

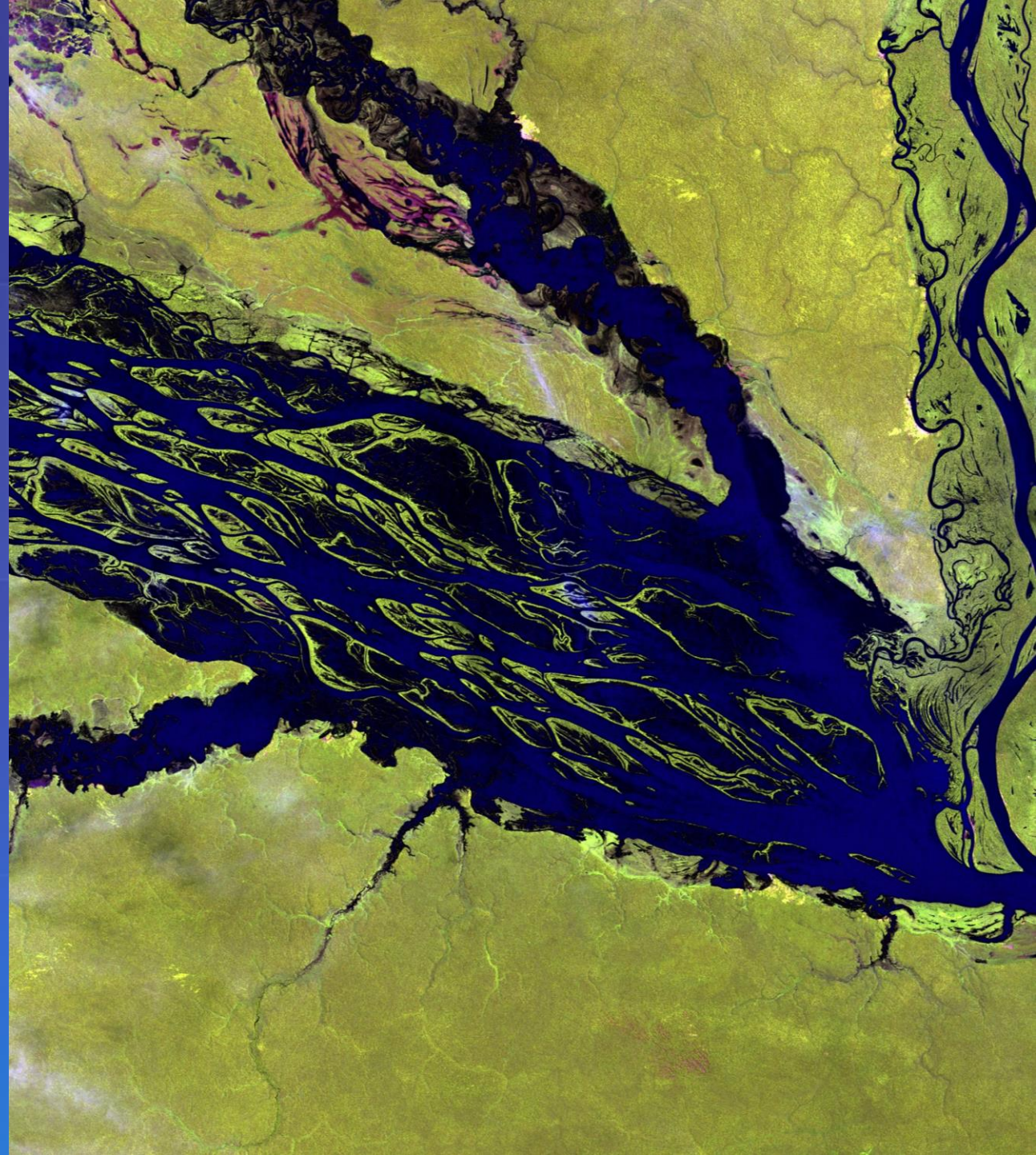
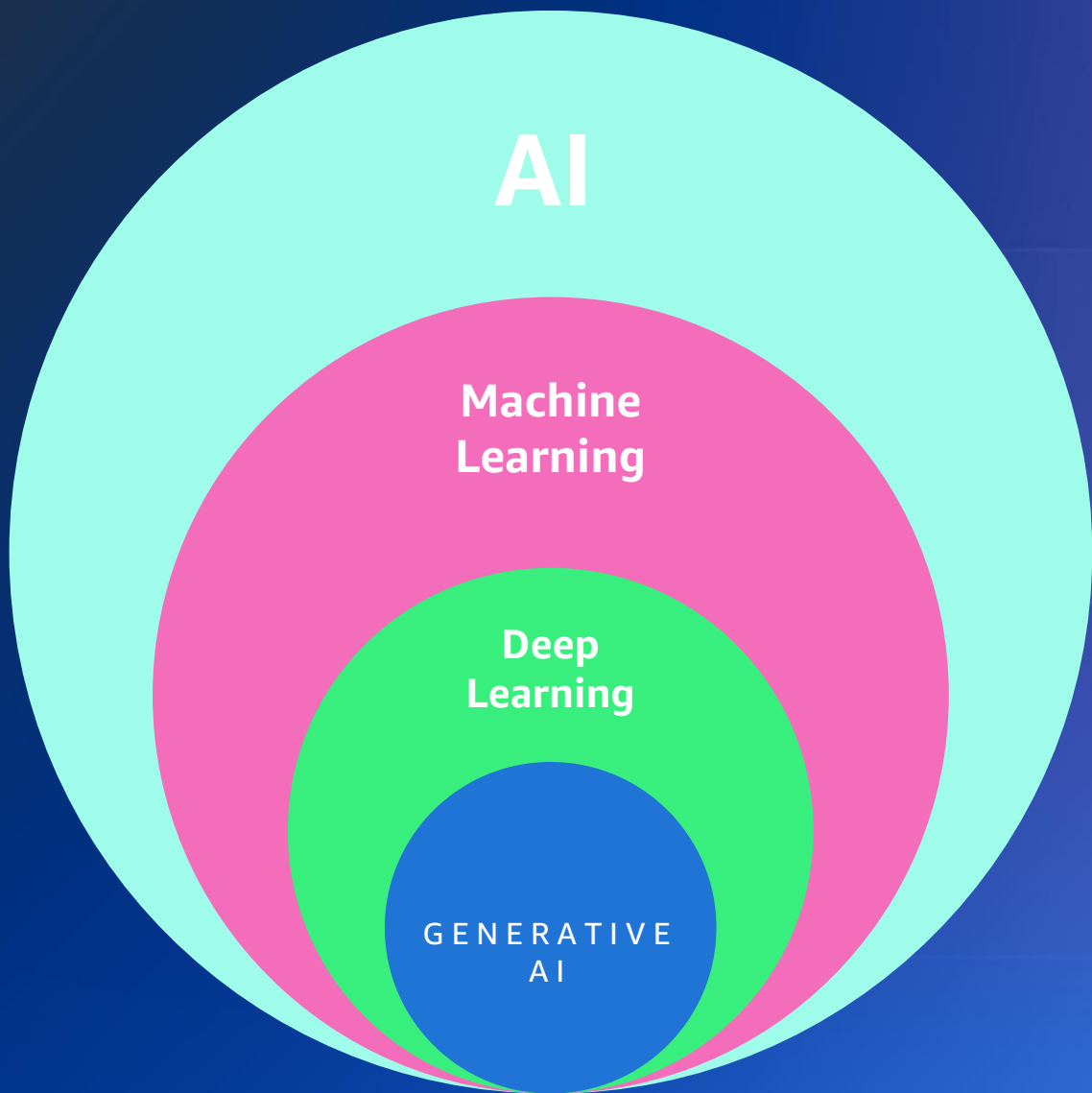


