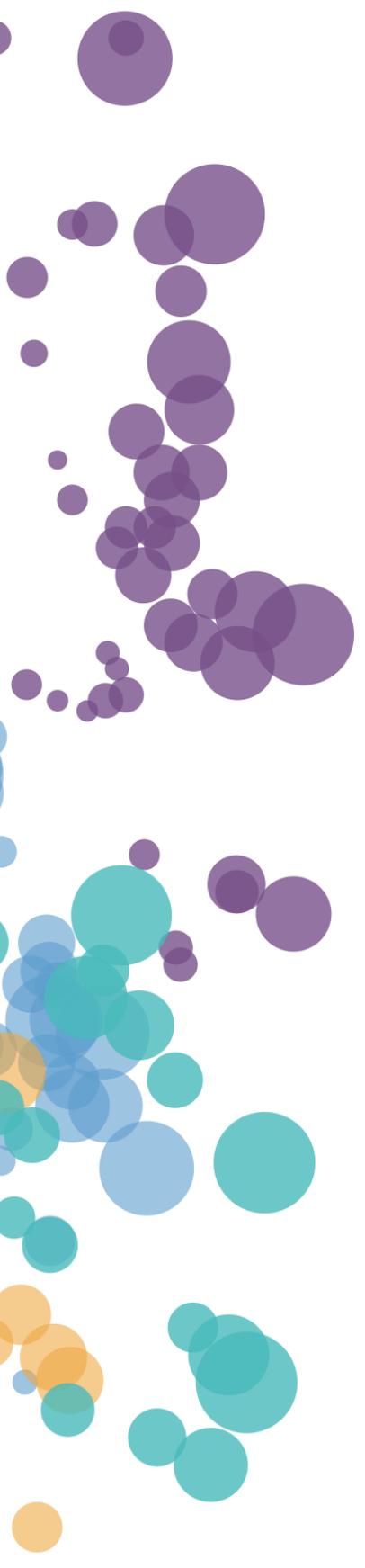




## WHAT'S NEW AND RELEASE NOTES

Release: 2020.4



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## NEW FEATURES AND IMPROVEMENTS

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### INSTALLATION & CONFIGURATION

#### *HTTPS support over SSL for Docker Compose installations*

DataClarity helps you keep data secure and protected. Now, by enabling the HTTPS protocol (SSL), the system will establish the encrypted communication channel between your client and Data Server, and then pass the HTTP messages through it, effectively protecting them.

Prior to this release, the SSL was supported for Kubernetes installation only. In this release, when installing DataClarity using Docker Compose, administrators can specify whether to enable HTTPS when accessing the platform through a browser, and SSL when connecting to the Data Server. If no SSL certificate is provided in the respective certificate location, then the self-signed certificate is generated automatically.

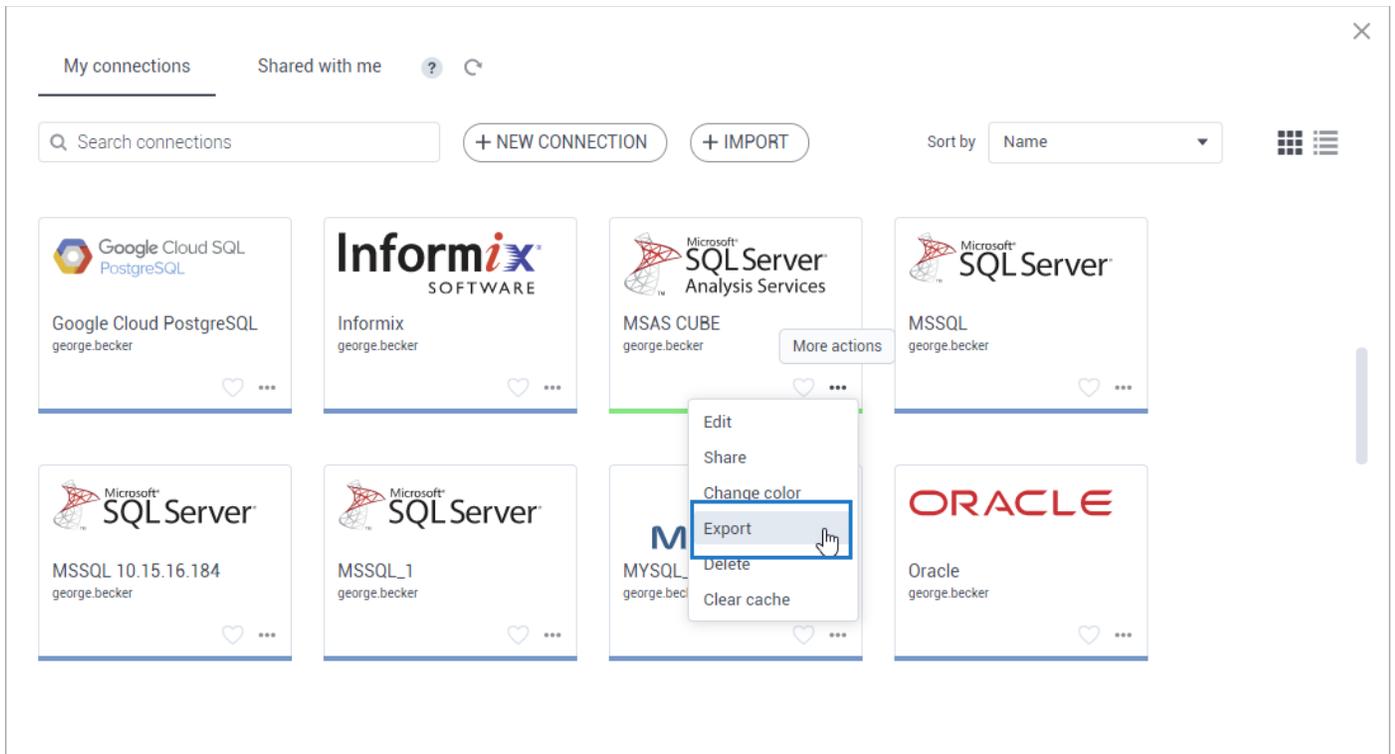
```
VM@DESKTOP-33BHA4F MINGW64 /d/Repo/DevOps/misc/on-prem/compose/distribution (dev
eTop)
$ ./install.sh
Channel [production, beta] : production
Public entry point (ip address or domain name) : example.com
Setup SSL (Secure Sockets Layer) [y/n] : y
```

