

Data Visualization Overview

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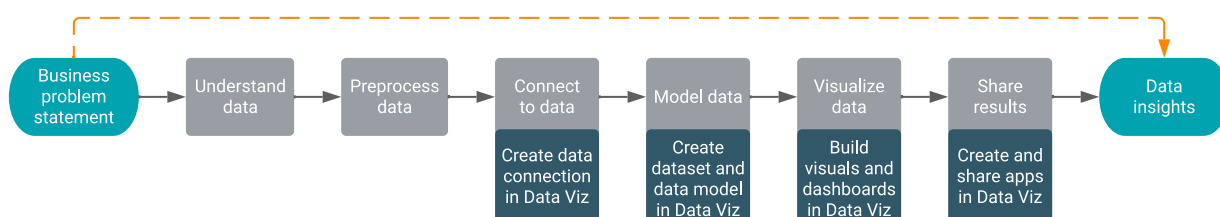
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Cloudera Data Visualization capabilities

Cloudera Data Visualization enables you to explore data and communicate insights across the whole data lifecycle by using visual objects. The fast and easy self-service data visualization streamlines collaboration in data analytics through the common language of visuals.

Cloudera Data Visualization is integrated with Cloudera AI and Cloudera Data Warehouse workflows in Cloudera on cloud. You can use the same visualization tool for structured, unstructured/text, and machine learning analytics, which means deeper insights and more advanced dashboard applications. The user interface is highly intuitive and enables you to build customized data applications with minimum time investment.

Advanced data analysis helps you to find data insights that answer your business problems. You can connect to your data in Cloudera, create rich visualizations on top of your datasets, build informative dashboards and applications, and publish them anywhere across the data lifecycle. This provides you with a dynamic and data-driven insight in any line of business, and lets you and other stakeholders discover, explore, and curate visualizations.



Self-service data visualization for the full data lifecycle

You can quickly and easily explore data, collaborate, and share insights across the data lifecycle. Cloudera Data Visualization provides a consistent and easy to use data visualization experience with intuitive and accessible drag-and-drop dashboards and custom application creation.

Intelligent and automated reporting

You can automate analytics dashboards for updates and consumption. You can set rules for scheduled updates, email reports, and dynamic alerts to ensure everyone has access to the latest insights.

Accelerating collaboration

You can build and publish custom dashboards and analytic applications in minutes and you can collaborate across teams to reach stakeholders and decision makers more effectively. Cloudera Data Visualization enables collaboration and transparency between data, analytics, and business teams without moving data to third party platforms.

Secure and integrated visualizations

Cloudera Data Visualization provides out of the box functionality without additional integration efforts, moving data, or creating security issues. From a security and governance perspective, native integration with Cloudera means SSO for authentication and seamless integration with Cloudera Shared Data Experience to manage user access and governance.

Cloudera Data Visualization user interface

The Cloudera Data Visualization user interface has four main views: Home, SQL, Visuals, and Data. When you log in, the Home view opens by default. Use the navigation panel on the left to move between views.

The views and controls you can access depend on your role and permissions.

The following topics describe each part of the interface:

