add calculation to editor.

The screenshot shows the 'Add calculated field' dialog. Step 1 highlights the input field 'discounted coffee price'. Step 2 highlights the text entry area containing the prompt 'create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa'. Step 3 highlights the 'BUILD' button. Step 4 highlights the 'INSERT' button.

d. Click SAVE

The screenshot shows the 'Add calculated field' dialog with the label 'discounted coffee price'. The 'Save' button is highlighted with a red box.



Add calculated field

discounted coffee price



Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

discounted coffee price

Cancel

Save

Build calculation

1

Fields

Parameters

Functions

Search functions



All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

discounted coffee price 

Cancel

Save

 Build calculationWhat calculation would you like to build? 

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

1

Fields

Parameters

Functions

Search functions 

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



AmazonQ-dryrun-
20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

▶ Initial setup

▼ Authoring experience

Build & refine visuals using natural language

[Create calculations using natural language](#)

▶ Reader experience

Scenarios

▶ Unstructured insights

▼ AWS account access

[Open AWS console
\(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

b. Add label discounted coffee price and click **Build calculation**

Copied!

c. Enter prompt create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa in the Q bar - click **BUILD** to generate the calculation - click **INSERT** too add calculation to editor.

The screenshot shows the 'Add calculated field' dialog. Step 1 highlights the input field 'discounted coffee price'. Step 2 highlights the text entry area where the prompt 'create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa' is entered. Step 3 highlights the 'BUILD' button. Step 4 highlights the 'INSERT' button.

d. Click **SAVE**

The screenshot shows the 'Add calculated field' dialog with the 'discounted coffee price' label. The 'Save' button is highlighted. The code preview area shows the generated code:

```
1 /*  
2 (AI generated) create discounted price as 20% off  
unit price for Coffee Type Arabica and Excelsa
```



Add calculated field

discounted coffee price

Cancel

Save

Build calculation

What calculation would you like to build?

create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa

BUILD

Learn more | 199 characters remaining

1

Fields

Parameters

Functions

Search functions 

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



← → ⌂ us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id ⌂ ☆ | T : X

Add calculated field

discounted coffee price

Cancel 

 Build calculation

What calculation would you like to build? 

create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa

[Learn more](#) | 199 characters remaining

Fields

Parameters

Functions

Search functions 

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

discounted coffee price

Cancel

Save

Build calculation



What calculation would you like to build?

create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa

BUILD

Learn more | 199 characters remaining

```
ifelse(in({Coffee Type}, ['Arabica', 'Excelsa']), {Unit Price} * 0.8, {Unit Price})
```



INSERT

1

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field



discounted coffee price

Cancel

Save

Build calculation



What calculation would you like to build?

create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa

BUILD

Learn more | 199 characters remaining

```
ifelse(in({Coffee Type}, ['Arabica', 'Excelsa']), {Unit Price} * 0.8, {Unit Price})
```



INSERT

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver

1

Add calculated field

discounted coffee price

Cancel

Save

Build calculation

What calculation would you like to build?

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

```
1 /*  
2 (AI generated) create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa  
3 */  
4 ifelse(in({Coffee Type}, ['Arabica', 'Excelsa']), {Unit Price} * 0.8, {Unit Price})
```

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countIf

countOver



Add calculated field

Cancel

Save

discounted coffee price

Build calculation

What calculation would you like to build?

Describe the calculation

BUILD

[Learn more](#) | Max 280 characters

```
1 /*  
2 (AI generated) create discounted price as 20% off unit price for Coffee Type Arabica and Excelsa  
3 */  
4 ifelse(in({Coffee Type}, ['Arabica', 'Excelsa']), {Unit Price} * 0.8, {Unit Price})
```