### DATA PREPARATION

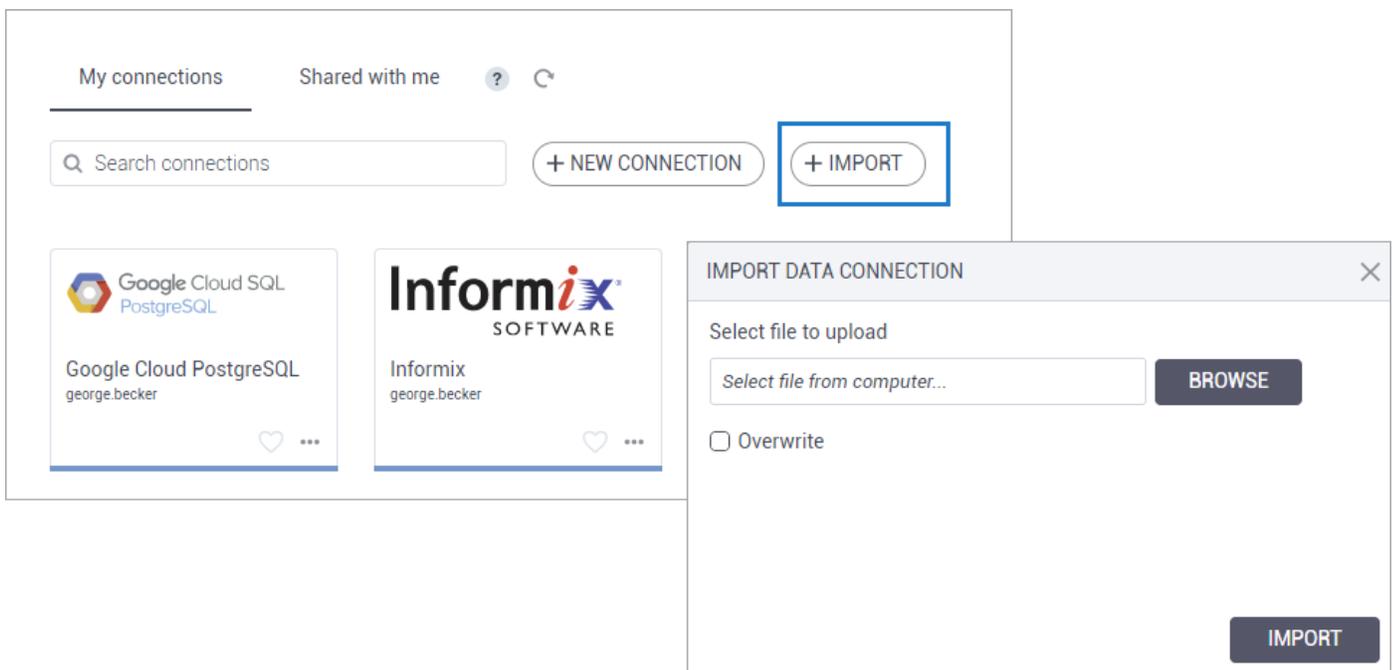
#### *Export and import data connections*

Managing data connections now offers more flexibility by allowing export and import of data connections. This way, data connections can be easily reused on different environments saving your time spent on re-creating new connections.

In the **Data connections** pane, you can export any of your data connections by using the **Export** option under the **More actions** menu. The data connection details that you are exporting are saved into a ZIP file.



To import a data connection, just upload a ZIP file with the data connection. In the **Data connections** pane, clicking the **Import** button will open the dialog for the file import. Here you have the option to overwrite the connection in case the same data connection has been imported previously. If the identical connection already exists, then the data connection will not be imported.



## Hide dataset columns

When preparing a dataset, as a modeler, you might need some columns for establishing joins between the tables, and others for creating calculations and filters, but you don't necessarily want those columns to appear in the final dataset for consumers.

This release allows you to hide the dataset columns you used for dataset filters or calculations. This process is available in **Step 3 – Join and preview**. A column will be hidden by clicking it. You can still use the column for filters and calculations, but it will be hidden.

Moreover, all hidden columns can be previewed in the data preview table. To do so, you can use the **Show hidden column** check box that has been added to the dataset preview pane.

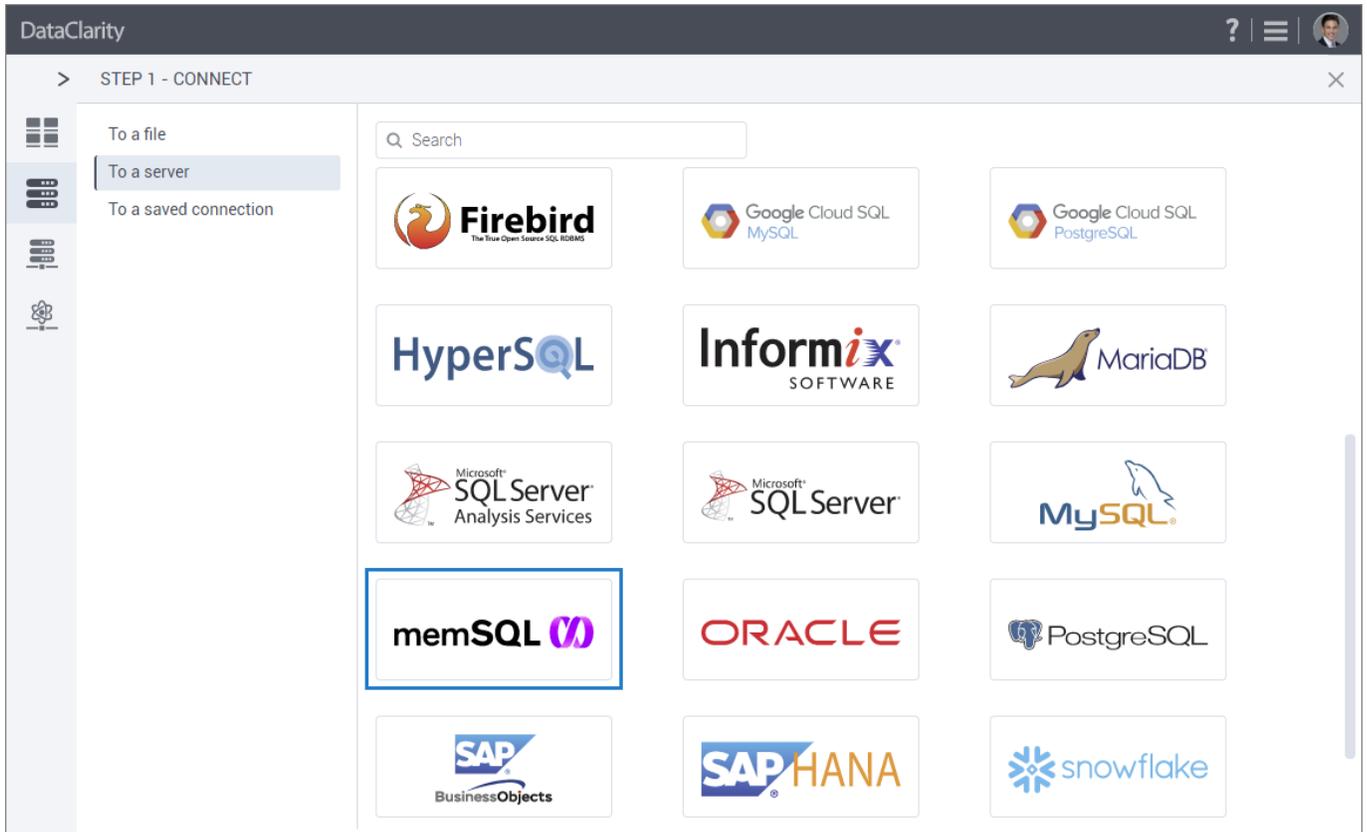
The screenshot shows the DataClarity interface in the 'STEP 3 - JOIN AND PREVIEW' stage. On the left, the 'DATA SOURCES' list includes 'Sales' with columns like 'Sales Date', 'Store Type ID', 'Location ID', 'Product ID', and various metrics. A context menu is open over 'Store Type ID', with 'Unhide' selected. The main workspace shows 'APPROVED JOINS' connecting 'Sales' to 'Products', 'Locations', and 'Store Types' via 'Product ID', 'Location ID', and 'Store Type ID' respectively. Below, the 'Data preview' table shows data for 'Sales Date' (Jan 1 2017, Feb 1 2017) with columns for 'Store Type ID', 'Location ID', 'Product ID', 'Items per Transaction', 'No of Transactions', and 'No of Customers'. A 'Show hidden columns' checkbox is checked, and the 'Store Type ID', 'Location ID', and 'Product ID' columns in the table are highlighted.