Generative BI in Amazon QuickSight

KILKENNY | SEPT 27TH 2023

NEAL CAULEY

Sr Manager, WW GTM QuickSight
AWS





Amazon QuickSight

UNIFIED BI SERVICE AT HYPERSCALE

Unified BI for all your analytics needs

Lower costs with
consumption-based pricing

Consistent high performance
with auto scaling

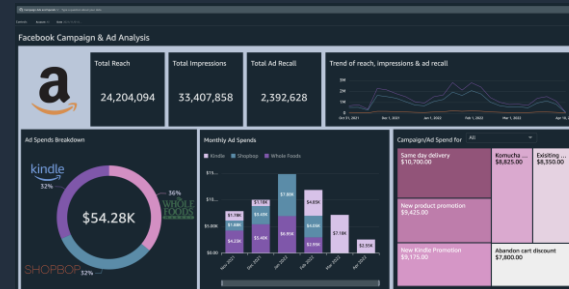
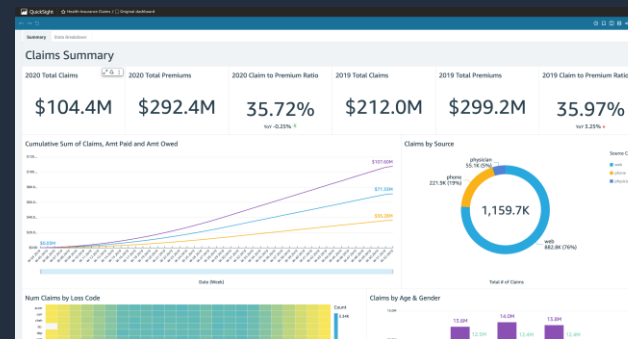
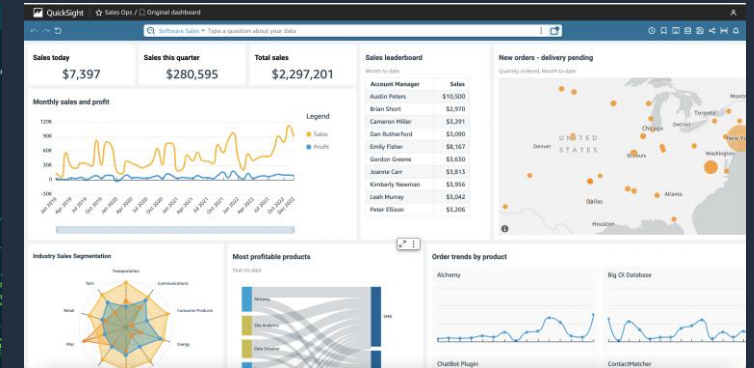
AI-powered BI

Governance and security



Create Beautiful, Interactive Dashboards

- Add rich interactivity like filters, drill downs, zooming, and more
- Blazing fast navigation
- Accessible on any device
- Data Refresh
- Publish to everyone with a click



QuickSight powers 1,000s of apps

Outbound Productivity

Summary | Fulfillment Status | Productivity

Controls: Customers All Warehouse All Pending Order Status Open or Compl... Start of Day (Hour) 6 Order Cutoff (Hour) 14 Fulfillment Cutoff (Hour) 17 Orders With Pick Jobs All Pick Ticket Printed All CV

Pending Orders at Start of Day	New Orders Since Start of Day Before Order Cutoff	Total Orders Closed Today	Unfulfilled Pre-Cutoff Orders Before Fulfillment Cutoff	Total Unfulfilled Orders
1,231	296	319	1,227	1,232

Orders, Lines, and Units

Customer	Orders	Order Lines	Units
The Simple Folk Ltd	544	2,201	2,261
Kryptek	52	728	13,122
Vetchy LLC	6	584	1,180
Deka Lash	18	212	332
Helinox USA, Inc.	15	137	11,849
Odlo USA	5	137	428
Hedge by American Family Ins.	54	133	152
Grangers International Ltd	10	102	4,062
Airblaster, LLC	7	100	264
George & Willy Ltd	53	97	318
MountainFLOW eco-wax	21	91	970
Woodford Woodworking Tooling LLC	1	86	1,422
Doctor Collector	54	71	570

Age of Allocated Orders

- >7 Days: 109 (9%)
- 5-7 Days: 153 (12%)
- 4-5 Days: 7 (1%)
- <1 Day: 529 (42%)

Allocated Order Status Details

Transaction ID	Customer	Order Created	Allocation Date	Transaction
53479	Fond of Bags	Sep 30, 2021 11:38am		
200985	Hedge by American Family Ins.	Jun 30, 2022 2:10pm		
200986	Hedge by American Family Ins.	Jun 30, 2022 2:10pm		
200987	Hedge by American Family Ins.	Jun 30, 2022 2:10pm		

CONVOY Analytics

Controls | Date Selection Week | Start Period 2021/08/01 00:00 | End Period 2021/12/01 00:00

Spend per mile: Line chart showing average spend per mile over time.

Avg Facility Dwell Time (hours): Line chart comparing dropoff and pickup dwell times.

Incidental Summary: Bar chart showing incidental costs.

Incidental Breakdown Per Shipment: Stacked bar chart showing breakdown by category.

Perform Insights

Search...

Strategic Goals | Reports | Engagement | Settings | Company | Groups | Emails | User Import | Notes & Comments | Security | API Access | Succession Planning | Insights

Strengthening Great Teams

Performance Insights

Avg. Score of Most Recent Reviews: **72.2** vs Avg. Score of Prior Period Reviews: **71.3**

Performance reviews considered are of employees with more than one archived review. All Review Scores are converted to a 100pt. scale.

Performance Scores of Most Recent Review Scores by Groups

Group	Bottom 20th Percentile	Middle 60th Percentile	Top 20th Percentile
Mississippi	50.00%	50.00%	0.00%
Los Angeles	36.50%	54.55%	9.00%
Houston	25.00%	60.00%	15.00%
Denver	22.22%	66.67%	11.11%
Cincinnati	50.00%	50.00%	0.00%
Chicago	55.56%	33.33%	11.11%
Charlotte	66.67%	33.33%	0.00%
Boston	37.50%	37.50%	25.00%