Fields

Parameters

Functions

Search functions

All

TO_LOWER

TO_UPPER

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

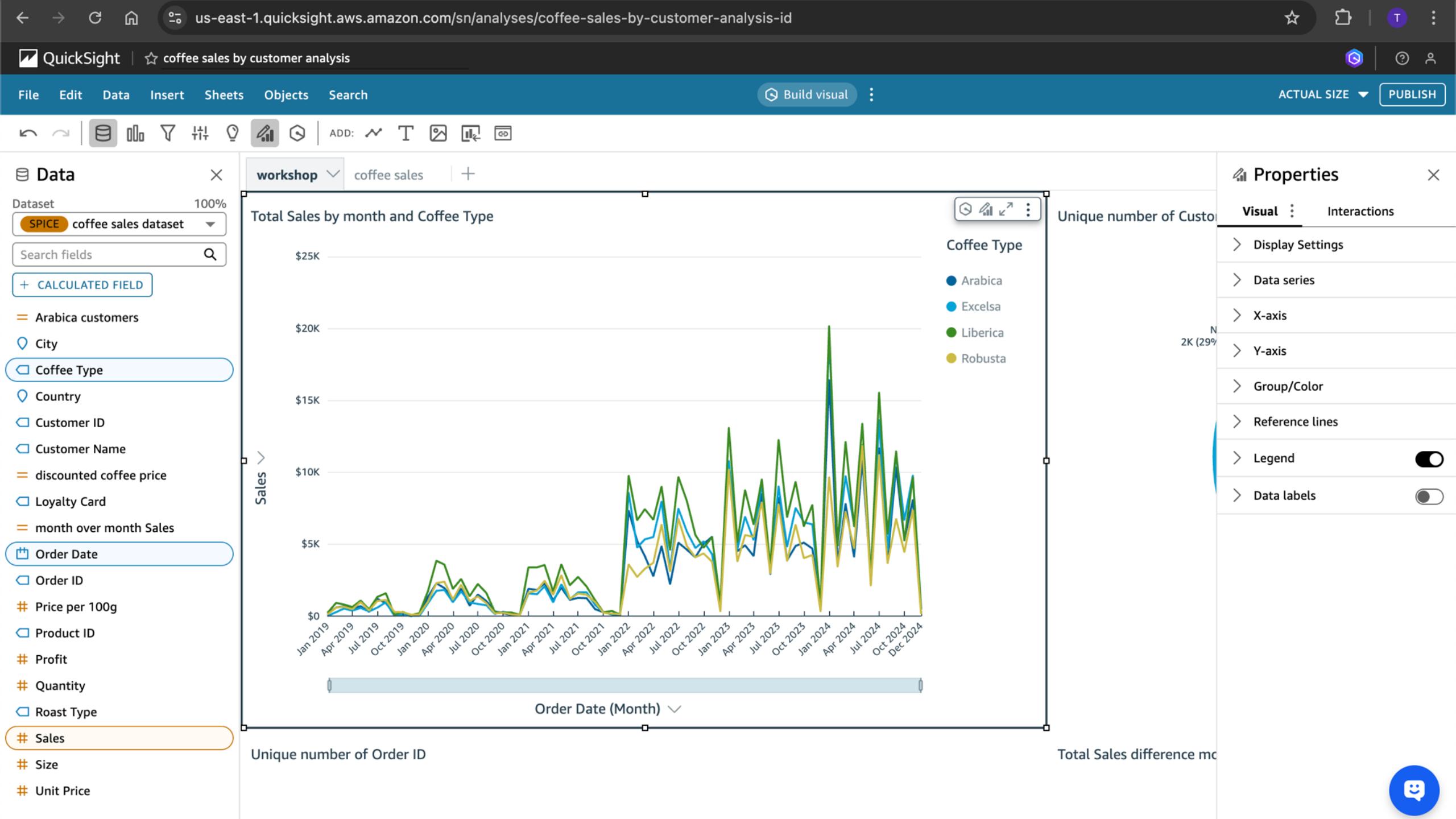
contains

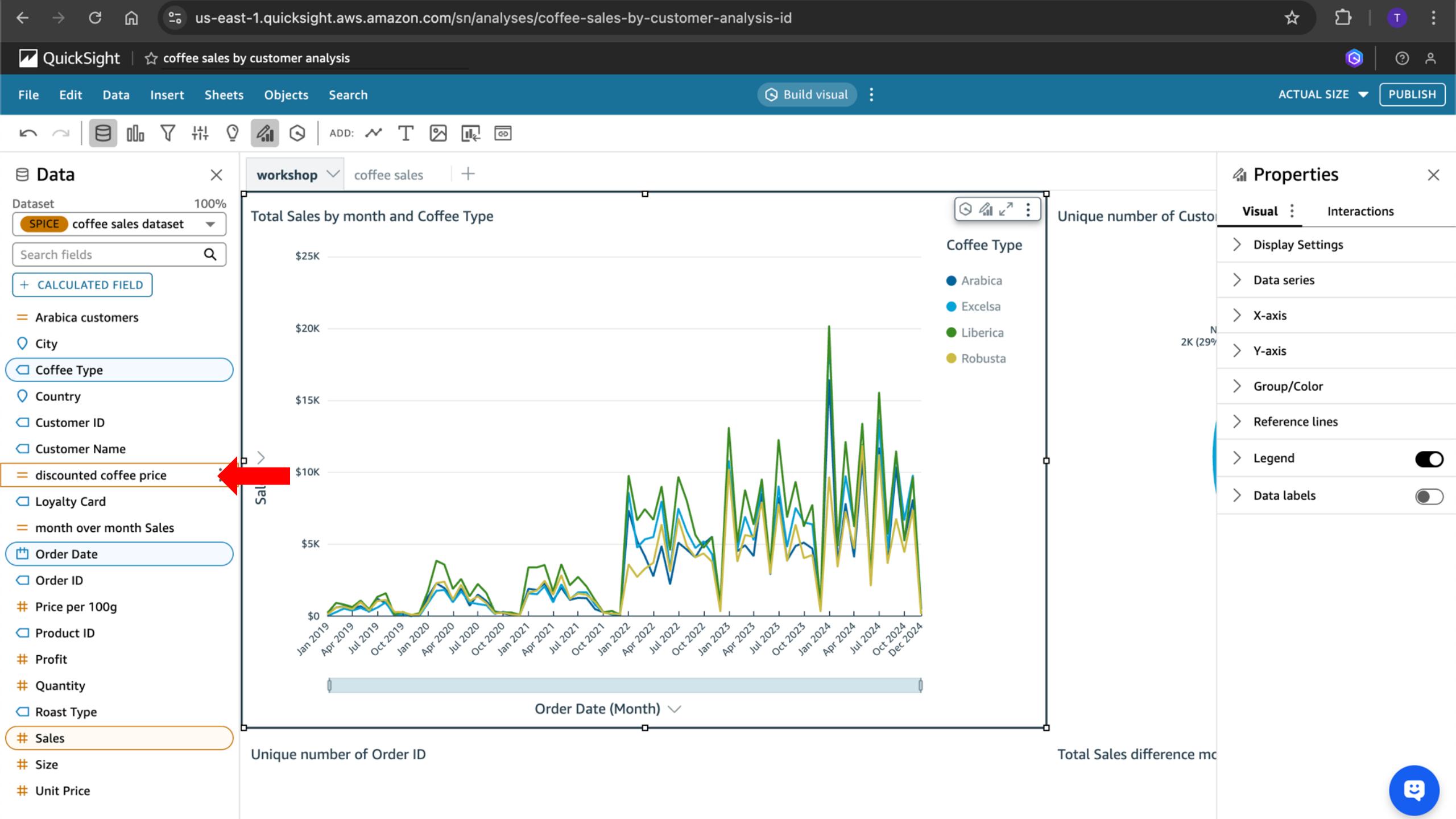
count

countIf

countOver







catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/create-calculations-using-natural-language

