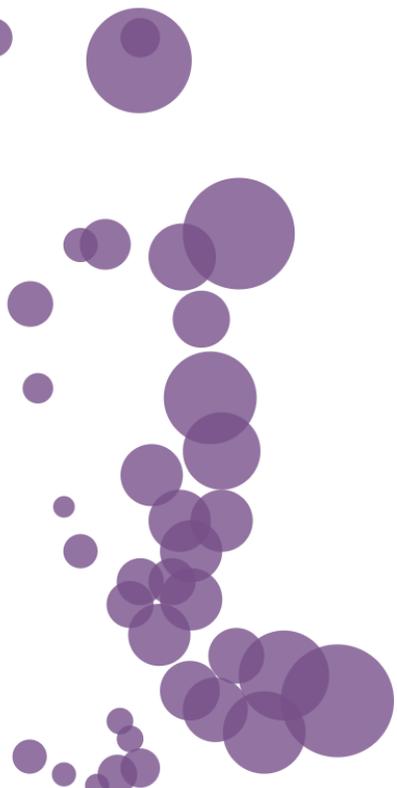




WHAT'S NEW AND RELEASE NOTES

Release: 2022.5



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NEW FEATURES AND IMPROVEMENTS

DATA PREPARATION

Use macro expressions in custom SQL

You can now use user-related macro expressions not only in calculations and filters, but also when adding custom SQL queries in a dataset.

Additionally, you can use a new macro expression, `${user.attribute('attribute_name')}`, to filter data against any attribute defined for a user in Access Manager.

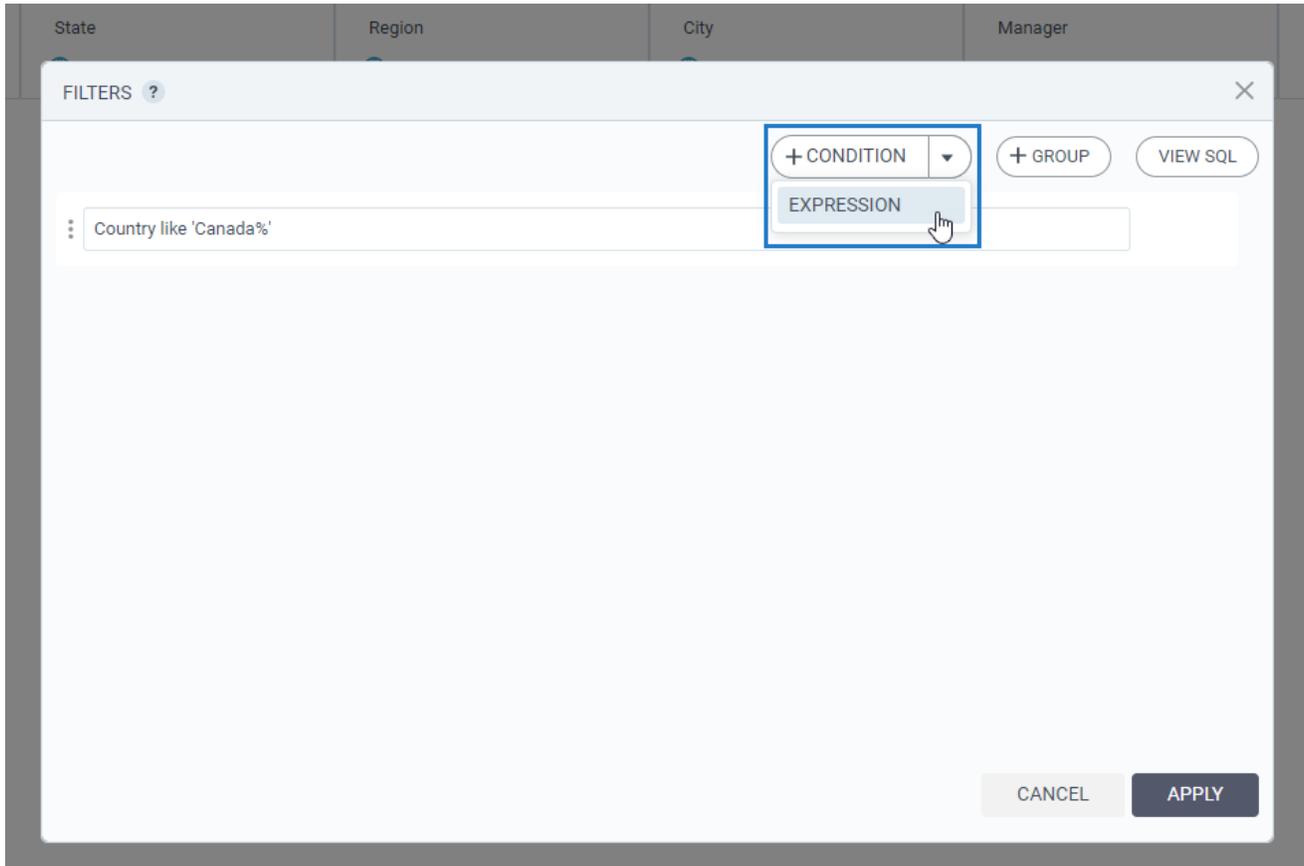
The screenshot displays the Access Manager web interface. On the left is a dark sidebar with navigation options: Configure (Settings, Clients, Authentication Providers, Local Authentication Settings, Identity Providers), Manage (Licenses, Roles, Groups, Users), and Monitor. The main content area shows the user profile for 'George.becker' under the 'Attributes' tab. A table lists attributes with columns for Key, Value, and Actions. The 'team' attribute has a value of 'Analysts' and a 'Delete' action. A modal window titled 'SQL QUERY' is open in the foreground, showing a query: `1 select * where ${user.attribute('team')} ...|`. The modal has navigation buttons for 'PREV', 'NEXT', and a close button 'X'.