Employees Included in View: **61**

Timeliness of Most Recent Reviews: 41% On Time Complete, 59% Past Due Complete

% of Most Recent w/ 360 Reviews: 61

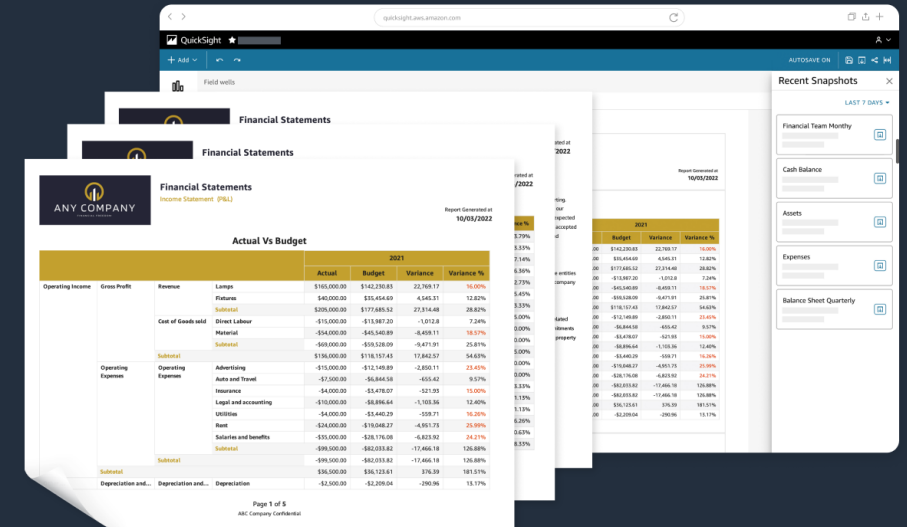


Paginated Reporting in the cloud

CONSOLIDATE DASHBOARD AND REPORTING USE CASES COST EFFECTIVELY

Highly formatted, printable reports

- Multi-page PDF reports with rich visuals and images
- Scheduled delivery for PDFs and CSV exports

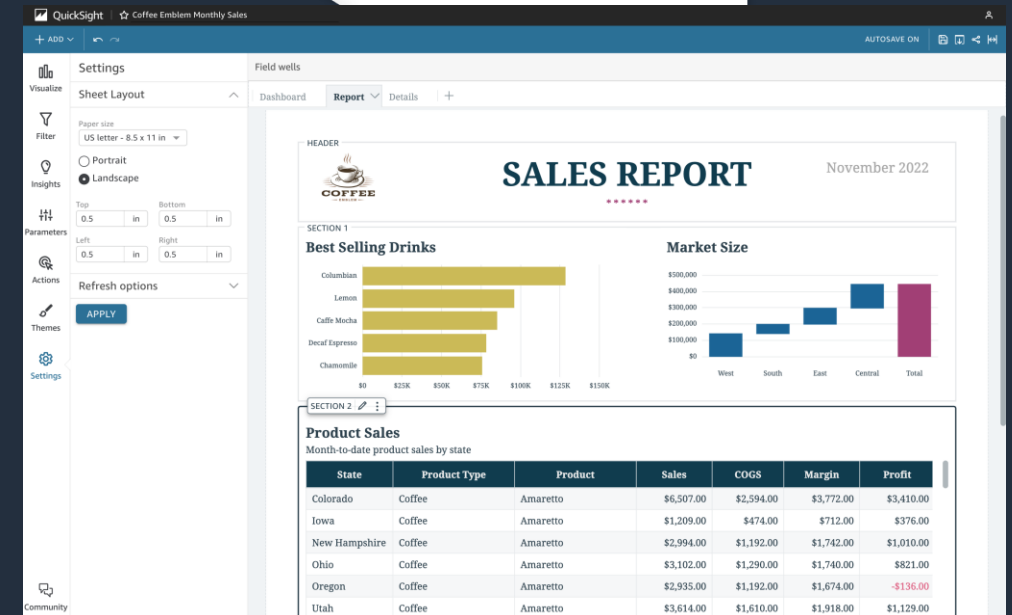


Unified authoring & consumption

- Same governed data sets between dashboards and reports
- No new learning with familiar interface

Serverless, auto scales to meet demand

- No infrastructure or software management
- Pay-for-usage with consumption-based pricing



Over 100,000 customers use QuickSight



Panasonic



SIEMENS



Best Western
Hotels & Resorts



What happens when Generative AI meets BI?





New experience

Data Sheet 1

Dataset SaaS-Sales_2... 100%

Fields list Search fields

- City
- Contact Name
- Country
- Customer ID
- Customer Name
- Discount
- Free Trial
- Industry
- Order Date
- Order ID
- Product
- Profit
- Region
- Sales
- Segment
- Subregion
- Usage Sessions

+ CALCULATED FIELD



Total Sales

\$2,487,148

Total Profit

\$304,396

Total Usage Sessions

41,077

Total Free Trials

411



New experience

Data Sheet 1

Dataset SaaS-Sales_2... 100%

Fields list Search fields

- City
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Data

Dataset: SPICE SaaS-Sales_2... 100%

Fields list

Search fields

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- Contact Name
- Country
- Customer ID
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- Free Trial
- Industry
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- Subregion
- Usage Sessions

+ CALCULATED FIELD

Visuals

+ ADD

CHANGE VISUAL TYPE

Line chart

X AXIS

Order Date (MONTH)

VALUE 2

Sales (Sum)

Profit (Sum)