aws workshop studio

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

Initial setup

Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

Reader experience

Scenarios

Unstructured insights

AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

Exit event

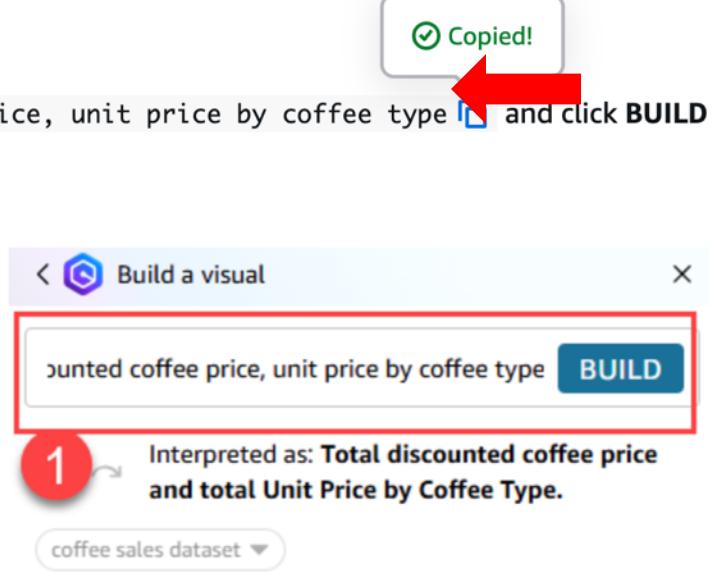
Optional: Exercise 3 - Let's try building a visual with the above calculated field

a. Click Build visual

b. Enter prompt show discounted coffee price, unit price by coffee type  and click BUILD

c. Click ADD TO ANALYSIS

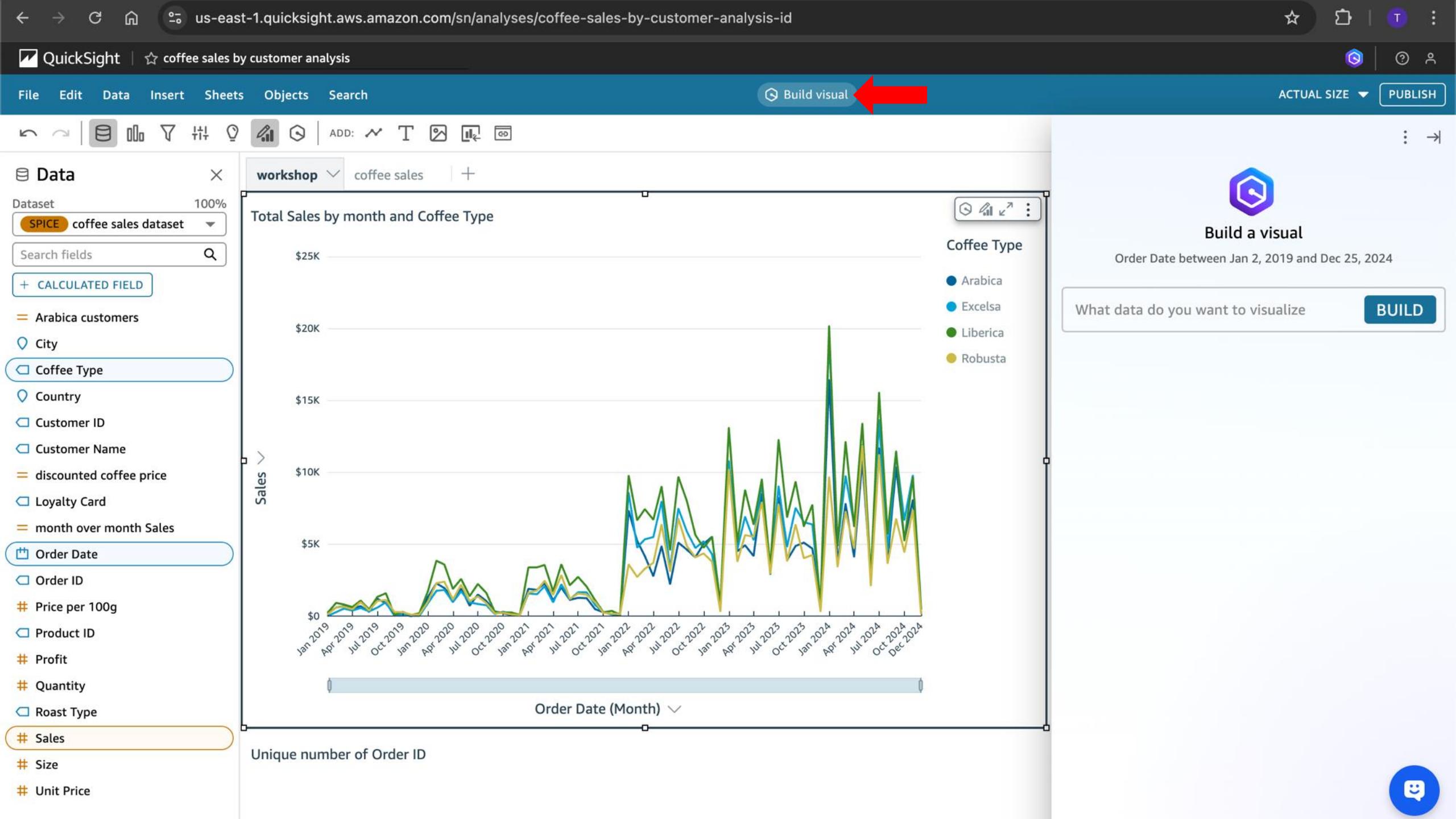
 Copied!