Navigating Cloudera Data Visualization

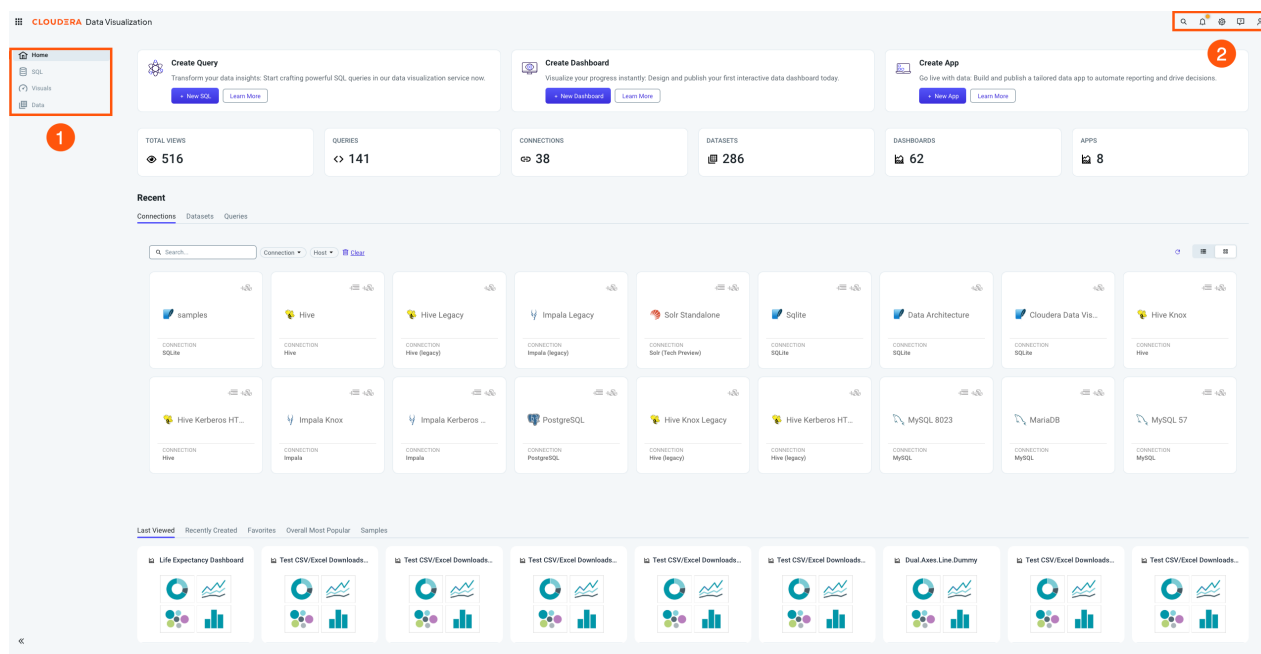
Move between the main views of Cloudera Data Visualization and access controls available throughout the application.

The Cloudera Data Visualization UI has two main navigation areas: The primary navigation panel (1) on the left takes you to the Home, SQL, Visuals, and Data views. The global controls (2) in the upper-right corner provide access to search, notifications, settings, help, and your account.



Important:

The available navigation options depend on your assigned role and permissions. You might not see all the pages or controls described here. For example options grouped under Site Administration in the Settings menu require administrative privileges or the relevant permissions.



1. Primary navigation panel

Area	Purpose
Home	View activity summaries and recent work, or create new queries, dashboards, and applications. For more information, see <i>HOME interface</i> .
SQL	Create and run SQL queries against connected data sources. For more information, see <i>SQL interface</i> .
Visuals	Create, edit, and manage visuals, dashboards and applications. For more information, see <i>VISUALS interface</i> .
Data	Manage connections, datasets, data models, and other data assets. For more information, see <i>DATA interface</i> .

Click the arrow at the bottom of the panel to collapse or expand it.

2. Global controls

Use the controls in the upper-right corner to access features available throughout the application.

Control	Description
Search	Find visuals, dashboards, applications, datasets, queries, and other assets that you have permission to access. This control is available only if search is enabled in Site Settings.

Control	Description
Notifications	View system notifications and updates. All users can view browser-level errors that may affect Cloudera Data Visualization. Depending on their permissions, users can also see activity logs, webserver errors, and system-level issues.
Settings	Access application settings and administrative functions. The available options depend on your assigned role and permissions. The Settings menu can include the following options: <ul style="list-style-type: none"> • Set Homepage • Job Status • Site Administration <ul style="list-style-type: none"> • Logs & Usage • Users & Groups • Manage Roles • Manage URL aliases • Manage API Keys • Email Templates • Custom Styles • Custom Colors • Custom Dates • Static Assets • Site Settings
Help	Access release summary, product documentation, and support resources. You can also view the version number of the running Cloudera Data Visualization instance.
User menu	View your account and login information and access profile- and session-related options. The user icon may include a marker indicating the account type or status: <ul style="list-style-type: none"> • Regular user: • Regular user who needs to change their password : • SSO-authenticated user: • Admin user: • Admin and SSO-authenticated user:

Cloudera Data Visualization Home view

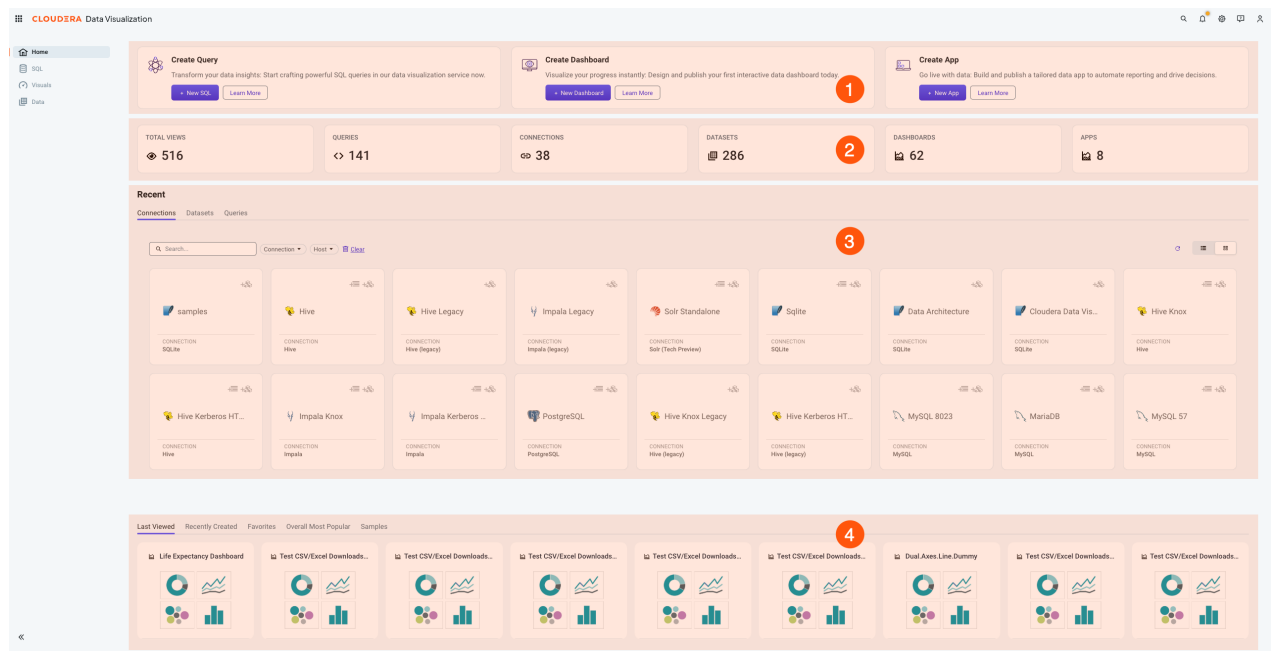
Access recent items and start creating content.

The Home view is the starting point for working in Cloudera Data Visualization. It provides an overview of your environment and quick access to content creation workflows and recently used items.

When you log in, the Home view opens by default. The content and actions available to you depend on your role and permissions. To return to it from another view, click Home in the left navigation panel.

The default Home view consists of the following areas:

1. Quick actions
2. Content summary
3. Recent content
4. Content gallery



Quick actions

The cards at the top of the page provide access to common content creation workflows:

- **Create Query:** Click New SQL to open the SQL editor and create a query. This option is available only if Direct Access is enabled and you have the required permissions for at least one data connection.
- **Create Dashboard:** Click New Dashboard to open the Dashboard Designer and create a dashboard and visuals.
- **Create App:** Click New App to open the App Designer and build an application from existing dashboards and visuals.

Click Learn More on a card to access additional information about the corresponding workflow.

Content summary

The summary tiles provide a high-level overview of the content available in your Cloudera Data Visualization environment. Click a tile to access the corresponding content.

The tiles show the number of:

- Total views
- Queries
- Connections
- Datasets
- Dashboards
- Apps

Recent content

The Recent section provides quick access to content you recently worked with. Use the tabs to view recent:

- Connections
- Datasets
- Queries

Click a card to open the corresponding item.

You can use the available controls to:

- Search for an item.
- Filter the displayed items.
- Clear the applied filters.
- Refresh the displayed content.
- Switch between grid and list views.

Connection cards also include shortcuts for adding data or creating a dataset. Dataset cards include a shortcut for creating a dashboard based on the selected dataset.