COLOR

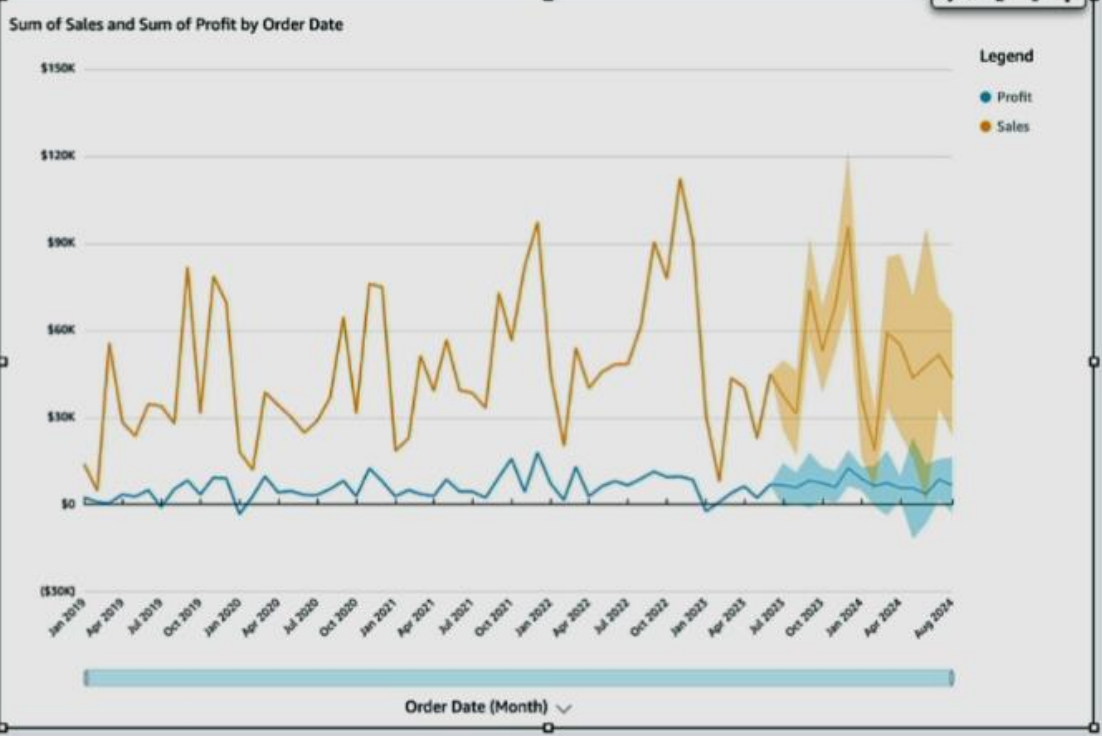
Add a field

Too many Value fields for Color

SMALL MULTIPLES

Add a field

Sheet 1

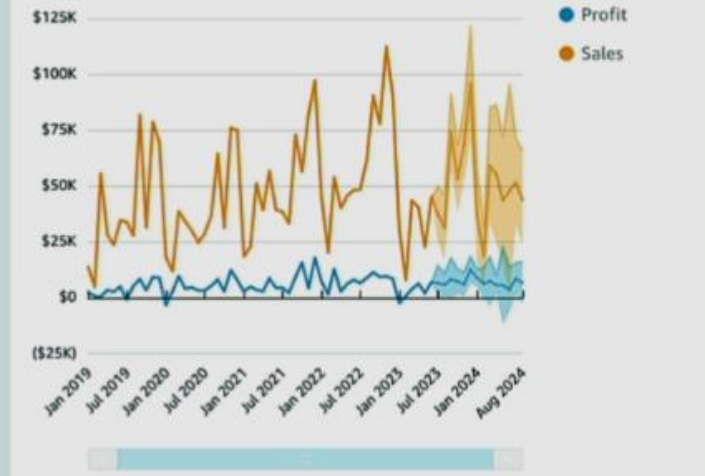


Sum of Sales and Sum of Profit by Order Date added to the analysis

monthly sales and profit **BUILD**

Interpreted as: Total Sales and total Profit by month.

Sum of Sales and Sum of Profit by Order Date



ADD TO ANALYSIS

Data

Visuals

Dataset

SPICE SaaS-Sales_2... 100%

Fields list

Search fields

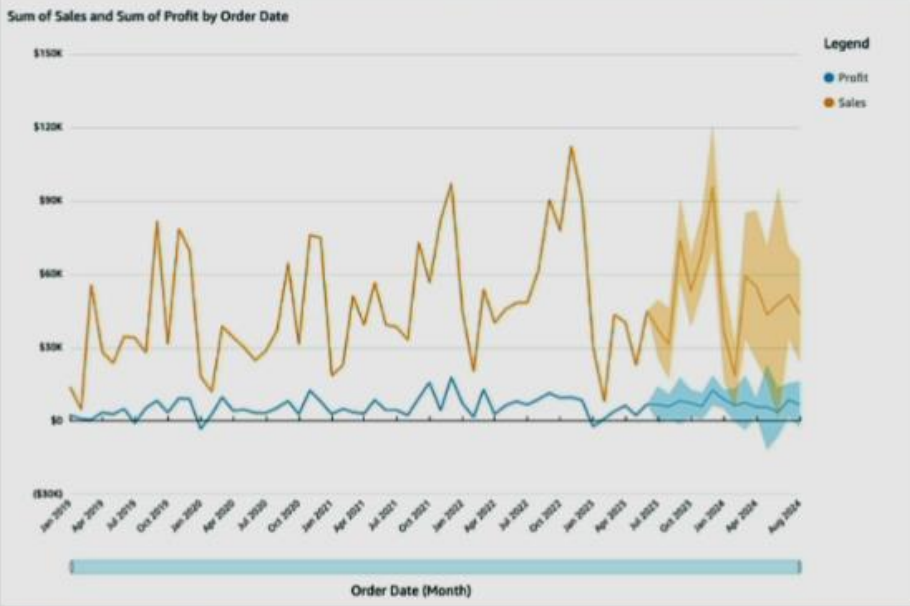
- City
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- Customer Name
- Discount
- Free Trial
- Industry
- Order Date
- Order ID
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- Segment
- Subregion
- Usage Sessions

+ ADD


Select or add a visual



Sheet 1




+ CALCULATED FIELD

MoM % change in free trials 

Cancel

Save

 Build for me

CLOSE

BUILD

```
1 // (AI generated) month over month free trial % change by date
2 periodOverPeriodPercentDifference(sum({Free Trial}), {Order Date}, MONTH, 1)
```

I

Fields Parameters Functions All 

abs

addDateTime

addWorkDays

avg

avgIf

avgOver

ceil

coalesce

concat

contains

count

countif

abs

Returns the absolute value of a given expression.

SYNTAXabs(*expression*)[Learn more](#)

Data

Dataset SPICE SaaS-Sales_2... 100%

Search fields

- City
- Contact Name
- Country
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- Customer Name
- Discount
- Free Trial
- Industry
- MoM % change in free trials
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- Usage Sessions

+ CALCULATED FIELD

Visuals

+ ADD

CHANGE VISUAL TYPE

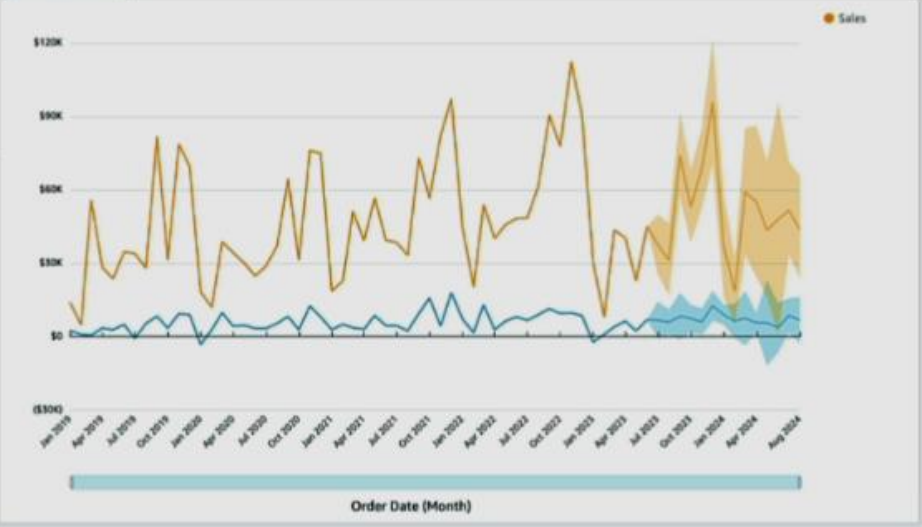
Vertical stacked bar chart

X AXIS Order Date (MONTH)

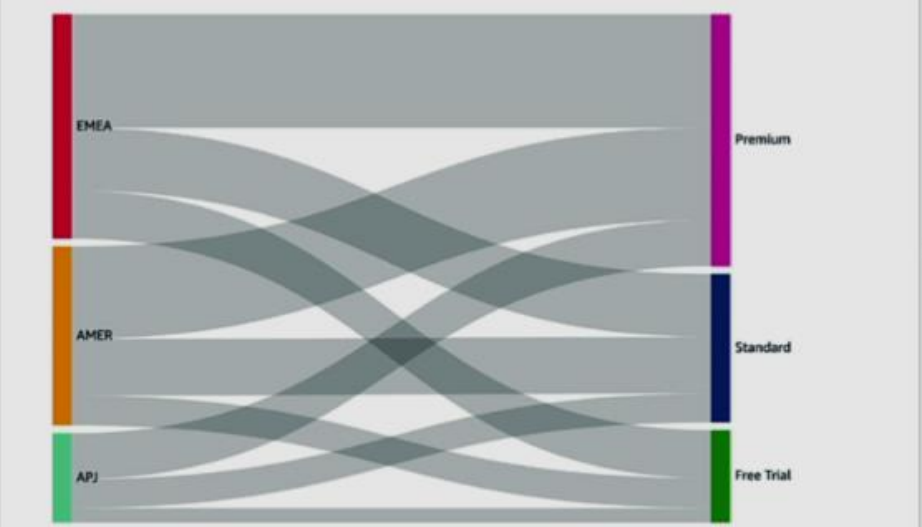
VALUE MoM % change in free trials ...