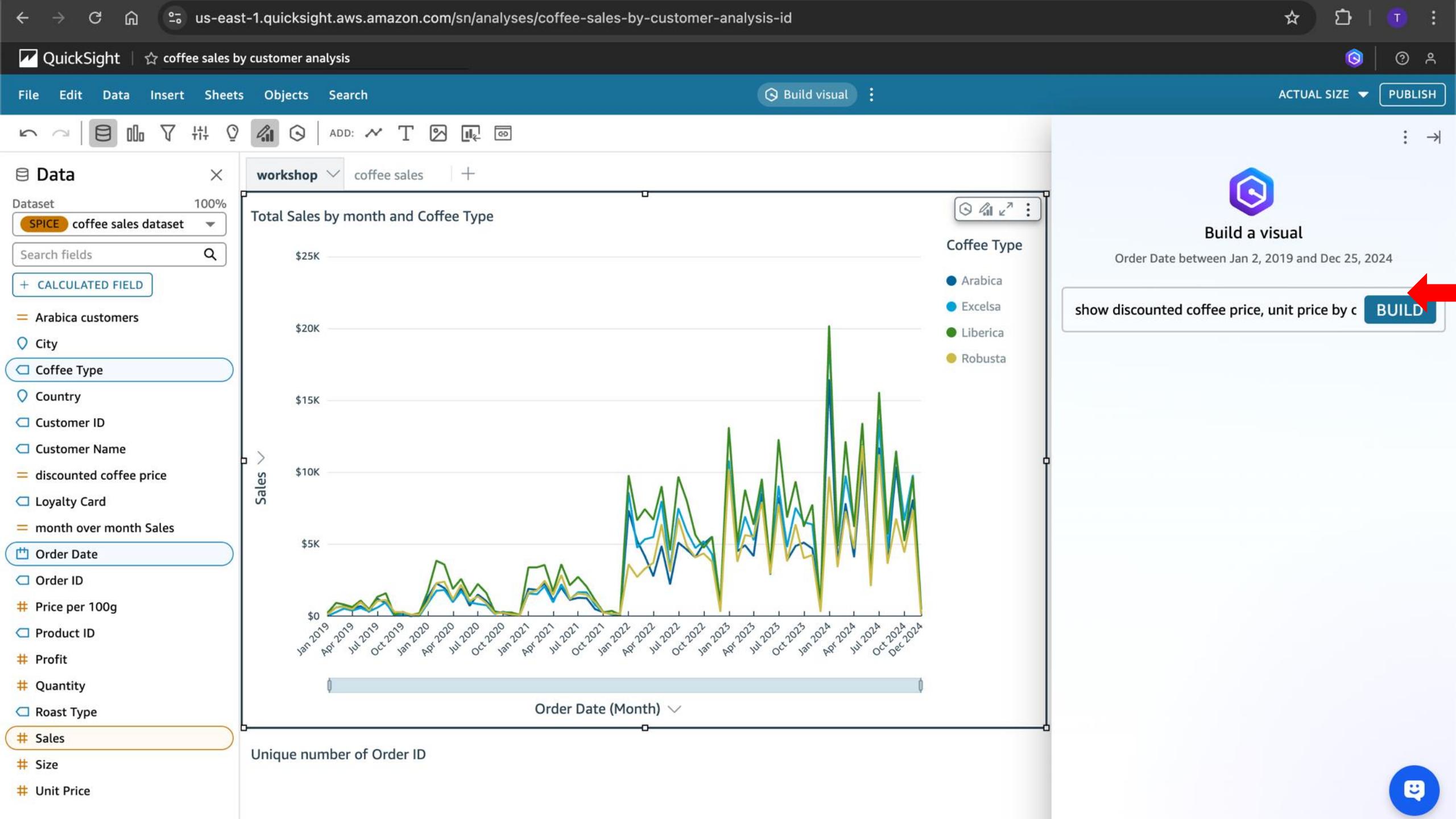

Build a visual
Copied coffee price, unit price by coffee type **BUILD**
1 Interpreted as: Total discounted coffee price and total Unit Price by Coffee Type.
coffee sales dataset
Total discounted coffee price and total Unit Price by ...