Content gallery

The content gallery provides quick access to dashboards, applications, and other visual content. Use the tabs to browse content by category:

- Last Viewed
- Recently Created
- Favorites
- Overall Most Popular
- Samples

Click a content card to open the corresponding item. The content displayed in this section depends on your activity, available sample content, and access permissions.

Related Information

[SQL view](#)

[Visuals view](#)

[Data view](#)

Cloudera Data Visualization SQL view

Explore connected data sources and write and run SQL queries.

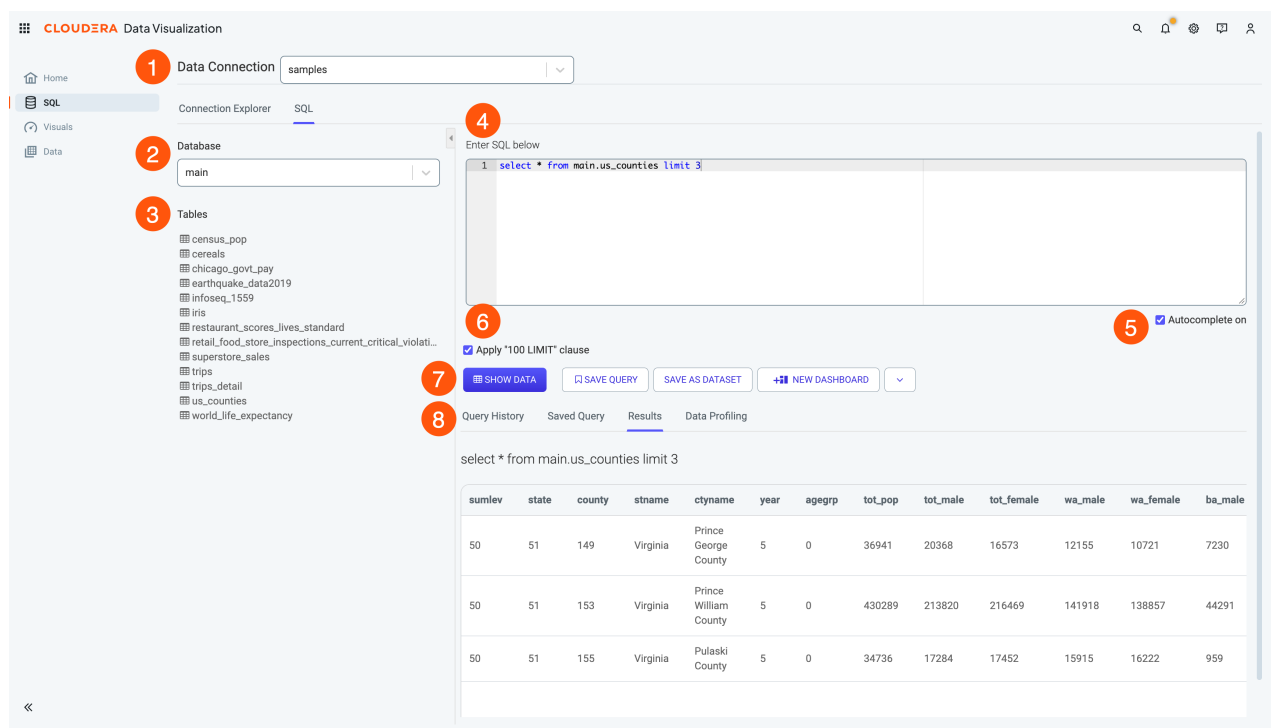
The SQL view enables you to explore connected data sources and create and run SQL queries. You can use query results to create datasets and dashboards. This page is typically the starting point when you need to explore raw data or create custom datasets for analysis and visualization.

To open this view, click SQL in the left navigation panel. Select a data connection from the Data Connection list to begin. The connections available to you depend on your permissions.

After selecting a connection, you can use the SQL workspace to:

- Write and edit SQL statements.
- Select a database.
- Run queries and review the results.
- Save queries for later use.
- Create datasets from query results.
- Create dashboards based on query output.
- Email or download query results.