GROUP/COLOR Region

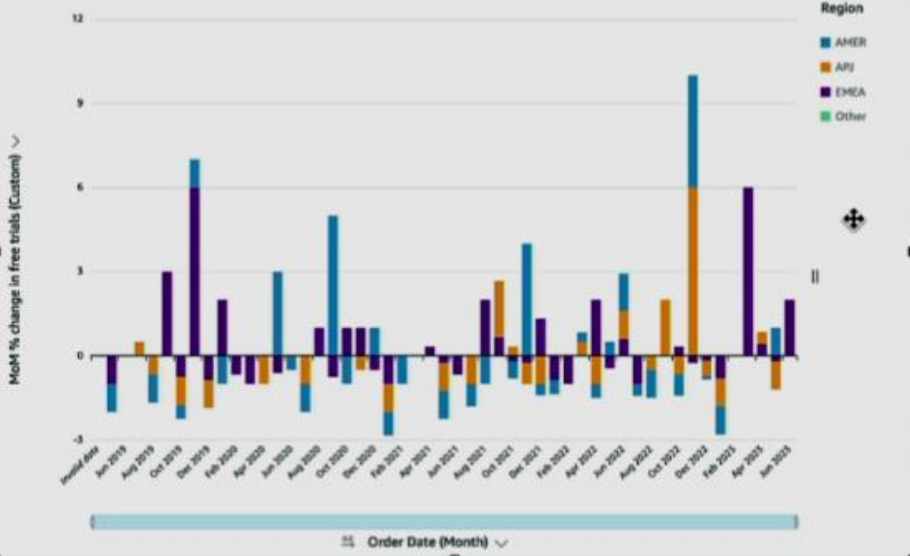
Sheet 1

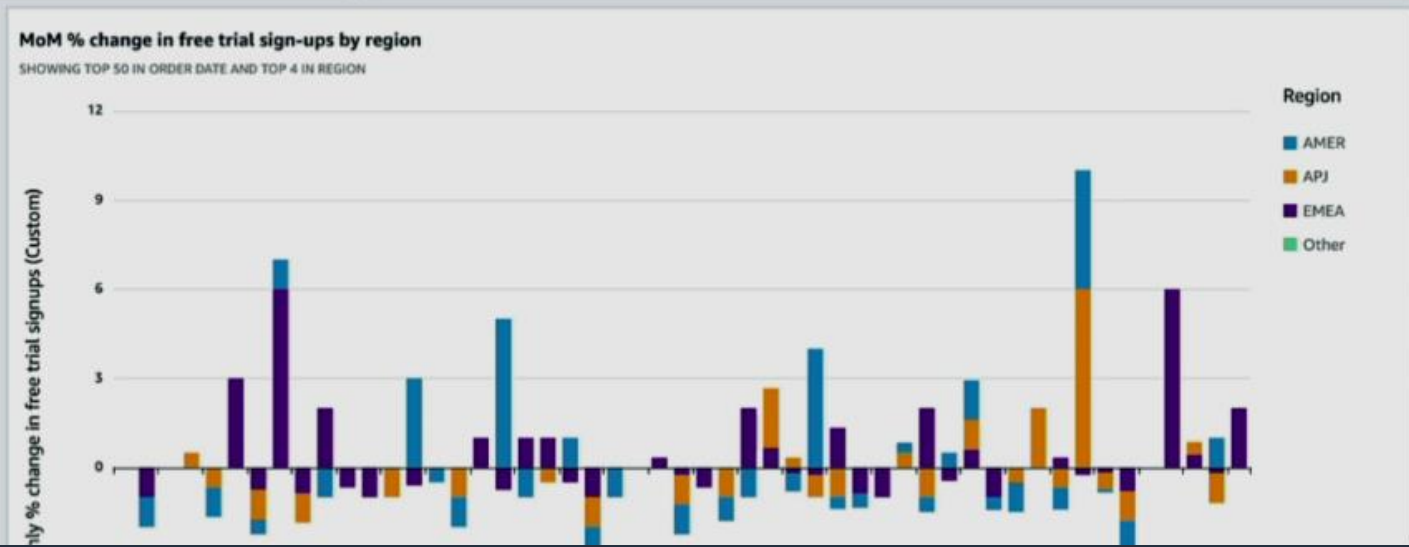
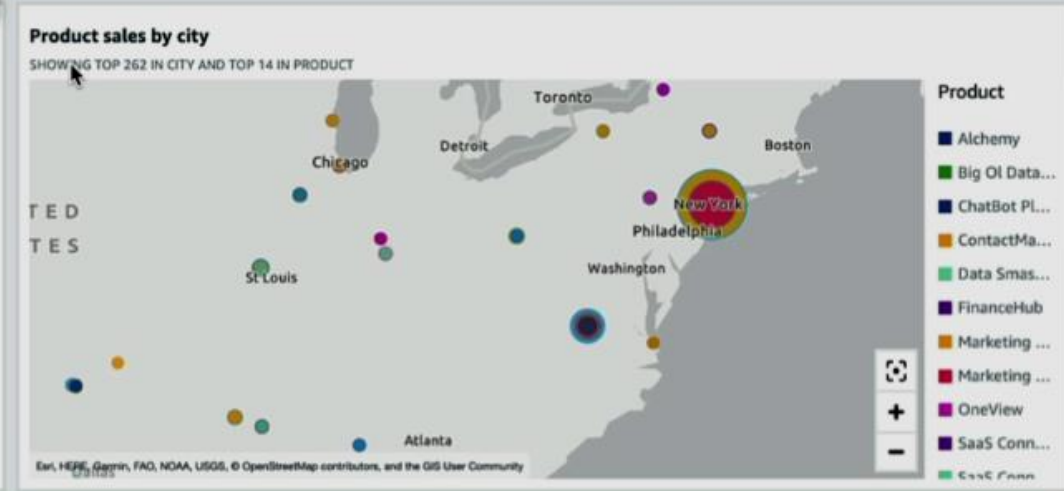
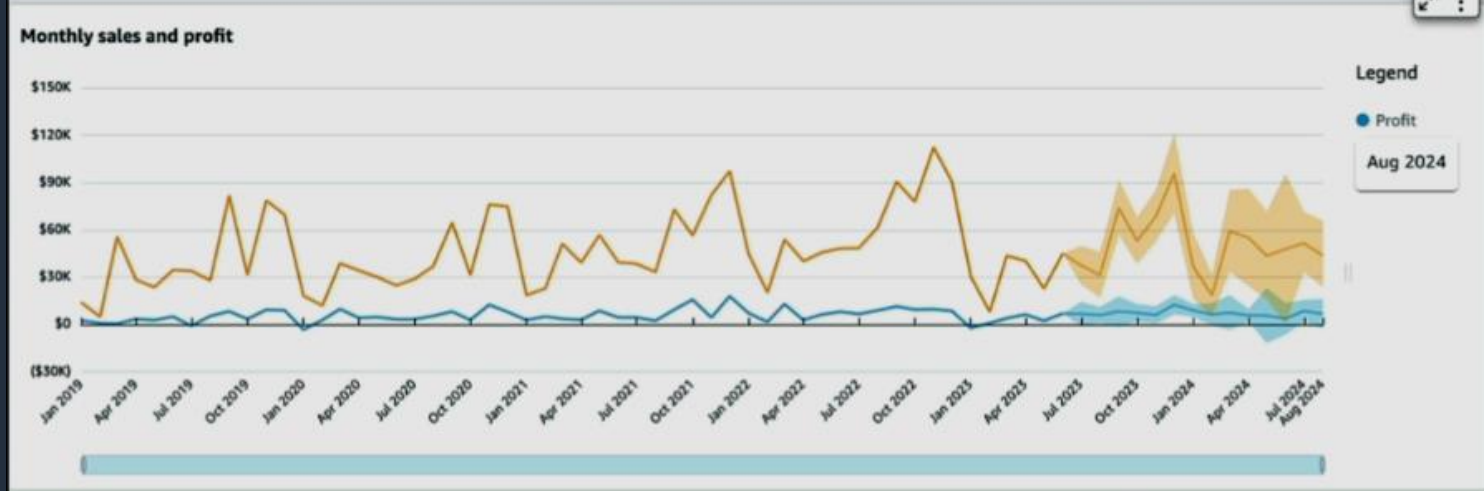