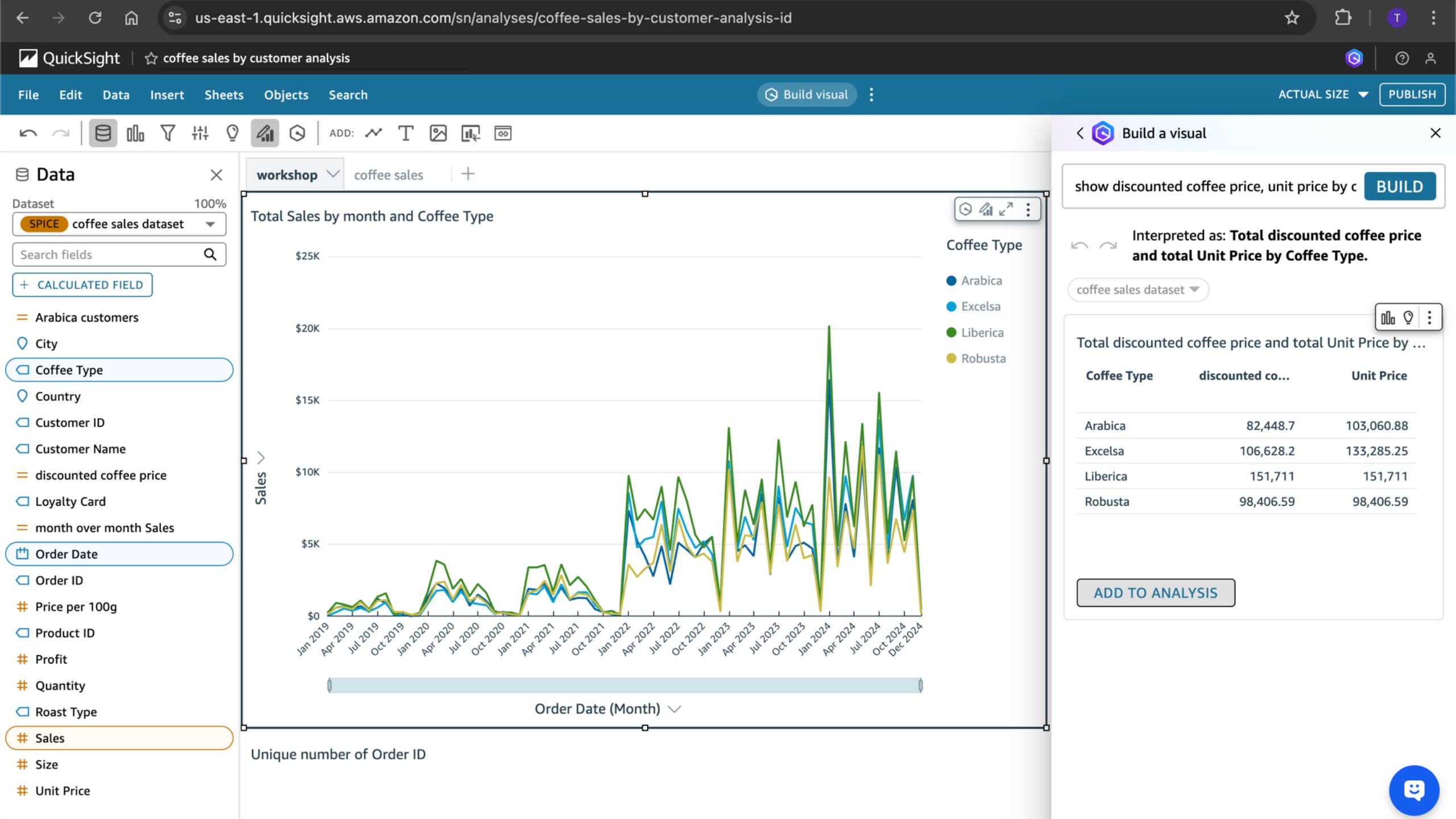
Coffee Type	discounted co...	Unit Price
Arabica	82,448.7	103,060.88
Excelsa	106,628.2	133,285.25
Liberica	151,711	151,711
Robusta	98,406.59	98,406.59