Key	Value	Actions
	1621959634706	
team	Analysts	Delete

```
1 select * where ${user.attribute('team')} ...|
```

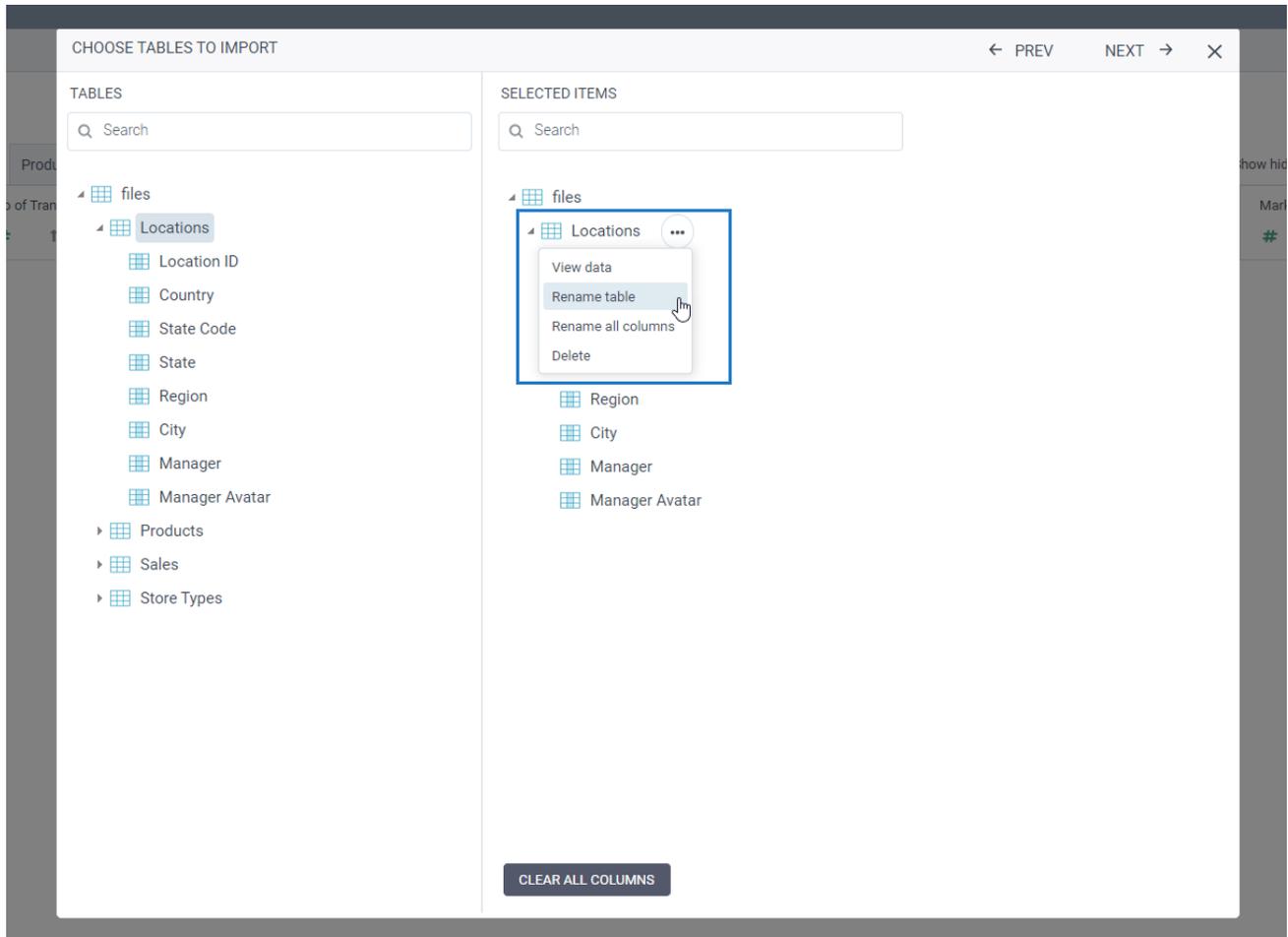
Use custom SQL expressions in filter conditions