The SQL workspace includes the following elements:



1. **Data connection:** Select the connection that you want to use for your query.
2. **Database:** Select the database that you want to query.
3. **Tables:** Browse the tables available in the selected database. You can collapse the database and table panel to provide more space for the SQL editor.
4. **SQL editor:** Enter and edit your SQL statement.
5. **Autocomplete:** Enable or disable suggestions while entering a query.
6. **Apply "100 LIMIT" clause:** Automatically add a LIMIT 100 clause to SELECT queries that do not already specify a limit.
7. **SHOW DATA:** Run the SQL query and display the returned data on the Results tab.
8. Display tabs:
 - **Query History:** View previously run queries.
 - **Saved Query:** View queries saved for later use.
 - **Results:** View the data returned by the query.

Related Information

[Homepage](#)

[Visuals view](#)

[Data view](#)

Cloudera Data Visualization Visuals view

Browse, create, and manage dashboards and applications in your workspaces.

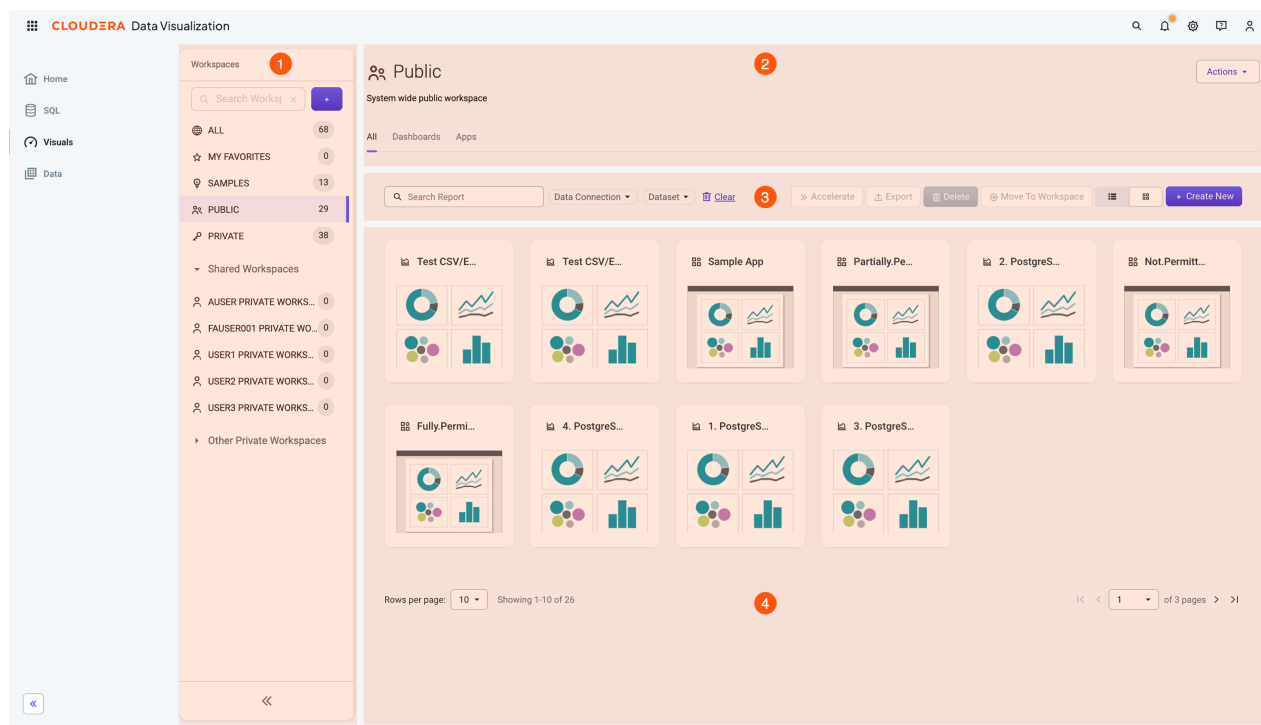
The Visuals view provides access to your dashboards and applications. Use this view to browse, create, and manage visual content in your available workspaces.

To open this view, click Visuals in the left navigation panel. The workspaces, content, and actions available to you depend on your permissions.

The Visuals view contains the following main areas:

1. Workspaces panel

2. Workspace header and content tabs
3. Content controls
4. Content area



Workspaces panel

The Workspaces panel displays the workspaces and standard content groupings available to you. The number next to each item indicates how many artifacts it contains.

