

# The Ultimate Deep Dive into SAP Analytics Cloud

## ANA 161

Exercises / Solutions

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## Connect to SAP Analytics Cloud

Welcome to the **ANA161** Hands-On Session. Please listen carefully to the instructions provided by your session presenters.

Open SAP Analytics Cloud by:

1. Opening **Google Chrome**
2. Under **Bookmarks** select **SAP TechED/Session/ANA161**
3. Select the **Bookmarked Page** called **SAP Analytics Cloud**

Credentials to SAP Analytics Cloud will be provided by your session presenters. Please **do not** distribute these login credentials as access to the tenant is available only to **TechED ANA161** participants.

For questions or improvements regarding SAP Analytics Cloud, please contact the session presenters.

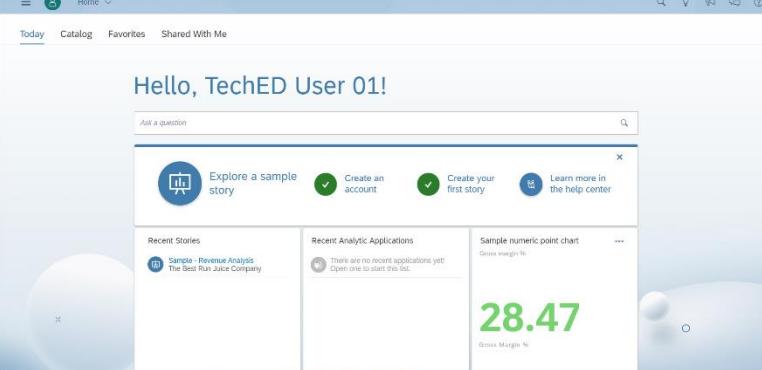
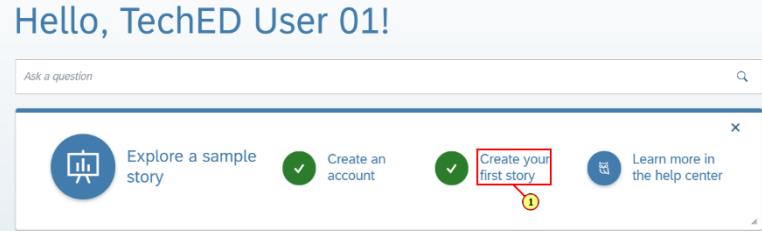
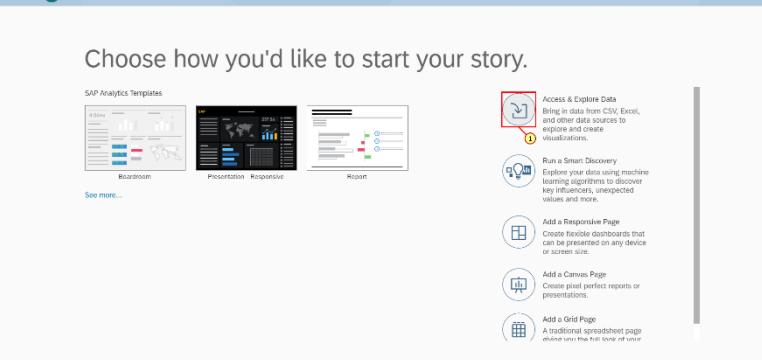
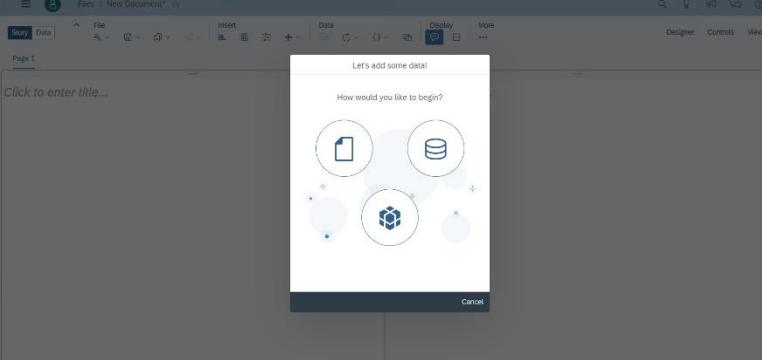
## Creating Your First Story

**Objective:** Develop a basic understanding on how to create visualizations within SAP Analytics Cloud.

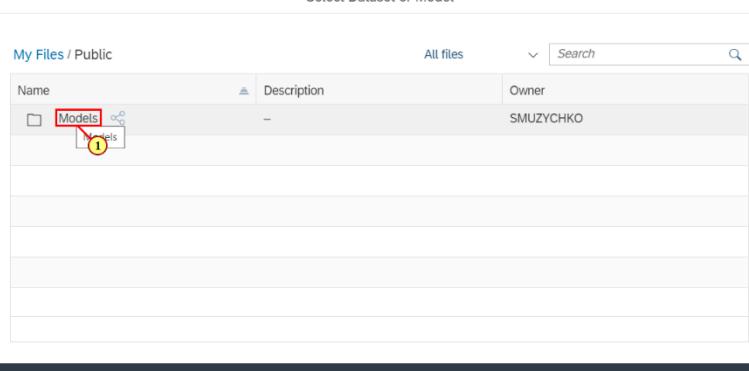
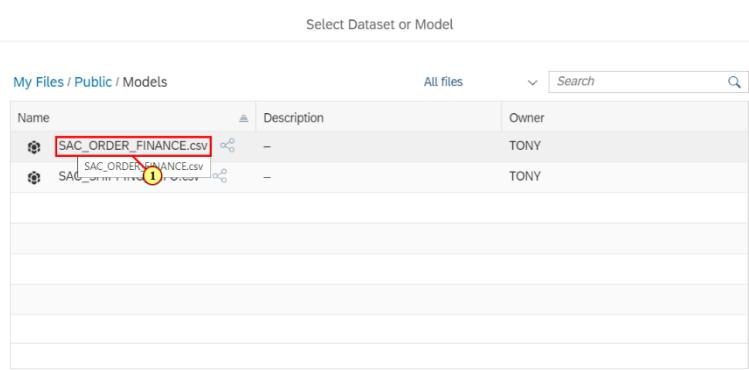
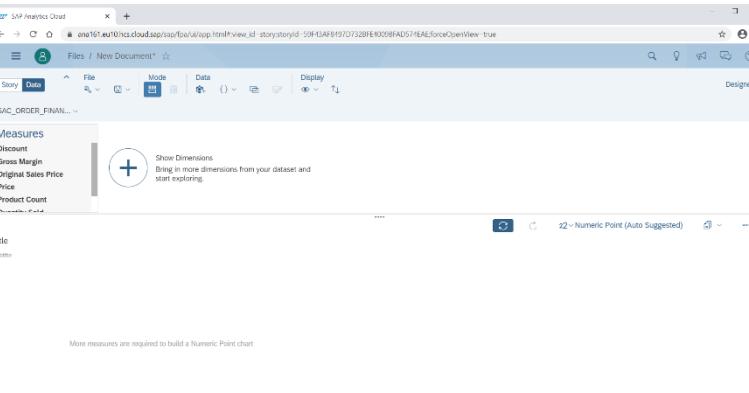
**Exercise Description:** You want to get an understanding about what data is available to you and based on your finance data find your first insights about company's [performance over time].

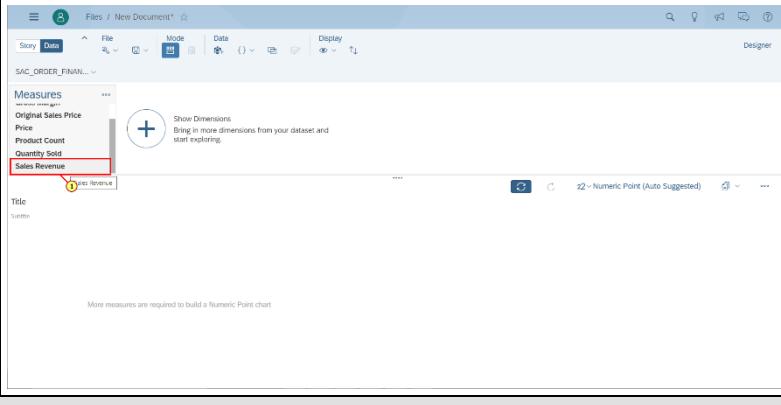
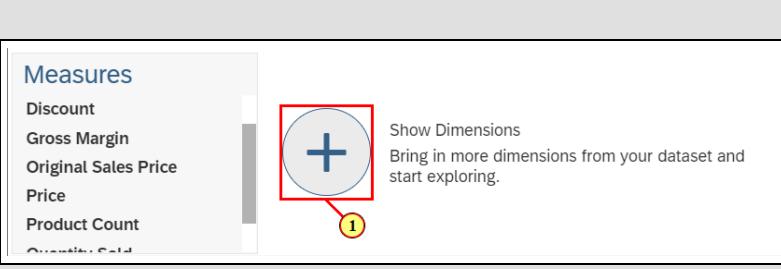
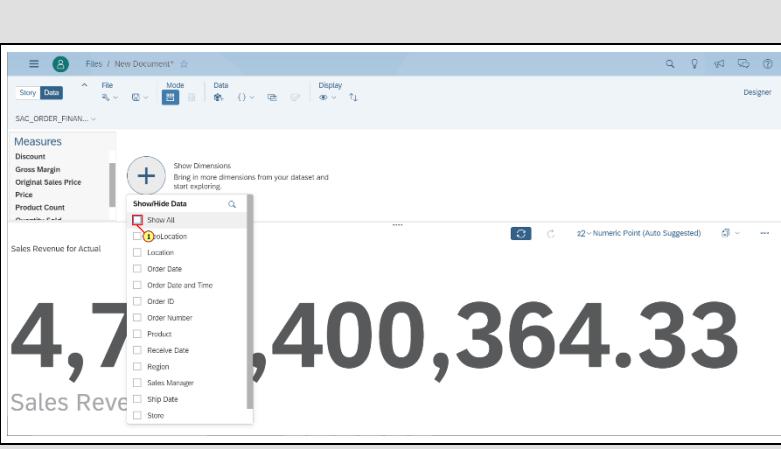
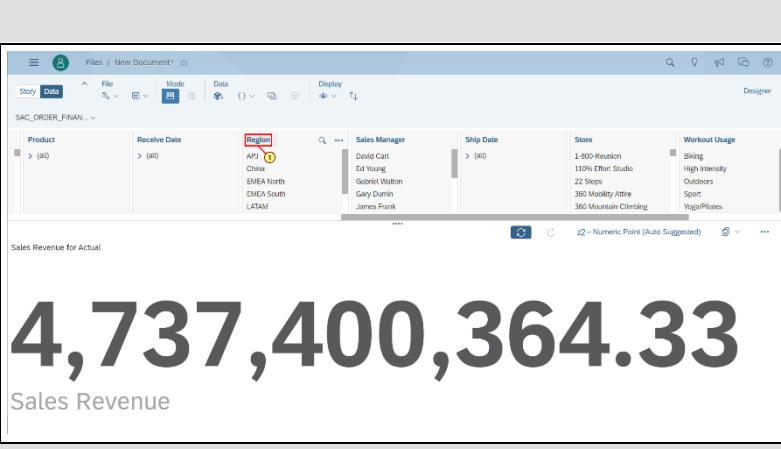
### Key Features:

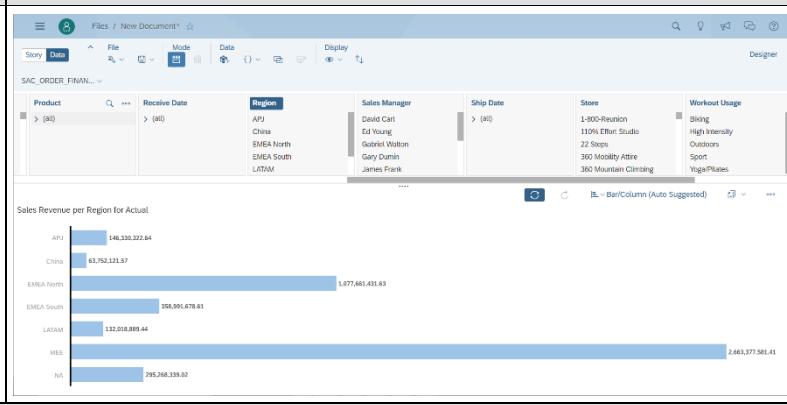
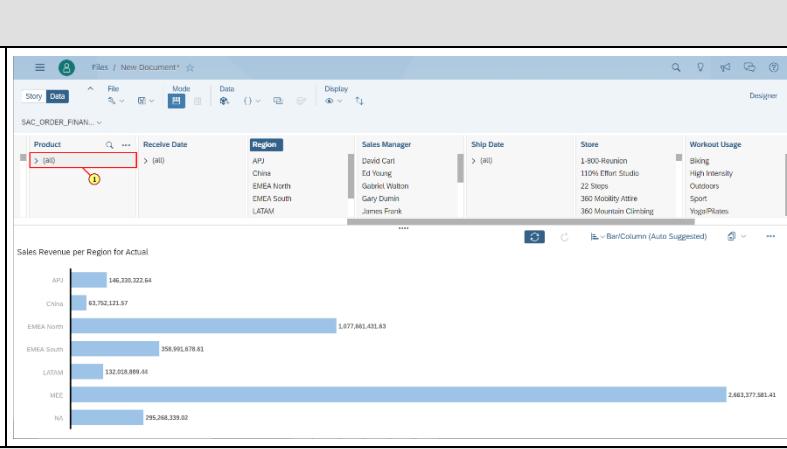
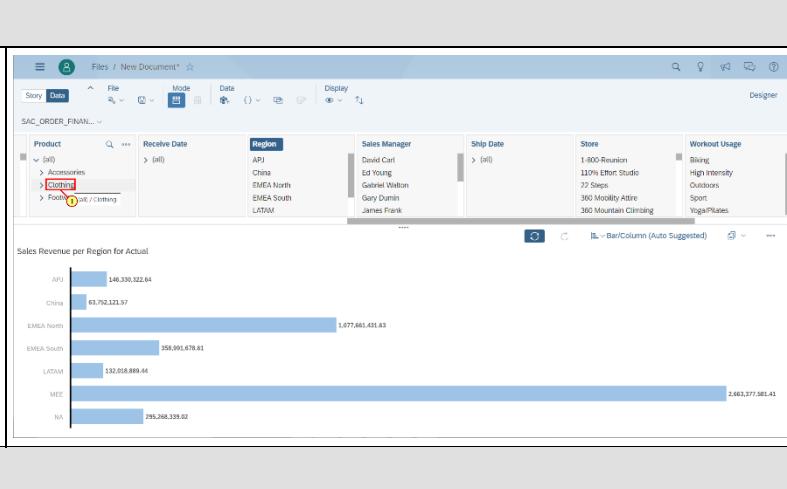
- Interact with Explorer to Create Dynamic Visualizations
- Copy and Paste Widgets from Explorer to Existing Pages
- Understand the Basics between the Builder Panel
- Create a variety of different charts from different models

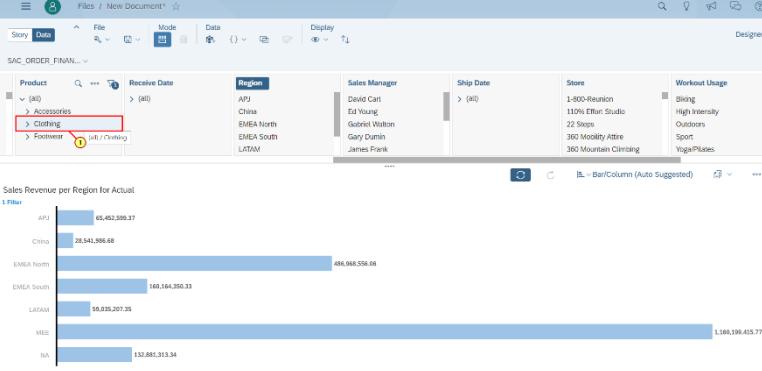
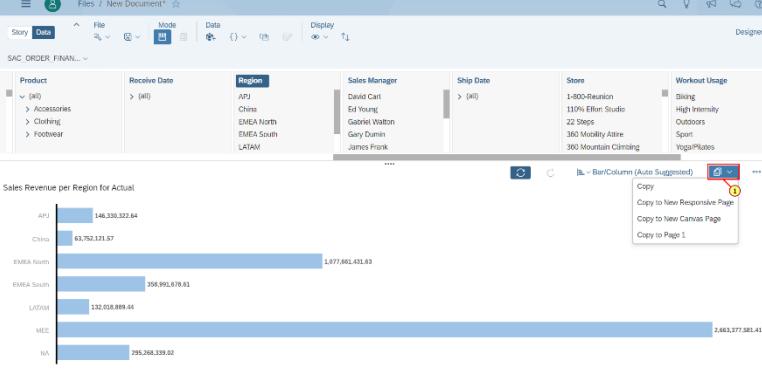
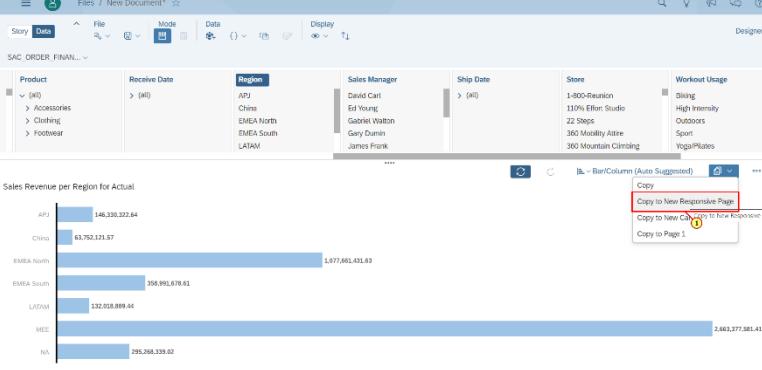
Explanation	Screenshot
<b>SAP Analytics Cloud - Google Chrome</b>	
<p> Welcome to SAP Analytics Cloud!</p> <p>On the Home Page, we provide end users the ability to Explore a Sample Story, Create a Story, and Learn More in the Help Center. Users can also choose to view Recent Stories and Boardrooms or use natural language search with Search to Insight.</p>	
<b>SAP Analytics Cloud - Google Chrome</b>	
<p>(1) Click <b>Create Your First Story</b></p>	
<b>SAP Analytics Cloud - Google Chrome</b>	
<p> Welcome to Start Your Story Page.</p> <p>On this page, users can choose to import their own data, run a smart discovery on their data, add a responsive, canvas, or grid page, or start their story using a template.</p> <p>(1) Click <b>Access &amp; Explore Data</b></p>	
<b>SAP Analytics Cloud - Google Chrome</b>	
<p> Users may choose to import data from a file, acquire data from a data source/connection, or use data acquired from an existing model or dataset.</p>	

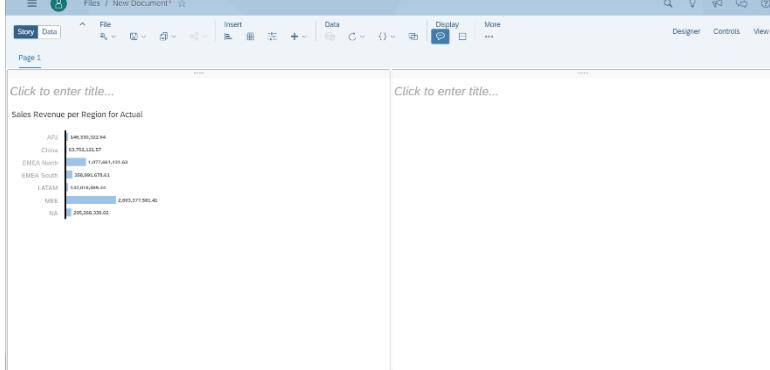
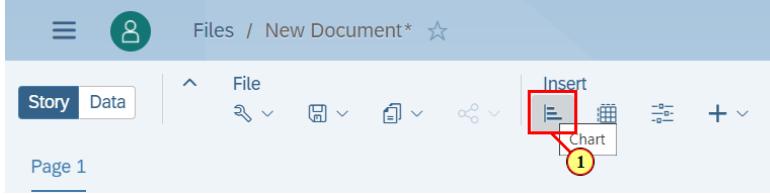
Explanation	Screenshot									
SAP Analytics Cloud - Google Chrome	<p>Let's add some data!</p> <p>How would you like to begin?</p> <p>(1) Click Data acquired from an existing dataset or model</p> <p>Data acquired from an existing dataset or model</p> <p><b>Cancel</b></p>									
SAP Analytics Cloud - Google Chrome	<p>Select Dataset or Model</p> <p>My Files</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>Public</td> <td>Public</td> <td>-</td> </tr> <tr> <td>Samples</td> <td>Samples</td> <td>-</td> </tr> </tbody> </table> <p><b>Cancel</b></p>	Name	Description	Owner	Public	Public	-	Samples	Samples	-
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SAP Analytics Cloud - Google Chrome										

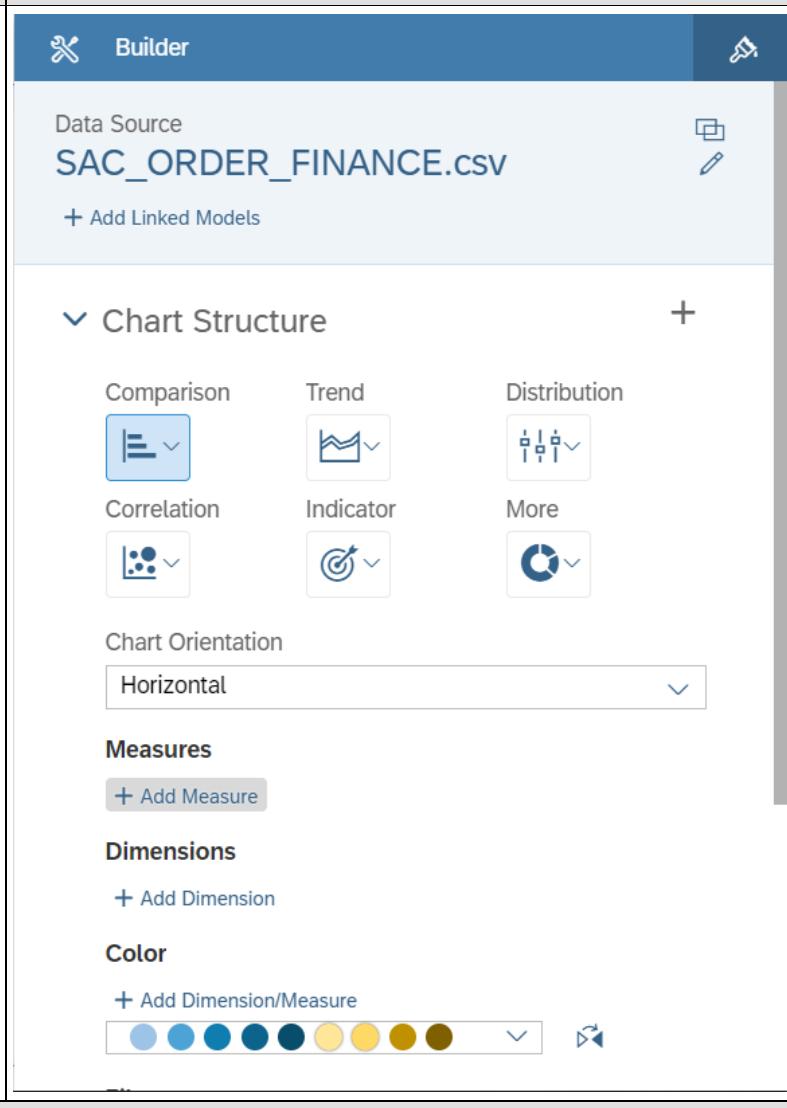
Explanation	Screenshot									
(1) Click <b>Models</b>	 <p>Select Dataset or Model</p> <p>My Files / Public</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>Models</td> <td>-</td> <td>SMUZYCHKO</td> </tr> </tbody> </table> <p>Cancel</p>	Name	Description	Owner	Models	-	SMUZYCHKO			
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(1) Click <b>SAC_ORDER_FINANCE.csv</b>	 <p>Select Dataset or Model</p> <p>My Files / Public / Models</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>SAC_ORDER_FINANCE.csv</td> <td>-</td> <td>TONY</td> </tr> <tr> <td>SAC_ORDER_FINANCE.csv</td> <td>-</td> <td>TONY</td> </tr> </tbody> </table> <p>Cancel</p>	Name	Description	Owner	SAC_ORDER_FINANCE.csv	-	TONY	SAC_ORDER_FINANCE.csv	-	TONY
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Welcome to Explorer!	 <p>Welcome to Explorer!</p> <p>In Explorer, you see a faceted view of your data, which you can manipulate to generate charts for your story pages. When you select measures and dimensions in the upper pane, the visualization in the lower pane updates in real time. You can filter dimensions by selecting individual members, and the visualization changes immediately to show you the filtered result.</p> <p>More measures are required to build a Numeric Point chart</p>									
SAP Analytics Cloud - Google Chrome										

Explanation	Screenshot
<p>👉 Let's start with getting an overview of our Sales Revenue.</p> <p>(1) Scroll down the <b>Measures</b>. Click on <b>Sales Revenue</b>. You have selected your first measure to explore upon!</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Show Dimensions</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Show All</b></p>	
<p>👉 We have populated our Explorer with multiple different dimensions. We can choose to click on any Dimension to create an auto generated chart to explore our data. Let's examine the regional breakdown of Sales Revenue.</p> <p>(1) Click <b>Region</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

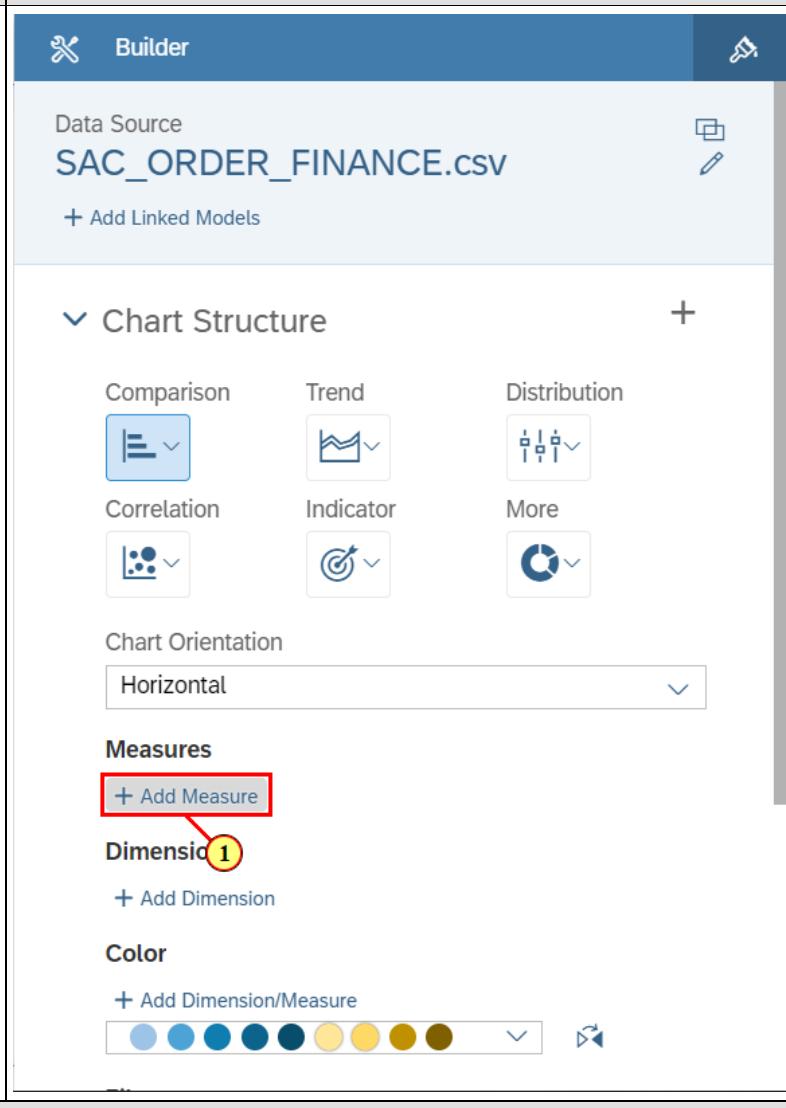
Explanation	Screenshot
<p> Explorer will automatically suggest a chart type for the dimensions and measures selected and display a visualization. Here we can see Sales Revenue per Region from our data.</p>	 <p>The screenshot shows a data table with columns: Product, Receive Date, Region, Sales Manager, Ship Date, Store, and Workout Usage. Below the table is a bar chart titled "Sales Revenue per Region for Actual". The chart has categories: APJ, China, EMEA North, EMEA South, LATAM, MEE, and NA. The values are: APJ (146,330,322.64), China (63,752,121.57), EMEA North (1,077,461,411.63), EMEA South (358,991,678.81), LATAM (132,058,889.44), MEE (2,683,277,581.41), and NA (295,268,339.02).</p>
<p> We can further filter down our data by clicking other dimensions like Product.</p> <p>(1) Click All under Product Dimension.</p>	 <p>The screenshot shows the same interface as above, but the "Product" dimension in the filter pane is expanded, showing "All", "Accessories", "Clothing", and "Footwear".</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click Clothing</p>	 <p>The screenshot shows the "Clothing" category selected under the "Product" dimension. The bar chart now only includes the "Clothing" category, showing a value of 2,683,277,581.41.</p>