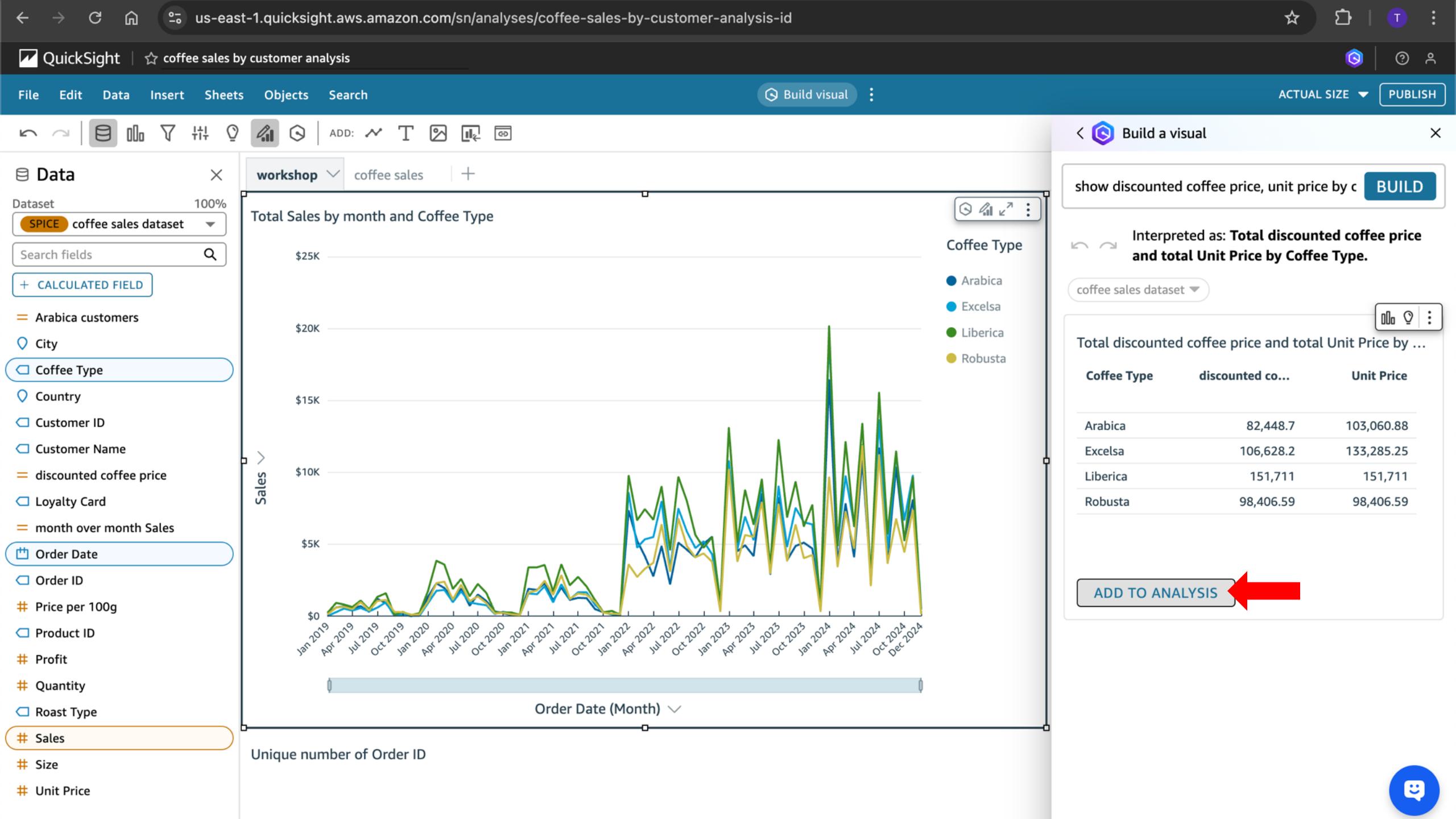
michael_tw_lin











us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search Build visual ...

ACTUAL SIZE ▾ PUBLISH

DATA Visuals workshop coffee sales +

CHANGE VISUAL TYPE Table

GROUP BY Coffee Type

Roast Type Coffee Type discounted co... Unit Price

Total discounted coffee price and total Unit Price by Coffee Type

Coffee Type	discounted co...	Unit Price
Arabica	82,448.7	103,060.88
Excelsa	106,628.2	133,285.25
Liberica	151,711	151,711
Robusta	98,406.59	98,406.59

Visuals workshop coffee sales +

workshop coffee sales

show discounted coffee price, unit price by c BUILD

Interpreted as: Total discounted coffee price and total Unit Price by Coffee Type.

coffee sales dataset

Total discounted coffee price and total Unit Price by ...

Coffee Type	discounted co...	Unit Price
Arabica	82,448.7	103,060.88
Excelsa	106,628.2	133,285.25
Liberica	151,711	151,711
Robusta	98,406.59	98,406.59

ADD TO ANALYSIS

Data

Dataset: SPICE coffee sales dataset

Search fields: + CALCULATED FIELD

Arabica customers

City

Coffee Type

Country

Customer ID

Customer Name

discounted coffee price

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Feedback

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

PUBLISH

Data

workshop coffee sales +

Arabica empty

Country Customer ID

Total discounted coffee price and total Unit Price by Coffee Type

Coffee Type	discounted co...	Unit Price
Arabica	82,448.7	103,060.88
Excelsa	106,628.2	133,285.25
Liberica	151,711	151,711
Robusta	98,406.59	98,406.59

Properties

Visual Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

Arabica customers

City

Coffee Type

Country

Customer ID

Customer Name

discounted coffee price

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

Feedback

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

ACTUAL SIZE ▾ PUBLISH

Data

Dataset: SPICE coffee sales dataset (100%)

Search fields:

+ CALCULATED FIELD

Arabica customers

City

Coffee Type (selected)

Country

Customer ID

Customer Name

discounted coffee price (selected)

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price (selected)

workshop (selected) coffee sales

Arabica empty

Loyalty Card Product ID

	Loyalty Card	Product ID	
Yes	A-L		
Yes	A-D		
Yes	A-L		
Yes	A-M		
Yes	A-MD		
Yes	A-D		
Yes	A-M		
Yes	A-MD		
Yes	A-D		
Yes	A-D		
Yes	A-L	Light	Arabic
Yes	A-M	Medium	Arabic
No	A-D	Dark	Arabic
No	A-M	Medium	Arabic
Yes	A-M	Medium	Arabic
Yes	A-M	Medium	Arabic

Publish a dashboard

Publish new dashboard as

Replace an existing dashboard

ALL SHEETS SELECTED ▾

Data story

Allow sharing data stories i

Generative capabilities

Allow executive summary i

Allow data Q&A i

Source:coffee sales [UNLINK TOPIC](#)

Advanced publish options ▾

Publish dashboard

Properties

Visual: Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

Feedback icon

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-authoring-experience/create-calculations-using-natural-language

aws workshop studio

AmazonQ-dryrun-20250318

Hands-on with Amazon Q in QuickSight: A step-by-step workshop

► Initial setup

▼ Authoring experience

- Build & refine visuals using natural language
- Create calculations using natural language