You can:

- Search for a workspace.
- Click the + button to create a workspace.
- Select a workspace to view its content.
- Collapse the workspace panel to provide more space for the content area.

The standard groupings include:

- **ALL:** Displays all visual content available to you.
- **MY FAVORITES:** Displays content that you marked as a favorite.
- **SAMPLES:** Displays sample dashboards and applications.
- **PUBLIC:** Displays content in the system-wide public workspace.
- **PRIVATE:** Displays content in your private workspace.

The panel also lists shared workspaces and other private workspaces that you have permission to access. You can expand or collapse workspace groups to simplify the navigation.

Workspace header and content tabs

The workspace header displays the name and description of the selected workspace.

Use the Actions menu to manage the workspace. The available actions depend on your permissions.

Use the following tabs to control which artifacts are displayed:

- **All:** Displays both dashboards and applications.

- **Dashboards:** Displays dashboards only.
- **Apps:** Displays applications only.

Content controls

Use the controls above the content area to find and manage visual artifacts:

- **Search Report:** Search for content in the selected workspace.
- **Data Connection:** Filter content by data connection.
- **Dataset:** Filter content by dataset.
- **Clear:** Remove the applied filters.
- **Accelerate:** Accelerate selected eligible content.
- **Export:** Export the selected content.
- **Delete:** Delete the selected content.
- **Move To Workspace:** Move the selected content to another workspace.
- **List view / Grid view:** Switch between the two display formats.
- **Create New:** Create a dashboard or application.

Actions that require a content selection remain unavailable until you select one or more items. Your permissions also determine which actions you can use.

Content area

The content area displays the dashboards and applications in the selected workspace.

Grid view

Grid view displays dashboards and applications as thumbnail cards. Click a card to open the artifact in View mode.

When you hover over a card, the following controls appear:

- : Select the artifact. Selecting one or more artifacts enables the applicable actions above the content area.
- : Open the artifact in Edit mode.
- : Access additional actions, such as exporting, moving, or deleting the artifact.

The available controls and actions depend on your permissions.

List view

List view displays dashboards and applications in a table with the following information:

- Title
- ID
- Number of related artifacts
- Creation date
- Last update
- Last modified by
- Total views
- Dataset
- Data connection
- Workspace

You can:

- Click a title to open the artifact.
- Click a dataset or workspace name to open the corresponding item.
- Select one or more artifacts using the checkboxes. Selecting artifacts enables the applicable actions above the table.
- Sort the table by clicking a column heading.
- Open the three-dot menu at the end of a row to access Edit and Delete actions for that artifact.
- Set the number of rows displayed per page and use the pagination controls to move between pages.

The available actions depend on your permissions.

Related Information

[Homepage](#)

[SQL view](#)

[Data view](#)

Cloudera Data Visualization Data view

Manage connections, datasets, and data extracts, and explore the databases and tables available through your connections.

The Data view enables you to manage the data used in dashboards and visuals. You can create and manage data connections, datasets, and data extracts, and explore the databases and tables available through your connections.

To open this view, click Data in the left navigation panel. The connections, data, and actions available to you depend on your permissions.

The Data view contains the following main areas:

1. Connections panel
2. Data tabs
3. Data actions
4. Content area

The screenshot shows the Cloudera Data Visualization Data view interface. The left sidebar (Connections panel) lists various connections like Hive Docker, Hive Kerberos Binary, etc. The top center (Data tabs) shows 'Datasets 27', 'Connection Explorer', and 'Data Extracts'. The top right (Data actions) includes 'Actions' and 'New Dataset' buttons. The main Content area displays a table of datasets with columns: Title / Table, ID, Tags, Created, Last Updated, Modified by, and # Dashboards. The table lists datasets such as 'Global Information Security Threats', 'Cereals', 'Capitalized Earthquake Data January 2019', etc.