Sum of Sales by Region and Segment



MoM % Change in Free Trials by Order Date and Region





"Free Trials to Paid Accounts: Bundling Features and Engaging Communications to Boost Conversions and Sales"

Generated by QuickSight AI

Introduction

The free trial sign-up trend chart shows promising growth opportunities. The highest number of 32 free trials last month represents a 166.67% increase over the previous month, demonstrating strong momentum. However, the low number of 1 free trial in February indicates an inconsistent trend. To capitalize on this momentum, the company should prioritize improving the sign up experience to reduce friction for new users, especially around the free trial process. Next, the company could test incentives and promotions targeted at converting the highest number of free trials from the last month into paid accounts. Finally, optimizing the trial to paid conversion funnel with a streamlined



Review the story

BUILT BY AI

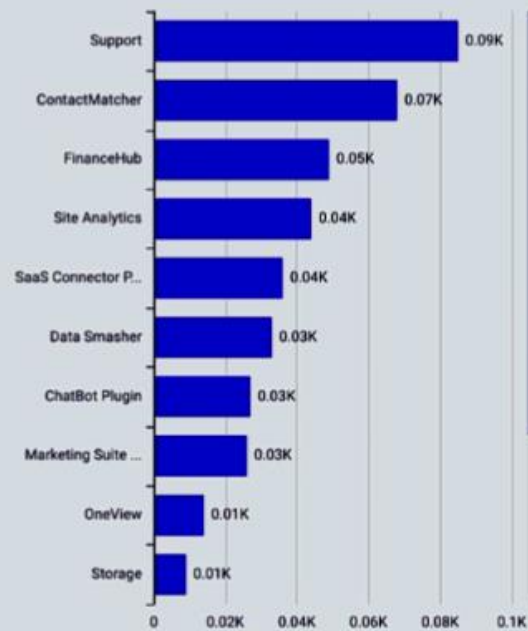
👍 🗑️ DISCARD TRY AGAIN ✓ KEEP



Recommendations - Bundling features

Based on the data and goals shared, bundling additional features during free trials could help convert more users into paying customers and boost sales. Offering more features for free during the trial period can help demonstrate the full value of the product and convince users to upgrade when the trial expires. This tactic allows prospects to experience the benefits of additional capabilities at no cost, making it easier for them to justify becoming a paying customer. Including key features that are likely to appeal to target customers within the trial offering, such as reporting or collaboration tools for business users, could help win over prospects who may have been on the fence otherwise.

Free trials by product



The table shows the number of free trials by product. Support had the highest number of trials at 85, while ContactMatcher had 68 trials. The table contains information for a total of 14 products.

Demo Video





New experience

Data

Sheet 1

Dataset

SaaS-Sales_2... 100%

Fields list

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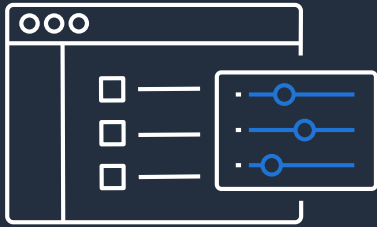
QuickSight Q



What is Amazon QuickSight Q?

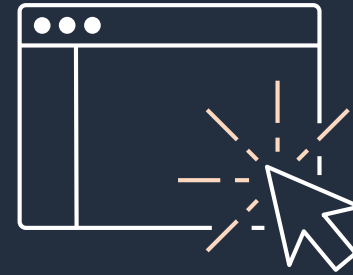
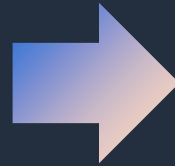
Q enables anyone to ask questions about their data in natural language and receive accurate answers with relevant visualizations.