► Reader experience

Scenarios

► Unstructured insights

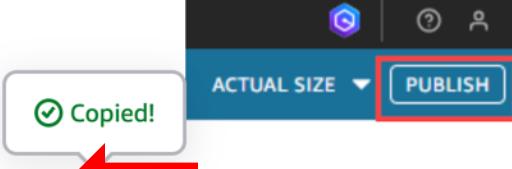
▼ AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

Exit event

Publish Dashboard

a. From top pane, click **Publish**



b. Enter dashboard name, Coffee Sales Dashboard

- Ensure **Allow sharing data stories**, **Allow executive summary** and **Allow data Q&A on published dashboards** are checked
- Click **Publish Dashboard**

1

Publish a dashboard

Publish new dashboard as **Coffee Sales Dashboard**

Replace an existing dashboard

ALL SHEETS SELECTED

Data story

Allow sharing data stories ⓘ

Generative capabilities

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

ACTUAL SIZE ▾ PUBLISH

Data

Dataset: SPICE coffee sales dataset (100%)

Search fields:

+ CALCULATED FIELD

Arabica customers

City

Coffee Type (selected)

Country

Customer ID

Customer Name

discounted coffee price (selected)

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price (selected)

workshop coffee sales

Arabica empty

Loyalty Card Product ID

Yes	A-L
Yes	A-D
Yes	A-L
Yes	A-M
Yes	A-MD
Yes	A-D
Yes	A-M
Yes	A-MD
Yes	A-D
Yes	A-D
Yes	A-L
Yes	A-M
No	A-D
No	A-M
Yes	A-M
Yes	A-M

Properties

Visual: ALL SHEETS SELECTED

Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

Publish a dashboard

Publish new dashboard as **Coffee Sales Dashboard** 

Replace an existing dashboard

ALL SHEETS SELECTED

Data story

Allow sharing data stories 

Generative capabilities

Allow executive summary 

Allow data Q&A 

Source:coffee sales [UNLINK TOPIC](#)

Advanced publish options ▾

Publish dashboard

us-east-1.quicksight.aws.amazon.com/sn/analyses/coffee-sales-by-customer-analysis-id

QuickSight | coffee sales by customer analysis

File Edit Data Insert Sheets Objects Search

ADD: T

Data X

Dataset 100%
SPICE coffee sales dataset

Search fields Q

+ CALCULATED FIELD

Arabica customers

City

Coffee Type

Country

Customer ID

Customer Name

discounted coffee price

Loyalty Card

month over month Sales

Order Date

Order ID

Price per 100g

Product ID

Profit

Quantity

Roast Type

Sales

Size

Unit Price

workshop coffee sales

Arabica empty

Loyalty Card Product ID

	Loyalty Card	Product ID
Yes	A-L	
Yes	A-D	
Yes	A-L	
Yes	A-M	
Yes	A-MD	
Yes	A-D	
Yes	A-M	
Yes	A-MD	
Yes	A-D	
Yes	A-L	Light Arabica
Yes	A-M	Medium Arabica
No	A-D	Dark Arabica
No	A-M	Medium Arabica
Yes	A-M	Medium Arabica
Yes	A-M	Medium Arabica