When adding filters in datasets, you can now specify filter conditions as custom SQL expressions, for example, *"Country" LIKE 'Canada%'* or *Column = \${user.username}*. The expressions are then added in SQL preview as any other conditions.

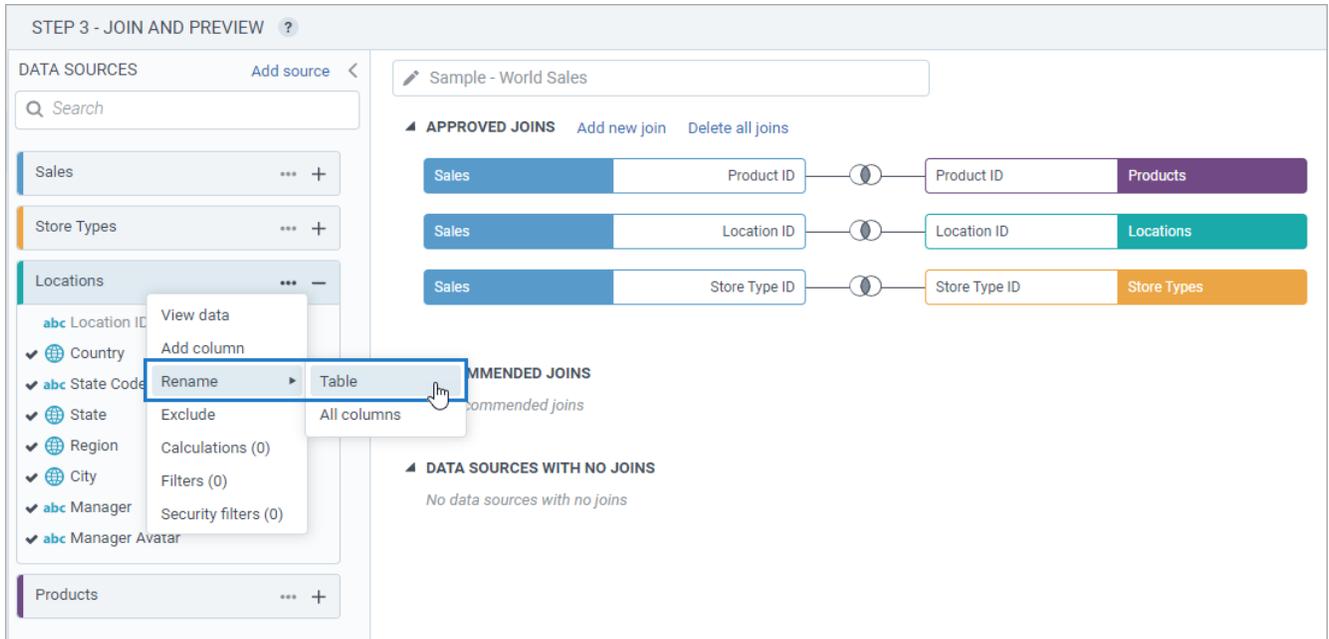


Rename a table when adding a new data source

Starting with this release, you can rename any new tables that you add to a