Sales Date	Store Type ID	Location ID	Product ID	Items per Transaction	No of Transactions	No of Customers
Jan 1 2017	3	50	48	33	4	20
Feb 1 2017	2	50	3	33	5	15

## Support MemSQL as a data connection

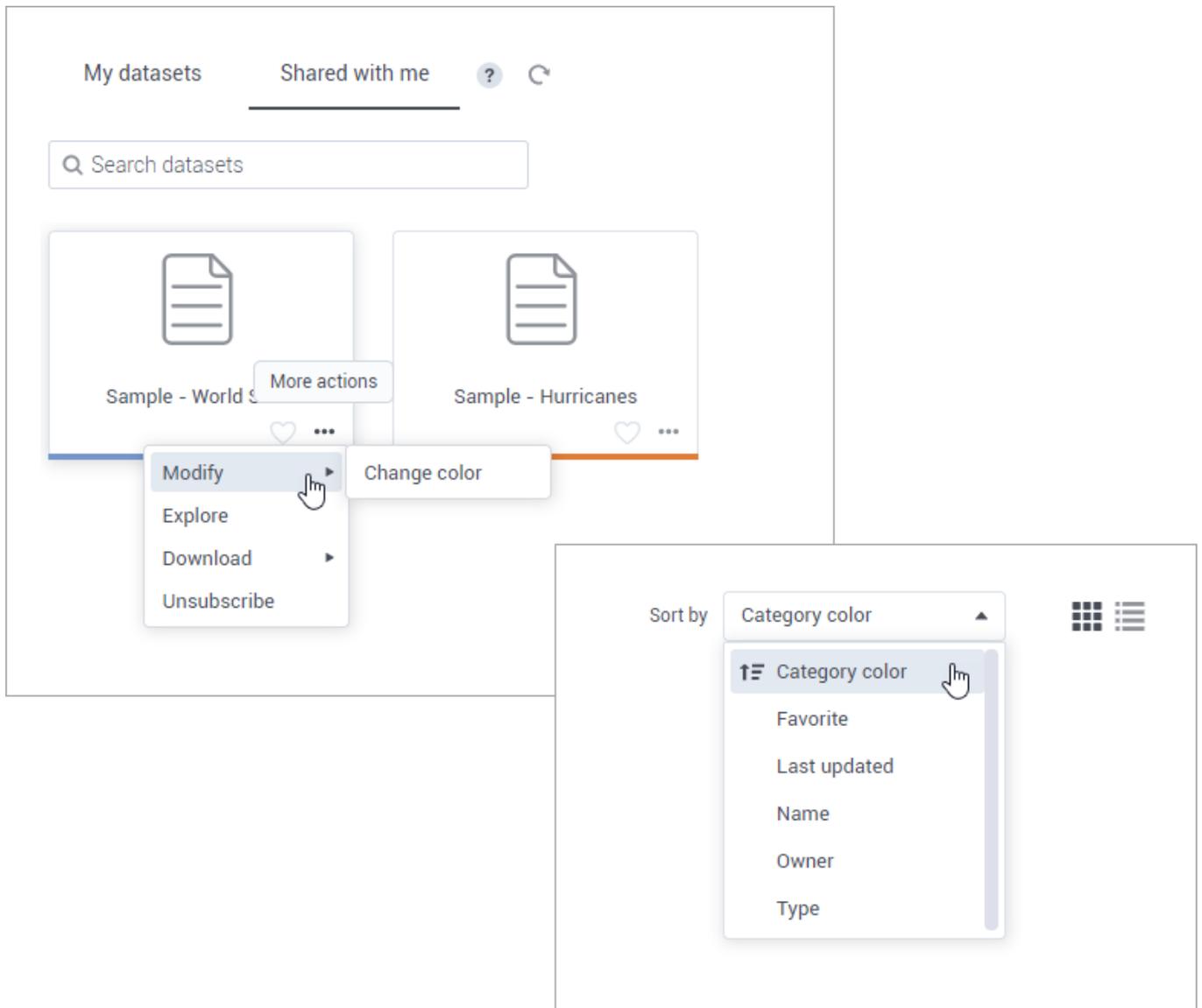
If your data resides in MemSQL (a relational SQL database), you can now easily add a data connection to this data source, cache it, and visualize a dataset based on MemSQL.

To create a new connection, click the MemSQL data source connection icon that has been added in Data Preparation, to the **Data connections** pane.



## Sort shared datasets by category color or favorite tag

Prior to this release, dataset owners could categorize their datasets by color and mark them as favorites. In this release, dataset recipients can also sort shared datasets by **Category color** or **Favorite** options.