INSTEAD OF THIS

Put millions of filters on thousands of dashboards



DO THIS

Design simple, focused, dashboards and let Q dig through the long-tail use cases

Common uses for QuickSight Q

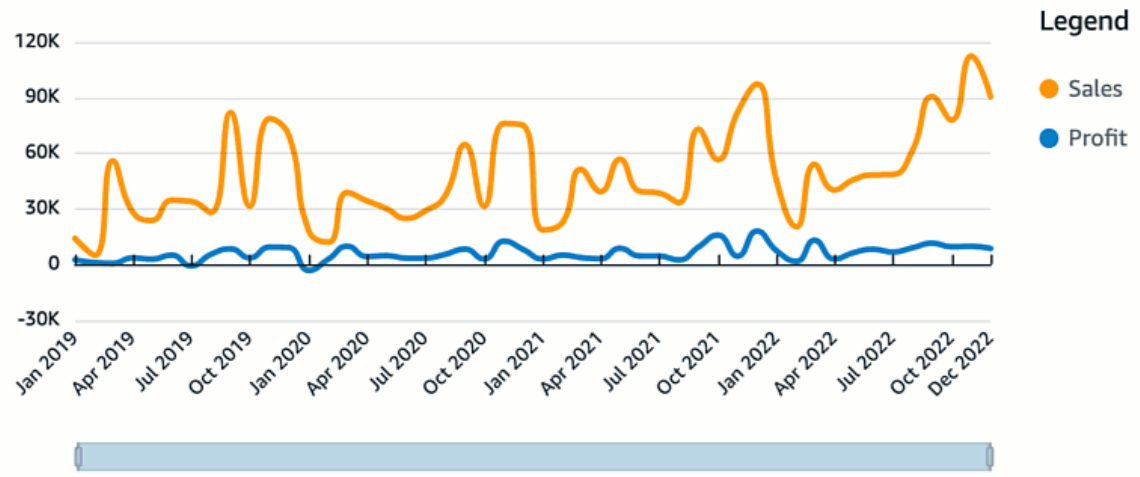


Sales today
\$7,397

Sales this quarter
\$280,595

Total sales
\$2,297,201

Monthly sales and profit

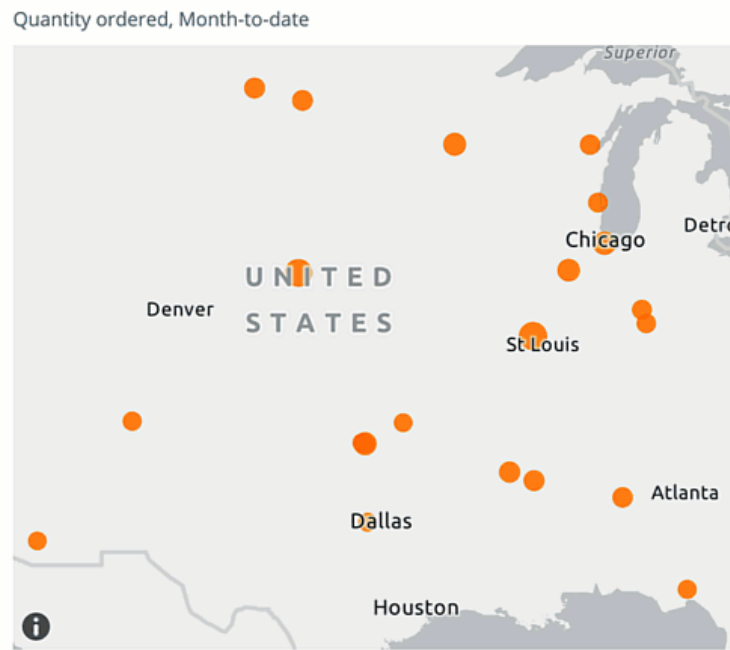


Sales leaderboard

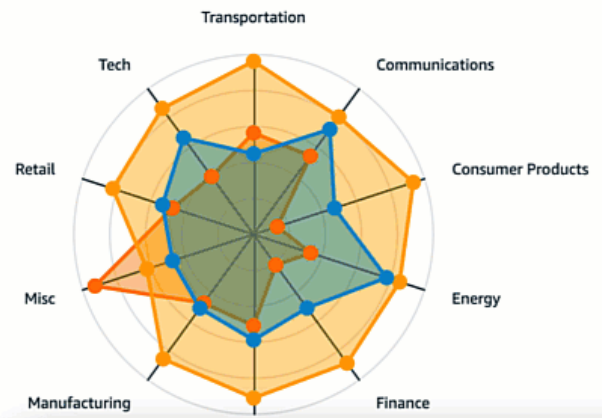
Month-to-date

Account Manager	Sales
Austin Peters	\$10,500
Brian Short	\$2,970
Cameron Miller	\$3,291
Dan Rutherford	\$3,090
Emily Fisher	\$8,167
Gordon Greene	\$3,630
Joanne Carr	\$3,813
Kimberly Newman	\$3,956
Leah Murray	\$3,042
Peter Ellison	\$3,206

New orders - delivery pending



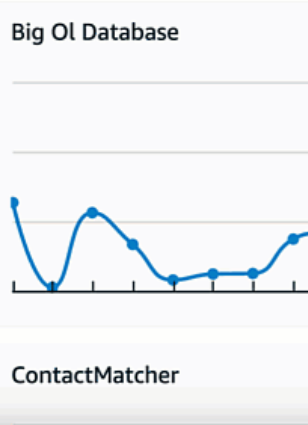
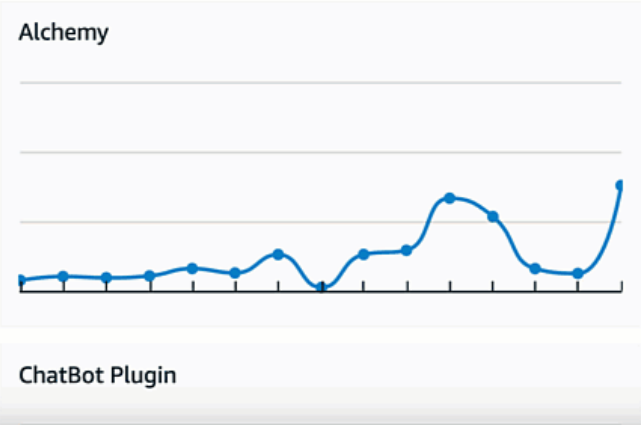
Industry Sales Segmentation



Most profitable products



Order trends by product



AI-powered dashboard authoring experience

A NEW DASHBOARD BUILDING EXPERIENCE POWERED BY GENERATIVE BI

Natural language visual creation

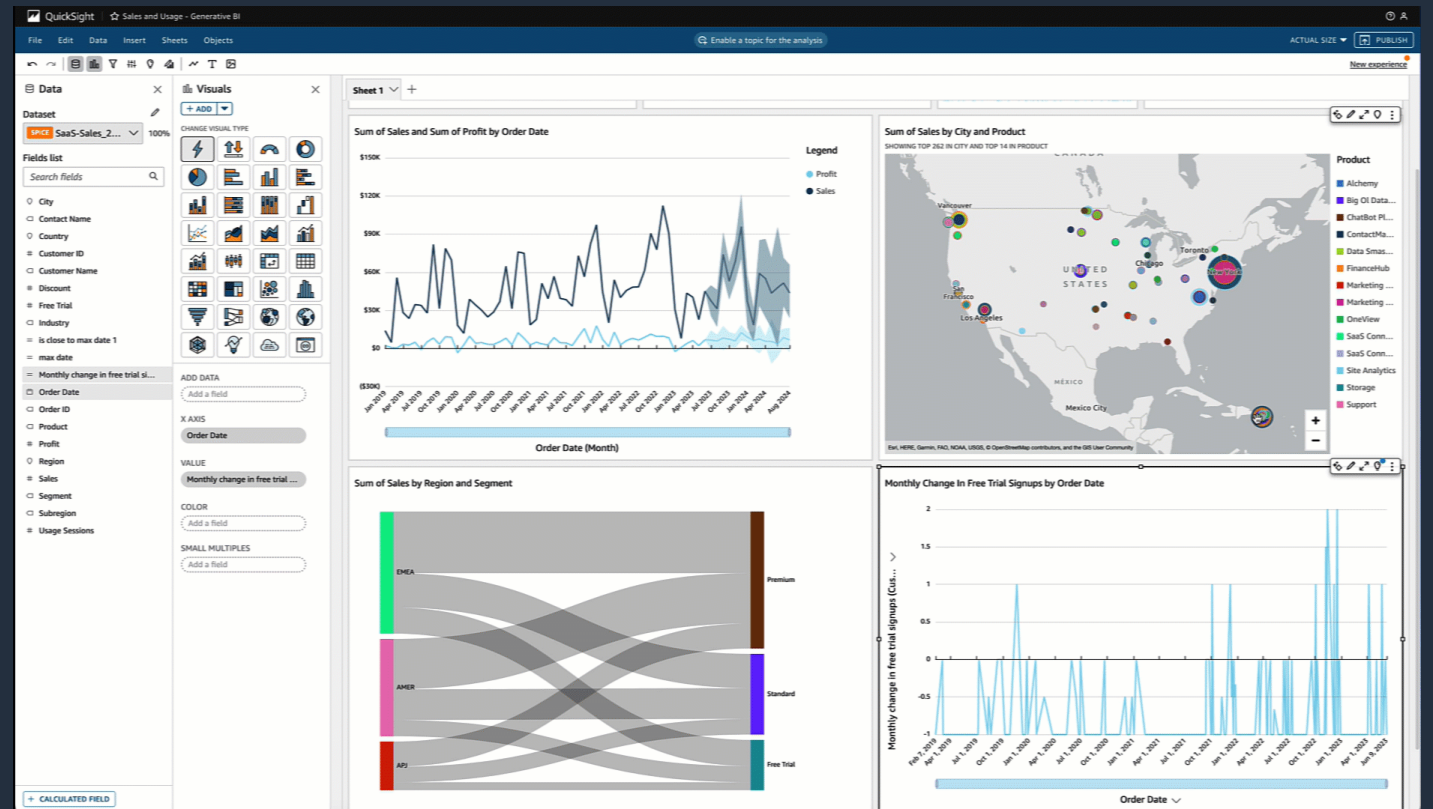
Use vague or precise language to generate and add visuals to a dashboard