dataset. In the **Choose tables to import** dialog, click **More options**, and then select **Rename table**.

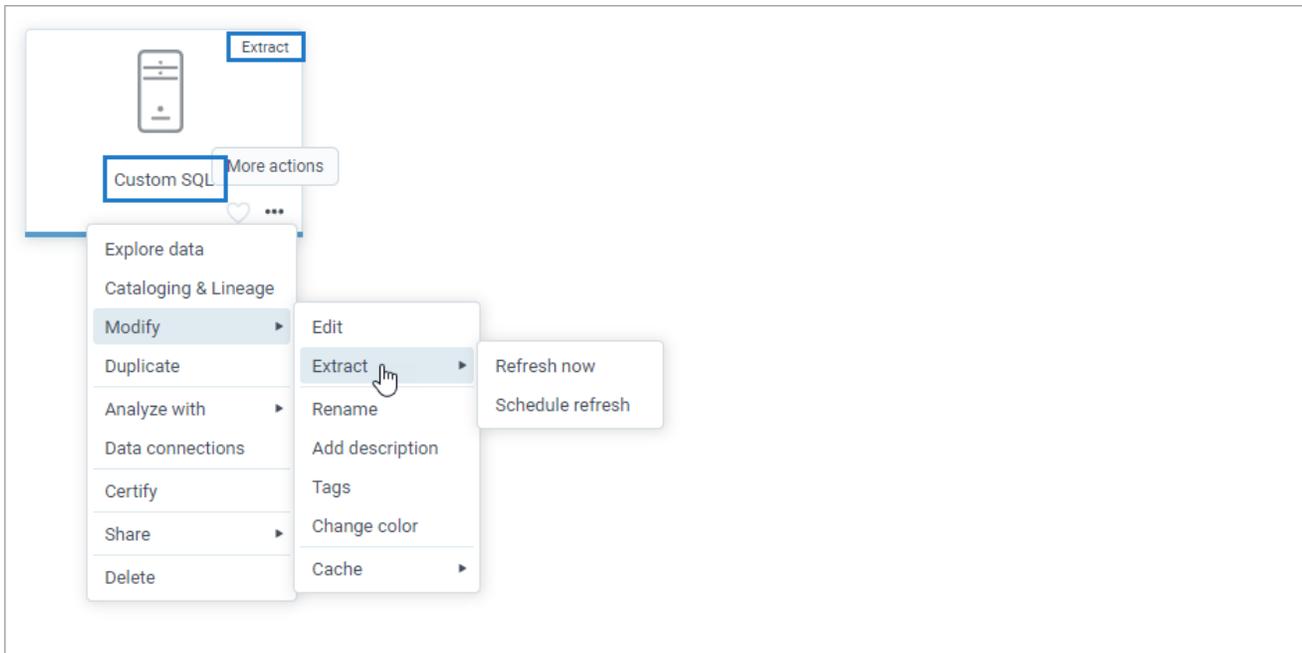


Subsequently, the **Rename > Data source** option is renamed to **Rename > Table** in Step 3 of the dataset wizard.



Create extracts for datasets based on custom SQL data

You can now create extracts of the datasets that are based on custom SQL data.