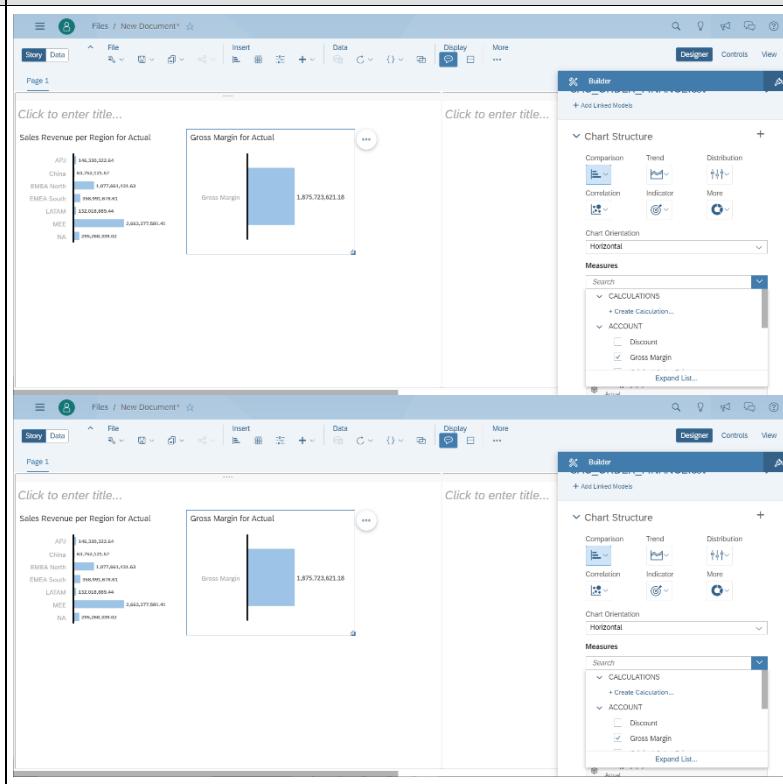
Explanation	Screenshot																
 <p>Our Sales Revenue has now decreased in the chart indicating that the data is filtered for Clothing. Let's go back to our original chart.</p> <p>(1) Click <b>Clothing</b></p>	 <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Sales Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>65,452,599.37</td></tr> <tr><td>China</td><td>28,541,986.48</td></tr> <tr><td>EMEA North</td><td>486,968,556.04</td></tr> <tr><td>EMEA South</td><td>140,164,350.33</td></tr> <tr><td>LATAM</td><td>59,039,207.35</td></tr> <tr><td>MEE</td><td>132,881,313.34</td></tr> <tr><td>NA</td><td>1,180,199,415.77</td></tr> </tbody> </table>	Region	Sales Revenue	APJ	65,452,599.37	China	28,541,986.48	EMEA North	486,968,556.04	EMEA South	140,164,350.33	LATAM	59,039,207.35	MEE	132,881,313.34	NA	1,180,199,415.77
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 <p>Our current chart looks like a good starting point for our dashboard. We can export our chart from Explorer now to our story. Choose responsive page to start a story that can be viewed on a mobile device.</p> <p>(1) Click <b>Copy Icon</b></p>	 <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Sales Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>146,330,322.64</td></tr> <tr><td>China</td><td>63,752,121.57</td></tr> <tr><td>EMEA North</td><td>1,077,601,411.63</td></tr> <tr><td>EMEA South</td><td>358,991,670.81</td></tr> <tr><td>LATAM</td><td>132,058,889.44</td></tr> <tr><td>MEE</td><td>2,483,277,581.41</td></tr> <tr><td>NA</td><td>295,268,339.02</td></tr> </tbody> </table>	Region	Sales Revenue	APJ	146,330,322.64	China	63,752,121.57	EMEA North	1,077,601,411.63	EMEA South	358,991,670.81	LATAM	132,058,889.44	MEE	2,483,277,581.41	NA	295,268,339.02
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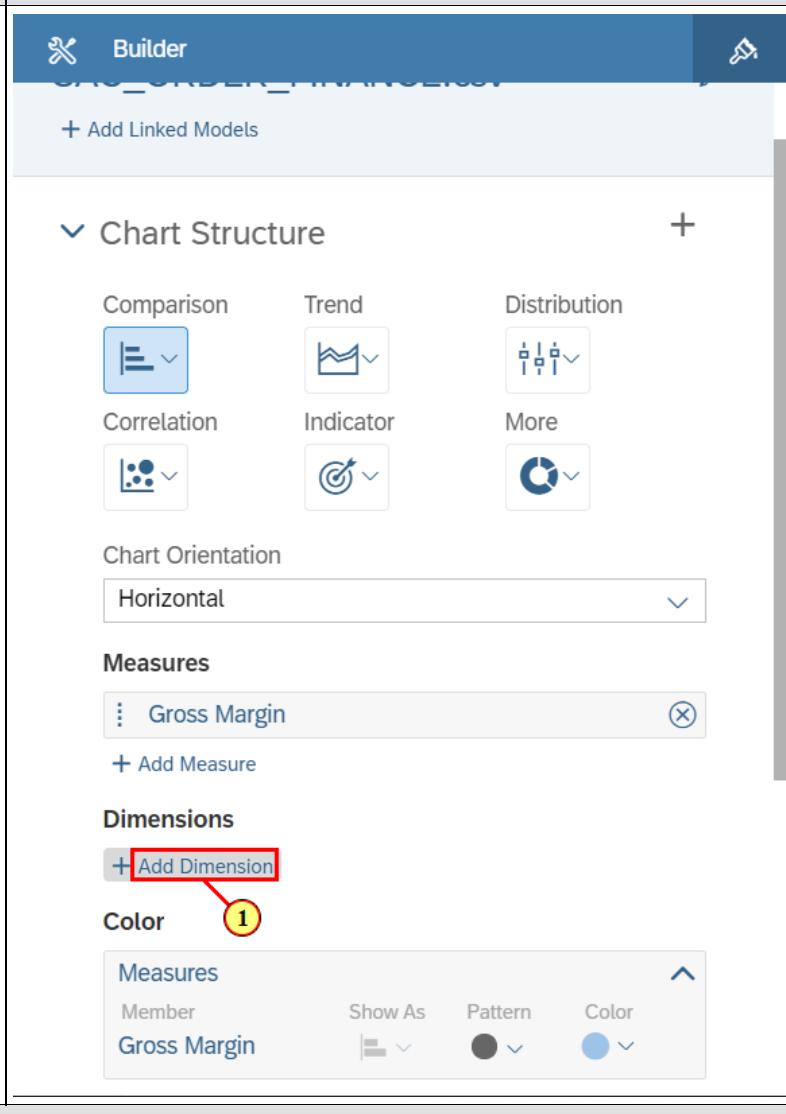
Explanation	Screenshot																
 Quality Check! Does our story page look like the screenshot?	 <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>APAC</td> <td>\$4,350,332.84</td> </tr> <tr> <td>China</td> <td>\$1,762,215.87</td> </tr> <tr> <td>EMEA North</td> <td>1,971,441,619.60</td> </tr> <tr> <td>EMEA South</td> <td>201,890,478.61</td> </tr> <tr> <td>LATAM</td> <td>541,944,684.64</td> </tr> <tr> <td>MEE</td> <td>2,893,377,981.46</td> </tr> <tr> <td>NA</td> <td>201,908,339.62</td> </tr> </tbody> </table>	Region	Revenue	APAC	\$4,350,332.84	China	\$1,762,215.87	EMEA North	1,971,441,619.60	EMEA South	201,890,478.61	LATAM	541,944,684.64	MEE	2,893,377,981.46	NA	201,908,339.62
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<b>SAP Analytics Cloud - Google Chrome</b>   Let's start adding in some additional charts. First, we are interested in the gross margin breakdown across our different products.  (1) Click <b>Insert Chart</b>	 <p>Files / New Document*</p> <p>Story Data</p> <p>File</p> <p>Insert</p> <p>Chart</p>																
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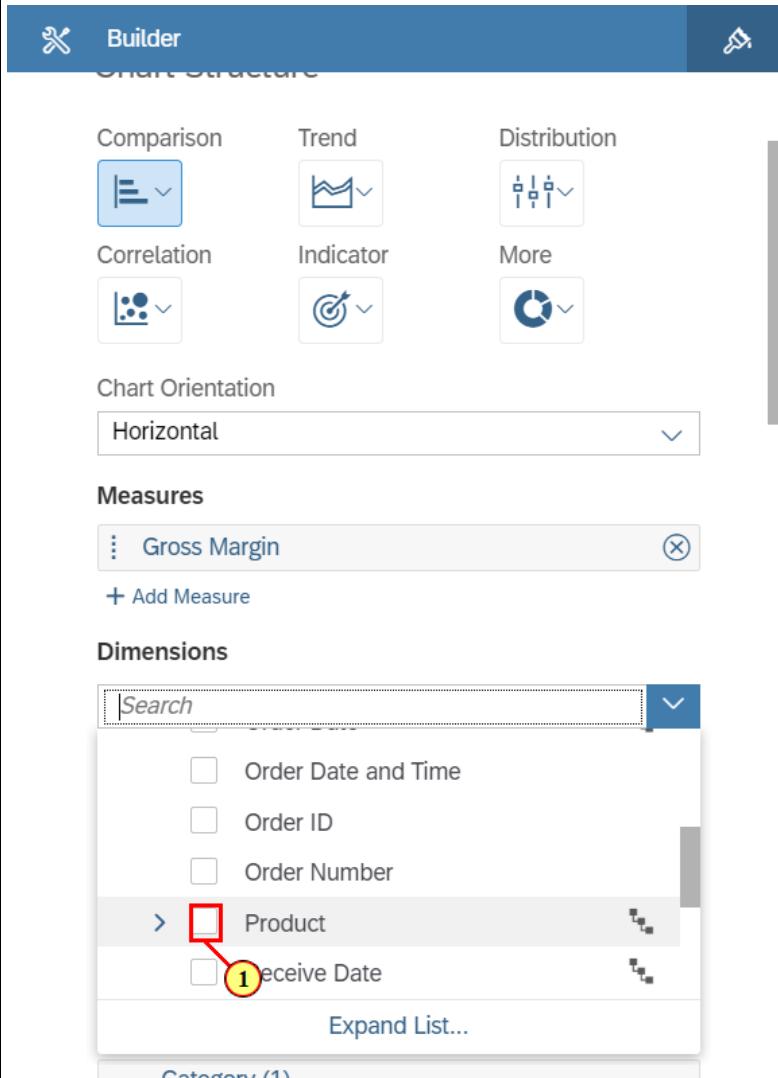
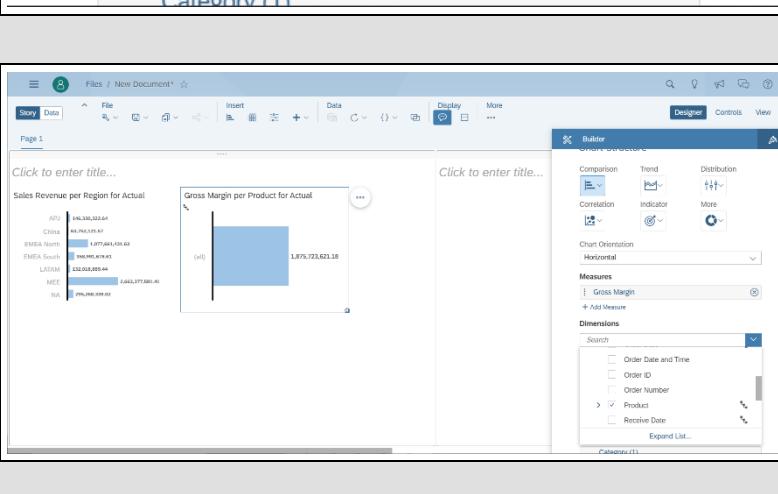
Explanation	Screenshot
<p> Welcome to the Builder Panel!</p> <p>The Builder Panel is a place where you can create your visualizations. The chart area on your responsive page will remain empty until a measure and dimension are selected from the Builder Panel. It will dynamically update depending on the visualization that you are trying to create.</p> <p>We have just added an empty chart to our story and now we want to start adding measures and dimensions to build our chart into a visualization for business insights!</p>	 <p>The screenshot shows the SAP Analytics Cloud Builder panel. At the top, it displays the Data Source as "SAC_ORDER_FINANCE.csv". Below the data source, there are several sections for creating visualizations:</p> <ul style="list-style-type: none"> <li><b>Chart Structure:</b> A section with a dropdown menu labeled "Chart Structure" containing icons for "Comparison", "Trend", "Distribution", "Correlation", "Indicator", and "More".</li> <li><b>Chart Orientation:</b> A dropdown menu set to "Horizontal".</li> <li><b>Measures:</b> A section with a button "+ Add Measure".</li> <li><b>Dimensions:</b> A section with a button "+ Add Dimension".</li> <li><b>Color:</b> A section with a button "+ Add Dimension/Measure" and a color palette showing a sequence of colored circles (blue, teal, dark blue, yellow, orange, brown).</li> </ul>

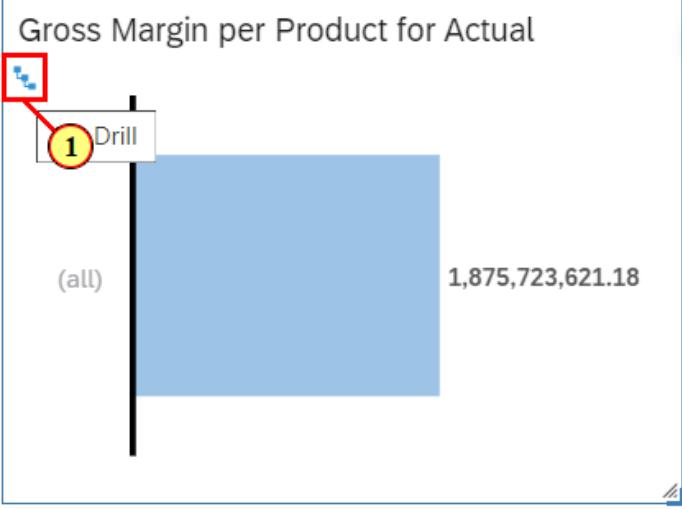
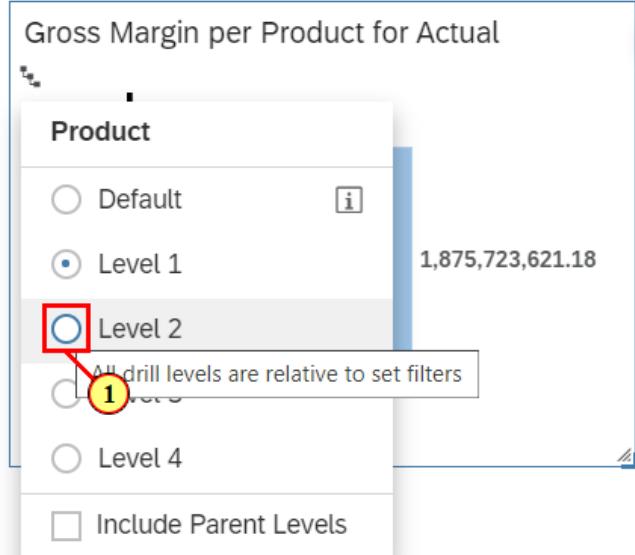
SAP Analytics Cloud - Google Chrome

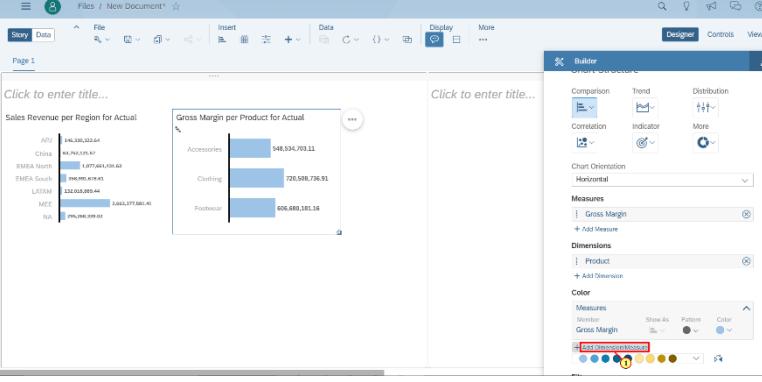
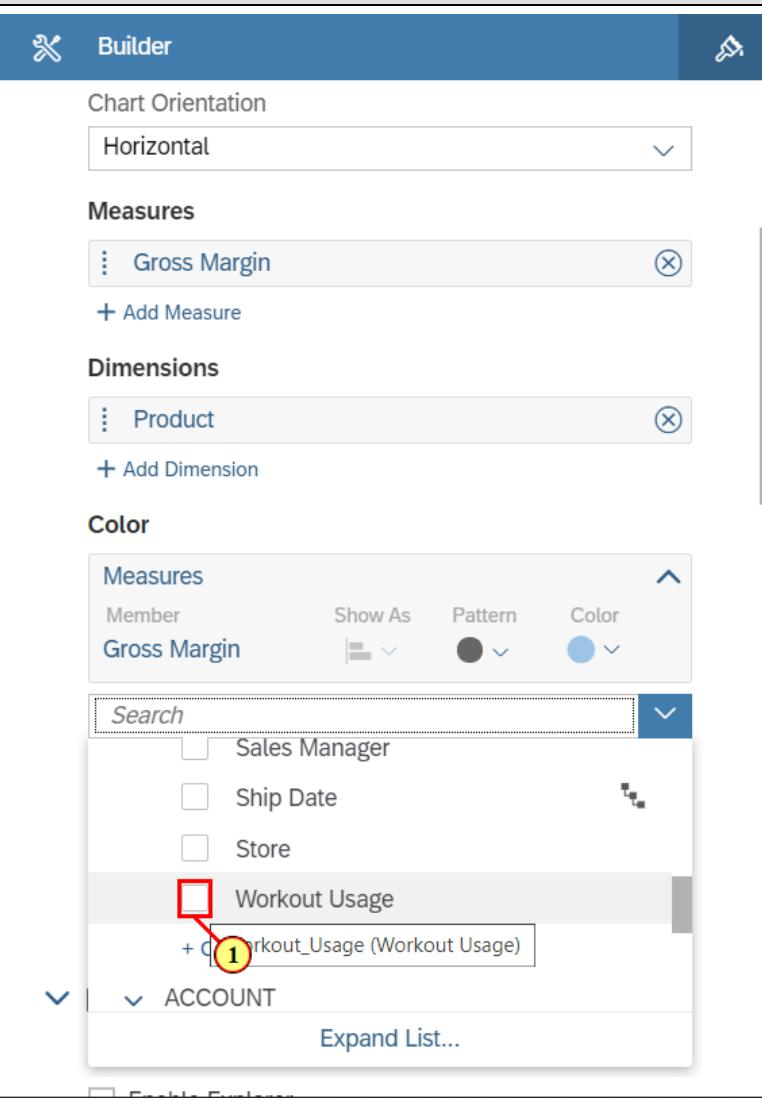
Explanation	Screenshot
(1) Click <b>Add Measure</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below the header, there's a section titled "Chart Structure" with several options: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under "Measures", there is a button "+ Add Measure" highlighted with a red box and a red arrow pointing to it. Below that, there is a dimension labeled "Dimension 1" with a red circle around the number "1". Under "Color", there is a section for "Add Dimension/Measure" with a color palette and a "Done" button.</p>

Explanation	Screenshot
<p>(1) Click <b>Gross Margin</b></p>	 <p>SAP Analytics Cloud - Google Chrome</p>

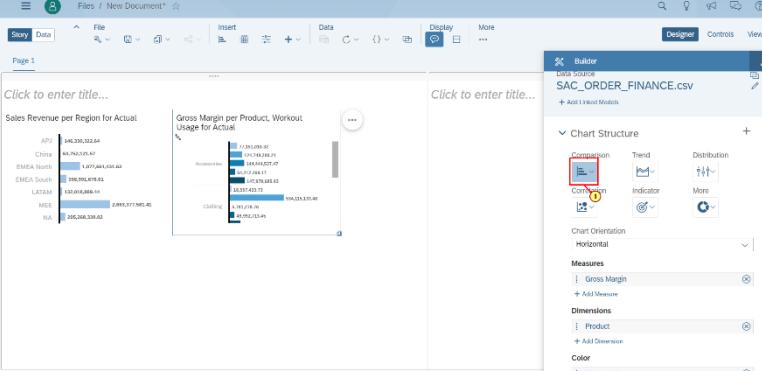
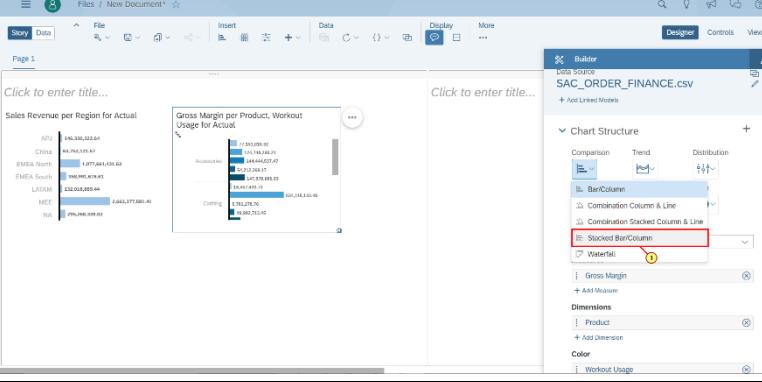
Explanation	Screenshot
(1) Click <b>Add Dimension</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a button labeled '+ Add Dimension' which is highlighted with a red box. Below this, there is a 'Color' section with a yellow circle containing the number '1' pointing to it. The 'Measures' section contains one item: 'Gross Margin'. The 'Dimensions' section is currently empty.</p>

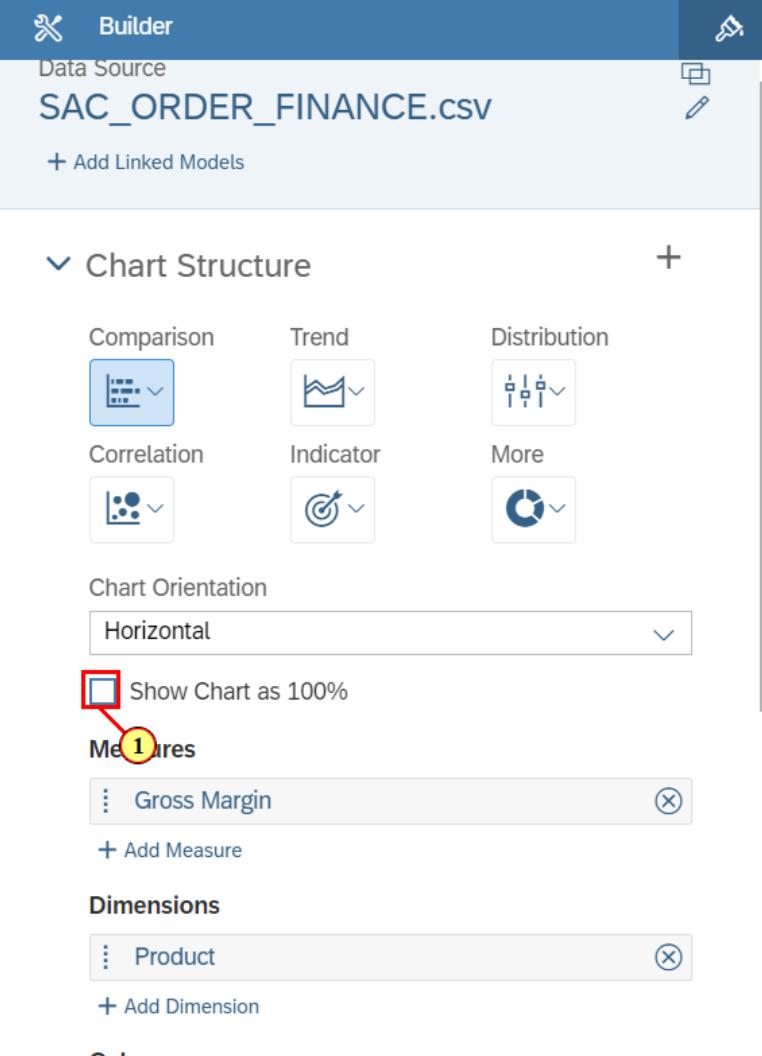
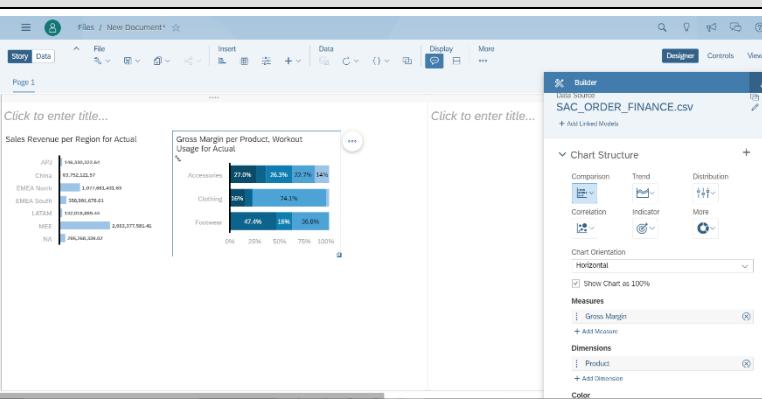
Explanation	Screenshot
<p>(1) Scroll down and click <b>Product</b></p>  <p>The icon beside the Product Dimension indicates to us that the dimension is a hierarchical dimension. We could choose to examine the hierarchy and its levels by clicking the expand option beside Product.</p>	
 <p>We have now created our first bar chart using the Builder Panel. However, our data can be further transformed to extract more valuable business insights. Let's change the hierarchy level so we can see gross margin for different Product categories.</p>	

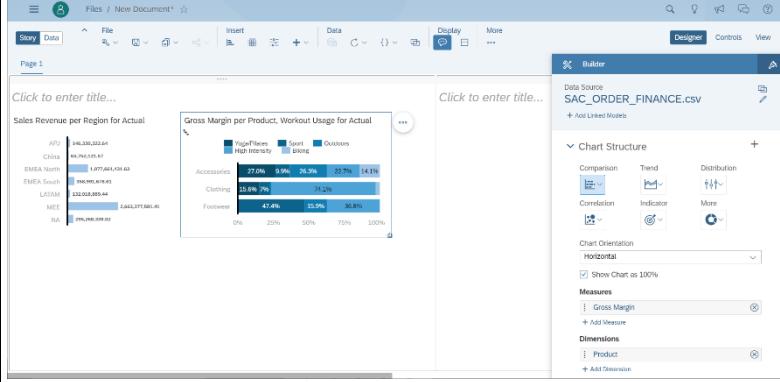
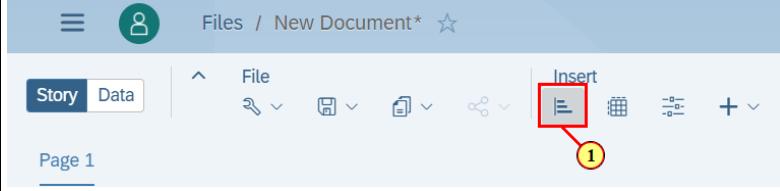
Explanation	Screenshot
<p>We can drill down on the Product dimension to get more information from our bar chart.</p> <p>(1) Click <b>Set Drill</b></p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click <b>Level 2</b></p>	
SAP Analytics Cloud - Google Chrome	

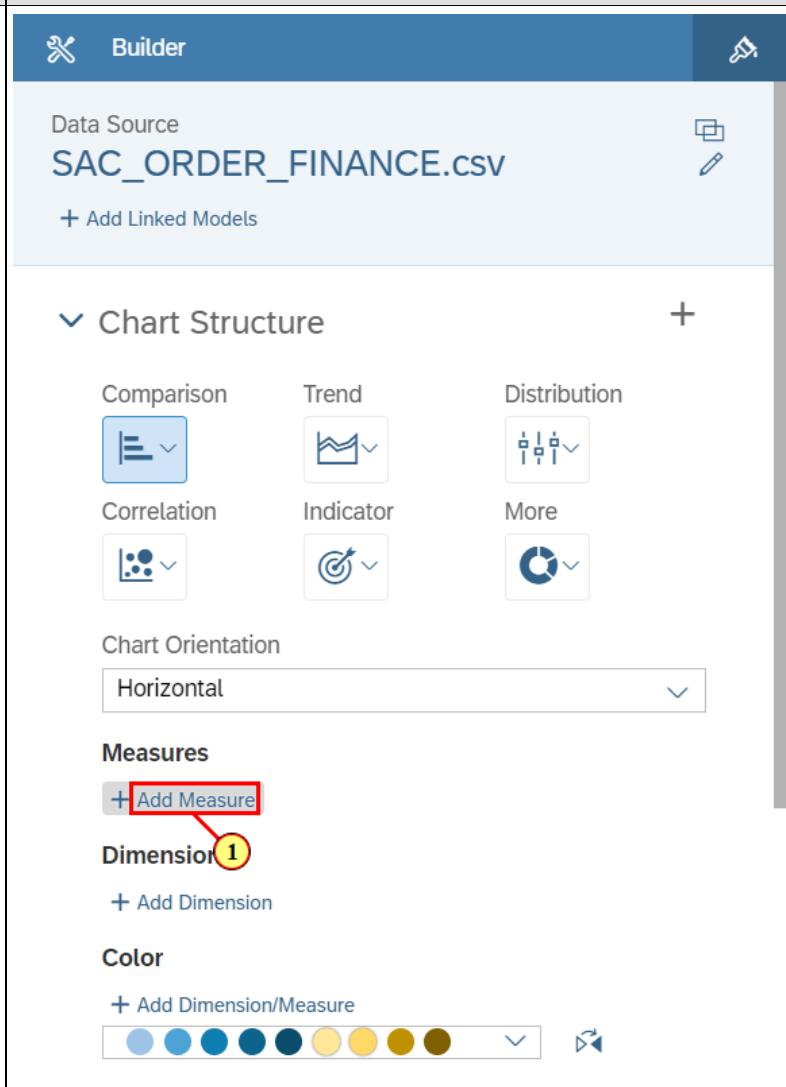
Explanation	Screenshot
<p></p> <p>We can now see gross margin by each product category (Accessories, Clothing, Footwear), but we want to explore our data further and generate insights from the additional Workout Usage dimension in our model.</p> <p>(1) Click <b>Add Dimension/Measure</b> under Color in the Builder Panel.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Scroll down and click <b>Workout Usage</b></p>	