Title / Table	ID	Tags	Created	Last Updated	Modified by	# Dashboards
Global Information Security Threats main.infoseq_1559	184	Extract Source	Feb 23, 2026	6 days ago	vizapps_admin	3
Cereals main.cereals	906		Jul 07, 2026	6 days ago	vizapps_admin	5
Capitalized Earthquake Data January 2019_1789541559763 main.earthquake_data2019	1107		Sep 16, 2026	6 days ago	vizapps_admin	1
US County Population main.us_counties	186		Feb 23, 2026	7 days ago	vizapps_admin	3
Capitalized Earthquake Data January 2019_1789467111323 main.earthquake_data2019	1103		Sep 15, 2026	7 days ago	vizapps_admin	1
World Life Expectancy for Annotations main.world_life_expectancy	1102		Sep 15, 2026	7 days ago	vizapps_admin	1
Food Stores Inspection in NYC main.retail_food_store_inspections_current_critical_vio...	190		Feb 23, 2026	7 days ago	vizapps_admin	5
Iris main.iris	182		Feb 23, 2026	13 days ago	vizapps_admin	1
Earthquake Data January 2019 main.earthquake_data2019	188		Feb 23, 2026	14 days ago	vizapps_admin	1
Census Pop main.census_pop	211		Mar 02, 2026	14 days ago	vizapps_admin	0

Connections panel

The connections panel displays the data connections available to you.

You can:

- Click New connection to connect to a new data source.
- Click All connections to display datasets from all available connections.
- Search for a connection.
- Select a connection to view its datasets, tables, and data extracts.
- Click the pencil icon next to a connection to edit its details.
- Collapse the panel to provide more space for the content area.

The ability to create and edit connections depends on your privileges. If you do not have permission to manage connections, you can still view and explore the connections available to you.

Data tabs

Use the tabs at the top of the content area to switch between the following views:

- **Datasets:** View and manage available datasets. The number next to the tab indicates how many datasets are displayed.
- **Connection Explorer:** Explore the databases and tables available through the selected connection.
- **Data Extracts:** View and manage data extracts associated with the selected connection.

Data actions

The following actions are available in the upper-right corner:

- **Actions:** Access additional data-management functions, such as clearing the result cache, importing visual artifacts, or enabling Direct Access. The available options depend on your permissions and configuration.
- **New Dataset:** Create a dataset. If you selected a specific connection, the new dataset uses that connection.
- **Search:** Use the search field to find a dataset.

Content area

Datasets

The Datasets tab displays datasets from the selected connection. If All connections is selected, it displays datasets from all available connections.

The dataset table provides the following information:

- Dataset title and source table
- Dataset ID
- Tags
- Creation date
- Last update
- User who last modified the dataset
- Number of dashboards using the dataset

You can:

- Click a dataset title to open it.
- Click the dashboard count to view the related dashboards that contain visuals created based on the dataset.
- Use the dashboard icon next to a dataset to create a dashboard based on it.
- Click the delete icon to delete a dataset, if you have the required permission.
- Sort the table using the Last Updated column heading.

Datasets 27 Connection Explorer Data Extracts

Q Search dataset x

Title / Table	ID	Tags	Created	Last Updated ↓	Modified by	# Dashboards
Global Information Security Threats main.infoseq_1559	+  184	Extract Source	Feb 23, 2026	6 days ago	vizapps_admin	3
Cereals main.cereals	+  906		Jul 07, 2026	6 days ago	vizapps_admin	5
Capitalized Earthquake Data January 2019_1789541559763 main.earthquake_data2019	+  1107		Sep 16, 2026	6 days ago	vizapps_admin	1
US County Population main.us_counties	+  186		Feb 23, 2026	7 days ago	vizapps_admin	3
Capitalized Earthquake Data January 2019_1789467111323 main.earthquake_data2019	+  1103		Sep 15, 2026	7 days ago	vizapps_admin	1
World Life Expectancy for Annotations main.world_life_expectancy	+  1102		Sep 15, 2026	7 days ago	vizapps_admin	1
Food Stores Inspection in NYC main.retail_food_store_inspections_current_critical_vio...	+  190		Feb 23, 2026	7 days ago	vizapps_admin	5
Iris main.iris	+  182		Feb 23, 2026	13 days ago	vizapps_admin	1
Earthquake Data January 2019 main.earthquake_data2019	+  188		Feb 23, 2026	14 days ago	vizapps_admin	1
Census Pop main.census_pop	+  211		Mar 02, 2026	14 days ago	vizapps_admin	0