Replace a connection used in a dataset

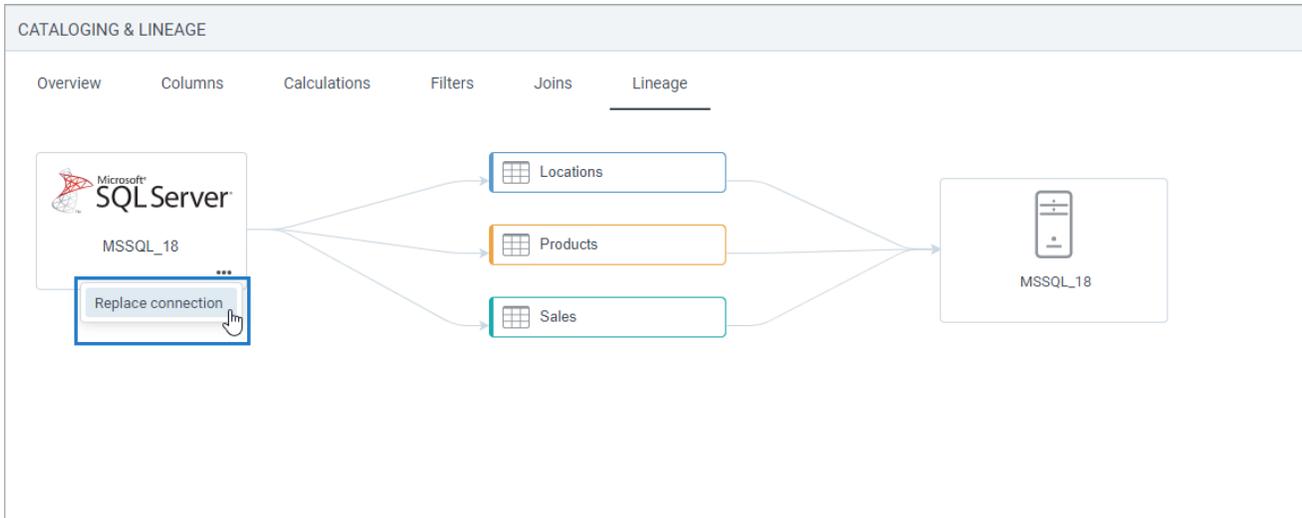
Now, you can switch data connections used for the dataset to another replacement connection of the same type, for example SQL server to another SQL server connection. This may be especially useful when you create a dataset that is using a test database during the modeling phase but then want to configure the dataset to use production data connections.

You can switch a data connection by clicking **More options** for the needed data connection and selecting **Replace connection** in the following places:

- Dataset wizard (Step 2)
- Cataloging & Lineage
- Dataset connections

In the **Replace connection** dialog that opens, you can view the list of your own and shared data connections.

The screenshot shows the 'STEP 2 - REFINE' interface. At the top, there is a 'source options' dropdown and a 'TM1 Cube 10.15.16.22' selector. Below this is a table with columns: Product line, Date, Store type, Items per transaction, Sales per transaction, No of customers, and Quantity. The 'Date' column has a calendar icon. A 'More options' menu is open over the 'Date' column, showing 'Replace connection' and 'Delete'. A 'REPLACE CONNECTION' dialog is also shown, with the title 'REPLACE CONNECTION' and a close button. The dialog contains the text 'Replace Quakes with' and a dropdown menu showing 'Quakes'. Below the dropdown is a search box labeled 'Search' and a list of connections: 'Oracle_18_03_2021_08', 'Oracle_18_03_2021', 'Quakes', and 'Quakes' (selected with a checkmark).



Add calculations based on columns from different dataset tables

Now, when creating or editing a dataset, you can create calculations by using columns from different tables. To do so, in Step 3 of the dataset wizard, on the **Data preview** toolbar, click **Calculations**. In the **Calculations** dialog that opens, you can find all the dataset columns grouped by table.

The screenshot shows the DataClarity interface with a data preview table and a 'CALCULATIONS' dialog box. The data preview table has the following columns and data:

Sales Date	Items per Transaction	No of Transactions	No of Customers	Quantity	Unit Price	Discount	Gross Sales
Jan 1 2019	24	6	20				
Feb 1 2019	17	8	15				
Mar 1 2019	29	9	30				
Apr 1 2019	26	10	12				
May 1 2019	48	8	21				
Jun 1 2019	17	3	12				

The 'CALCULATIONS' dialog box is open, showing a list of dimensions and measures. The 'Measures' list is expanded, and 'Gross Sales' is selected. The dialog also includes a search bar, a 'Calculation name' field, a 'Measure' dropdown, and a 'SAVE' button.