## Longer column names

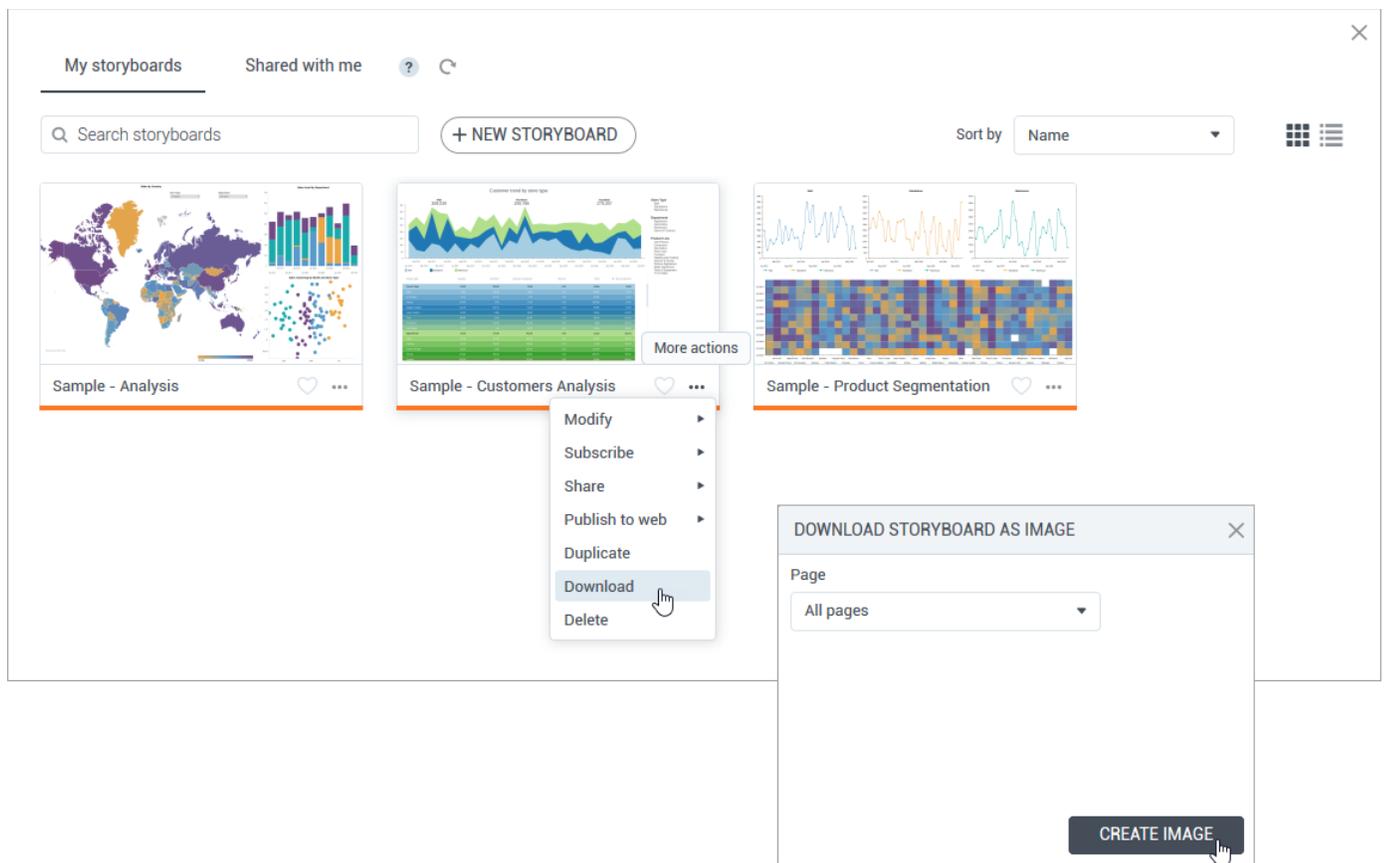
You are no longer restricted to 30 characters for the column names in datasets. Now, the size has been extended to 60 characters to allow more flexibility for naming conventions.

## STORYBOARDS

### *Download storyboards as images*

This release provides a great feature for printing storyboards, which can be useful for meetings and discussions. You can choose to download one selected page or all storyboard pages as PNG images, and then print or share them with your colleagues.

To do so, for the storyboard (tile or row) that you want to download, point to **More actions**, and click **Download**. Multiple pages of the storyboard will be automatically saved into a single ZIP file.

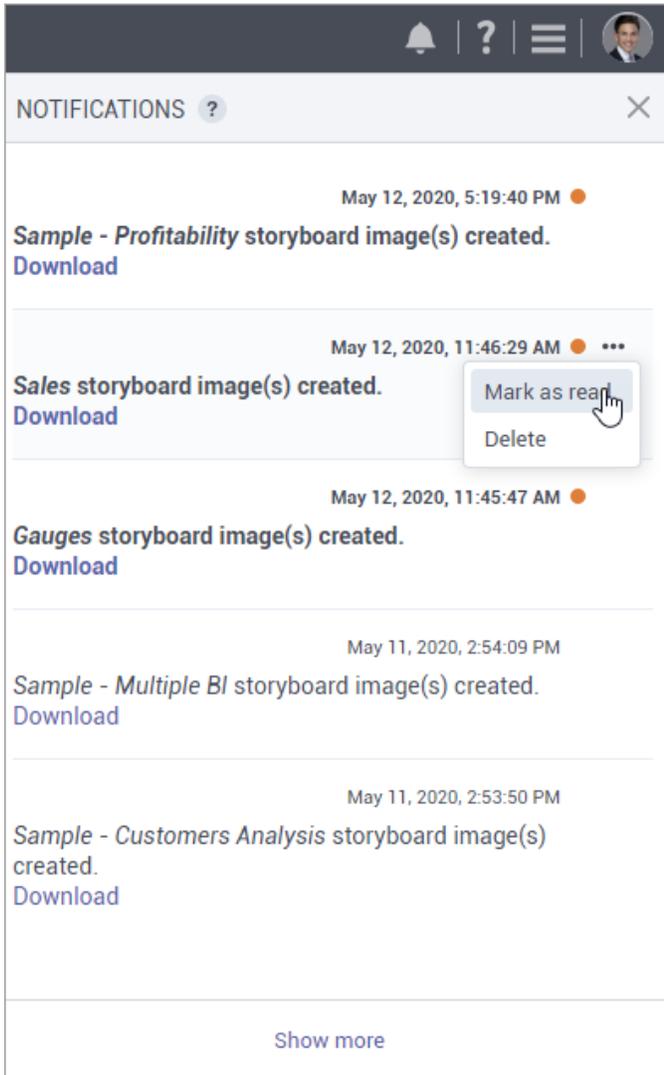


## User notifications

Starting this release, all the incoming notifications that require user attention or assistance can be reviewed in the new **Notifications** pane. The number of new unseen notifications is placed over the notification icon on the toolbar, which will disappear after previewing the messages in the pane. To ensure great performance, a certain number of messages is visible at once. Just click **Show more** at the bottom of the pane to navigate to the following set of notifications.