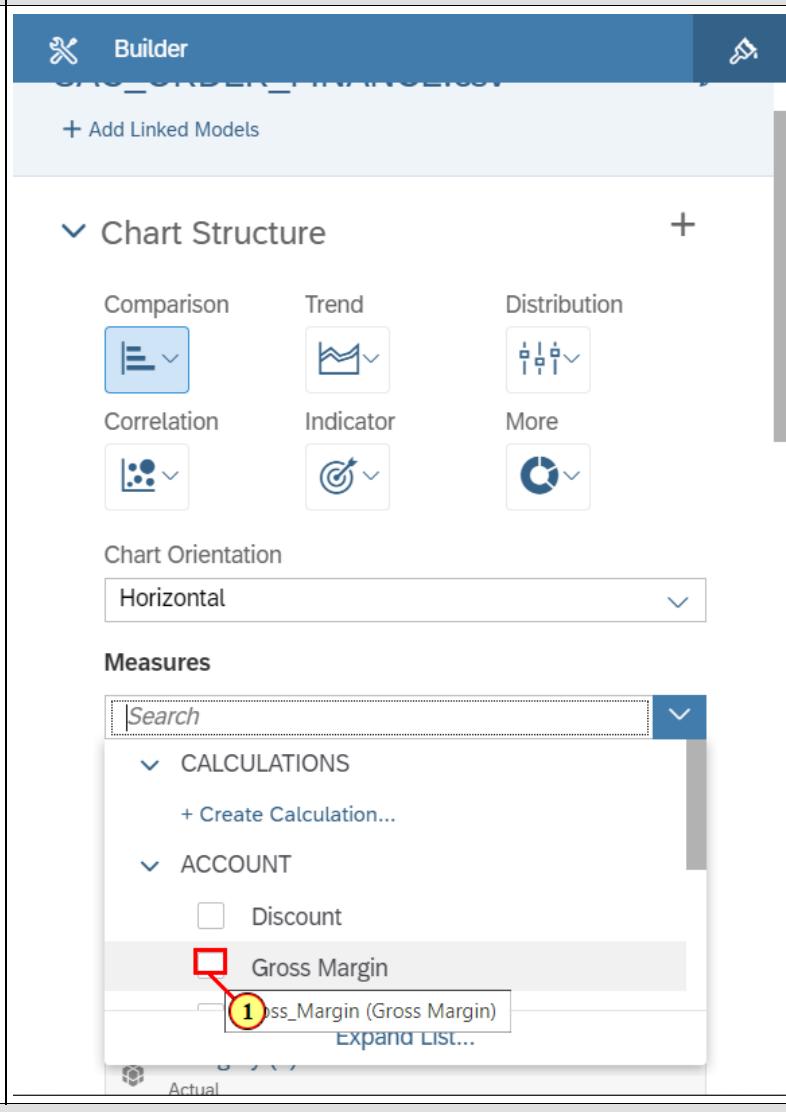
SAP Analytics Cloud - Google Chrome

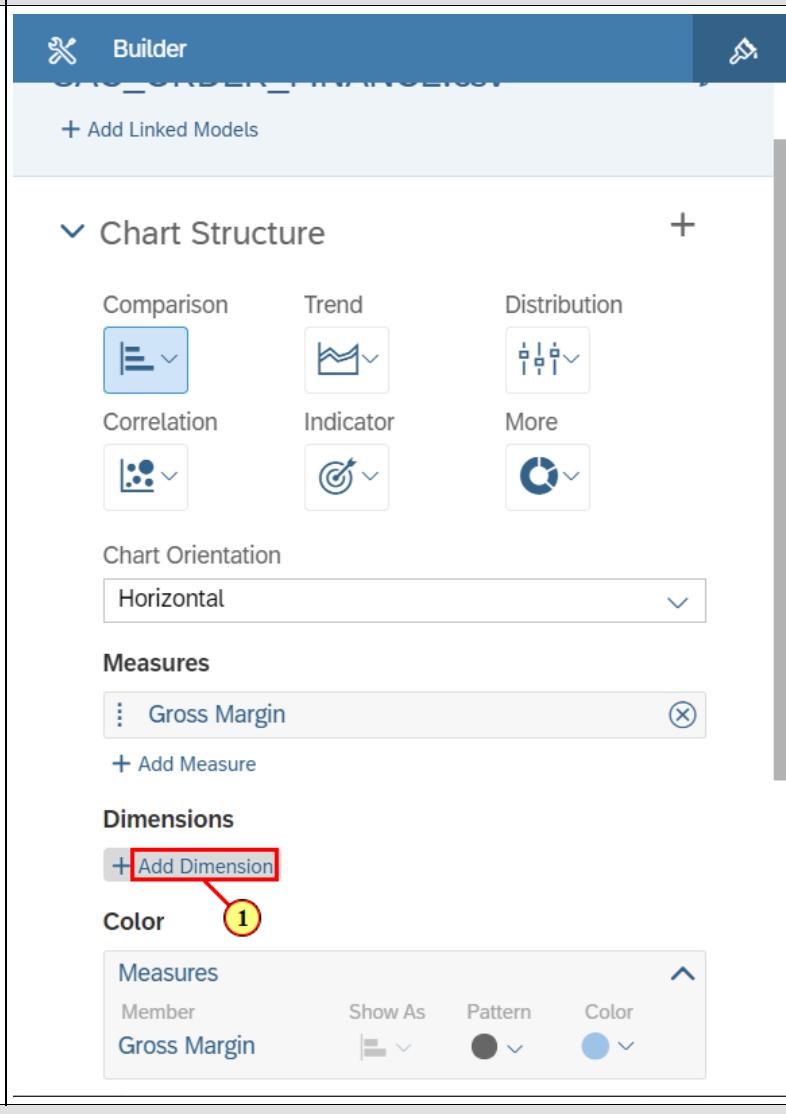
Explanation	Screenshot
<p>👉 Our bar chart is now divided in each product category by its Workout Usage. Using Color in charts is an effective way of mapping additional dimensions into a visualization. We can change our Chart Type to better visualize the dimensions we have selected.</p> <p>(1) Click Bar/Column Tile</p>	 <p>The screenshot shows a SAP Analytics Cloud interface with a bar chart titled "Gross Margin per Product, Workout Usage for Actual". The chart displays sales revenue by region: APJ, China, EMEA North, EMEA South, LATAM, MEE, and NA. The bars are color-coded by product category. The chart type is currently set to "Bar".</p>
<p>(1) Click Stacked Bar/Column</p>	 <p>The screenshot shows the same SAP Analytics Cloud interface as the previous one, but the chart type has been changed to "Stacked Bar/Column". The bars are now stacked vertically for each region, showing the breakdown by product category.</p>

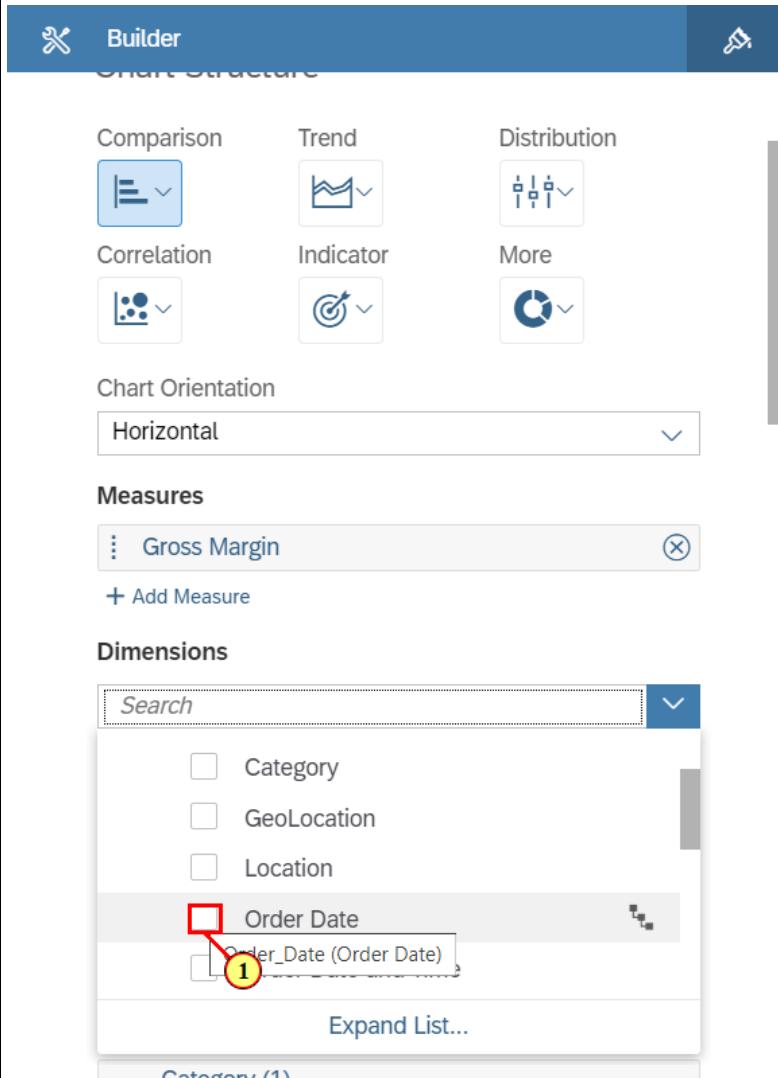
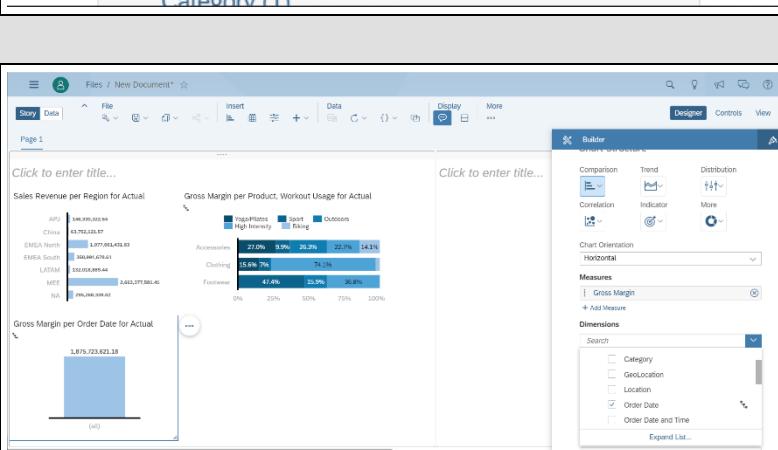
Explanation	Screenshot
<p>(1) Click <b>Show Chart as 100%</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are several categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under 'Chart Orientation', the dropdown is set to 'Horizontal'. Below it, a checkbox labeled 'Show Chart as 100%' is checked, with a red box drawn around it. A yellow circle with the number '1' is placed over the 'Measures' section, which contains the measure 'Gross Margin'. There are also sections for 'Dimensions' (Product) and 'Color'.</p>
<p> We have now scaled our stacked bar chart so that the total Gross Margin in each category is represented by 100%. This enables us to quickly analyze the contribution of the Workout Usage dimension within a Product Category.</p>	 <p>The screenshot shows the SAP Analytics Cloud Designer interface. It features a stacked bar chart titled 'Gross Margin per Product, Workout Usage for Actual'. The chart has three categories: Accessories, Clothing, and Footwear. The 'Accessories' category has segments for 27.0%, 26.3%, 22.7%, and 14.0%. The 'Clothing' category has segments for 50%, 24.7%, and 25%. The 'Footwear' category has segments for 47.4%, 18%, and 36.6%. The background shows a table of sales revenue per region.</p>

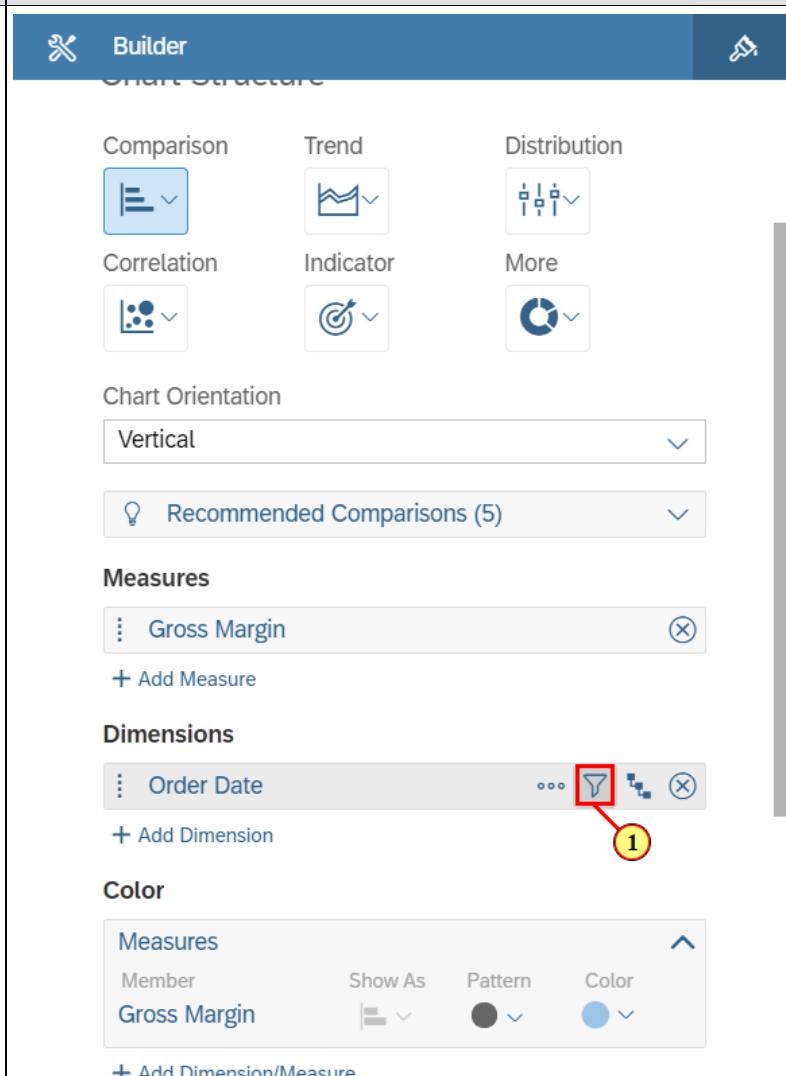
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(1) Resize the chart if needed.	 <p><b>Sales Revenue per Region for Actual</b></p> <table border="1"> <thead> <tr> <th>Region</th> <th>Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>146,330,322.64</td></tr> <tr><td>China</td><td>63,752,121.57</td></tr> <tr><td>EMEA North</td><td>1,077,661,431.63</td></tr> <tr><td>EMEA South</td><td>358,991,678.61</td></tr> <tr><td>LATAM</td><td>132,018,885.44</td></tr> <tr><td>MEE</td><td>2,663,377,581.41</td></tr> <tr><td>NA</td><td>295,268,339.02</td></tr> </tbody> </table> <p><b>Gross Margin per Product, Workout Usage for Actual</b></p> <table border="1"> <thead> <tr> <th>Category</th> <th>High Interest</th> <th>Sport</th> <th>Outdoors</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>27.0%</td><td>26.3%</td><td>22.7%</td></tr> <tr><td>Clothing</td><td>16%</td><td>74.1%</td><td>0%</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>16%</td><td>36.8%</td></tr> </tbody> </table>	Region	Revenue	APJ	146,330,322.64	China	63,752,121.57	EMEA North	1,077,661,431.63	EMEA South	358,991,678.61	LATAM	132,018,885.44	MEE	2,663,377,581.41	NA	295,268,339.02	Category	High Interest	Sport	Outdoors	Accessories	27.0%	26.3%	22.7%	Clothing	16%	74.1%	0%	Footwear	47.4%	16%	36.8%
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SAP Analytics Cloud - Google Chrome																																	
 <b>Quality Check!</b> Does the Stacked Bar Chart in your story show up like this? Our chart visualization now displays for us the proportional distribution of gross margins in each Product Category based on their Workout Usage.																																	
SAP Analytics Cloud - Google Chrome																																	
 We now want to look at building a chart with a time dimension, an essential tool to every business intelligence dashboard. (1) Click <b>Insert Chart</b>																																	
SAP Analytics Cloud - Google Chrome																																	

Explanation	Screenshot
(1) Click <b>Add Measure</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below the header, there's a section titled "Chart Structure" with various chart types: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under "Measures", there is a button "+ Add Measure" which is highlighted with a red box and has a yellow circle with the number "1" above it, indicating it is the first step. Below "Measures" is a "Dimension" section with a "+ Add Dimension" button. At the bottom, there is a "Color" section with a color palette and a "Add Dimension/Measure" button.</p>

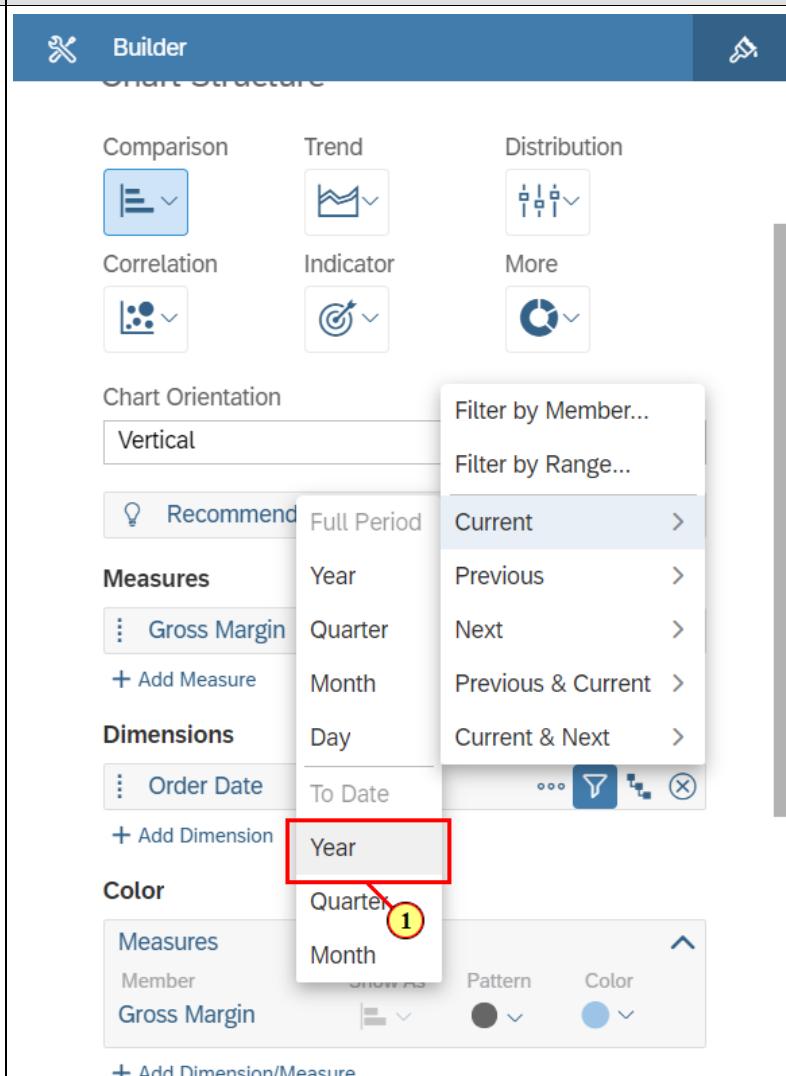
Explanation	Screenshot
(1) Click <b>Gross Margin</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Measures' section, under the 'ACCOUNT' category, the 'Gross Margin' item is highlighted with a red box and a yellow circle containing the number '1'. This indicates the step to click on 'Gross Margin'.</p>

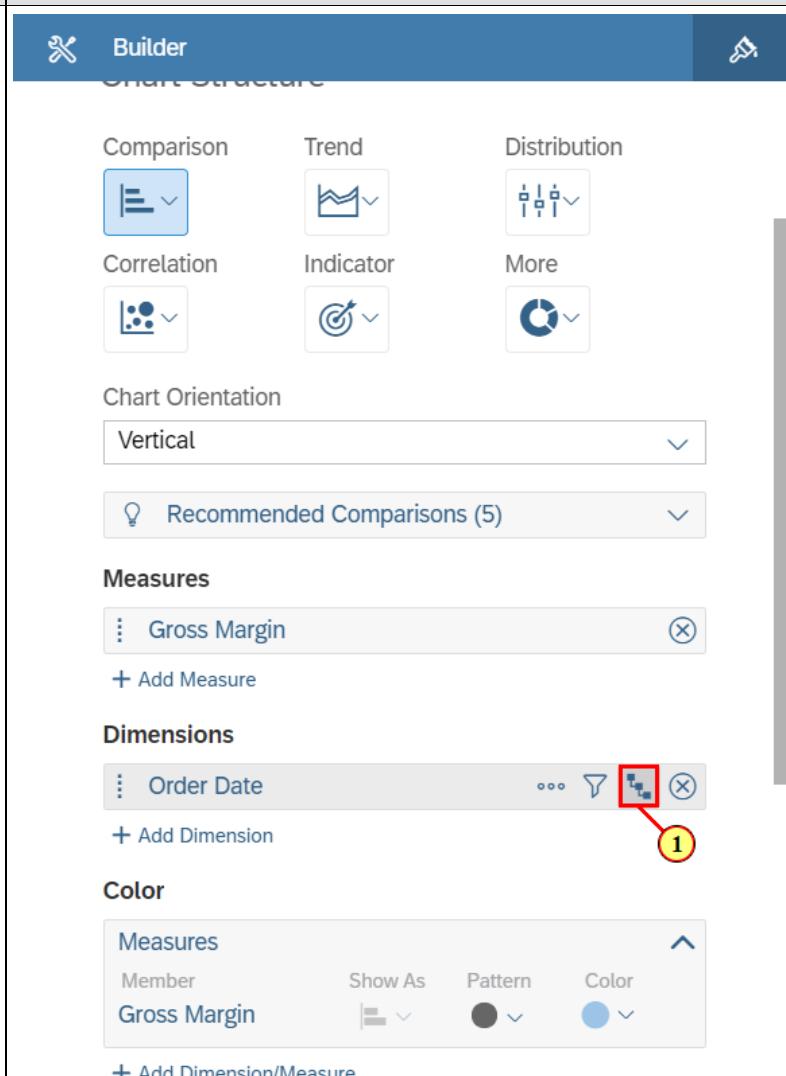
Explanation	Screenshot
(1) Click <b>Add Dimension</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are several categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Below these are sections for 'Chart Orientation' (set to 'Horizontal'), 'Measures' (containing 'Gross Margin'), and 'Dimensions'. The 'Dimensions' section has a button '+ Add Dimension' highlighted with a red box and a yellow circle with the number '1' pointing to it. The 'Color' section is also visible.</p>

Explanation	Screenshot
(1) Scroll down and click <b>Order Date</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a search bar and three checkboxes: 'Category', 'GeoLocation', and 'Location'. Below these, a dropdown menu is open, showing a list of dimensions. The 'Order Date' dimension is selected, indicated by a red box around its checkbox and a red circle with the number '1' placed over its label. Other items in the list include 'Order_Date (Order Date)' and 'Category (1)'.</p>
 <p>SAP Analytics Cloud immediately recognized our time dimension and created an upright chart orientation as per best practices. However, our chart currently shows an aggregation of all gross margins in our data set. Next, we want to apply a dynamic time filter for the year to date range and change the drill level to show months as the granularity of bars.</p>	 <p>The screenshot shows a SAP Analytics Cloud dashboard. It features several data visualizations: a bar chart for 'Sales Revenue per Region for Actual' with data for APAC, China, EMEA North, EMEA South, LATAM, MRF, and NA; a treemap for 'Gross Margin per Product, Workout Usage for Actual' with categories like Apparel, Footwear, Clothing, and Accessories; and a table for 'Gross Margin per Order Date for Actual' showing a single value of 1,875,723,621.38. The interface includes a toolbar with file operations and a sidebar with a 'Builder' section containing various chart types and settings.</p>
SAP Analytics Cloud - Google Chrome	

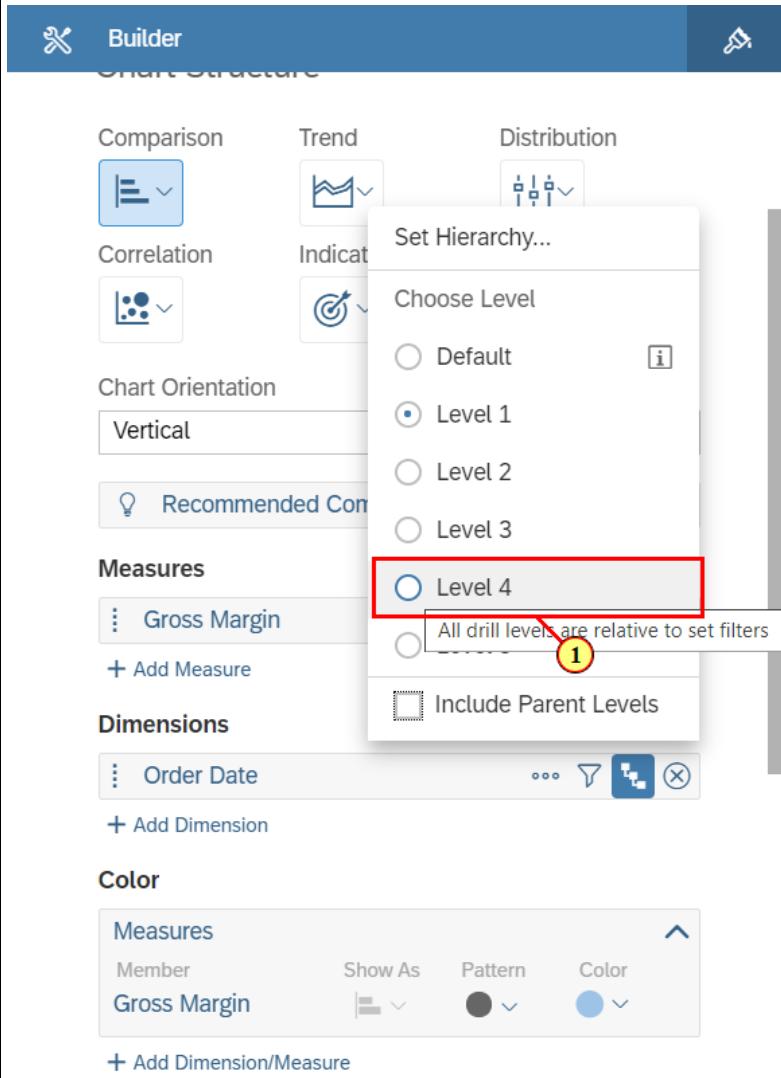
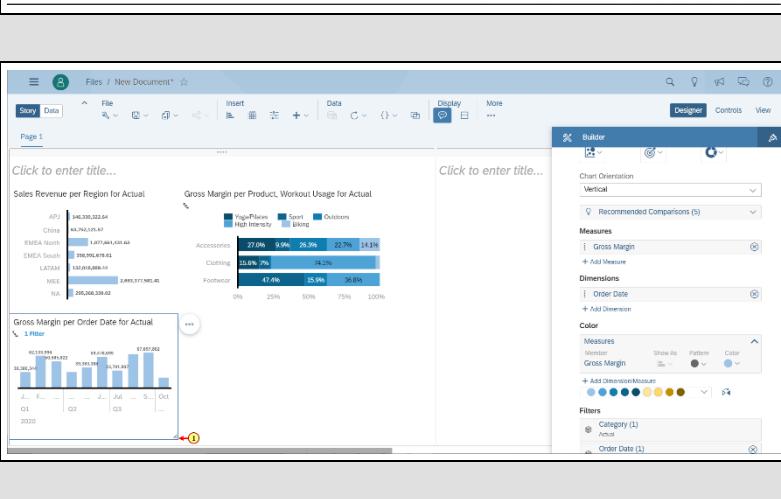
Explanation	Screenshot
<p>We have many options on filtering or drilling down on a dimension simply by hovering over the dimension in builder panel.</p> <p>(1) Click <b>Filter</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a row for 'Order Date'. To the right of this row, there is a 'Filter' icon (a magnifying glass) which is highlighted with a red box and has a yellow circle with the number '1' above it, indicating it is the first step to click. Below the dimensions, there is a 'Color' section with settings for 'Gross Margin'.</p>