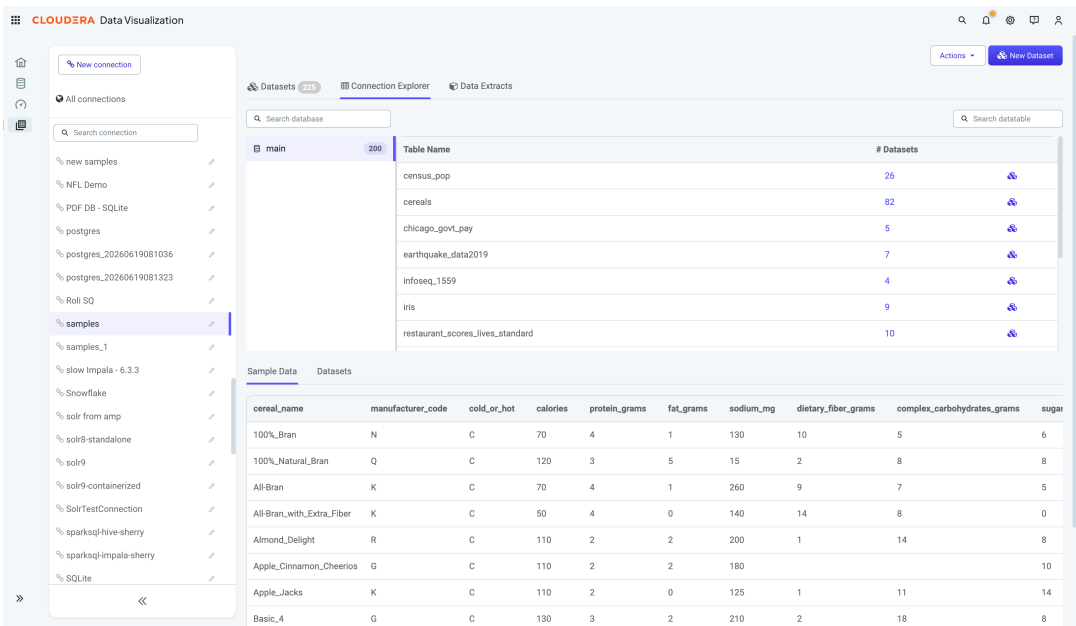
Rows per page: 10 1-10 of 27 < > >>

Connection Explorer

The Connection Explorer tab enables you to browse the databases, datasets, and tables available through the selected connection.

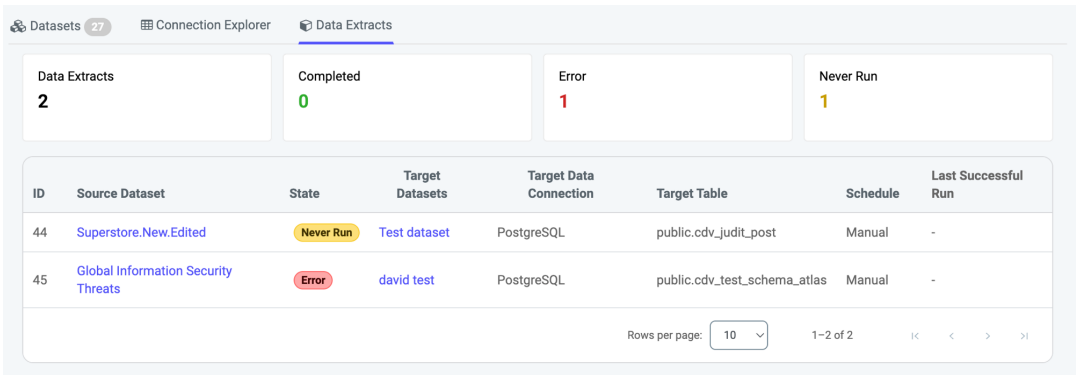
Select a database to view its tables. From the table list, you can:

- Preview table details and sample data.
- View datasets based on a table.
- Create a dataset from a table.



Data Extracts

The Data Extracts tab displays the extracts created from the selected data connection. It provides overall extract statistics and a list of the available extracts.



Related Information

[Homepage](#)

[SQL view](#)

[Visuals view](#)