On this pane, you can view notifications with the images of storyboard pages that are ready for download. For each notification, you can see the respective storyboard name, date and time of the message, and the link to download the images.

Unread messages are marked with the indicator on the right. To mark the notification as read, point to **More options**, and then click **Mark as read**. To remove a notification from the list, point to **More options**, and then click **Delete**.



*Bullet chart visualization widget*

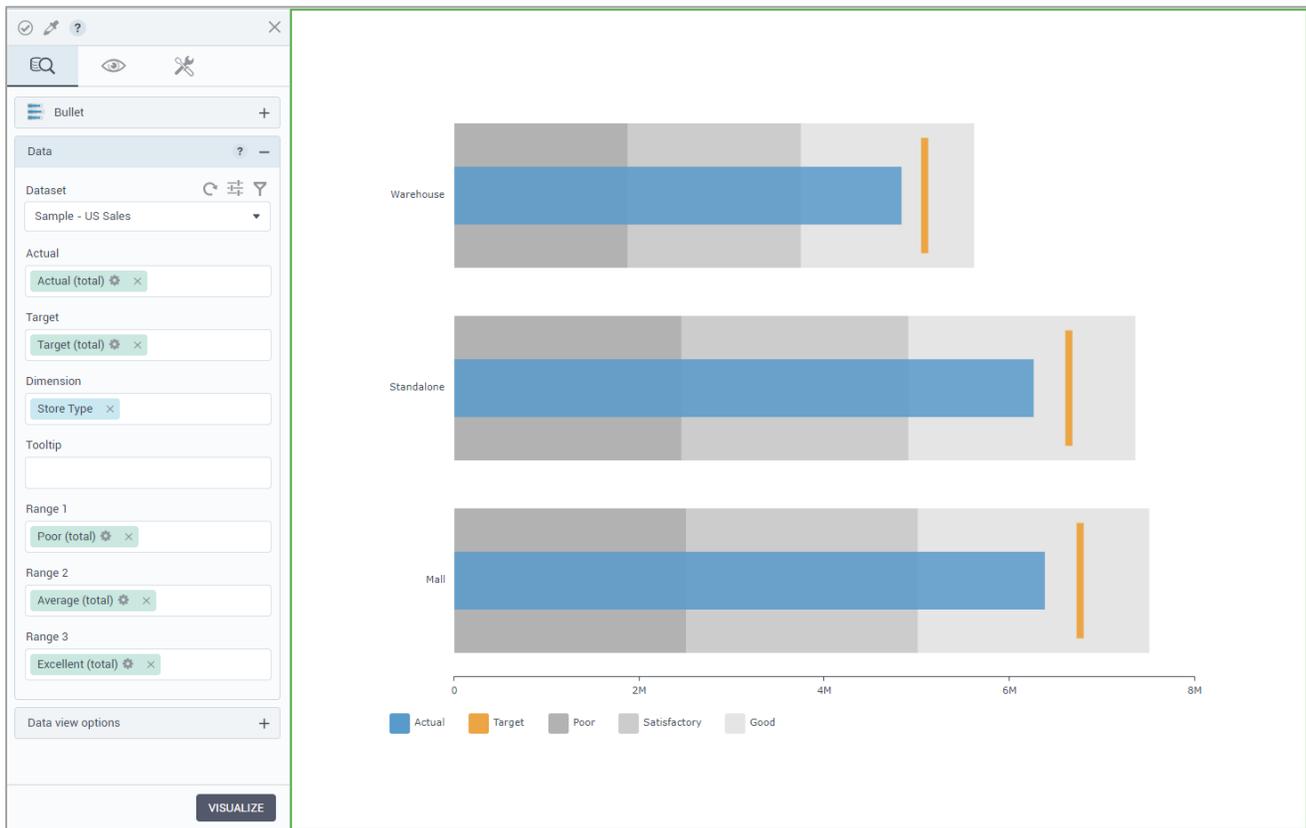
In this release, DataClarity users can benefit from the new visualization - a bullet chart. A bullet chart is a simple visualization that has a lot of advantages for the storyboards visualizing KPIs (Key Performance Indicators) like revenue, expenses, new customers, expenses, and others. The chart is informative, easy to read, while requiring less real estate comparing to other extended gauges.

A bullet chart compares the performance of one measure against another related measure, for example, sales and sales forecast. Adding a dimension will also compare measures among dimension values. Additionally, a measure of interest can be evaluated against defined qualitative ranges (for example, poor, average, and good).