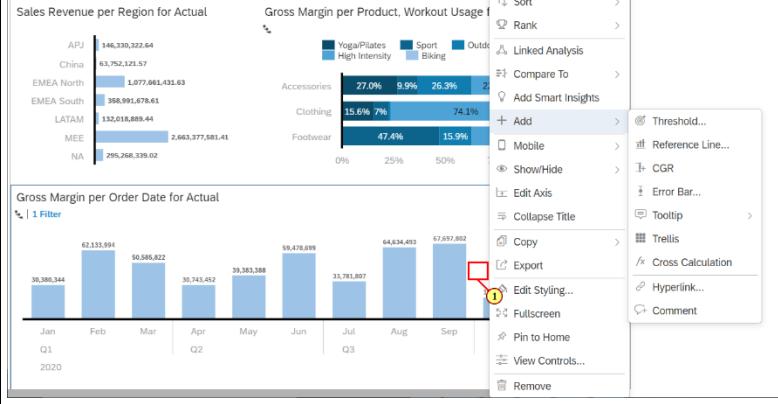
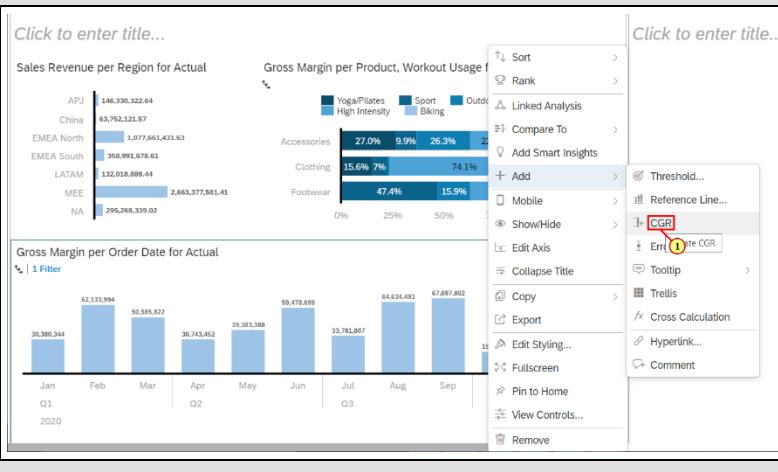
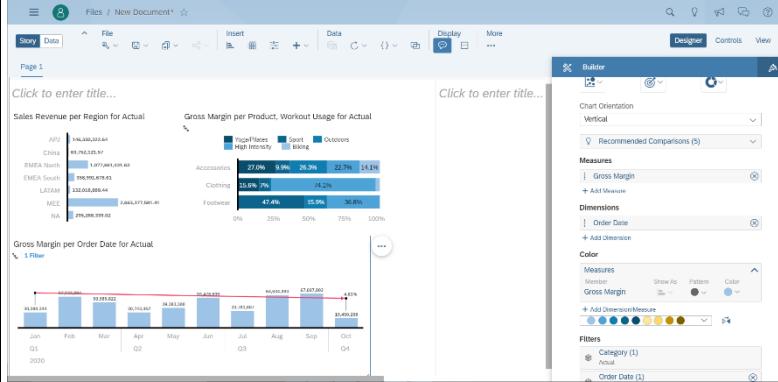
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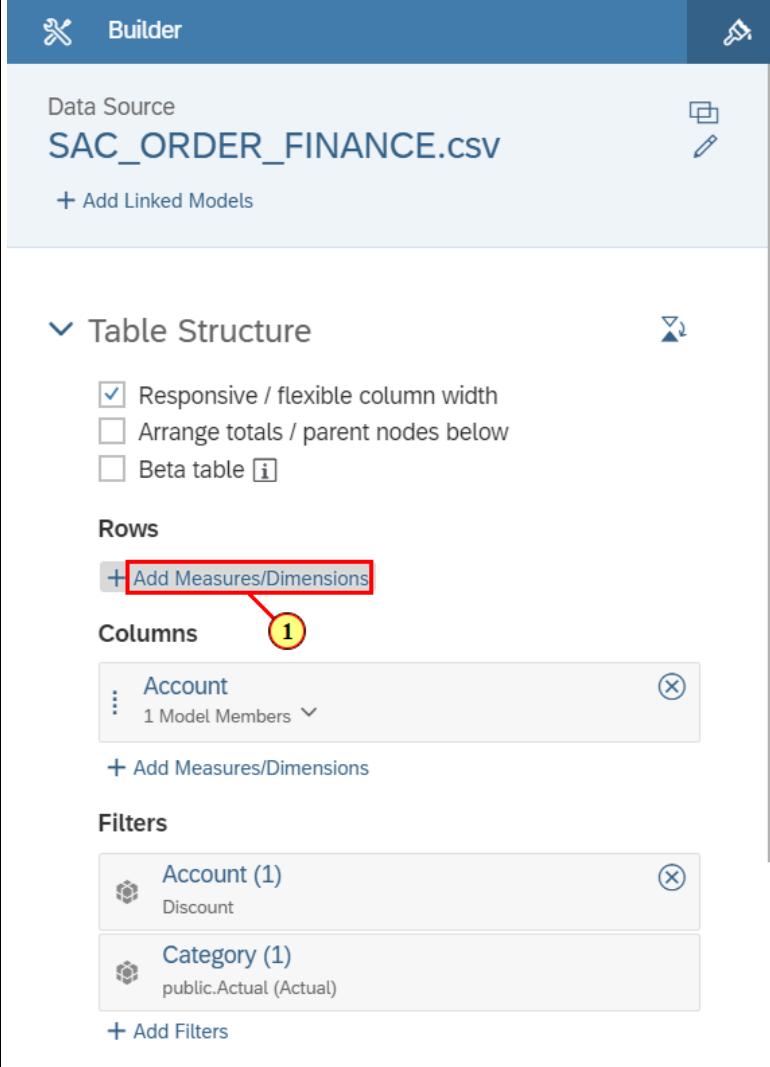
Explanation	Screenshot				
<p>(1) Click <b>Current</b> then click <b>Year To Date</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a dropdown menu for 'To Date' with the following options: Year, Quarter, Month, and Year To Date. The 'Year' option is highlighted with a red box and a yellow circle containing the number 1. A tooltip '1' is also present over the 'Year' option.</p> <table border="1"> <thead> <tr> <th>Measure</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Gross Margin</td> <td>1000</td> </tr> </tbody> </table>	Measure	Value	Gross Margin	1000
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Explanation	Screenshot
<p>(1) Click <b>Set Drill</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, there are six categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Below these are sections for Chart Orientation (set to Vertical), Recommended Comparisons (5), Measures (Gross Margin), Dimensions (Order Date), and Color settings for Gross Margin. A red box highlights the 'Set Drill' icon in the Dimensions section, and a yellow circle highlights the number '1' indicating a step.</p>

SAP Analytics Cloud - Google Chrome

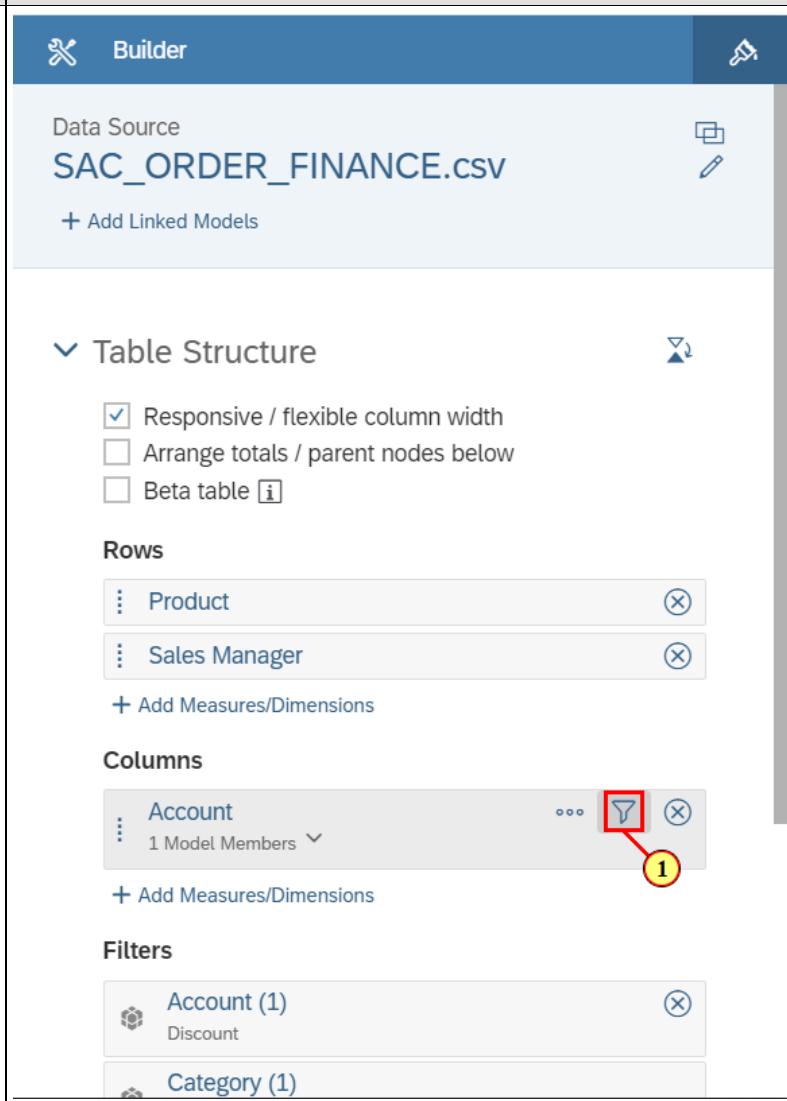
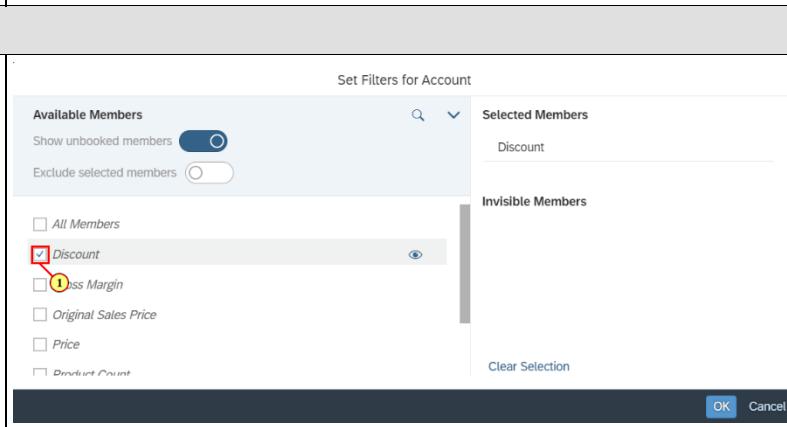
Explanation	Screenshot
<p>(1) Click <b>Level 4</b> to examine data on a monthly level.</p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface with the 'Builder' tab selected. In the 'Dimensions' section, 'Order Date' is listed. A context menu is open over 'Order Date', with the 'Set Hierarchy...' option highlighted. The 'Set Hierarchy...' dialog box is displayed, showing four levels: Default, Level 1, Level 2, Level 3, and Level 4. 'Level 4' is selected and highlighted with a red box. A yellow circle with the number '1' points to the note 'All drill levels are relative to set filters'.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Expand the <b>Gross Margin per Order Date Chart</b></p> <p></p> <p>We have just created a chart with a time dimension using a Year to Date filter to organize our visualization. Next, we want to apply an additional feature to our chart to track the trend of Gross Margin.</p>	 <p>The screenshot shows the SAP Analytics Cloud Designer interface with a dashboard containing three charts: 'Sales Revenue per Region for Actual', 'Gross Margin per Product, Workout Usage for Actual', and 'Gross Margin per Order Date for Actual'. The 'Gross Margin per Order Date for Actual' chart is highlighted with a yellow arrow. The chart displays monthly gross margin values for Q1 2020.</p>

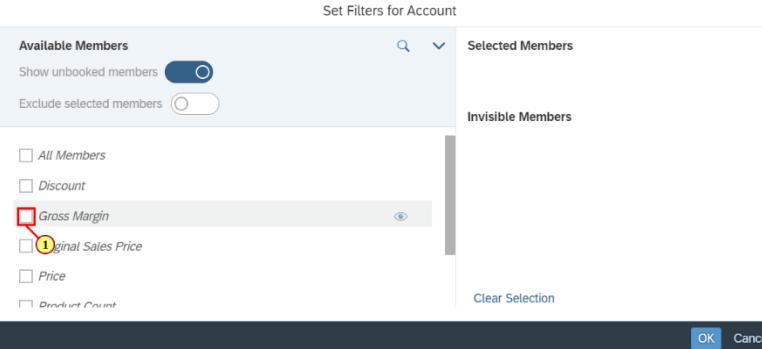
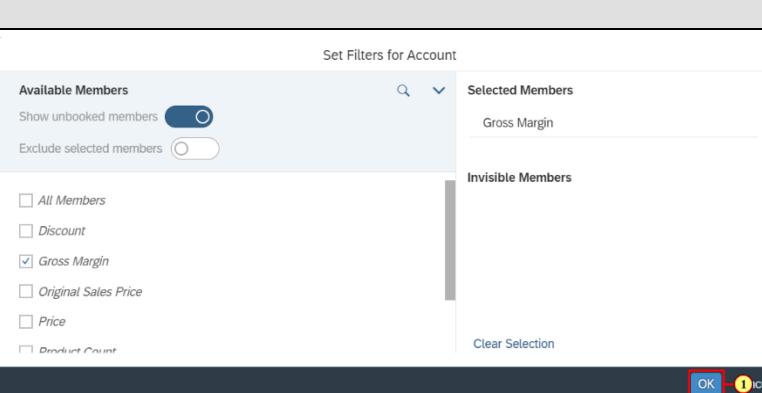
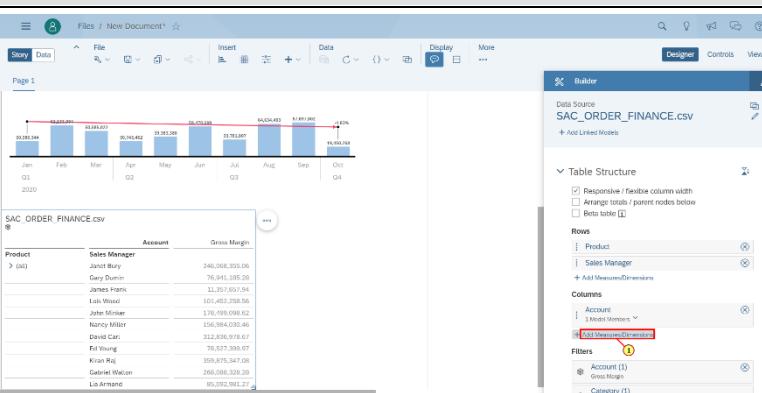
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<p>(1) Right click on the chart to open the Context Menu</p>  <p>Welcome to the Context Menu!</p> <p>Users can use this menu to change chart properties like adding additional information or hiding chart features, sort and rank data, add linked analysis, and copy or delete the chart.</p>	<p><i>Click to enter title...</i></p>  <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>146,330,322.64</td></tr> <tr><td>China</td><td>63,752,121.57</td></tr> <tr><td>EMEA North</td><td>1,077,661,431.63</td></tr> <tr><td>EMEA South</td><td>358,991,678.61</td></tr> <tr><td>LATAM</td><td>132,018,889.44</td></tr> <tr><td>MEE</td><td>2,663,377,581.41</td></tr> <tr><td>NA</td><td>295,268,339.02</td></tr> </tbody> </table> <p>Gross Margin per Product, Workout Usage for Actual</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Yoga/Pilates</th> <th>Sport</th> <th>Outdoors</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>27.0%</td><td>9.9%</td><td>26.3%</td></tr> <tr><td>Clothing</td><td>15.6%</td><td>7%</td><td>74.1%</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>15.9%</td><td>36.6%</td></tr> </tbody> </table> <p><i>Click to enter title...</i></p> <p><i>Click to enter title...</i></p> <p>Sort Rank Linked Analysis Compare To Add Smart Insights Add Mobile Show/Hide Edit Axis Collapse Title Edit Styling... Export Copy Fullscreen Pin to Home View Controls... Remove</p> <p>① CGR</p>	Region	Revenue	APJ	146,330,322.64	China	63,752,121.57	EMEA North	1,077,661,431.63	EMEA South	358,991,678.61	LATAM	132,018,889.44	MEE	2,663,377,581.41	NA	295,268,339.02	Category	Yoga/Pilates	Sport	Outdoors	Accessories	27.0%	9.9%	26.3%	Clothing	15.6%	7%	74.1%	Footwear	47.4%	15.9%	36.6%
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 <p>Let's add a Compound Growth Rate to look at the trend of Gross Margin in our chart.</p> <p>(1) Click Add then click CGR to add a Compound Growth Rate to the chart.</p>	<p><i>Click to enter title...</i></p>  <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>146,330,322.64</td></tr> <tr><td>China</td><td>63,752,121.57</td></tr> <tr><td>EMEA North</td><td>1,077,661,431.63</td></tr> <tr><td>EMEA South</td><td>358,991,678.61</td></tr> <tr><td>LATAM</td><td>132,018,889.44</td></tr> <tr><td>MEE</td><td>2,663,377,581.41</td></tr> <tr><td>NA</td><td>295,268,339.02</td></tr> </tbody> </table> <p>Gross Margin per Product, Workout Usage for Actual</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Yoga/Pilates</th> <th>Sport</th> <th>Outdoors</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>27.0%</td><td>9.9%</td><td>26.3%</td></tr> <tr><td>Clothing</td><td>15.6%</td><td>7%</td><td>74.1%</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>15.9%</td><td>36.6%</td></tr> </tbody> </table> <p><i>Click to enter title...</i></p> <p><i>Click to enter title...</i></p> <p>Sort Rank Linked Analysis Compare To Add Smart Insights Add Mobile Show/Hide Edit Axis Collapse Title Edit Styling... Export Copy Fullscreen Pin to Home View Controls... Remove</p> <p>① CGR</p>	Region	Revenue	APJ	146,330,322.64	China	63,752,121.57	EMEA North	1,077,661,431.63	EMEA South	358,991,678.61	LATAM	132,018,889.44	MEE	2,663,377,581.41	NA	295,268,339.02	Category	Yoga/Pilates	Sport	Outdoors	Accessories	27.0%	9.9%	26.3%	Clothing	15.6%	7%	74.1%	Footwear	47.4%	15.9%	36.6%
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 <p>We can see from the CGR added to the chart that compared to January, our compound growth rate is almost -5%. Perhaps this is alarming information for the business user.</p>	<p><i>Click to enter title...</i></p>  <p>Sales Revenue per Region for Actual</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>146,330,322.64</td></tr> <tr><td>China</td><td>63,752,121.57</td></tr> <tr><td>EMEA North</td><td>1,077,661,431.63</td></tr> <tr><td>EMEA South</td><td>358,991,678.61</td></tr> <tr><td>LATAM</td><td>132,018,889.44</td></tr> <tr><td>MEE</td><td>2,663,377,581.41</td></tr> <tr><td>NA</td><td>295,268,339.02</td></tr> </tbody> </table> <p>Gross Margin per Product, Workout Usage for Actual</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Yoga/Pilates</th> <th>Sport</th> <th>Outdoors</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>27.0%</td><td>9.9%</td><td>26.3%</td></tr> <tr><td>Clothing</td><td>15.6%</td><td>7%</td><td>74.1%</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>15.9%</td><td>36.6%</td></tr> </tbody> </table> <p><i>Click to enter title...</i></p> <p><i>Click to enter title...</i></p> <p>Sort Rank Linked Analysis Compare To Add Smart Insights Add Mobile Show/Hide Edit Axis Collapse Title Edit Styling... Export Copy Fullscreen Pin to Home View Controls... Remove</p>	Region	Revenue	APJ	146,330,322.64	China	63,752,121.57	EMEA North	1,077,661,431.63	EMEA South	358,991,678.61	LATAM	132,018,889.44	MEE	2,663,377,581.41	NA	295,268,339.02	Category	Yoga/Pilates	Sport	Outdoors	Accessories	27.0%	9.9%	26.3%	Clothing	15.6%	7%	74.1%	Footwear	47.4%	15.9%	36.6%
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 <p>Now we will look at adding a table to our story to examine our Gross Margin contribution by Sales Managers.</p> <p>(1) Click Insert Table</p>	<p><i>Click to enter title...</i></p>  <p>Story Data</p> <p>File</p> <p>Insert</p> <p>Insert Table</p> <p>Page 1</p>																																

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays the data source "SAC_ORDER_FINANCE.csv". Below the header, there's a section titled "Table Structure" with three checkboxes: "Responsive / flexible column width" (checked), "Arrange totals / parent nodes below", and "Beta table". Under "Rows", there's a button "+ Add Measures/Dimensions" which is highlighted with a red box and has a yellow circle with the number 1 pointing to it. Below this, under "Columns", there's a box containing "Account" and "1 Model Members". There's also a "+ Add Measures/Dimensions" button. Under "Filters", there are two boxes: "Account (1)" with "Discount" and "Category (1)" with "public.Actual (Actual)". A "+ Add Filters" button is also present.</p>
(1) Click <b>Add Measures/Dimensions</b>	SAP Analytics Cloud - Google Chrome

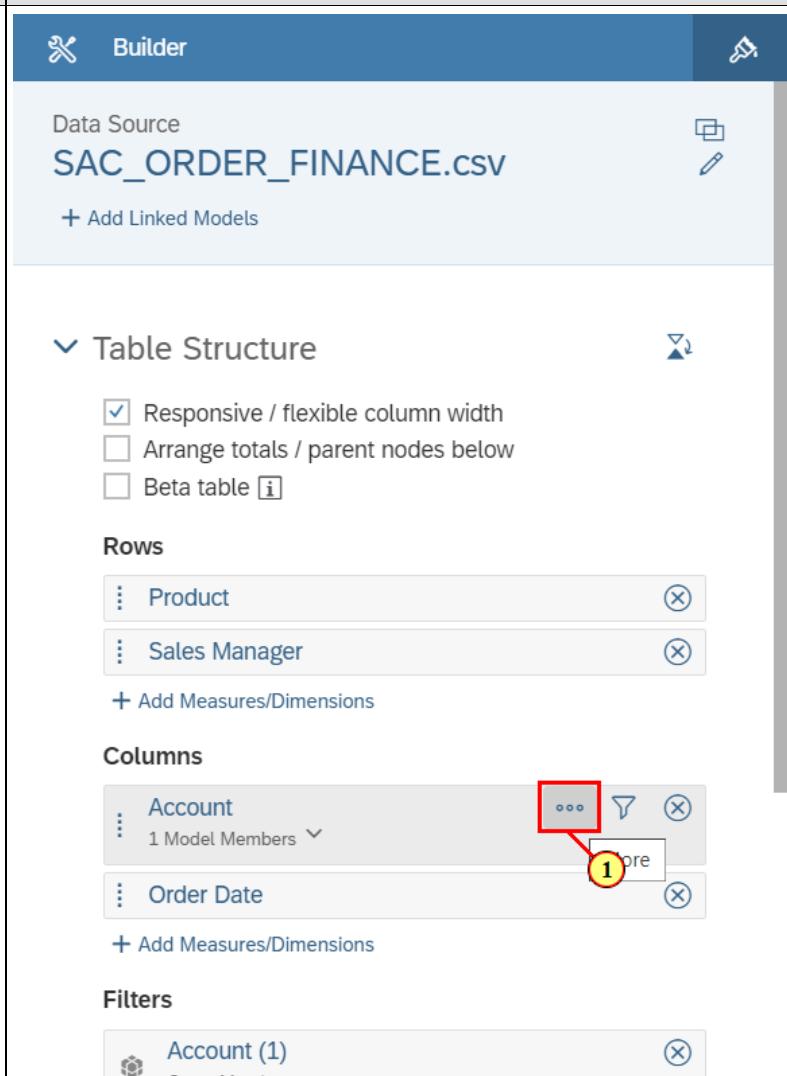
Explanation	Screenshot
(1) Click <b>Product</b>	<p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays the Data Source <b>SAC_ORDER_FINANCE.csv</b>. Below the header, there's a section titled <b>Table Structure</b> with three checkboxes: <input checked="" type="checkbox"/> Responsive / flexible column width, <input type="checkbox"/> Arrange totals / parent nodes below, and <input type="checkbox"/> Beta table <small>i</small>.</p> <p>Under the <b>Rows</b> section, there is a search bar labeled <b>Search</b>. A list of columns is shown, each with a checkbox and a small icon. The column <b>Product</b> has its checkbox highlighted with a red rectangle and a yellow circle containing the number <b>1</b>, indicating it is the target for the first step.</p> <p>SAP Analytics Cloud - Google Chrome</p>

Explanation	Screenshot																																												
(1) Click <b>Sales Manager</b>	<p><b>Table Structure</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Responsive / flexible column width</li> <li><input type="checkbox"/> Arrange totals / parent nodes below</li> <li><input type="checkbox"/> Beta table <span style="color: #0070C0;">i</span></li> </ul> <p><b>Rows</b></p> <p>Search</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Order ID</li> <li><input type="checkbox"/> Order Number</li> <li>&gt; <input checked="" type="checkbox"/> Product</li> <li><input type="checkbox"/> Receive Date</li> <li><input type="checkbox"/> Region</li> <li><input type="checkbox"/> Sales Manager</li> <li><input checked="" type="checkbox"/> Sales Manager <span style="border: 1px solid red; border-radius: 50%; padding: 2px 5px; color: red;">1</span></li> <li><input type="checkbox"/> Store</li> <li><input type="checkbox"/> Workout Usage</li> </ul>																																												
<b>SAP Analytics Cloud - Google Chrome</b> <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <p>We can see that a table has been created to track Sales Managers. We can choose to expand the Product column to sort our table by Product Category contributions by each Manager. However, our table measure is currently set to Discount. Let's change it to Gross Margin.</p> </div> <div style="flex: 1;"> <table border="1"> <caption>SAC_ORDER_FINANCE.csv</caption> <thead> <tr> <th>Product</th> <th>Sales Manager</th> <th>Account</th> <th>Discount</th> </tr> </thead> <tbody> <tr><td>2-001</td><td>Janet Dury</td><td>234,402,506.96</td><td></td></tr> <tr><td></td><td>Gary Dunin</td><td>75,466,672.06</td><td></td></tr> <tr><td></td><td>James Frank</td><td>24,459,952.52</td><td></td></tr> <tr><td></td><td>Luis Wood</td><td>124,423,885.77</td><td></td></tr> <tr><td></td><td>John Minier</td><td>109,210,000.73</td><td></td></tr> <tr><td></td><td>David Carr</td><td>100,176,458.34</td><td></td></tr> <tr><td></td><td>Ed Young</td><td>65,363,320.81</td><td></td></tr> <tr><td></td><td>Kiran Raj</td><td>348,403,121.57</td><td></td></tr> <tr><td></td><td>Gabriel Watson</td><td>235,563,564.74</td><td></td></tr> <tr><td></td><td>Eva Armand</td><td>113,151,117.53</td><td></td></tr> </tbody> </table> </div> </div>		Product	Sales Manager	Account	Discount	2-001	Janet Dury	234,402,506.96			Gary Dunin	75,466,672.06			James Frank	24,459,952.52			Luis Wood	124,423,885.77			John Minier	109,210,000.73			David Carr	100,176,458.34			Ed Young	65,363,320.81			Kiran Raj	348,403,121.57			Gabriel Watson	235,563,564.74			Eva Armand	113,151,117.53	
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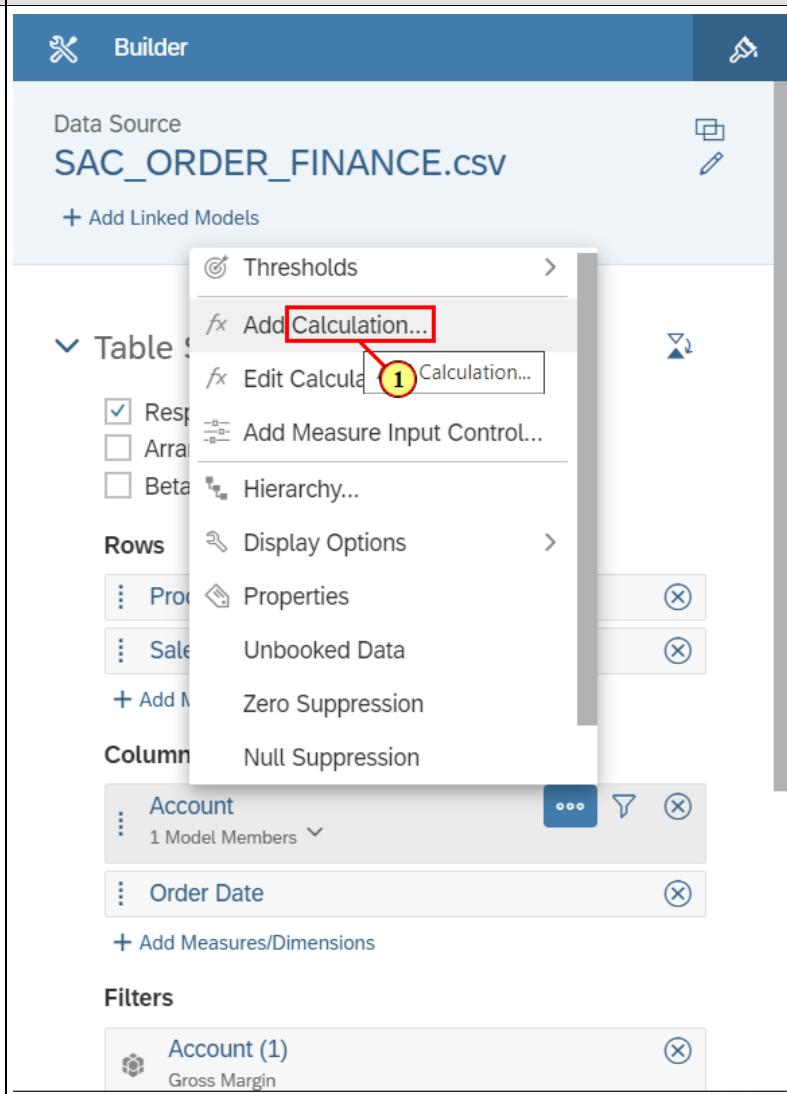
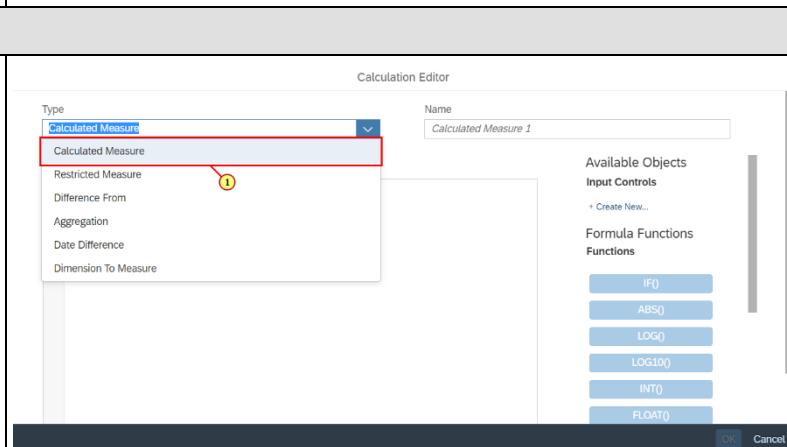
Explanation	Screenshot
(1) Click <b>Filter</b> on Account Column	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays the Data Source <b>SAC_ORDER_FINANCE.csv</b>. Below this, the <b>Table Structure</b> section is expanded, showing three filter options for the <b>Account</b> column: <b>Responsive / flexible column width</b> (checked), <b>Arrange totals / parent nodes below</b>, and <b>Beta table</b>. Under the <b>Rows</b> section, there are two rows: <b>Product</b> and <b>Sales Manager</b>. In the <b>Columns</b> section, there is a column for <b>Account</b>, which has a filter icon highlighted with a red box and a yellow circle containing the number 1. Below the columns section, there are sections for <b>Filters</b> with <b>Account (1)</b> and <b>Category (1)</b>.</p>
(1) Deselect <b>Discount</b>	 <p>The screenshot shows the <b>Set Filters for Account</b> dialog. On the left, under <b>Available Members</b>, the <b>Discount</b> checkbox is selected and highlighted with a red box and a yellow circle containing the number 1. Other available members include All Members, Loss Margin, Original Sales Price, Price, and Product Count. On the right, under <b>Selected Members</b>, the <b>Discount</b> member is listed. At the bottom right of the dialog are <b>OK</b> and <b>Cancel</b> buttons.</p>
SAP Analytics Cloud - Google Chrome	