Quick calculations

Accelerate analysis by easily creating calculations without looking up or learning specific syntax

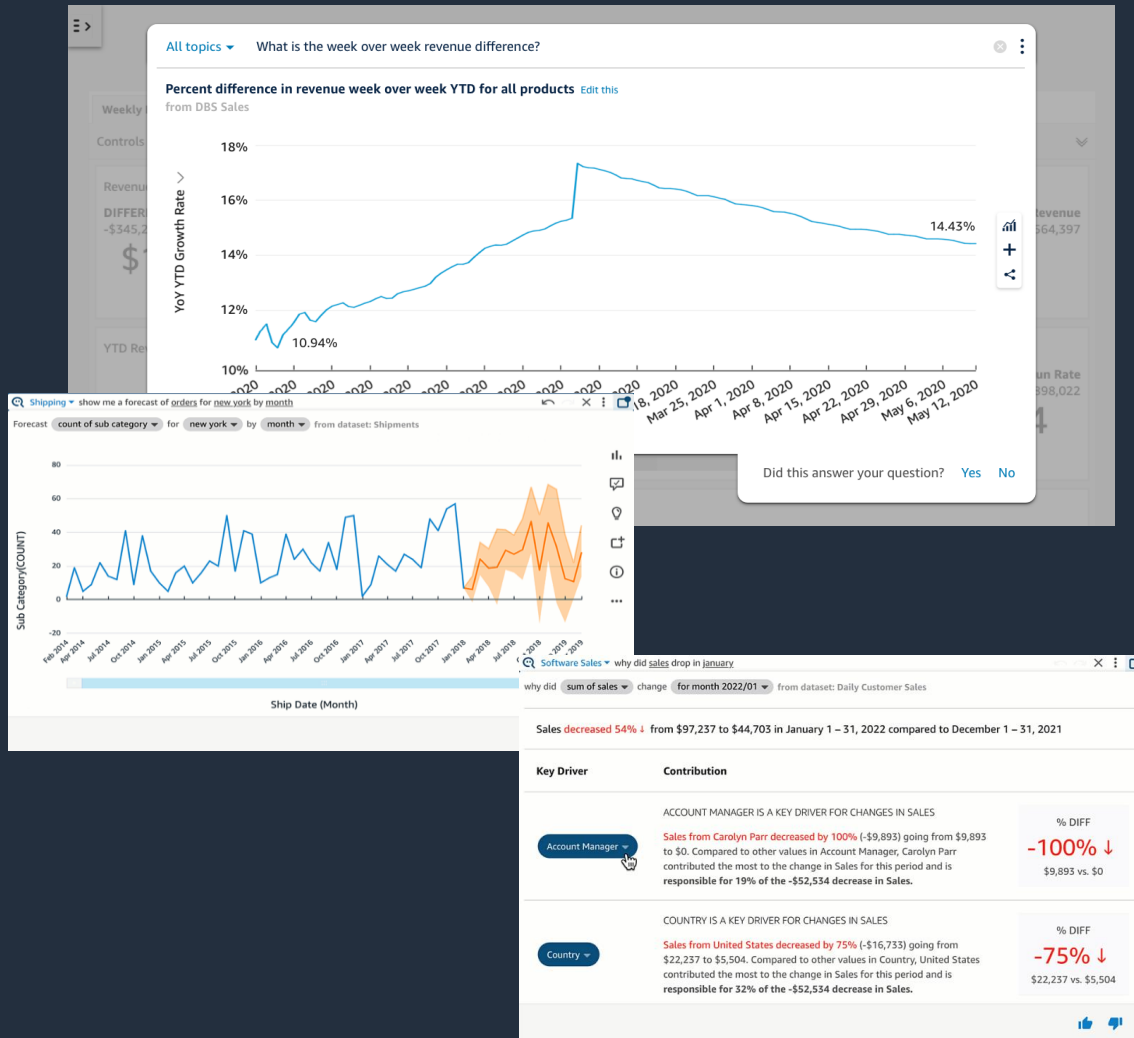
Visual fine-tuning

Tailor visuals by describing the formatting changes in natural language



Foster a Data-Driven Culture with Q

SELF-SERVICE INSIGHTS FOR ANYONE USING ML-POWERED NLQ



Ask questions in natural language

- ML-models interpret user question and intent to generate visualization
- AI-enhanced automated data preparation accelerates time-to-value

Forecast New!

- See what's likely to happen
- See future trajectories for up to 3 measures simultaneously

Ask 'Why'? New!

- Identify key drivers to changes in the data with contribution analysis
- Quantify contribution by each driver



Data stories in QuickSight

IMPACTFUL DATA STORYTELLING TO DRIVE ACTIONS

Interpret data for others

Help others derive meaning from data and reach conclusions to drive decisions

Generate stories using AI

Generate cohesive, powerful, and insightful narratives analyzing data with only a few words

Create refined content

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

Governed and always up to date

Quickly and easily share with people who already have access to the data and update data any time

The screenshot displays the Amazon QuickSight interface for a data story titled "Unlocking Revenue Growth" with the main heading "How to Identify and Convert Your Most Valuable Free-Trial Customers". The story content includes an "Introduction" paragraph and a section titled "Understanding Usage Sessions" which features a horizontal bar chart titled "Free trial customers with more than 5 usage sessions last month". The chart shows usage sessions for various customer segments. A "Build for me" dialog box is open on the right, prompting the user to describe the story and select a theme (Default, Modern, DUSK, or Vibrant).

Build for me

Describe the story you want to tell in simple language.

Visuals will be picked from pinboard

Create a narrative that can help sales teams identify the free-trial accounts that are most likely to convert to paying customers. Use number of usage sessions as the driving factor for the strategy but also include sales data and forecasts.

Select the theme for your story

Default Modern DUSK Vibrant

CLOSE BUILD