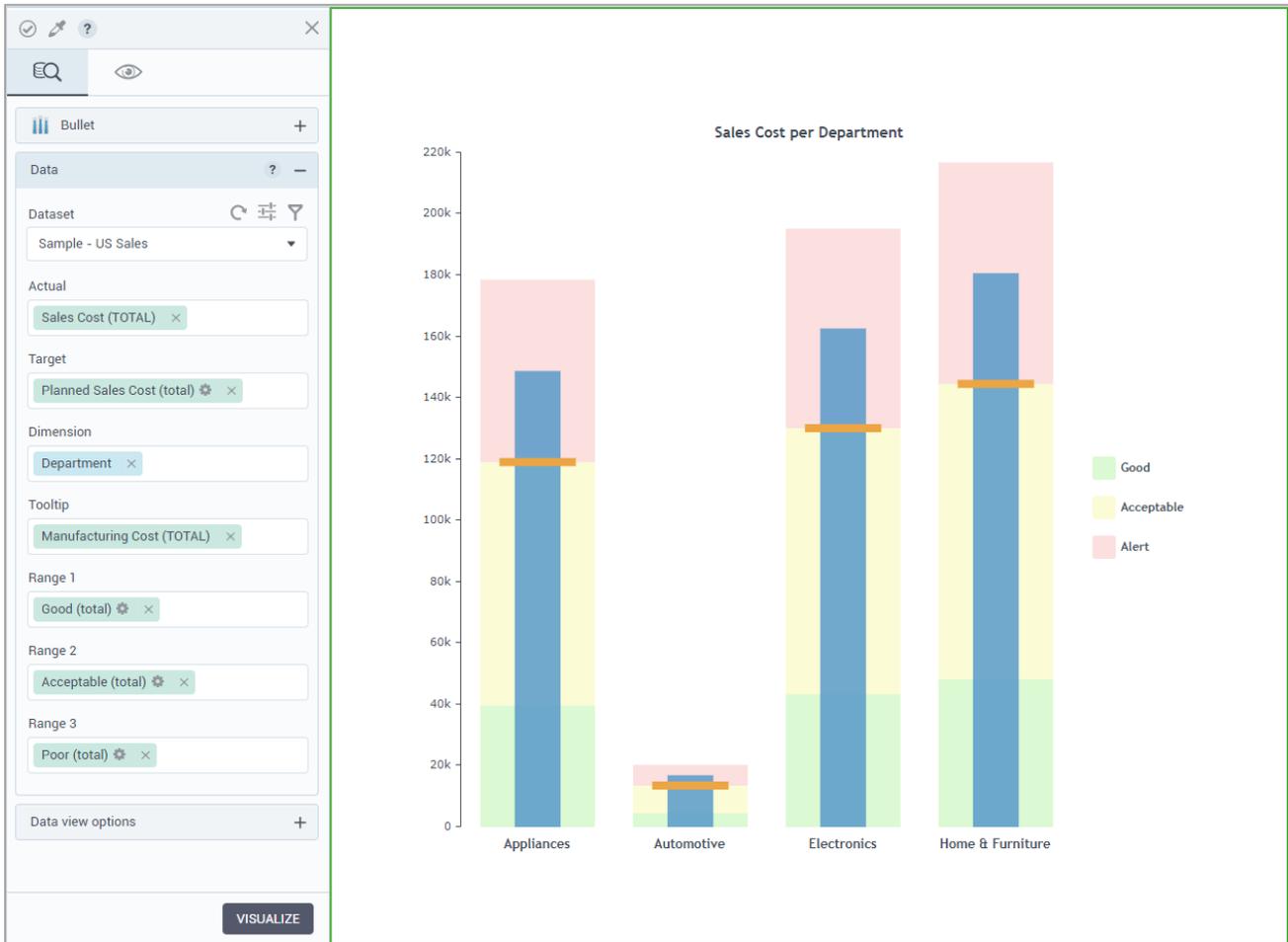
The **appearance** tab of the widget settings allows you to customize labels and colors of the comparative ranges. You can also choose whether to include them on the legend.



Note that the comparative value is usually the point that the measure should reach or exceed, such as a sales target.



However, when you evaluate an expense target, the target functions as a point that the measure should stay below.



In the widgets gallery, you can find a bar bullet chart (oriented horizontally) or a column bullet chart (oriented vertically). You can easily switch the type at any time.

WIDGETS ?

Search visualizations

Column ? -

 Clustered	 Stacked	 Stacked 100%	 Column and Line
 Two value axes	 Butterfly	 Layered	 Waterfall
 Pareto	 Box Plot	 Bullet	

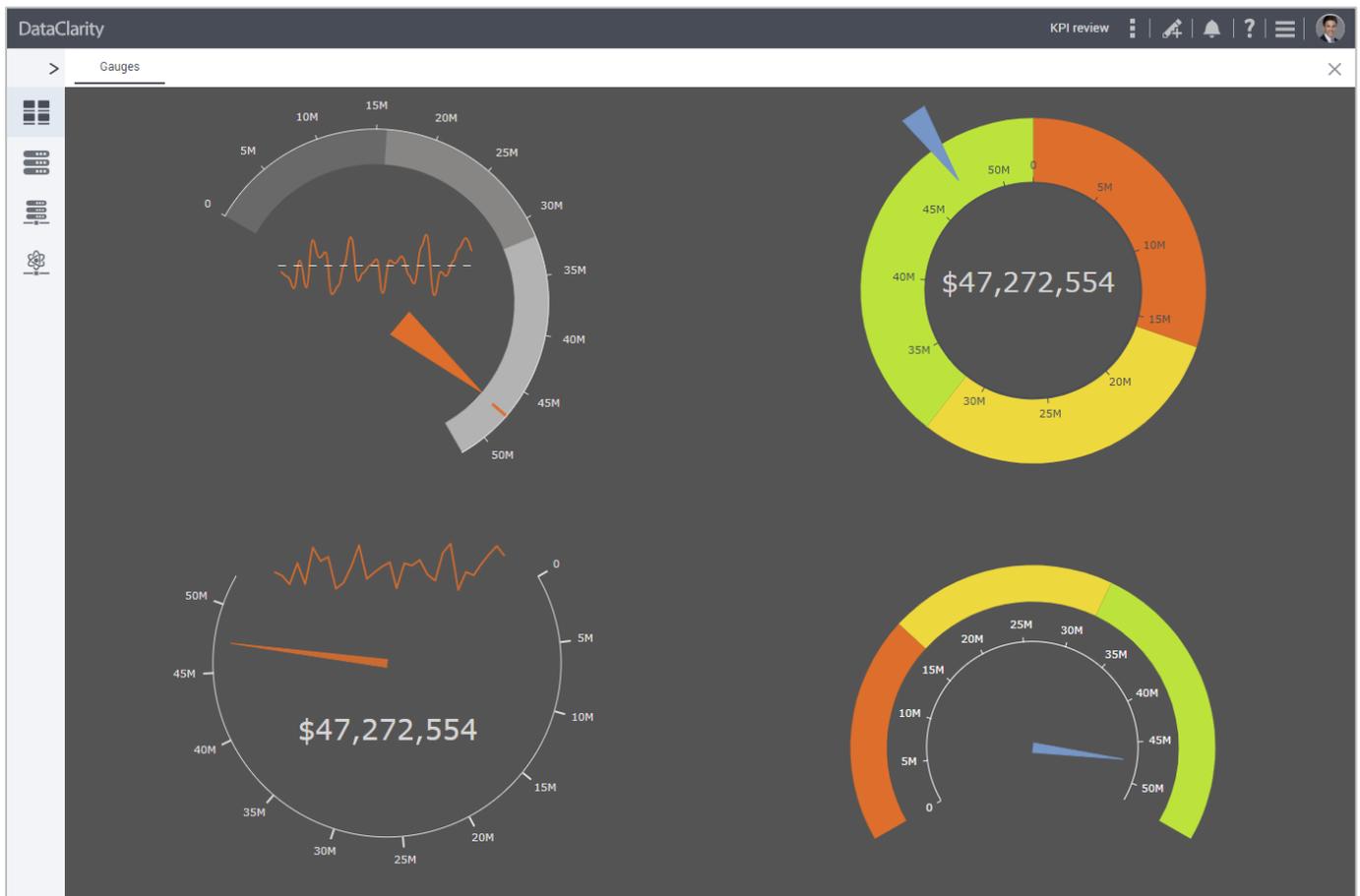
Bar ? -

 Clustered	 Stacked	 Stacked 100%	 Bar and Line
 Two value axes	 Butterfly	 Layered	 Waterfall
 Pareto	 Box Plot	 Bullet	

### Gauge chart visualization widget

Another useful and informative visualization of this release is a meter gauge. A gauge is a simple visualization that has a lot of advantages for the storyboards that are visualizing KPIs (Key Performance Indicators) like revenue, expenses, new customers, expenses, and others. The chart is visual and easy to read.