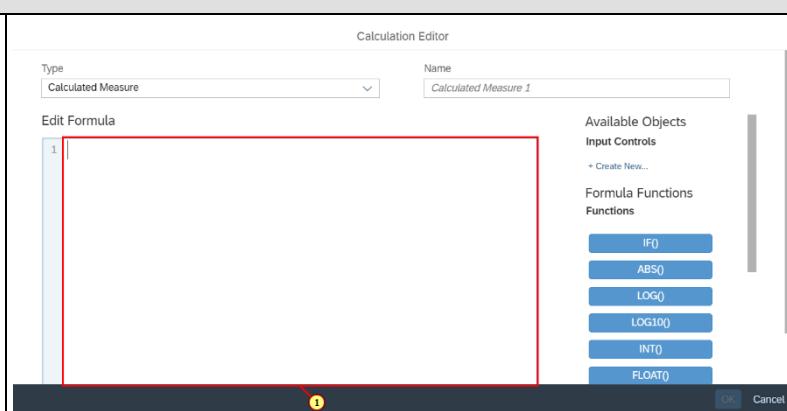
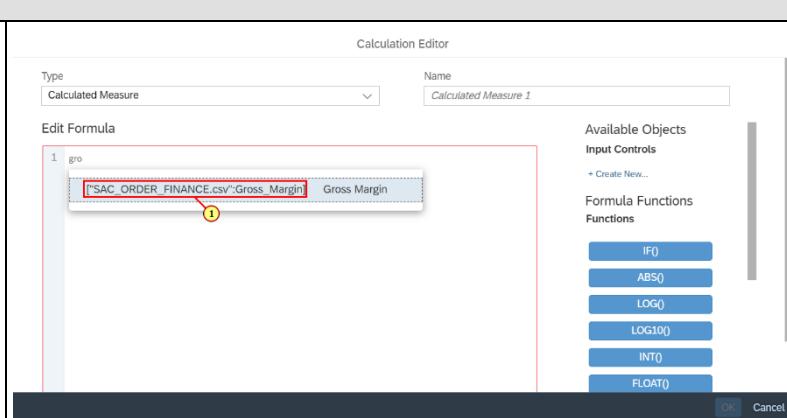
Explanation	Screenshot
(1) Click <b>Gross Margin</b>	
(1) Click <b>OK</b>	
<p> We have created a table to show contributions of Sales Manager to Gross Margin; however, this value is an aggregate over the entire period spanning the model. We would like to filter on time to better interpret the yearly contributions of each Sales Manager to Gross Margin.</p> <p>(1) Click <b>Add Measures/Dimensions</b> in Columns</p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Scroll down and click Order Date	<p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Table Structure' section, under 'Columns', there is a search bar and a list of fields. The 'Order Date' field is highlighted with a red box and a yellow circle containing the number 1.</p>
<b>Quality Check!</b> Does your table have the Product, Sales Manager, and Gross Margin columns?	<p><b>Quality Check!</b> Does your table have the Product, Sales Manager, and Gross Margin columns?</p> <p>There has been an Order Date field added to our table. If we expand on all, Gross Margin will be separated into yearly sums. However, Gross Margin may not be the best measure for our dashboard. Next, we will create a calculation from our model.</p> <p>The screenshot shows the SAP Analytics Cloud Designer interface. It includes a chart with monthly sales data and a table titled 'SAC_ORDER_FINANCE.csv' with columns for Account, Order Date, and Gross Margin. The table lists various sales managers and their corresponding data.</p>
SAP Analytics Cloud - Google Chrome	

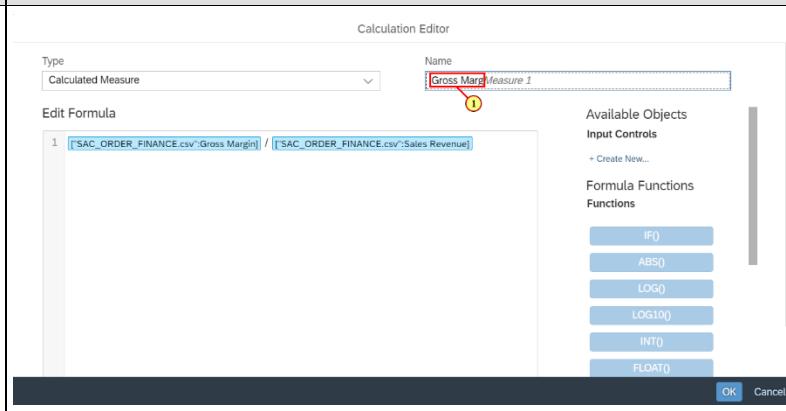
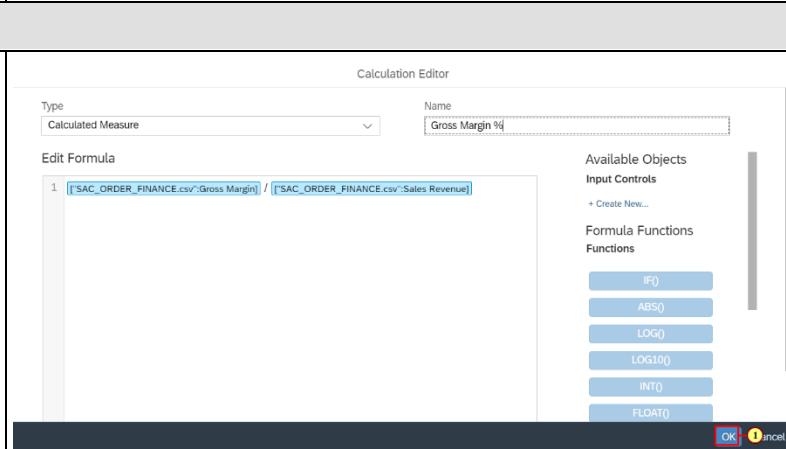
Explanation	Screenshot
<p> We may be looking for more insights from our data and can do so by creating a calculation!</p> <p>(1) Click <b>More</b> in Account</p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a Data Source named "SAC_ORDER_FINANCE.csv". Below this, there are sections for "Table Structure", "Rows", "Columns", and "Filters".</p> <ul style="list-style-type: none"> <li><b>Table Structure:</b> Contains checkboxes for "Responsive / flexible column width" (checked), "Arrange totals / parent nodes below", and "Beta table".</li> <li><b>Rows:</b> Lists "Product" and "Sales Manager" as rows.</li> <li><b>Columns:</b> Lists "Account" (with a dropdown showing "1 Model Members") and "Order Date". A red box highlights the three-dot menu icon next to "Account", and a yellow circle highlights the number "1" next to "Order Date".</li> <li><b>Filters:</b> Shows a filter for "Account (1)" with "Gross Margin" selected.</li> </ul>

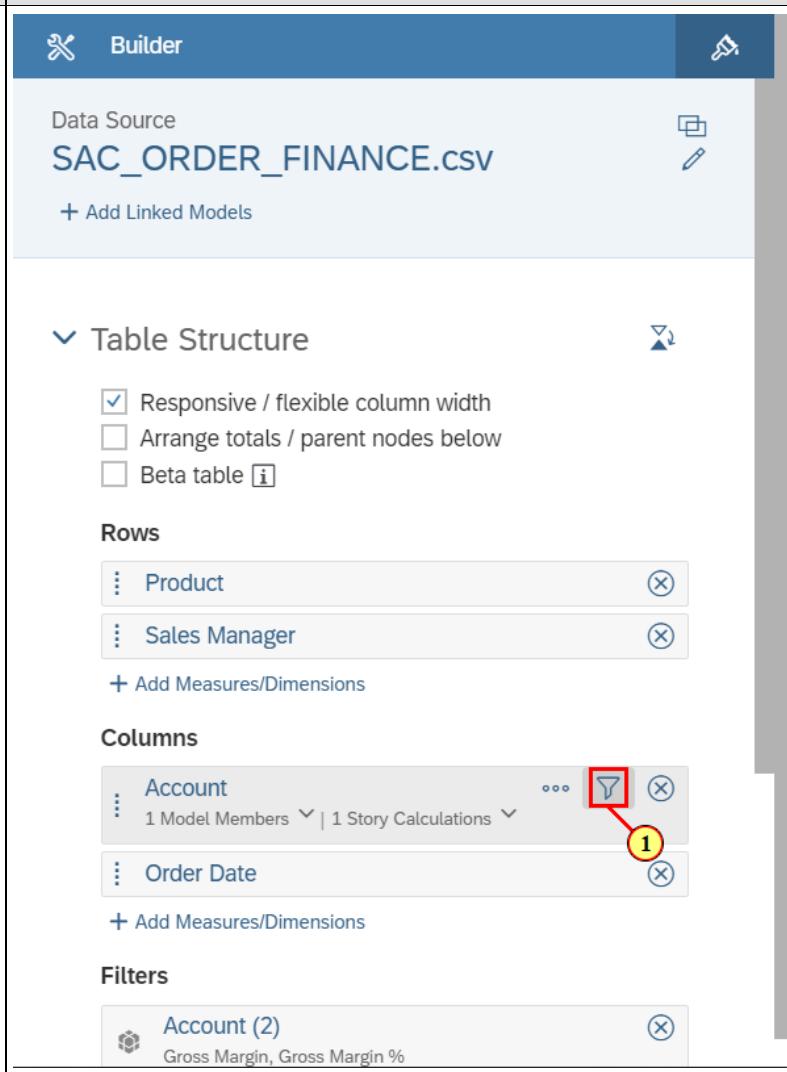
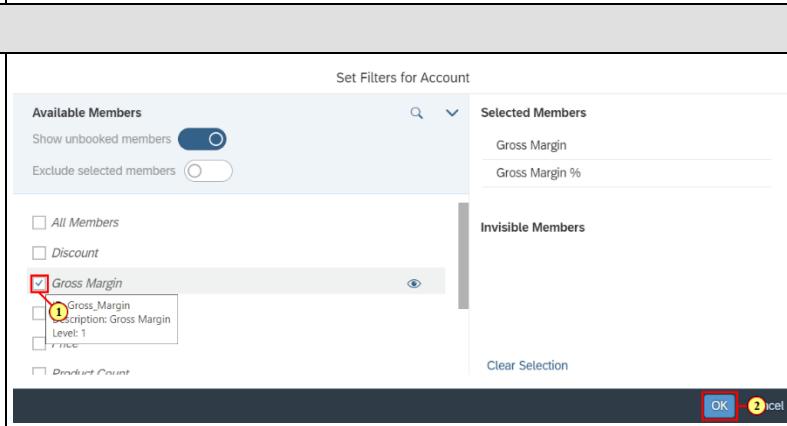
SAP Analytics Cloud - Google Chrome

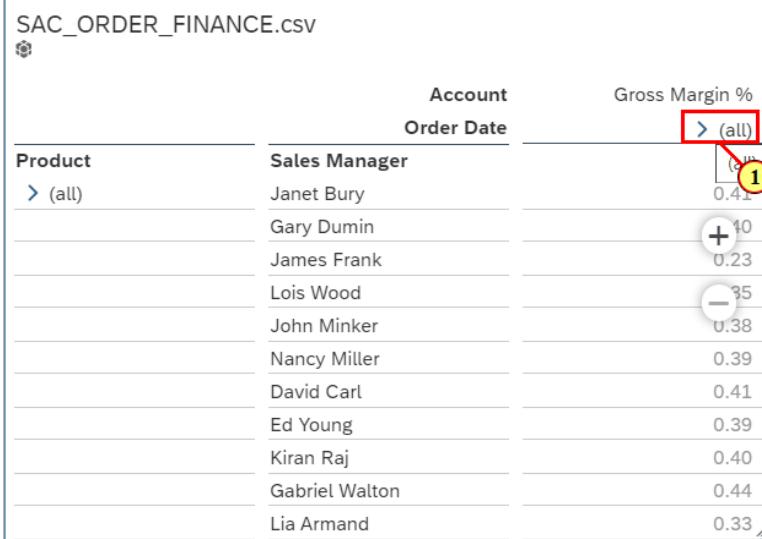
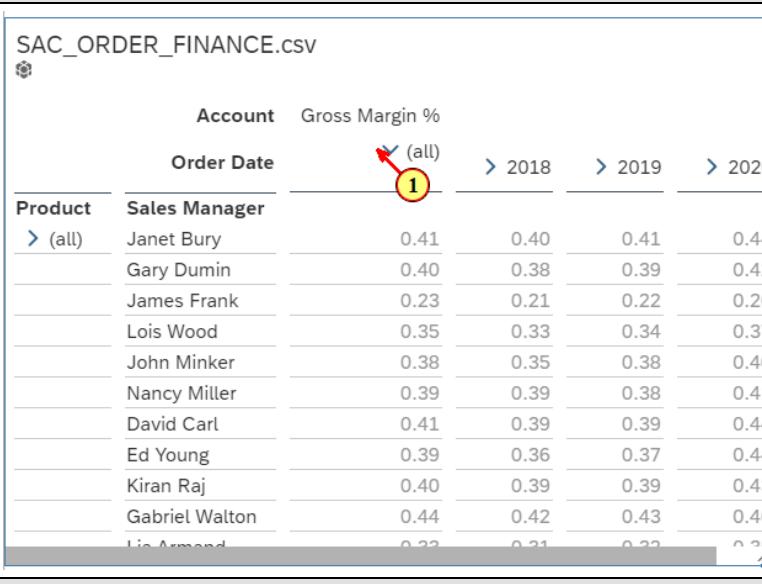
Explanation	Screenshot
(1) Click <b>Add Calculation</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. A context menu is open over a table selection. The 'Add Calculation...' option is highlighted with a red box and a yellow circle containing the number 1. Other options visible in the menu include 'Edit Calculation...', 'Add Measure Input Control...', 'Hierarchy...', 'Display Options', 'Properties', 'Unbooked Data', 'Zero Suppression', 'Null Suppression', and '+ Add Measures/Dimensions'.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 Welcome to the Calculation Editor!</p> <p>The Calculation Editor allows you to create calculations for use in a chart or table. There are various types of calculations that a user can create which include:</p>	 <p>The screenshot shows the SAP Analytics Cloud Calculation Editor dialog box. The 'Type' dropdown is set to 'Calculated Measure', which is highlighted with a red box and a yellow circle containing the number 1. The 'Name' field contains 'Calculated Measure 1'. The 'Available Objects' section shows 'Input Controls' and 'Formula Functions'. The 'Functions' section lists several mathematical functions: IF(), ABS(), LOG(), LOG10(), INT(), and FLOAT(). The 'OK' and 'Cancel' buttons are at the bottom right.</p>

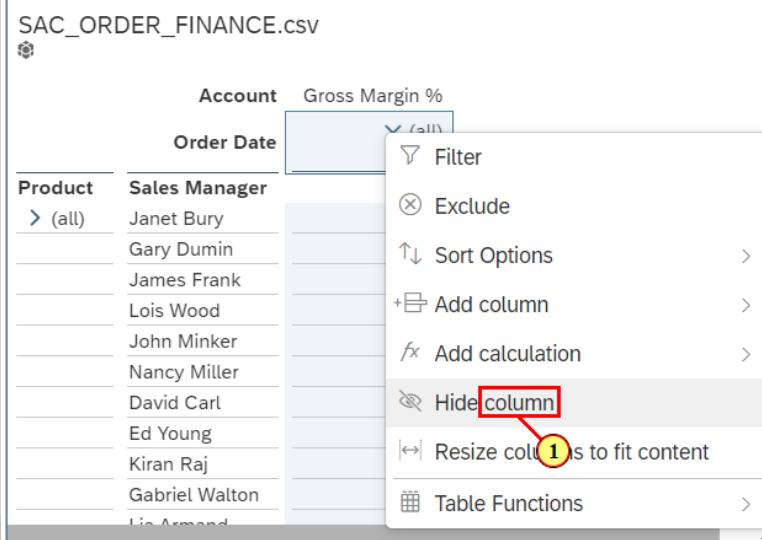
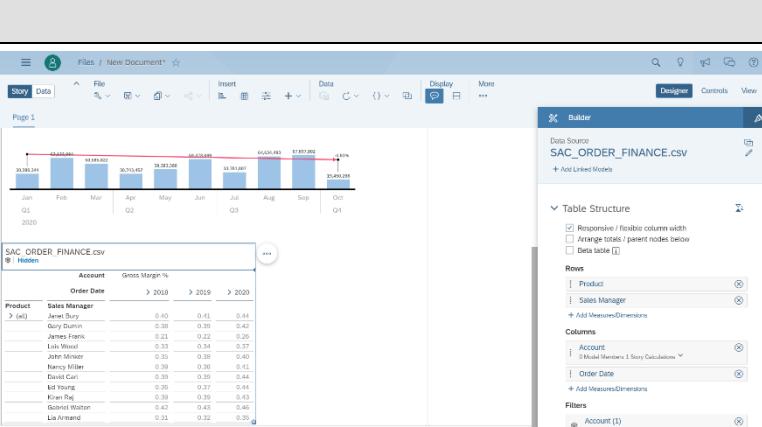
Explanation	Screenshot
<p><b>1. Calculated Measures:</b> Perform a calculation on one or more measures.</p> <p><b>2. Restricted Measures:</b> Restrict the data from a measure so that it excludes certain members of one or more dimensions.</p> <p><b>3. Difference From:</b> Find the difference in a measure's value between two points in time for a single time dimension</p> <p><b>4. Aggregation:</b> Create an aggregation such as sum, count, count dimensions, max, and max</p> <p><b>5. Date Difference:</b> Calculate the difference between two time dimensions</p> <p><b>6. Dimension To Measure:</b> Create a measure by converting a</p>	
(1) Click <b>Calculated Measure</b>	
SAP Analytics Cloud - Google Chrome	
(1) Click the formula field and enter <b>gro</b>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click <b>["SAC_ORDER_FINANCE.csv":Gross_Margin]</b> to get the Gross Margin measure from our model.</p>	
SAP Analytics Cloud - Google Chrome	

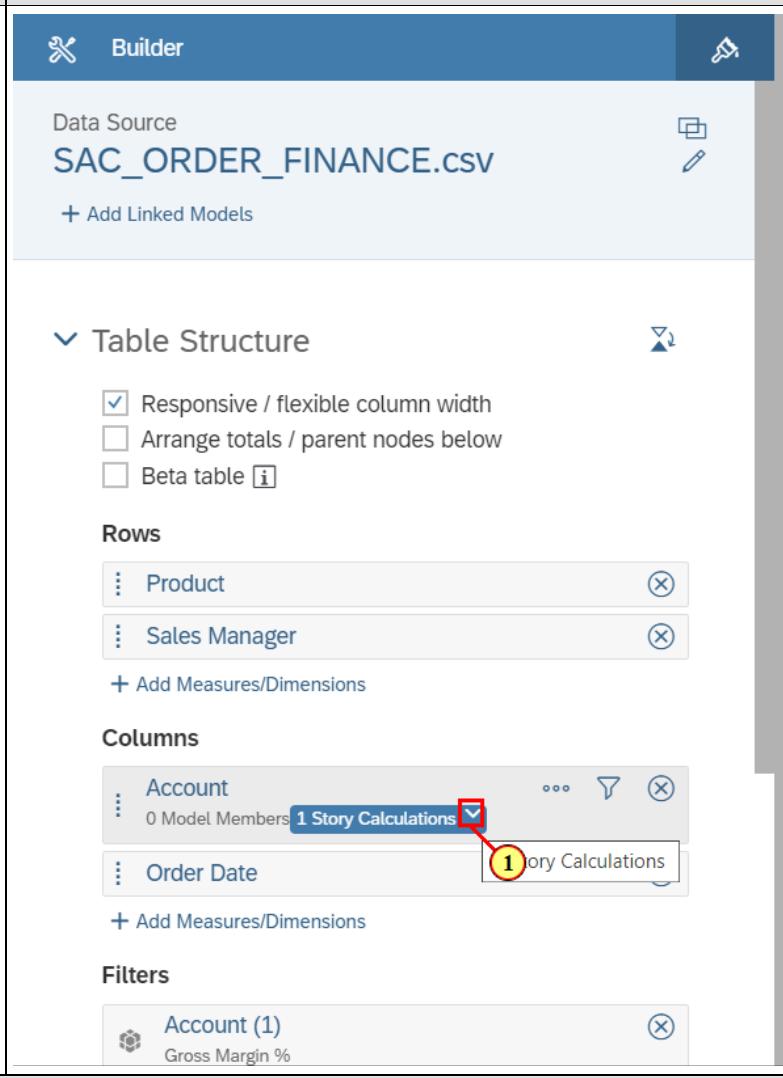
Explanation	Screenshot
Type in / to indicate we want to divide in our calculation.	<p>The screenshot shows the SAP Analytics Cloud Calculation Editor. The formula field contains the text <code>["SAC_ORDER_FINANCE.csv":Gross_Margin]</code>. To the right of the formula field is a vertical panel titled "Available Objects" containing various input controls and functions. A red box highlights the division operator <code>/</code> in the formula, and a yellow circle with the number 1 points to the formula field.</p>
(1) Type in <b>Sal</b>	<p>The screenshot shows the SAP Analytics Cloud Calculation Editor. The formula field now contains <code>["SAC_ORDER_FINANCE.csv":Gross_Margin] / Sal</code>. The "Available Objects" panel is visible on the right, showing various measures like Gross Margin, Original Sales Price, and Sales Revenue. A red box highlights the text <code>Sal</code>, and a yellow circle with the number 1 points to the formula field.</p>
(1) Click <b>["SAC_ORDER_FINANCE.csv":Sales_Revenue]</b> to get the Sales Revenue measure from our model.	<p>The screenshot shows the SAP Analytics Cloud Calculation Editor. The formula field now contains <code>["SAC_ORDER_FINANCE.csv":Gross_Margin] / ["SAC_ORDER_FINANCE.csv":Sales_Revenue]</code>. The "Available Objects" panel is visible on the right, showing the Sales Revenue measure highlighted with a red box. A yellow circle with the number 1 points to the Sales Revenue measure in the formula.</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Name the measure <b>Gross Margin %</b>	 <p>The screenshot shows the SAP Analytics Cloud Calculation Editor. The 'Type' dropdown is set to 'Calculated Measure'. The 'Name' field contains 'Gross Margin %' with a circled '1' above it. The 'Edit Formula' field displays the formula: <code>1 ["SAC_ORDER_FINANCE.csv":Gross Margin] / ["SAC_ORDER_FINANCE.csv":Sales Revenue]</code>. The right panel includes sections for 'Available Objects', 'Input Controls', and 'Formula Functions' with buttons for IF(), ABS(), LOG(), LOG10(), INT(), and FLOAT(). The bottom right corner has 'OK' and 'Cancel' buttons.</p>
(1) Click <b>OK</b>	 <p>This screenshot shows the same Calculation Editor after the 'OK' button was clicked. The 'Name' field now contains 'Gross Margin %' without the circled '1'. The formula remains the same. The 'OK' button is highlighted with a circled '1' above it.</p>
SAP Analytics Cloud - Google Chrome	