Properties

Visual Interactions

Display Settings

Headers

Cells

Totals

Visuals

Field styling

Group-by column names

Value column names

Conditional formatting

PUBLISH

Publish a dashboard

Publish new dashboard as
Coffee Sales Dashboard

Replace an existing dashboard

ALL SHEETS SELECTED

Data story

Allow sharing data stories ⓘ

Generative capabilities

Allow executive summary ⓘ

Allow data Q&A ⓘ

Source:coffee sales UNLINK TOPIC

Advanced publish options ▾

Publish dashboard





Ask a question about coffee sales



BUILD ▾

workshop

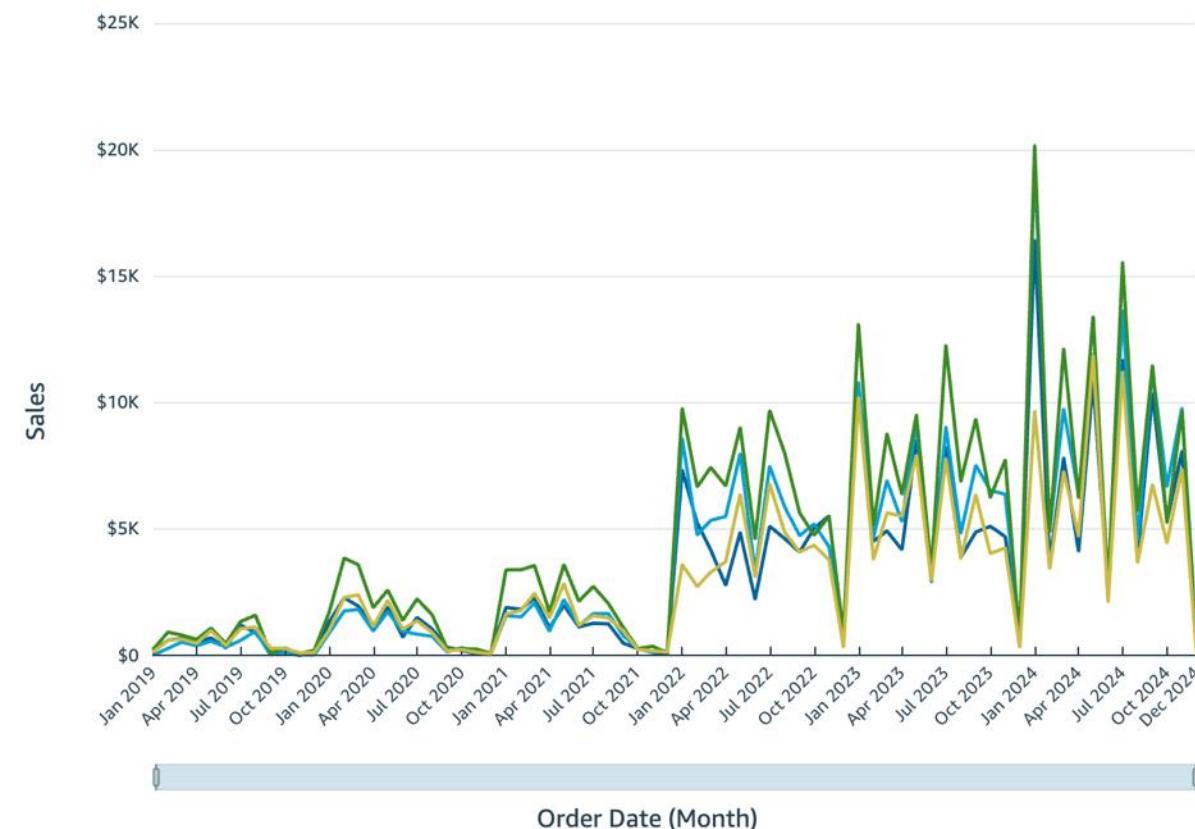
coffee sales



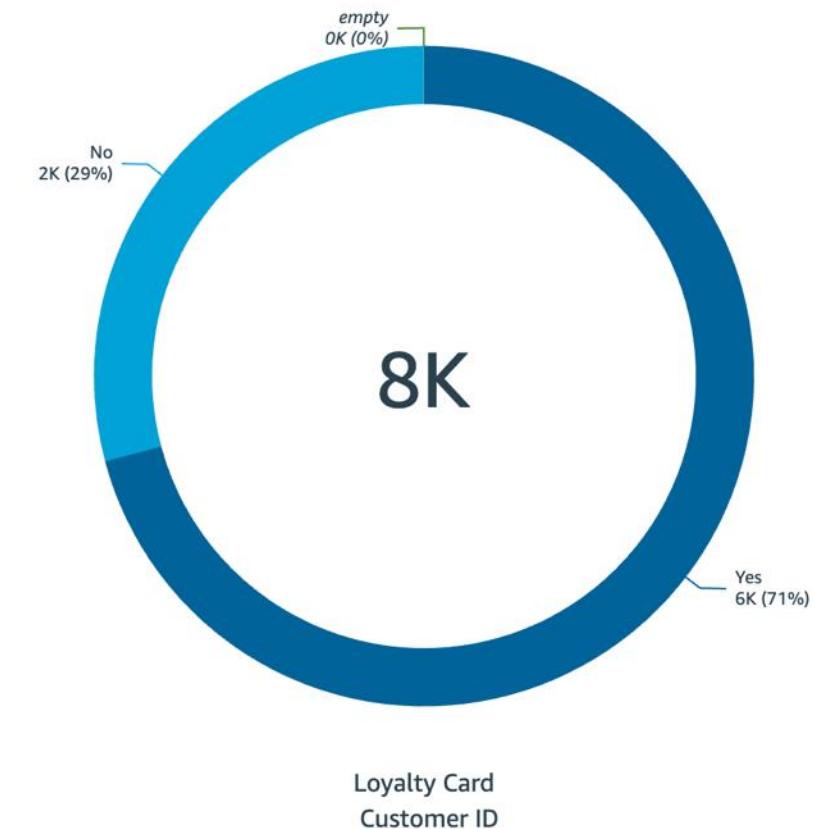
Click on Share to share this dashboard.



Total Sales by month and Coffee Type



Unique number of Customer ID by Loyalty Card



Unique number of Order ID

Total Sales difference month over month by month

(\$46,468) ↓



workshop coffee sales

Total Sales by month and Coffee Type



Unique number of Order ID

Total Sales difference month over month by month

8K

Loyalty Card
Customer ID

Loyalty Card

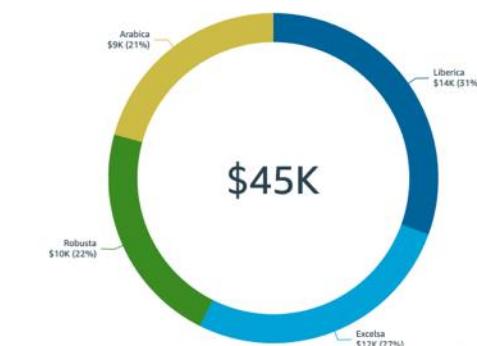
- Yes
- No
- empty

(\$46,468) ↓

Nov 2024 \$13,256 Dec 2024 (\$33,212)

54,781

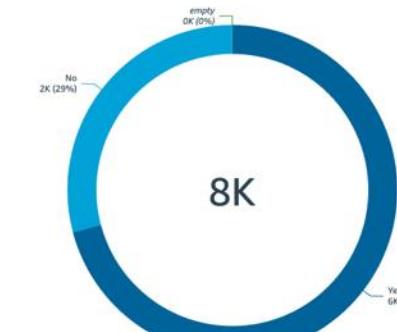
Total Profit by Coffee Type



Total Sales by Country



Unique number of Customer ID by Loyalty Card



Total Sales difference month over month by month