The **Meter gauge** visualization uses needles to show information as a reading on a dial. The needles for actual and target values can be read against the axis and additionally against three qualitative data ranges.



### Colored ranges bar

The ranges can be calculated to indicate the areas corresponding to poor, average, and good performance, for example. To fit various business cases, the widget settings allow you to customize labels and colors of the comparative ranges.

Color ranges

Range 1 label  
Poor

Range 1 color  

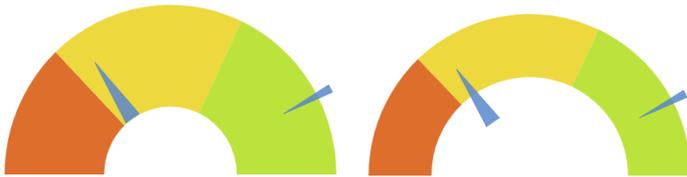

Range 2 label  
Satisfactory

Range 2 color  


Range 3 label  
Good

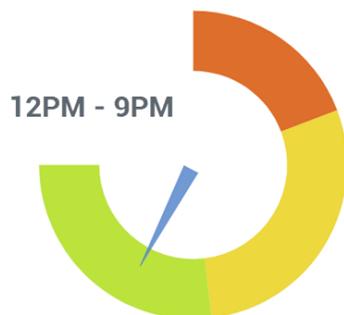
Range 3 color  


The colored ranges bar can be customized to start and end at a certain distance relative to the center.



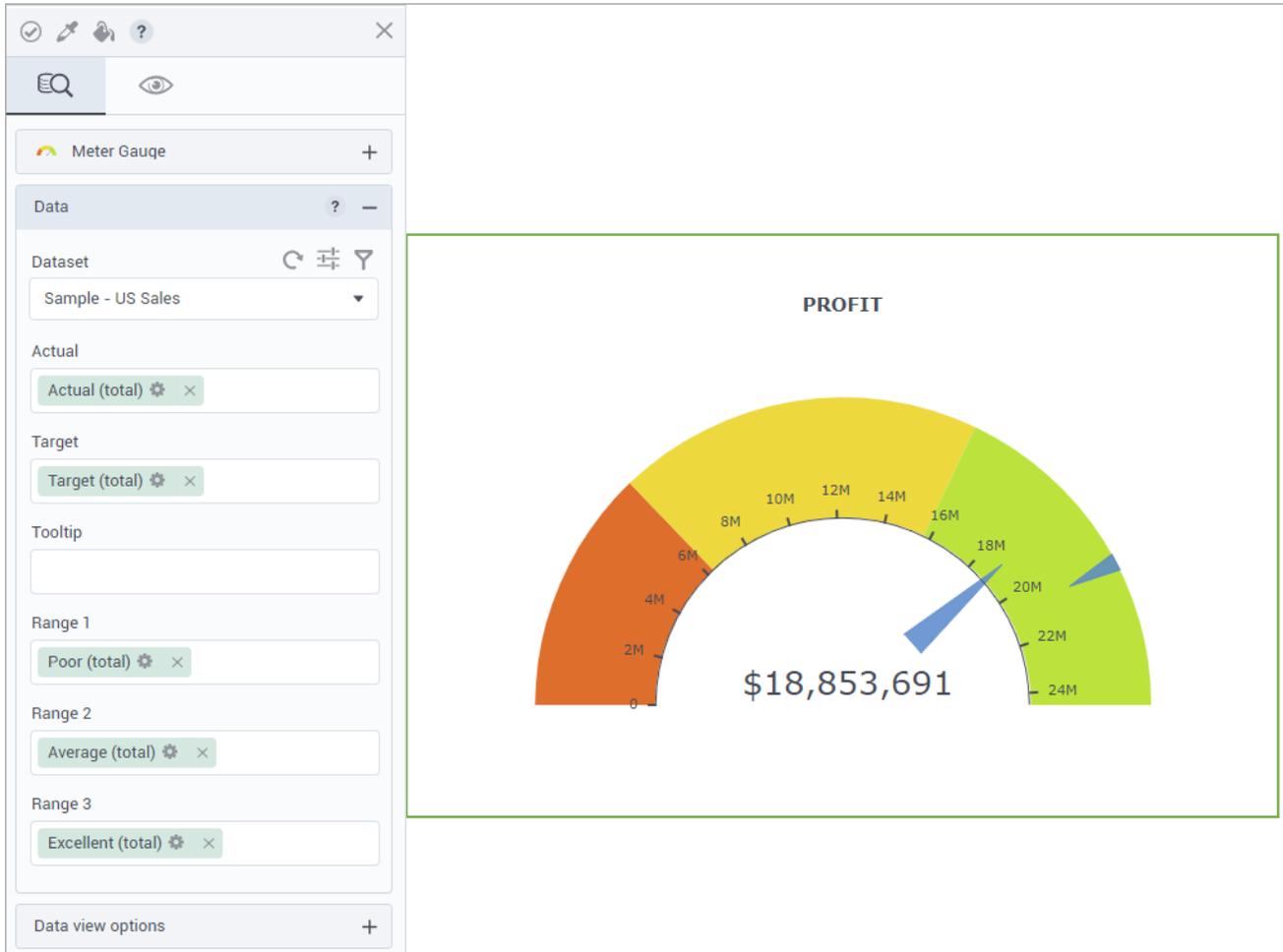
### Gauge shapes

You can start and end the gauge dial at any position by using the clock analogy—an intuitive way to build the needed shape of your gauge. With the options from 12 am to 12 pm, you can easily build the axis clockwise or counterclockwise. For example, to build a standard half-circle dial, use 9 am for the start position and 3 pm ending position.