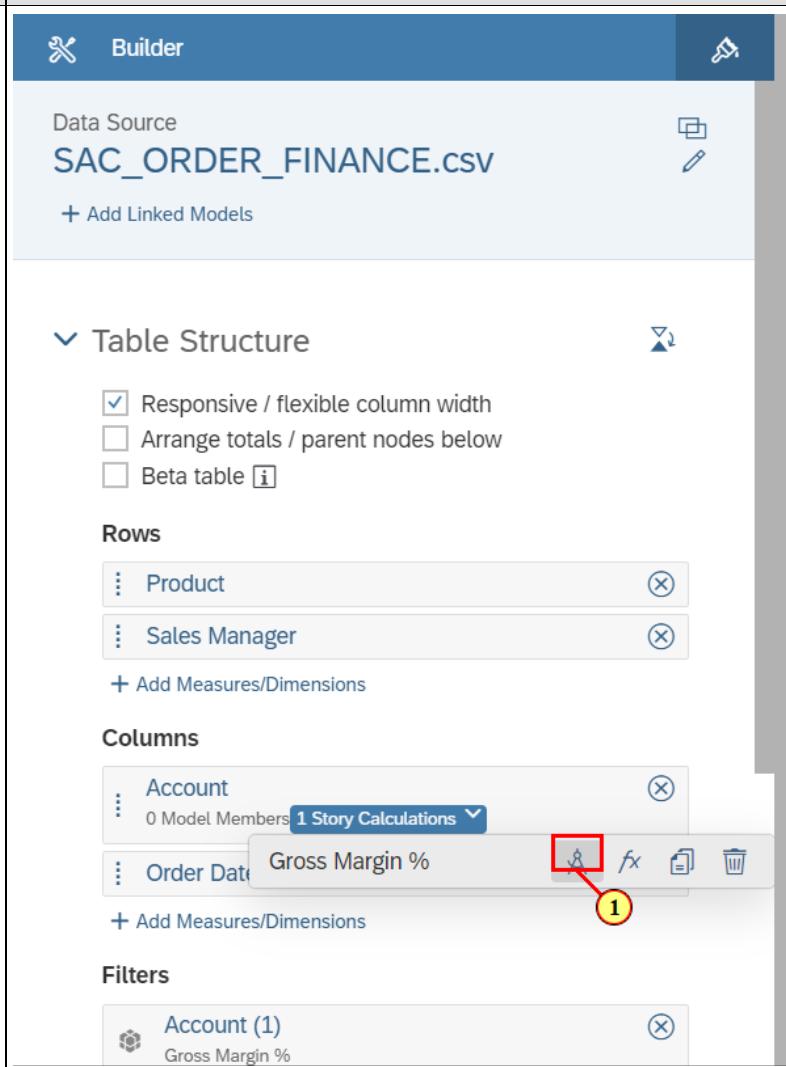
Explanation	Screenshot
<p>👉 Now let's use our newly made calculation in our table and remove the previous measure.</p> <p>(1) Click <b>Filter</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Table Structure' section, under 'Columns', there is a list of fields: 'Account' and 'Order Date'. The 'Account' field has a filter icon with a red box and a yellow circle labeled '1'.</p>
<p>(1) Deselect <b>Gross Margin</b></p> <p>(2) Click <b>OK</b></p>	 <p>The screenshot shows the 'Set Filters for Account' dialog. In the 'Available Members' section, the 'Gross Margin' checkbox is deselected, indicated by a red box and a yellow circle labeled '1'. The 'Selected Members' section shows 'Gross Margin' and 'Gross Margin %'. At the bottom right, there is an 'OK' button with a red box and a yellow circle labeled '2'.</p>
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<p>Now that we have our desired measure, let's expand the Order Date column to see our values on a yearly basis.</p> <p>(1) Click &gt; (all) to expand the Gross Margin %</p>	 <table border="1"> <thead> <tr> <th>Product</th> <th>Sales Manager</th> <th>Account</th> <th>Order Date</th> <th>Gross Margin %</th> </tr> </thead> <tbody> <tr><td>&gt; (all)</td><td>Janet Bury</td><td></td><td></td><td>0.41</td></tr> <tr><td></td><td>Gary Dumin</td><td></td><td></td><td>0.40</td></tr> <tr><td></td><td>James Frank</td><td></td><td></td><td>0.23</td></tr> <tr><td></td><td>Lois Wood</td><td></td><td></td><td>0.35</td></tr> <tr><td></td><td>John Minker</td><td></td><td></td><td>0.38</td></tr> <tr><td></td><td>Nancy Miller</td><td></td><td></td><td>0.39</td></tr> <tr><td></td><td>David Carl</td><td></td><td></td><td>0.41</td></tr> <tr><td></td><td>Ed Young</td><td></td><td></td><td>0.39</td></tr> <tr><td></td><td>Kiran Raj</td><td></td><td></td><td>0.40</td></tr> <tr><td></td><td>Gabriel Walton</td><td></td><td></td><td>0.44</td></tr> <tr><td></td><td>Lia Armand</td><td></td><td></td><td>0.33</td></tr> </tbody> </table>	Product	Sales Manager	Account	Order Date	Gross Margin %	> (all)	Janet Bury			0.41		Gary Dumin			0.40		James Frank			0.23		Lois Wood			0.35		John Minker			0.38		Nancy Miller			0.39		David Carl			0.41		Ed Young			0.39		Kiran Raj			0.40		Gabriel Walton			0.44		Lia Armand			0.33																																				
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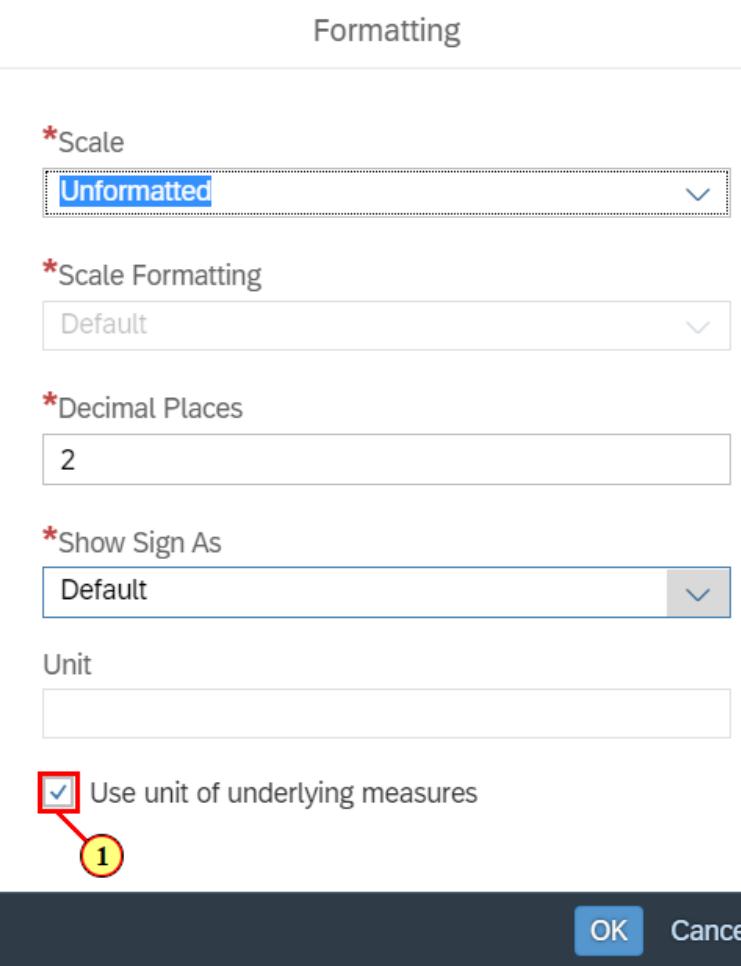
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(1) Click <b>Hide column</b>	 <p>SAC_ORDER_FINANCE.csv</p> <table border="1"> <thead> <tr> <th>Account</th> <th>Gross Margin %</th> </tr> </thead> <tbody> <tr><td>Order Date</td><td></td></tr> <tr><td>Product</td><td>Sales Manager</td></tr> <tr><td>&gt; (all)</td><td>Janet Bury</td></tr> <tr><td></td><td>Gary Dumin</td></tr> <tr><td></td><td>James Frank</td></tr> <tr><td></td><td>Lois Wood</td></tr> <tr><td></td><td>John Minker</td></tr> <tr><td></td><td>Nancy Miller</td></tr> <tr><td></td><td>David Carl</td></tr> <tr><td></td><td>Ed Young</td></tr> <tr><td></td><td>Kiran Raj</td></tr> <tr><td></td><td>Gabriel Walton</td></tr> <tr><td></td><td>Lia Armand</td></tr> </tbody> </table>	Account	Gross Margin %	Order Date		Product	Sales Manager	> (all)	Janet Bury		Gary Dumin		James Frank		Lois Wood		John Minker		Nancy Miller		David Carl		Ed Young		Kiran Raj		Gabriel Walton		Lia Armand
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 <p>Our table should look like this screenshot now. Since our calculation is a percentage, we will now change the formatting of our values to improve our table visualization.</p>	 <p>SAP Analytics Cloud - Google Chrome</p>																												

Explanation	Screenshot
<p>👉 We can easily change the formatting and representation of our measures and calculations in the Builder panel.</p> <p>(1) Click <b>Story Calculations</b></p>	 <p>Builder</p> <p>Data Source <b>SAC_ORDER_FINANCE.csv</b></p> <p>+ Add Linked Models</p> <p>Table Structure</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Responsive / flexible column width</li> <li><input type="checkbox"/> Arrange totals / parent nodes below</li> <li><input type="checkbox"/> Beta table <small>i</small></li> </ul> <p>Rows</p> <ul style="list-style-type: none"> <li>⋮ Product <span style="float: right;">(X)</span></li> <li>⋮ Sales Manager <span style="float: right;">(X)</span></li> </ul> <p>+ Add Measures/Dimensions</p> <p>Columns</p> <ul style="list-style-type: none"> <li>⋮ Account <span style="float: right;">...</span> <span style="float: right;">(X)</span></li> <li>0 Model Members <b>1 Story Calculations</b> <input checked="" type="checkbox"/></li> <li>⋮ Order Date <span style="float: right;">Story Calculations</span></li> </ul> <p>+ Add Measures/Dimensions</p> <p>Filters</p> <ul style="list-style-type: none"> <li>⋮ Account (1) <span style="float: right;">(X)</span></li> <li>Gross Margin %</li> </ul>

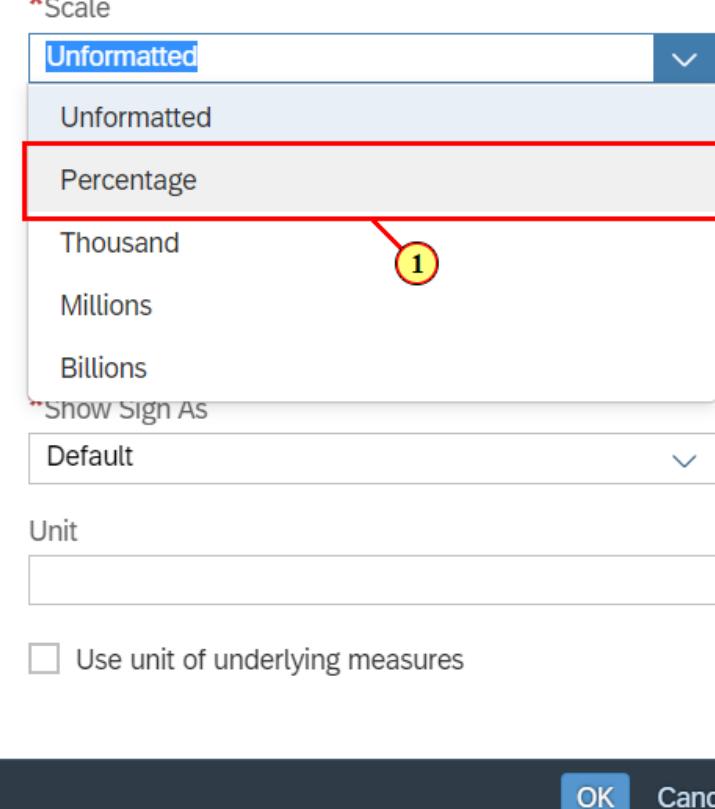
SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Click <b>Formatting</b>	 <p>SAC_ORDER_FINANCE.csv</p> <p>+ Add Linked Models</p> <p>Table Structure</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Responsive / flexible column width</li> <li><input type="checkbox"/> Arrange totals / parent nodes below</li> <li><input type="checkbox"/> Beta table <span style="color: #0070C0;">i</span></li> </ul> <p>Rows</p> <ul style="list-style-type: none"> <li>Product</li> <li>Sales Manager</li> </ul> <p>+ Add Measures/Dimensions</p> <p>Columns</p> <ul style="list-style-type: none"> <li>Account           <ul style="list-style-type: none"> <li>0 Model Members <span style="color: #0070C0;">1 Story Calculations</span></li> </ul> </li> <li>Gross Margin %</li> </ul> <p>+ Add Measures/Dimensions</p> <p>Filters</p> <ul style="list-style-type: none"> <li>Account (1)           <ul style="list-style-type: none"> <li>Gross Margin %</li> </ul> </li> </ul>

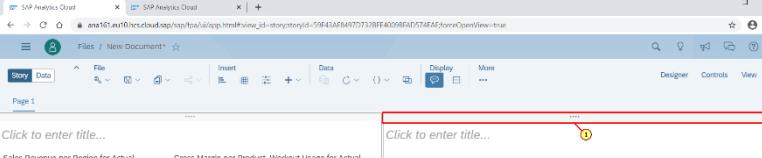
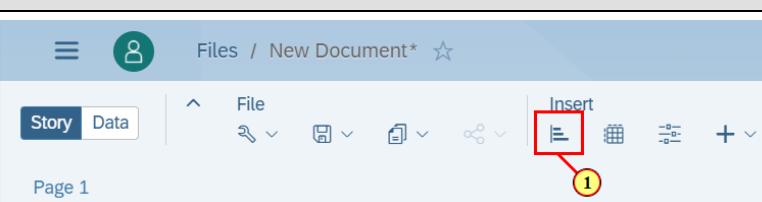
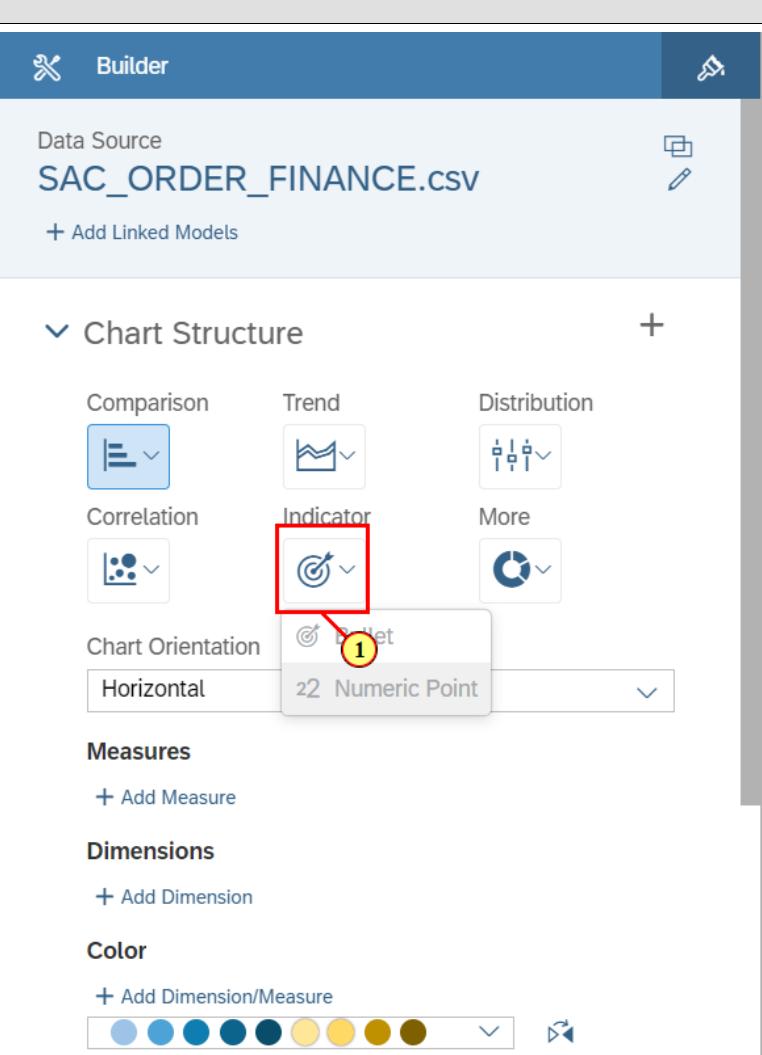
SAP Analytics Cloud - Google Chrome

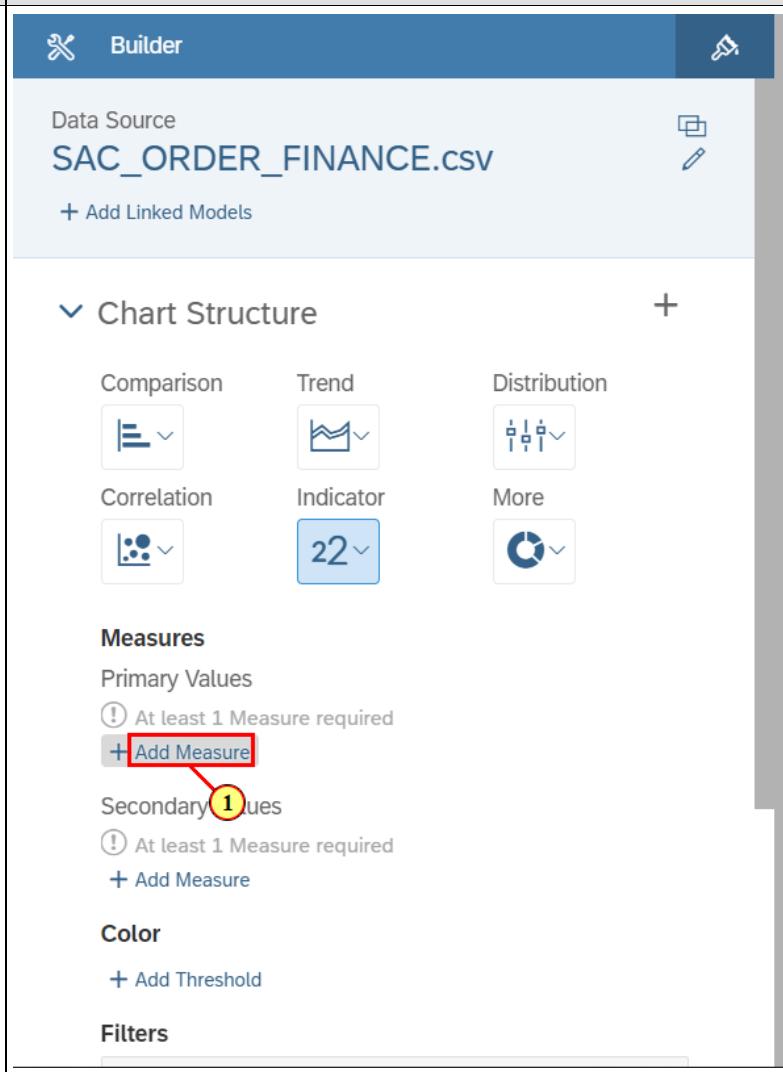
Explanation	Screenshot
(1) Deselect <b>Use unit of underlying measures</b>	 <p>Formatting</p> <p>*Scale Unformatted</p> <p>*Scale Formatting Default</p> <p>*Decimal Places 2</p> <p>*Show Sign As Default</p> <p>Unit</p> <p><input checked="" type="checkbox"/> Use unit of underlying measures 1</p> <p>OK Cancel</p>

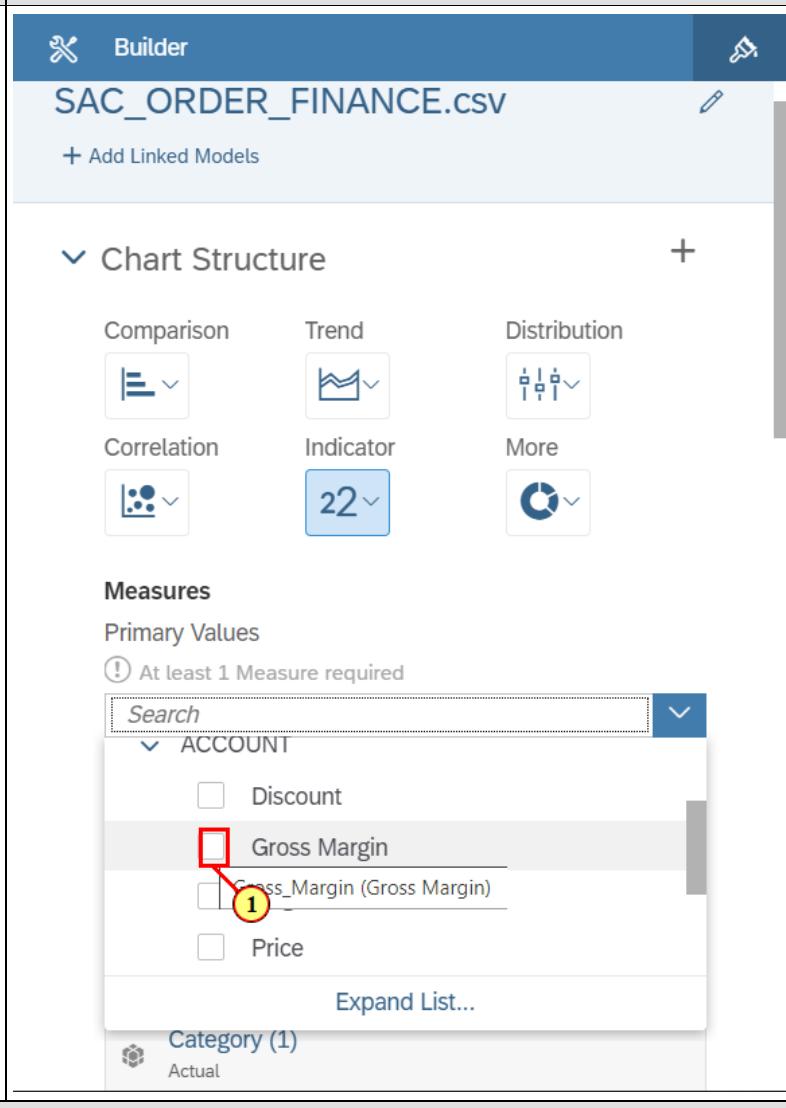
SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Change Scale to <b>Percentage</b>	<p>Formatting</p> <p>*Scale</p> <p>Unformatted</p> <p>Unformatted</p> <p>Percentage</p> <p>Thousand</p> <p>Millions</p> <p>Billions</p> <p>Show Sign As</p> <p>Default</p> <p>Unit</p> <p><input type="checkbox"/> Use unit of underlying measures</p> <p>OK Cancel</p> 

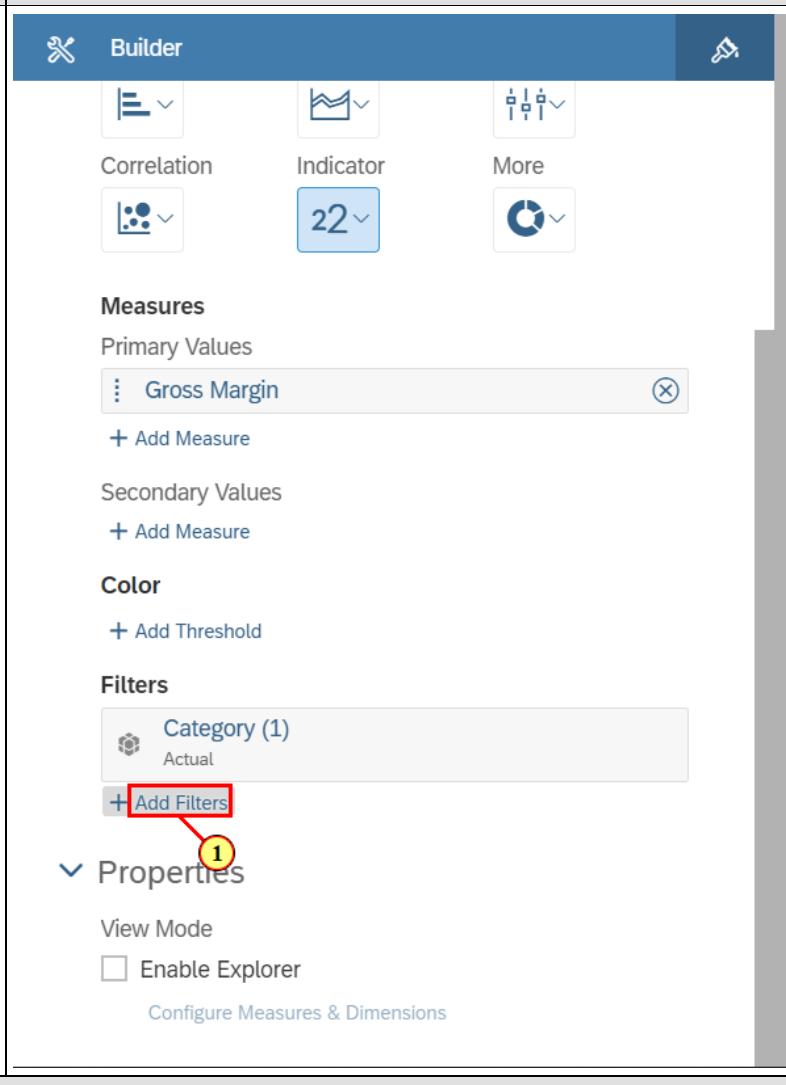
Explanation	Screenshot																																																																	
<p>(1) Change Decimal Places to 0  (2) Click <b>OK</b></p>	<p>Formatting</p> <p>*Scale Percentage</p> <p>*Scale Formatting Default</p> <p>*Decimal Places 0</p> <p>*Show Sign As Default</p> <p>Unit %</p> <p><input type="checkbox"/> Use unit of underlying measures</p> <p><b>OK</b> <b>Cancel</b></p>																																																																	
<p><b>⚠</b> Quality Check! Does our table look like this screenshot?</p>	<p>SAC_ORDER_FINANCE.csv in %      <b>Hidden</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Product</th> <th rowspan="2">Sales Manager</th> <th>Account</th> <th colspan="3">Gross Margin %</th> </tr> <tr> <th>Order Date</th> <th>&gt; 2018</th> <th>&gt; 2019</th> <th>&gt; 2020</th> </tr> </thead> <tbody> <tr> <td>&gt; (all)</td> <td>Janet Bury</td> <td>40</td> <td>41</td> <td>44</td> </tr> <tr> <td></td> <td>Gary Dumin</td> <td>38</td> <td>39</td> <td>42</td> </tr> <tr> <td></td> <td>James Frank</td> <td>21</td> <td>22</td> <td>26</td> </tr> <tr> <td></td> <td>Lois Wood</td> <td>33</td> <td>34</td> <td>37</td> </tr> <tr> <td></td> <td>John Minker</td> <td>35</td> <td>38</td> <td>40</td> </tr> <tr> <td></td> <td>Nancy Miller</td> <td>39</td> <td>38</td> <td>41</td> </tr> <tr> <td></td> <td>David Carl</td> <td>39</td> <td>39</td> <td>44</td> </tr> <tr> <td></td> <td>Ed Young</td> <td>36</td> <td>37</td> <td>44</td> </tr> <tr> <td></td> <td>Kiran Raj</td> <td>39</td> <td>39</td> <td>43</td> </tr> <tr> <td></td> <td>Gabriel Walton</td> <td>42</td> <td>43</td> <td>46</td> </tr> <tr> <td></td> <td>Lia Armand</td> <td>31</td> <td>32</td> <td>35</td> </tr> </tbody> </table>	Product	Sales Manager	Account	Gross Margin %			Order Date	> 2018	> 2019	> 2020	> (all)	Janet Bury	40	41	44		Gary Dumin	38	39	42		James Frank	21	22	26		Lois Wood	33	34	37		John Minker	35	38	40		Nancy Miller	39	38	41		David Carl	39	39	44		Ed Young	36	37	44		Kiran Raj	39	39	43		Gabriel Walton	42	43	46		Lia Armand	31	32	35
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Explanation	Screenshot
(1) We can easily change the layout of our story page. Drag the <b>Right Lane</b> to the <b>Top</b>	
SAP Analytics Cloud - Google Chrome  Since this lane is in the top of our dashboard, let's add some easily viewable KPIs to highlight in our story.  (1) Click <b>Insert Chart</b>	
(1) Click <b>Target</b> and Select <b>Numeric Point Chart</b> (greyed out)	
SAP Analytics Cloud - Google Chrome	

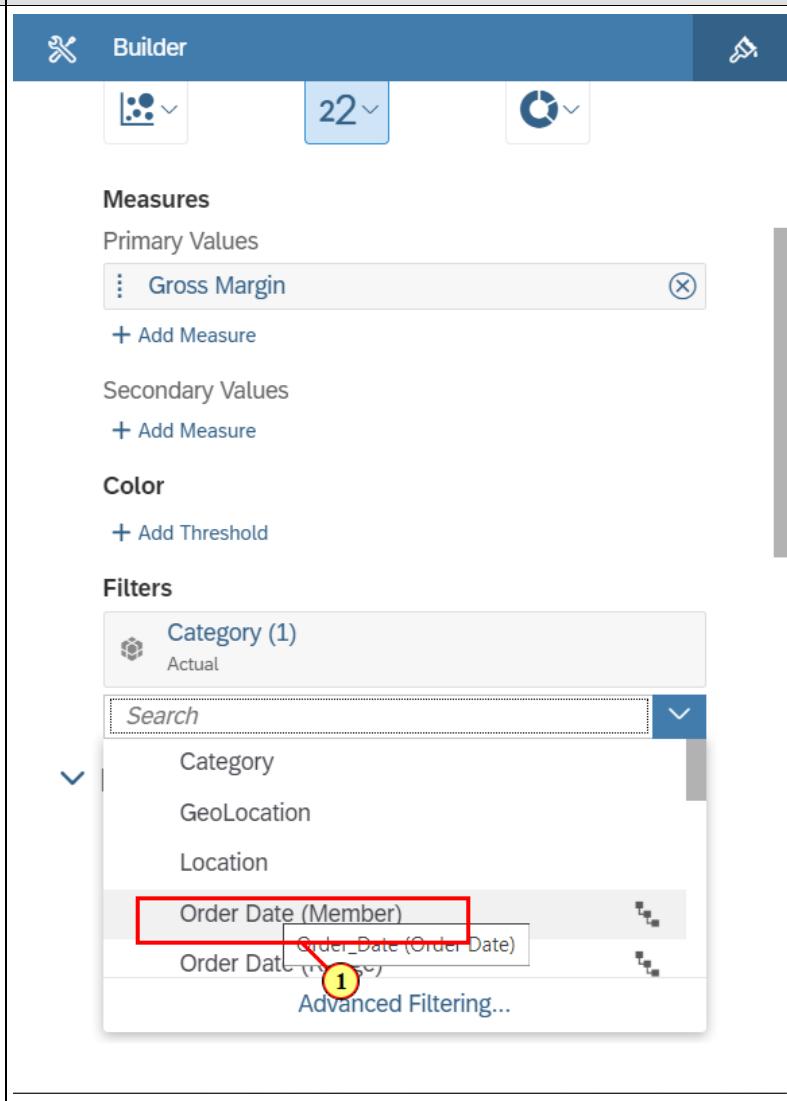
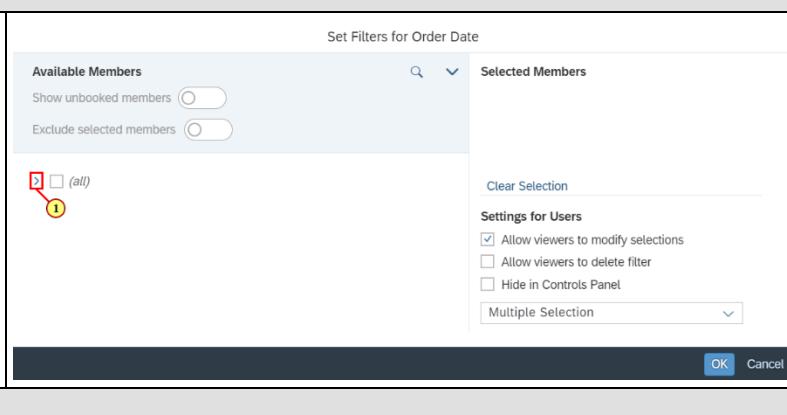
Explanation	Screenshot
(1) Click <b>Add Measure</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below this, the "Chart Structure" section is expanded, showing categories like Comparison, Trend, Distribution, Correlation, Indicator, and More. Under the "Measures" section, there are two main sections: "Primary Values" and "Secondary Values". The "Primary Values" section has a warning message: "At least 1 Measure required" and a button "+ Add Measure" which is highlighted with a red box and a yellow circle containing the number 1. The "Secondary Values" section also has a similar warning and a "+ Add Measure" button. Other sections visible include "Color" (with a "+ Add Threshold" button) and "Filters".</p>