Preview dataset tables as columns list

Starting with this release, you can view dataset tables as a column list including its type, source column name, and source table. To switch between the views, use the **Column list view** and **Data view** icons in the upper-right corner of the data table in Step 2 and in the upper-left corner in Step 3 of the dataset wizard.

STEP 2 - REFINE ? NEXT →

Sample - World Sales.xlsx

Calculations (0) Filters (0) Security filters (0)

Columns list view Show hidden columns

Sales Store Types Locations Products

Search

Type	Name	Source column	Source Table
...	Sales Date	Sales Date	Sales
...	Items per Transaction	Items per Transaction	Sales
...	No of Transactions	No of Transactions	Sales
...	No of Customers	No of Customers	Sales
...	Quantity	Quantity	Sales
...	Unit Price	Unit Price	Sales
...	Discount	Discount	Sales
...	Gross Sales	Gross Sales	Sales

STEP 3 - JOIN AND PREVIEW ? Live Extract FINISH →

Sample - World Sales

APPROVED JOINS Add new join Delete all joins

Sales Product ID Product ID Products

Sales Location ID Location ID Locations

Sales Store Type ID Store Type ID Store Types

Data preview Show hidden columns Show 100 rows Calculations (0)

Sales									
Sales Date	Items per Transaction	No of Transactions	No of Customers	Quantity	Unit Price	Discount	Gross Sales	Planned Gross Sales	Manufacturing Cc
#	#	#	#	#	#	#	#	#	#
Jan 1 2019	24	6	20	15	12	0.07	167.40	180.79	3.60
Feb 1 2019	17	8	15	30	68	0.03	1978.80	1860.07	40.80
Mar 1 2019	29	9	30	25	43	0.05	1021.25	1031.46	21.50
Apr 1 2019	26	10	12	48	30	0.08	1324.80	1470.53	28.80
May 1 2019	48	8	21	20	17	0.05	323	310.08	6.80
Jun 1 2019	17	3	12	15	100	0.05	1425	1596.00	30
Jul 1 2019	21	2	10	10	200	0.04	1920	1977.60	40

STORYBOARDS

Format numeric columns as strings

Now, you can format numeric type columns to be displayed as strings with no decimals or thousand separators. In other words, if you need to treat a numeric column containing such numbers as 10,000 as a dimension, you change its format to String. Numeric dimension columns are always displayed as unformatted strings by default.

In Storyboards, a new option is available in **Column format** for numeric type columns.

The screenshot displays the DataClarity interface with a 'COLUMN FORMAT' dialog box open. The dialog box is titled 'COLUMN FORMAT' and contains the following fields:

- Format as:** A dropdown menu with options: Number (selected), Currency, Percentage, and String (highlighted by a blue box).
- Negative values:** A dropdown menu with the value '-1234'.
- Display units:** A dropdown menu with the value 'None'.
- Prefix:** An empty text input field.
- Suffix:** An empty text input field.
- Decimal separator (custom):** An empty text input field.
- Thousands separator:** A dropdown menu with the value 'Custom'.
- Thousands separator (custom):** An empty text input field.

At the bottom of the dialog box are 'CANCEL' and 'OK' buttons. In the background, the 'Unit Price' column is highlighted in the 'Dimension' section of the 'Data' panel, and a 'Format measures' button is visible. The main visualization area shows a bar chart with data points and labels (370, 573, 955, 1301, 1924) on the x-axis.

Open a storyboard from the subscription email

This release lets you include a link to the respective storyboard in the subscription email. This way, a subscriber can quickly review the latest updates by navigating to the live version of the storyboard instead of reviewing the attached screenshots. Access to the live storyboard depends on the subscriber's permissions for the storyboard and for the dataset that is used for the visualizations.

A new macro expression, `#{storyboard.link}`, is now available in the default subscription email to automatically generate a storyboard link.