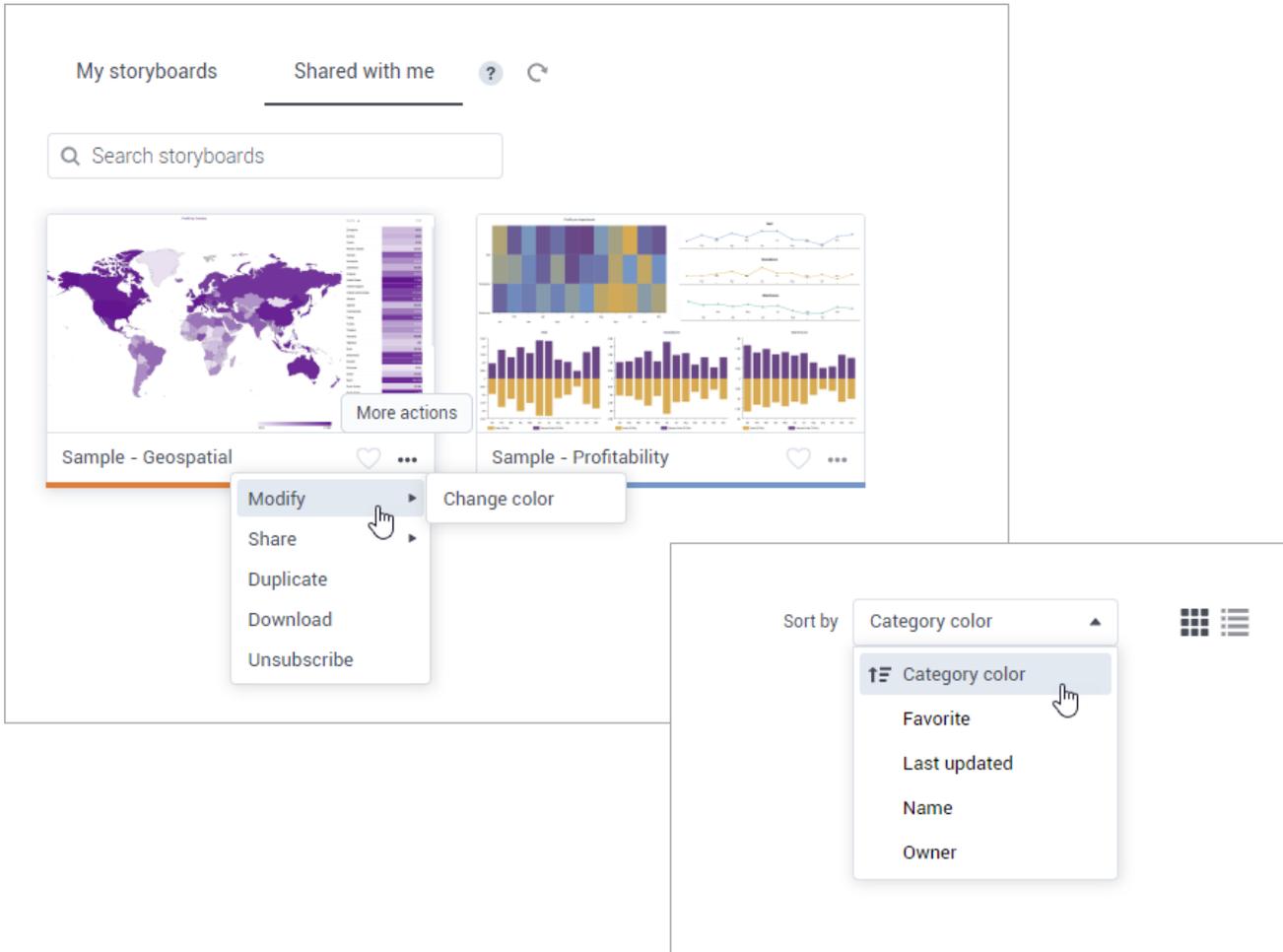
### Needles pointing to the actual and target values

Needles showing the value of interest and the one indicating the target are easily customizable. You can specify where the needles start and end (as the distance from the center), and which is the width of the starting and ending needle points. Setting the same width for the start and end needle points will turn them into lines instead of arrows.



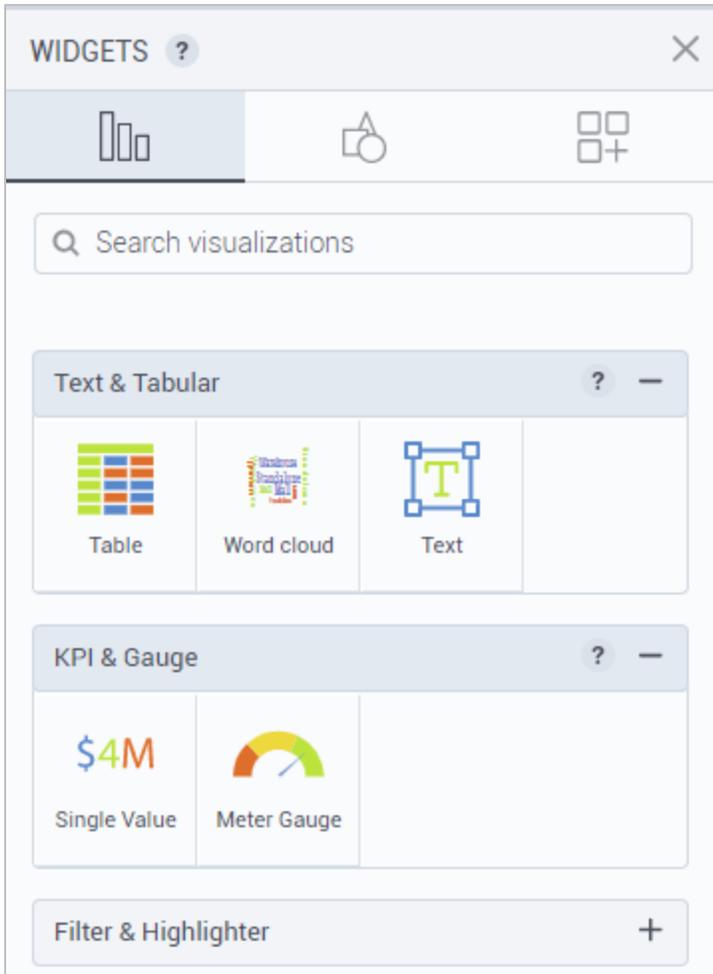
## Sort storyboards by category color and favorite tag

Prior to this release, storyboard owners could categorize their storyboards by color and mark them as favorites. In this release, storyboard recipients can also sort storyboards by **Category color** or **Favorite** options.



*Various UI/UX enhancements***Widget sections rearrangement**

To improve widget findability, the **Text** widget has been moved from **Other widgets** tab to the **Text & Tabular** section. The **KPI & Gauge** section has been added to place the new **Meter gauge** visualization. The filter and highlighter widgets are now in their dedicated section as well.



## Default aggregation for Time columns

The default aggregation for the “Time” columns is now set to “Second” instead of “Hour”.