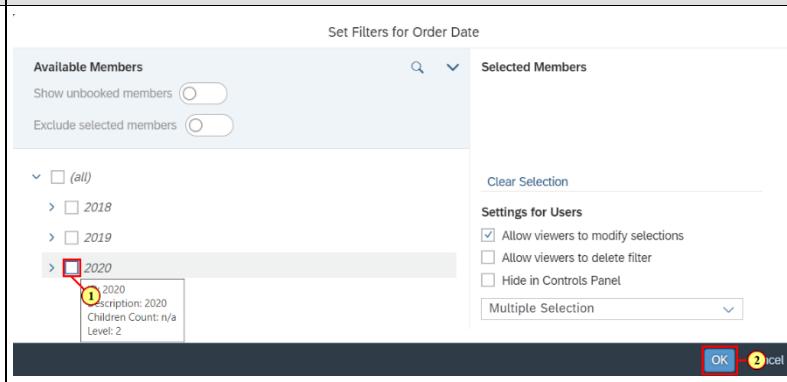
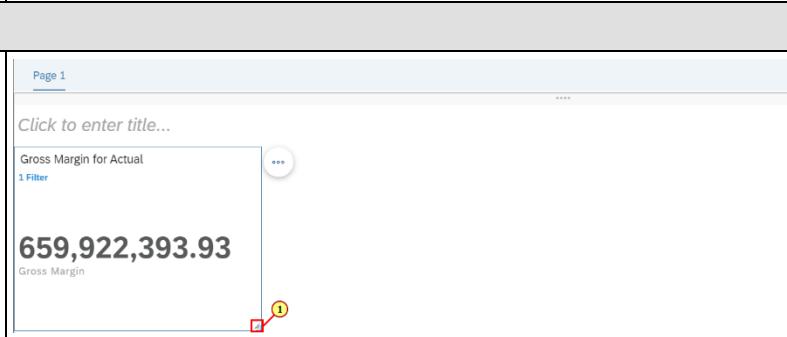
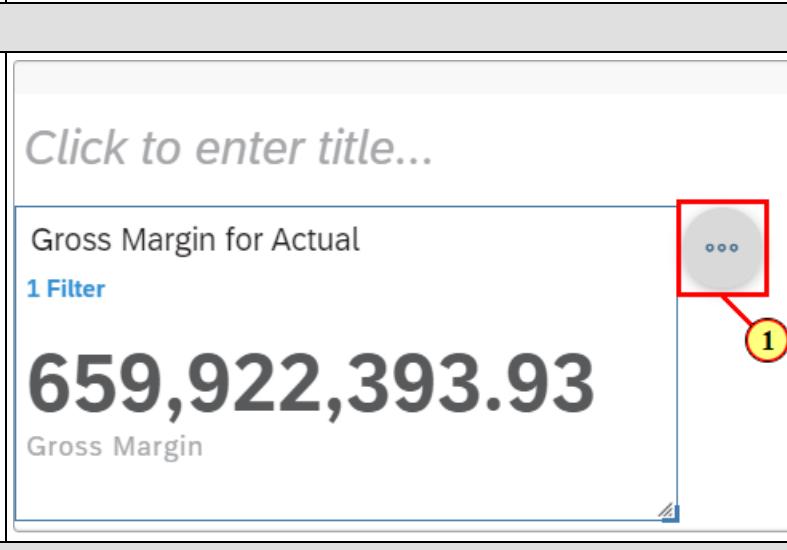
Explanation	Screenshot
<p>👉 Let's use Gross Margin as our first KPI.</p> <p>(1) Click <b>Gross Margin</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the top navigation bar, there is a 'Builder' icon and a file name 'SAC_ORDER_FINANCE.csv'. Below the navigation, there is a button '+ Add Linked Models'. Under the heading 'Chart Structure', there are six categories: 'Comparison' (bar chart icon), 'Trend' (line chart icon), 'Distribution' (histogram icon), 'Correlation' (scatter plot icon), 'Indicator' (dial gauge icon with the value '22'), and 'More' (circular arrow icon). Below these categories, the 'Measures' section is expanded. It starts with 'Primary Values' and a note 'At least 1 Measure required'. A search bar is present. The 'ACCOUNT' category is selected, showing three options: 'Discount', 'Gross Margin', and 'Price'. The 'Gross Margin' option is highlighted with a red box and a yellow circle containing the number '1', indicating it is the target for the first step. An 'Expand List...' button is also visible. At the bottom of the list, there is a 'Category (1)' section with 'Actual'.</p>

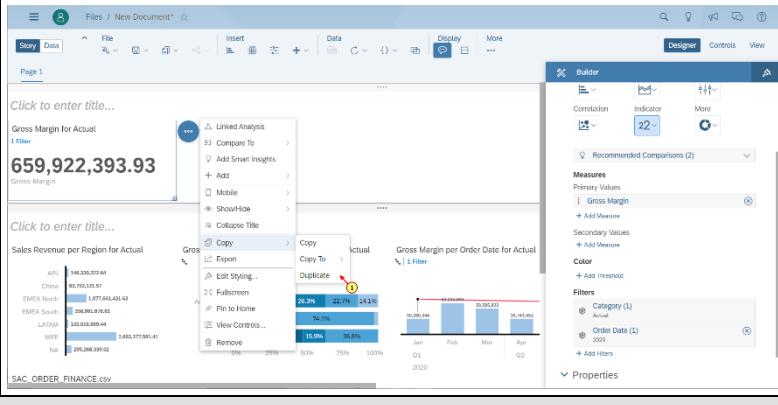
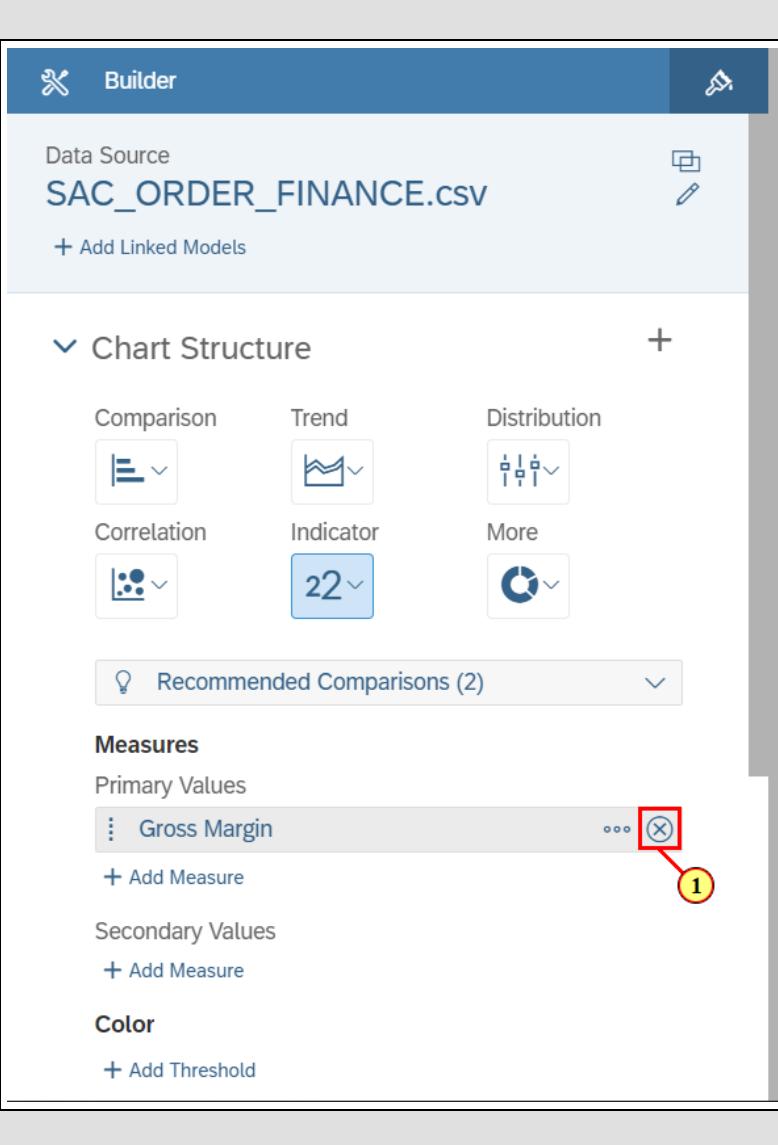
SAP Analytics Cloud - Google Chrome

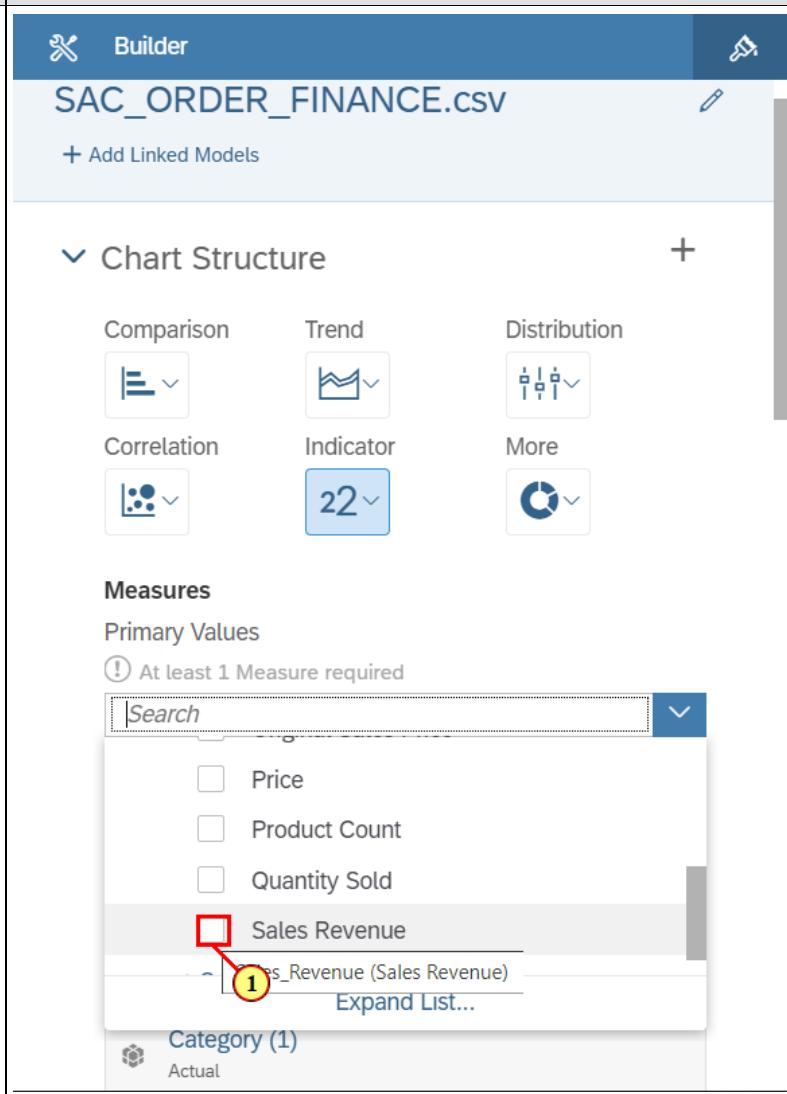
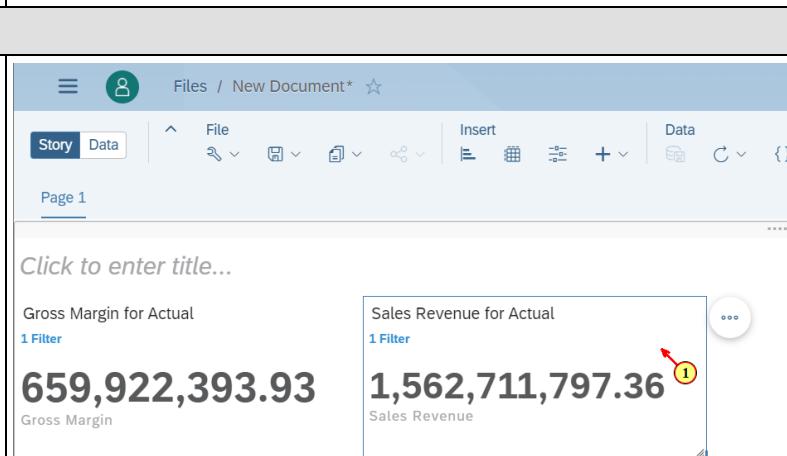
Explanation	Screenshot
<p>👉 We should add a date filter on our KPI so the context is relevant to a business user.</p> <p>(1) Click <b>Add Filters</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, there are three main categories: Correlation, Indicator, and More. Below these, the 'Measures' section is open, showing 'Primary Values' with 'Gross Margin' selected. There are buttons for '+ Add Measure' and '+ Add Secondary Value'. Under 'Color', there is a '+ Add Threshold' button. The 'Filters' section is expanded, showing a category 'Category (1)' with 'Actual' selected. A red box highlights the '+ Add Filters' button, which is circled with a yellow number 1. Below the filters, there is a 'Properties' section with 'View Mode' and 'Enable Explorer' options, and a link to 'Configure Measures &amp; Dimensions'.</p>

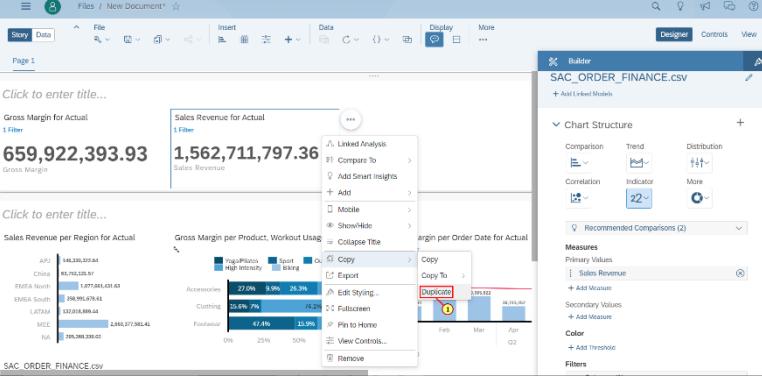
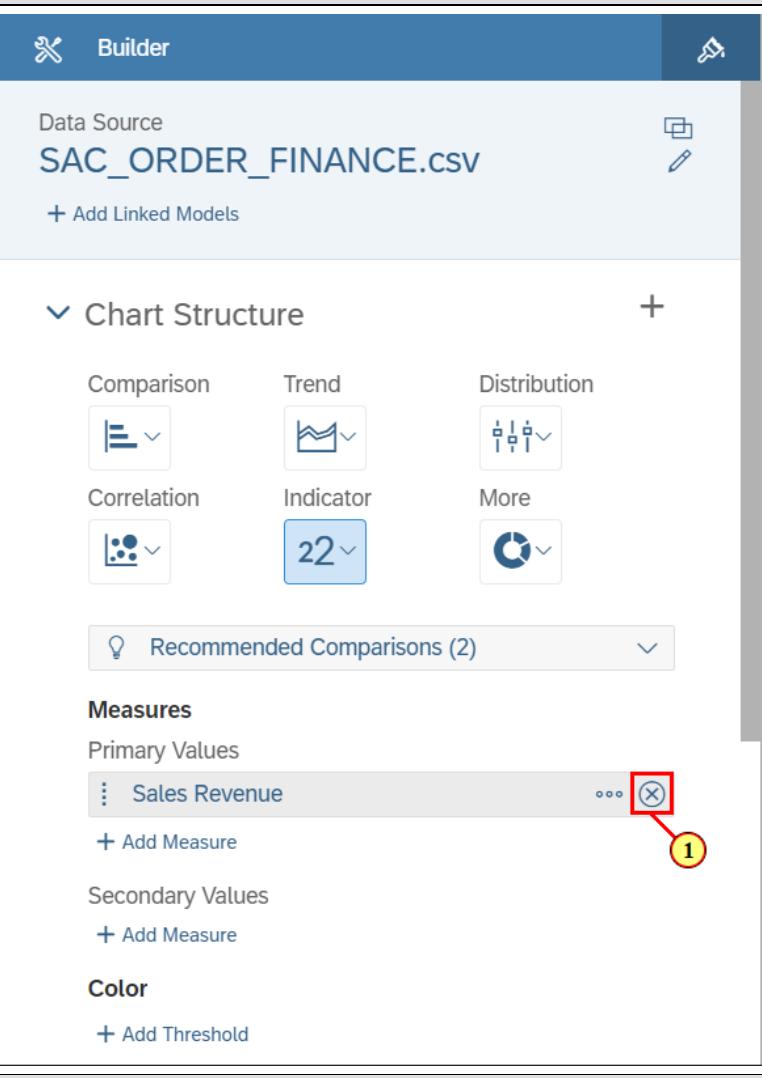
SAP Analytics Cloud - Google Chrome

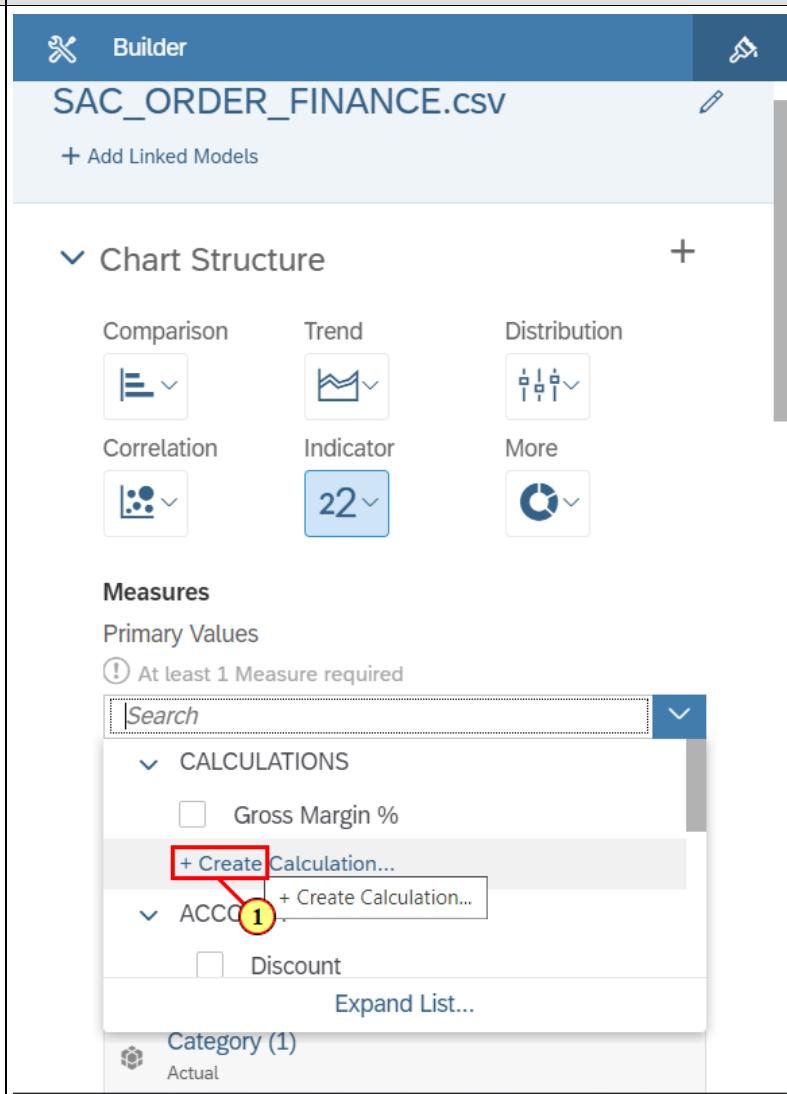
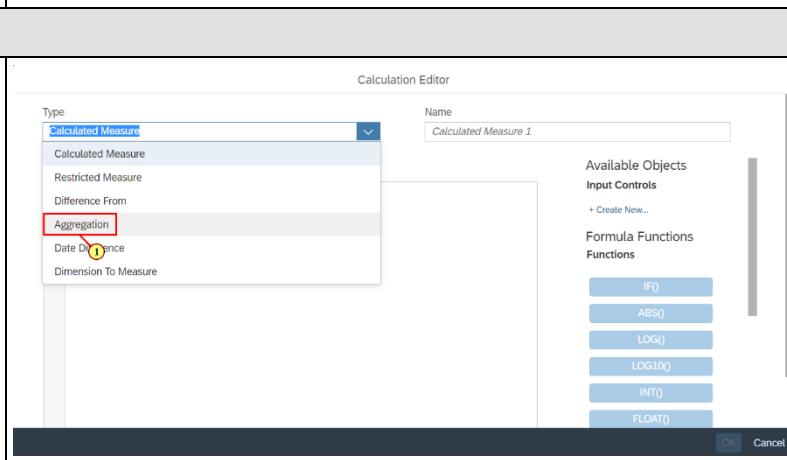
Explanation	Screenshot
(1) Click Order Date (Member)	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Measures' section, 'Gross Margin' is selected. In the 'Filters' section, a dropdown menu is open under 'Category', showing options like 'Category', 'GeoLocation', and 'Location'. The 'Order Date (Member)' option is highlighted with a red box and circled with a yellow marker.</p>
SAP Analytics Cloud - Google Chrome	
(1) Expand All by clicking >	 <p>The screenshot shows a 'Set Filters for Order Date' dialog. It has sections for 'Available Members' (with options to show unbooked members or exclude selected members) and 'Selected Members'. At the bottom, there are 'Settings for Users' checkboxes for allowing modifications, deletions, hiding in controls panel, and multiple selection. A red box highlights the 'All' button in the 'Available Members' section, which is circled with a yellow marker.</p>

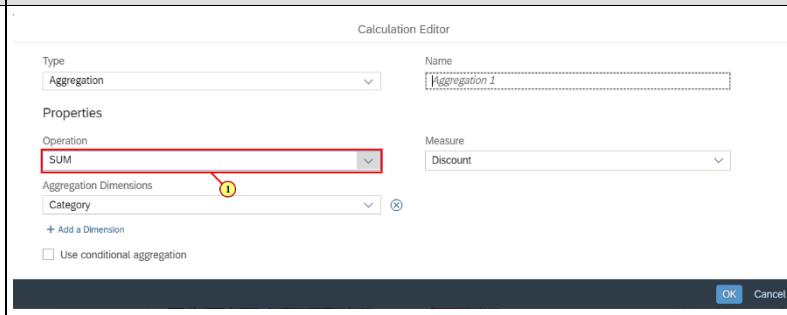
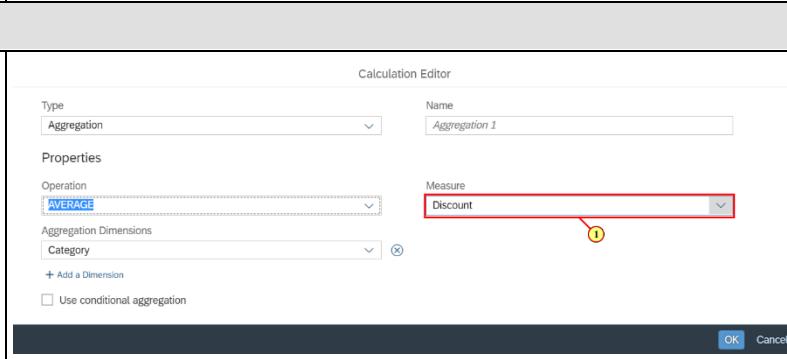
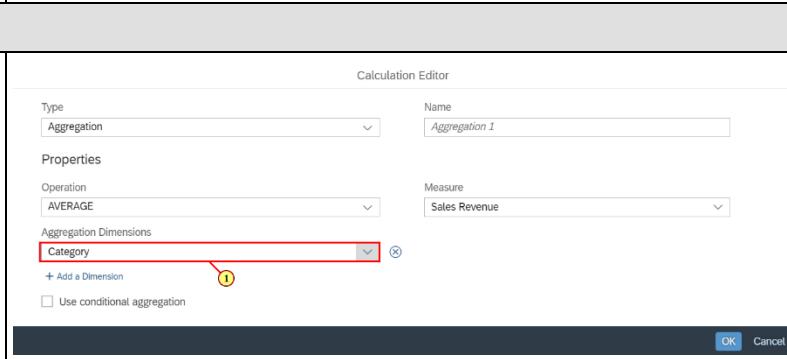
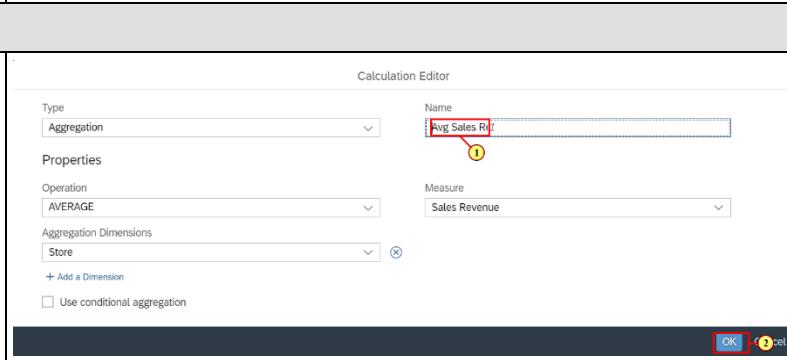
Explanation	Screenshot
<p>(1) Click <b>2020</b>  (2) Click <b>OK</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p> You have now created a numeric point chart that displays Gross Margin filtered for only data in 2020.</p> <p>(1) Resize the numeric point chart.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>More</b> to open Context Menu</p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

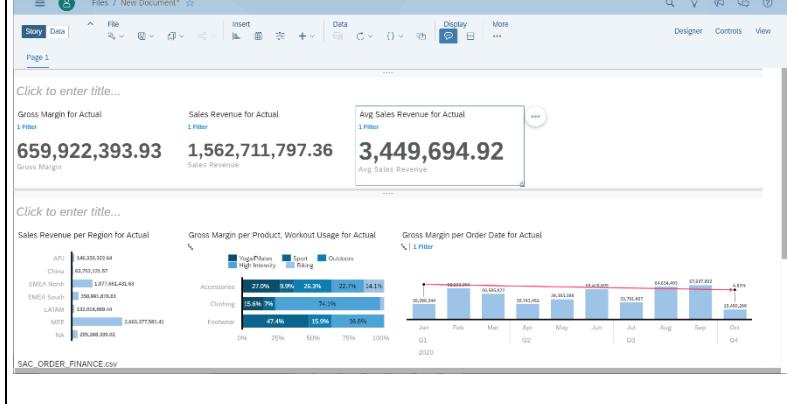
Explanation	Screenshot
<p>(1) Click on <b>Copy</b> then click <b>Duplicate</b></p>	 <p>The screenshot shows a context menu for a chart titled "Gross Margin for Actual". The "Copy" option is highlighted with a yellow circle. Below it, the "Duplicate" option is also highlighted with a yellow circle.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 We want to create a new KPI of Sales Revenue like our first chart of Gross Margins. By duplicating the chart, our previously applied date filter will be automatically applied to our new KPI.</p> <p>(1) Close the Gross Margin measure for your new chart by clicking on <b>Close</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the "Measures" section, the "Primary Values" list contains "Gross Margin". A red box highlights the "X" button next to "Gross Margin", and a yellow circle with the number "1" is placed near the bottom right corner of the interface.</p>

Explanation	Screenshot
(1) Add <b>Sales Revenue</b> as a measure.	 <p><b>Measures</b></p> <p>Primary Values</p> <p>! At least 1 Measure required</p> <p>Search</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Price</li> <li><input type="checkbox"/> Product Count</li> <li><input type="checkbox"/> Quantity Sold</li> <li><input checked="" type="checkbox"/> Sales Revenue</li> </ul> <p>1 Sales_Revenue (Sales Revenue)</p> <p>Expand List...</p> <p>Category (1) Actual</p>
(1) Right-clicking on chart with the mouse opens a shortcut menu.	 <p>Click to enter title...</p> <p>Gross Margin for Actual 1 Filter</p> <p><b>659,922,393.93</b> Gross Margin</p> <p>Sales Revenue for Actual 1 Filter</p> <p><b>1,562,711,797.36</b> Sales Revenue</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>(1) Duplicate the Sales Revenue Numeric Point Chart</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 Let's build a calculation for our final KPI. We should look at average sales revenue by store.</p> <p>(1) Remove Sales Revenue as a Measure.</p>	

Explanation	Screenshot
(1) Click <b>Create Calculation</b> in Add Measure	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are categories like Comparison, Trend, Distribution, Correlation, Indicator, and More. Below this, the 'Measures' section is expanded, showing 'Primary Values' with a note that at least one measure is required. Under 'CALCULATIONS', there is a checkbox for 'Gross Margin %'. Below it, a red box highlights the '+ Create Calculation...' button, which is circled in yellow with the number '1'. Other options shown include 'Discount' and 'Expand List...'. At the bottom, there is a 'Category (1)' section with 'Actual' selected.</p>
(1) Select <b>Aggregation</b> as Calculation Type	 <p>The screenshot shows the 'Calculation Editor' dialog box. The 'Type' dropdown is set to 'Calculated Measure'. The 'Name' field is empty. The 'Available Objects' section includes 'Input Controls' with '+ Create New...' and 'Formula Functions Functions' with buttons for IF(), ABS(), LOG(), LOG10(), INT(), and FLOAT(). A red box highlights the 'Aggregation' option in the 'Type' dropdown, which is circled in yellow with the number '1'.</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Change <b>SUM</b> to <b>AVERAGE</b>	 <p>Calculation Editor</p> <p>Type: Aggregation</p> <p>Name: Aggregation 1</p> <p>Properties</p> <p>Operation: SUM (highlighted with a red box)</p> <p>Measure: Discount</p> <p>Aggregation Dimensions: Category</p> <p>+ Add a Dimension</p> <p><input type="checkbox"/> Use conditional aggregation</p> <p>OK Cancel</p>
SAP Analytics Cloud - Google Chrome	 <p>Calculation Editor</p> <p>Type: Aggregation</p> <p>Name: Aggregation 1</p> <p>Properties</p> <p>Operation: AVERAGE (highlighted with a red box)</p> <p>Measure: Discount (highlighted with a red box)</p> <p>Aggregation Dimensions: Category</p> <p>+ Add a Dimension</p> <p><input type="checkbox"/> Use conditional aggregation</p> <p>OK Cancel</p>
SAP Analytics Cloud - Google Chrome	 <p>Calculation Editor</p> <p>Type: Aggregation</p> <p>Name: Aggregation 1</p> <p>Properties</p> <p>Operation: AVERAGE</p> <p>Measure: Sales Revenue</p> <p>Aggregation Dimensions: Category (highlighted with a red box)</p> <p>+ Add a Dimension</p> <p><input type="checkbox"/> Use conditional aggregation</p> <p>OK Cancel</p>
(1) Name your new calculation <b>Avg Sales Revenue</b> (2) Click <b>OK</b>	 <p>Calculation Editor</p> <p>Type: Aggregation</p> <p>Name: Avg Sales Rev (highlighted with a red box)</p> <p>Properties</p> <p>Operation: AVERAGE</p> <p>Measure: Sales Revenue</p> <p>Aggregation Dimensions: Store</p> <p>+ Add a Dimension</p> <p><input type="checkbox"/> Use conditional aggregation</p> <p>OK Cancel (highlighted with a red box)</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot																																																														
<p> Quality Check! Do your numeric point charts have these values and measures on your story?</p>																																																															
<p> You have completed <b>Creating Your First Story!</b></p> <p>In this section, we have covered navigating through the SAC interface to acquire data, using Explorer to quickly create visualizations from model dimensions and measures, building various charts and tables using the Builder Panel and date filters, creating new measures with the Calculation Editor, and best practices using the Context Menu.</p>	 <p>The screenshot displays three charts in the SAC interface:</p> <ul style="list-style-type: none"> <li><b>Sales Revenue per Region for Actual:</b> <table border="1"> <thead> <tr> <th>Region</th> <th>Sales Revenue</th> </tr> </thead> <tbody> <tr><td>APJ</td><td>1,643,813,321.64</td></tr> <tr><td>China</td><td>63,703,553.57</td></tr> <tr><td>EMEA North</td><td>1,697,454,451.89</td></tr> <tr><td>EMEA South</td><td>1,048,476,476.01</td></tr> <tr><td>LATAM</td><td>132,018,858.44</td></tr> <tr><td>MTE</td><td>2,843,377,581.41</td></tr> <tr><td>NA</td><td>2,093,399,391.02</td></tr> </tbody> </table> </li> <li><b>Gross Margin per Product, Workout Usage for Actual:</b> <table border="1"> <thead> <tr> <th>Category</th> <th>YogaPhones</th> <th>High Intensity</th> <th>Sport</th> <th>Outdoors</th> <th>Total</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>77.0%</td><td>9.0%</td><td>25.2%</td><td>22.7%</td><td>14.1%</td></tr> <tr><td>Clothing</td><td>24.6%</td><td>79.1%</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>15.0%</td><td>38.0%</td><td>—</td><td>—</td></tr> </tbody> </table> </li> <li><b>Gross Margin per Order Date for Actual:</b> <table border="1"> <thead> <tr> <th>Date</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>Jan Q1</td><td>30,390,846</td></tr> <tr><td>Feb</td><td>33,315,094</td></tr> <tr><td>Mar</td><td>34,124,027</td></tr> <tr><td>Apr G2</td><td>38,743,462</td></tr> <tr><td>May</td><td>38,343,184</td></tr> <tr><td>Jun</td><td>33,429,077</td></tr> <tr><td>Jul Q3</td><td>33,761,857</td></tr> <tr><td>Aug</td><td>34,624,493</td></tr> <tr><td>Sep</td><td>47,137,812</td></tr> <tr><td>Oct Q4</td><td>31,480,360</td></tr> </tbody> </table> </li> </ul>	Region	Sales Revenue	APJ	1,643,813,321.64	China	63,703,553.57	EMEA North	1,697,454,451.89	EMEA South	1,048,476,476.01	LATAM	132,018,858.44	MTE	2,843,377,581.41	NA	2,093,399,391.02	Category	YogaPhones	High Intensity	Sport	Outdoors	Total	Accessories	77.0%	9.0%	25.2%	22.7%	14.1%	Clothing	24.6%	79.1%	—	—	—	Footwear	47.4%	15.0%	38.0%	—	—	Date	Gross Margin	Jan Q1	30,390,846	Feb	33,315,094	Mar	34,124,027	Apr G2	38,743,462	May	38,343,184	Jun	33,429,077	Jul Q3	33,761,857	Aug	34,624,493	Sep	47,137,812	Oct Q4	31,480,360
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## Summary

You have completed the entire Create Your First Story section!

### You are now able to:

- Interact with Explorer to Create Dynamic Visualizations
- Copy and Paste Widgets from Explorer to Existing Pages
- Understand the Basics between the Builder Panel
- Create a variety of different charts from different models

# Linked Analysis and Input Controls



This section builds on top of another section. If you did not complete the previous section, [please open](#)



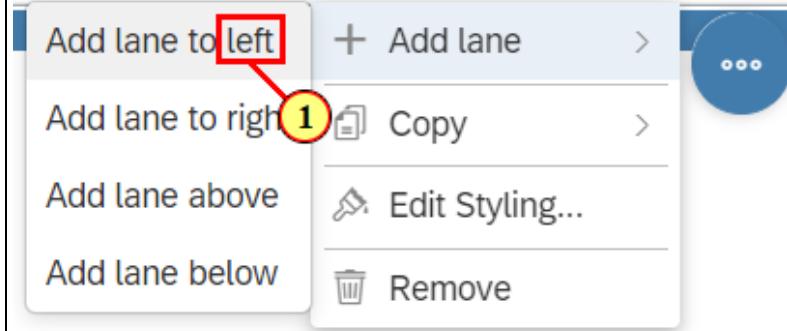
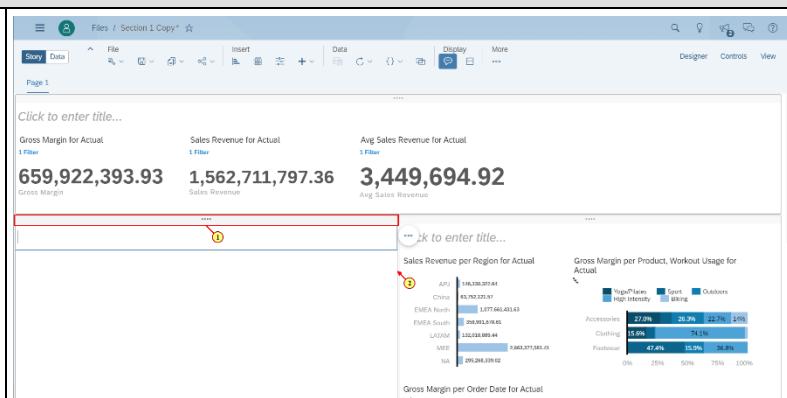
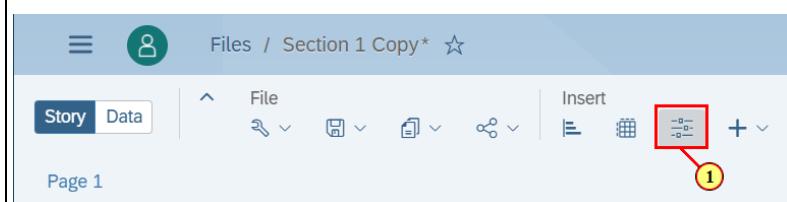
**Objective:** Develop a basic understanding on how to make a dashboard more dynamic for your viewers.

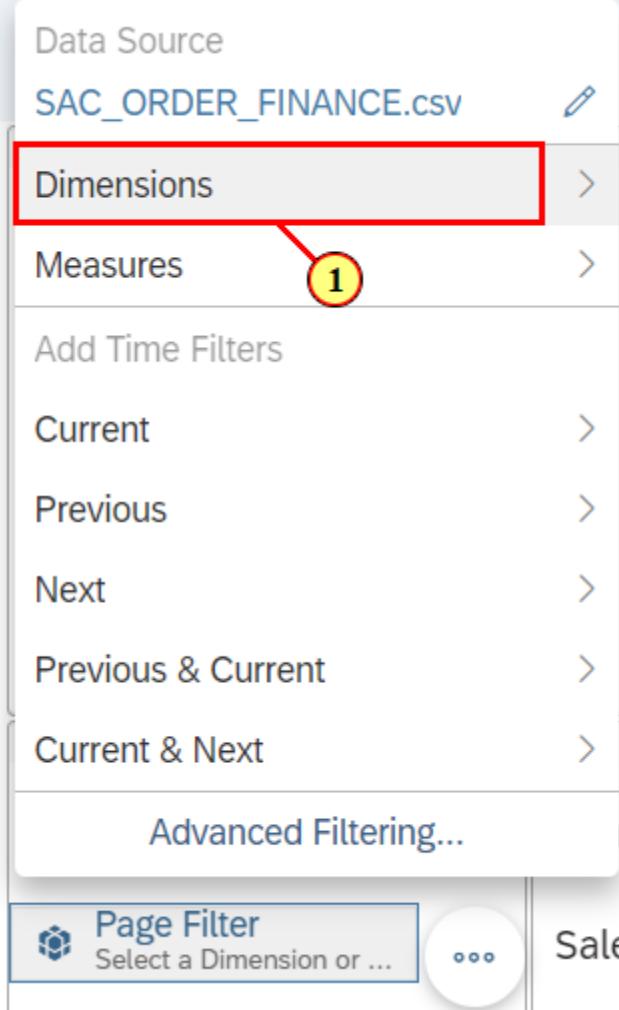
**Exercise Description:** In the last section, we found some insights and created a few visualizations, but our dashboard is not interactive at all. In this section, we want to add some interactivity to the dashboard.

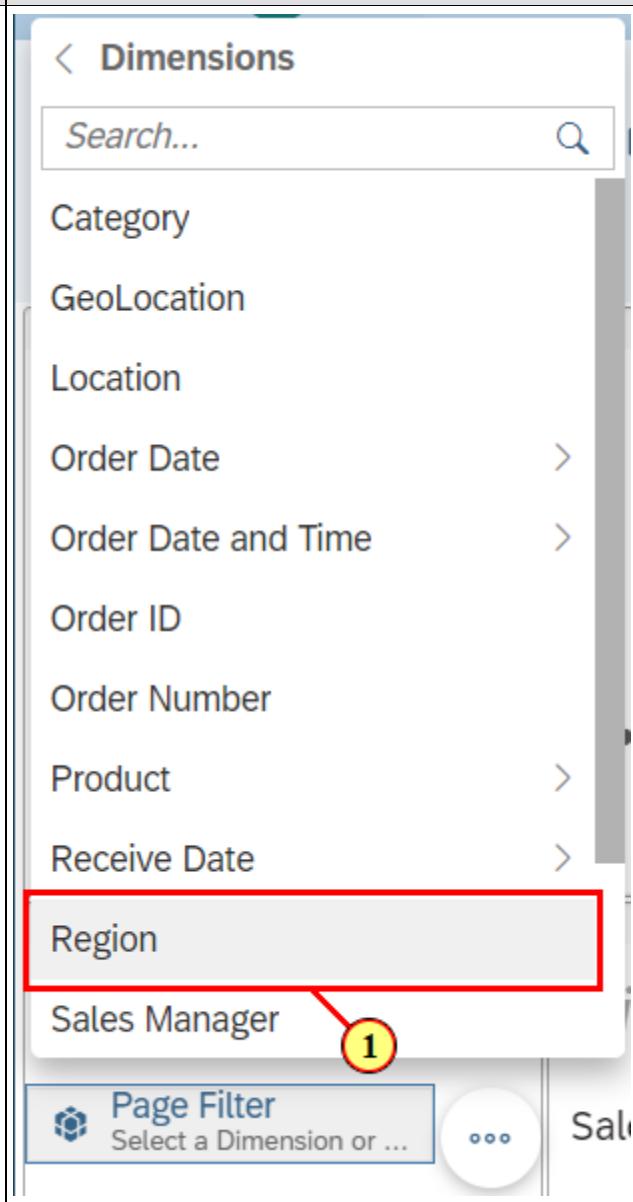
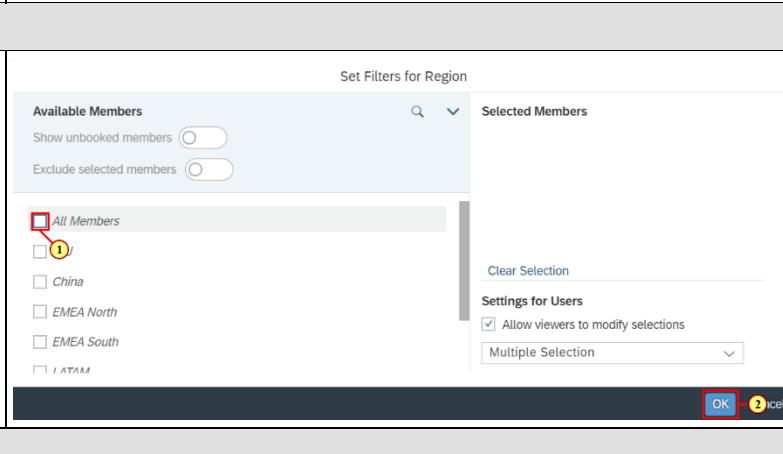
## Key Features:

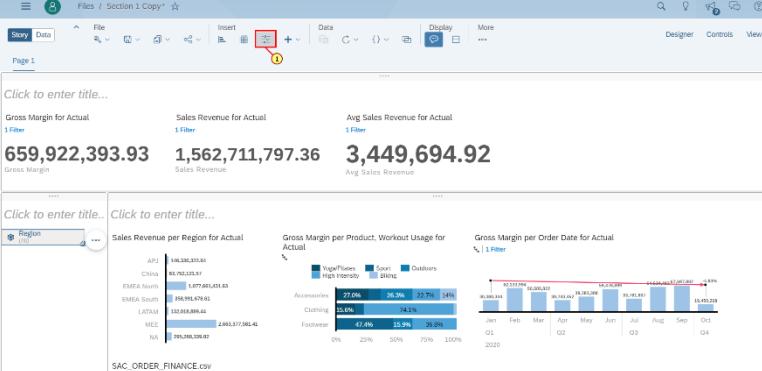
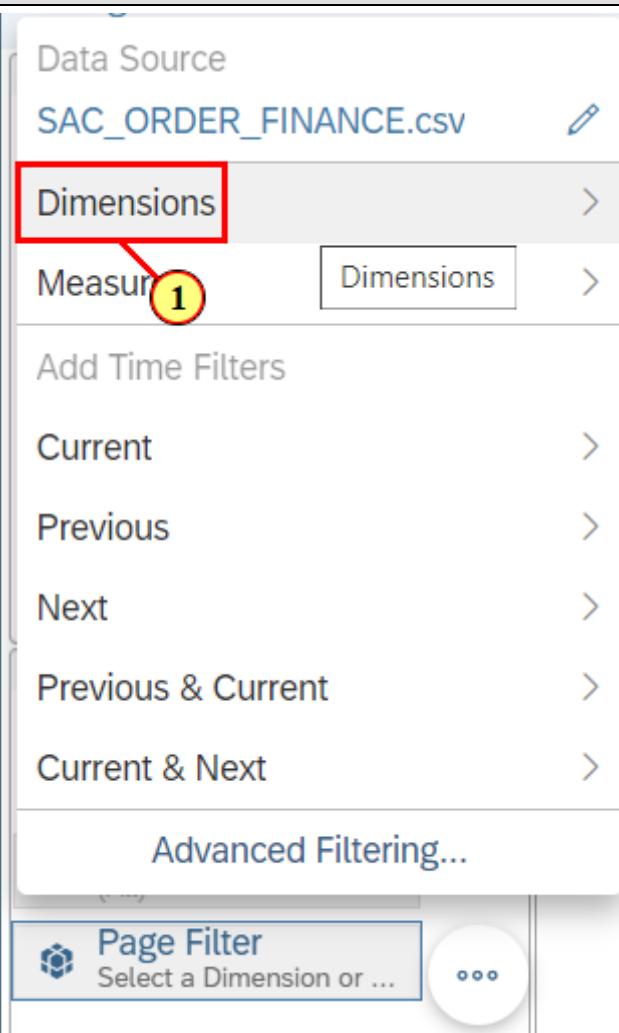
- Learn about Page Filters and how to apply them to a subset of widgets only
- Understand how to add a measure and dimension input control
- Understand how to set up linked analysis to drive filters via widget interaction

Explanation	Screenshot
<b>SAP Analytics Cloud - Google Chrome</b>	
In this section we will explore the tools offered on SAP Analytics Cloud to make a dashboard more dynamic for your viewers and to add interactivity to the story.	
<b>SAP Analytics Cloud - Google Chrome</b>	

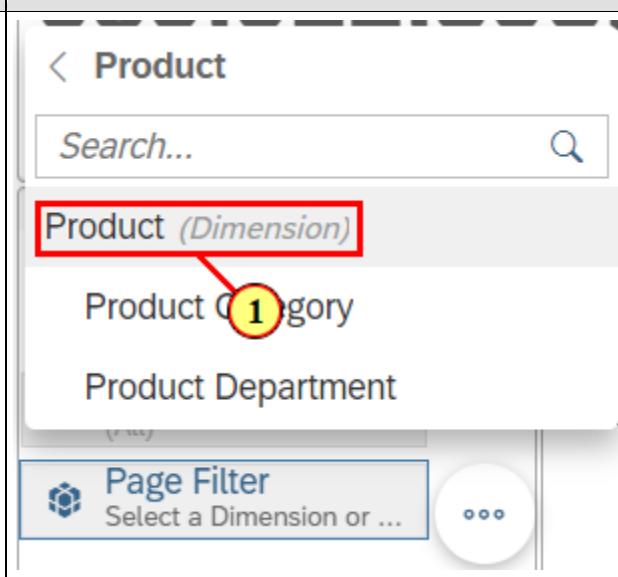
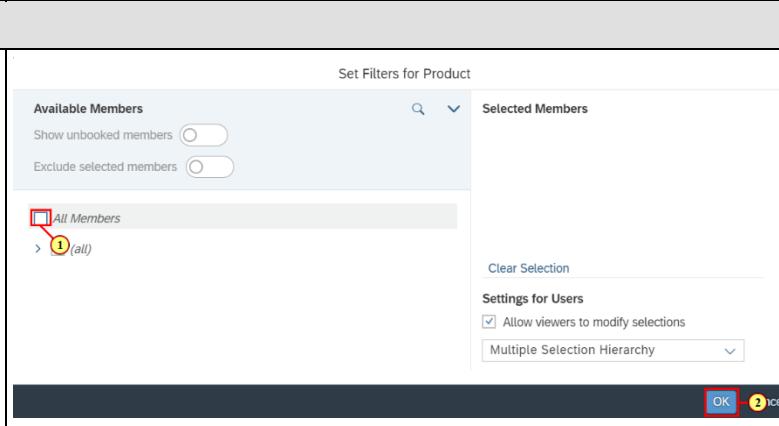
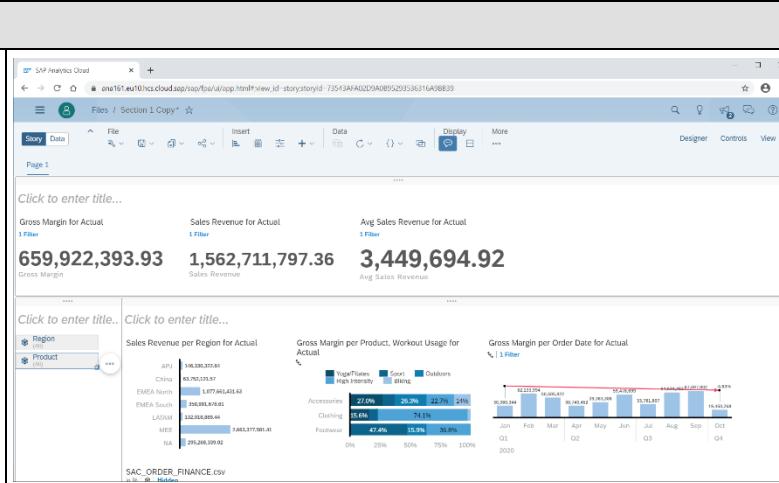
Explanation	Screenshot
(1) Click <b>Add lane to left</b>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>We added a lane to our story but it is too big for our needs, let's resize it to be more friendly for the end user.</p> <p>(1) Click <b>Header</b> of new left lane            (2) Click and drag lane to resize</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>The first tool we will add to our story are page filter input controls. These allow viewers to easily change the dimensions driving the data in our visualizations on the page.</p> <p>(1) Click <b>Insert Input Control</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

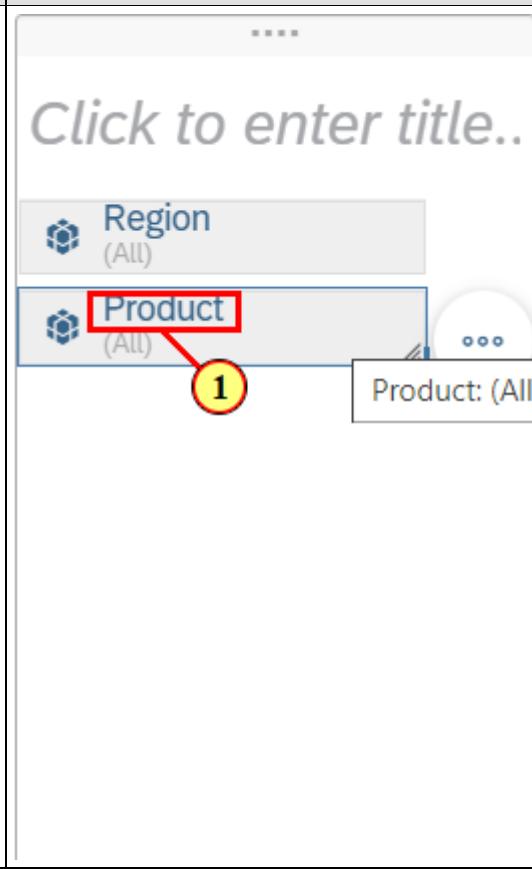
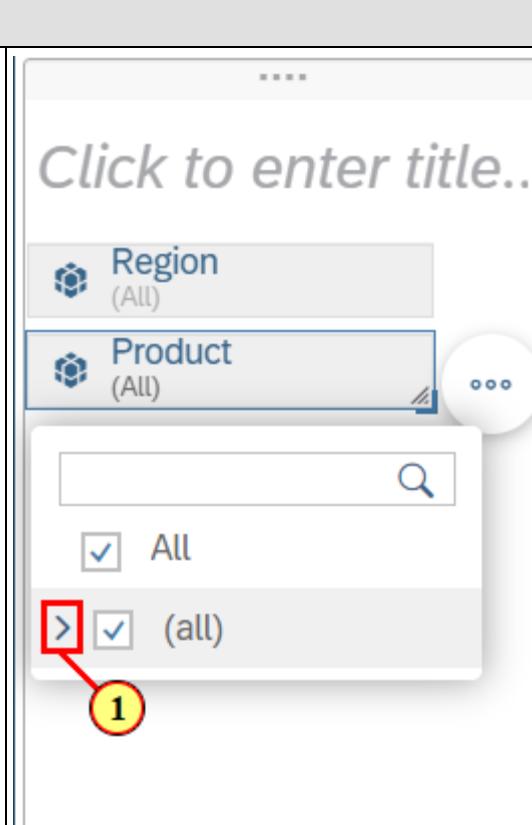
Explanation	Screenshot
(1) Click <b>Dimensions</b>	 <p>The screenshot shows a dropdown menu from a 'Data Source' card. The card displays 'SAC_ORDER_FINANCE.csv'. The menu includes options for 'Dimensions' (highlighted with a red box), 'Measures' (circled with a yellow circle containing the number 1), and various time filter options: 'Current', 'Previous', 'Next', 'Previous &amp; Current', and 'Current &amp; Next'. Below the menu is a 'Page Filter' button with the placeholder 'Select a Dimension or ...'. To the right of the card, there is a 'Sale' indicator.</p>

Explanation	Screenshot
(1) Click <b>Region</b>	 <p>The screenshot shows the SAP Analytics Cloud Dimensions dialog. The 'Region' dimension is highlighted with a red box. A yellow circle with the number '1' points to the 'Sales Manager' button at the bottom of the list.</p>
SAP Analytics Cloud - Google Chrome (1) Click <b>All Members</b> (2) Click <b>OK</b>	 <p>The screenshot shows the 'Set Filters for Region' dialog. The 'Available Members' section is shown, with 'All Members' selected (highlighted with a red box). A yellow circle with the number '1' points to the 'OK' button at the bottom right. The 'Selected Members' section is empty.</p>

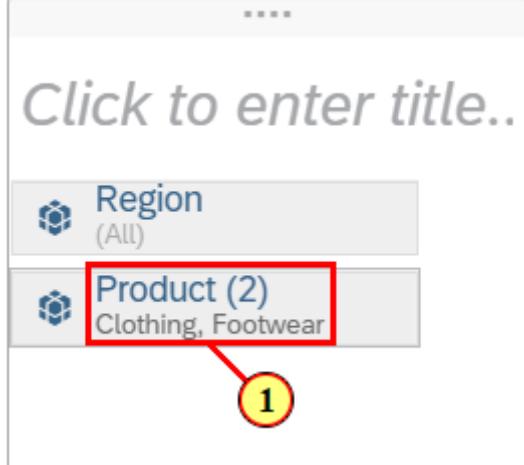
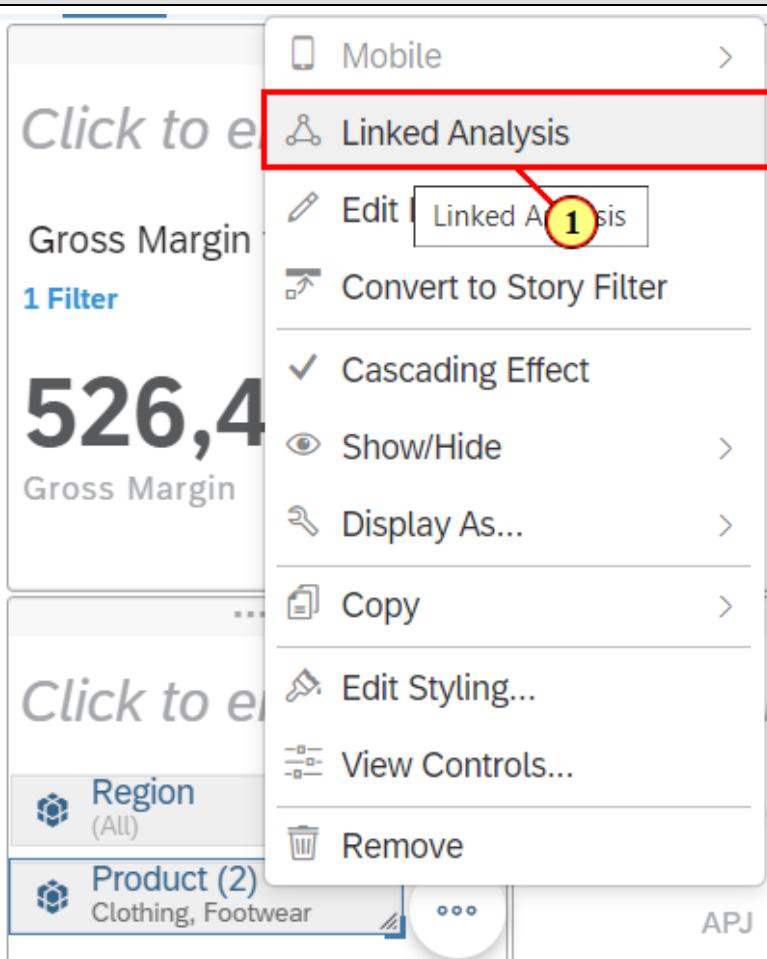
Explanation	Screenshot
<p>👉 You have just made a Page Filter Input Control for Region. By changing this page input filter, end users can decide which regions they want included in the aggregate data for this page. Let's make another Page Filter for Product.</p> <p>(1) Click <b>Insert Input Control</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Dimensions</b></p>	

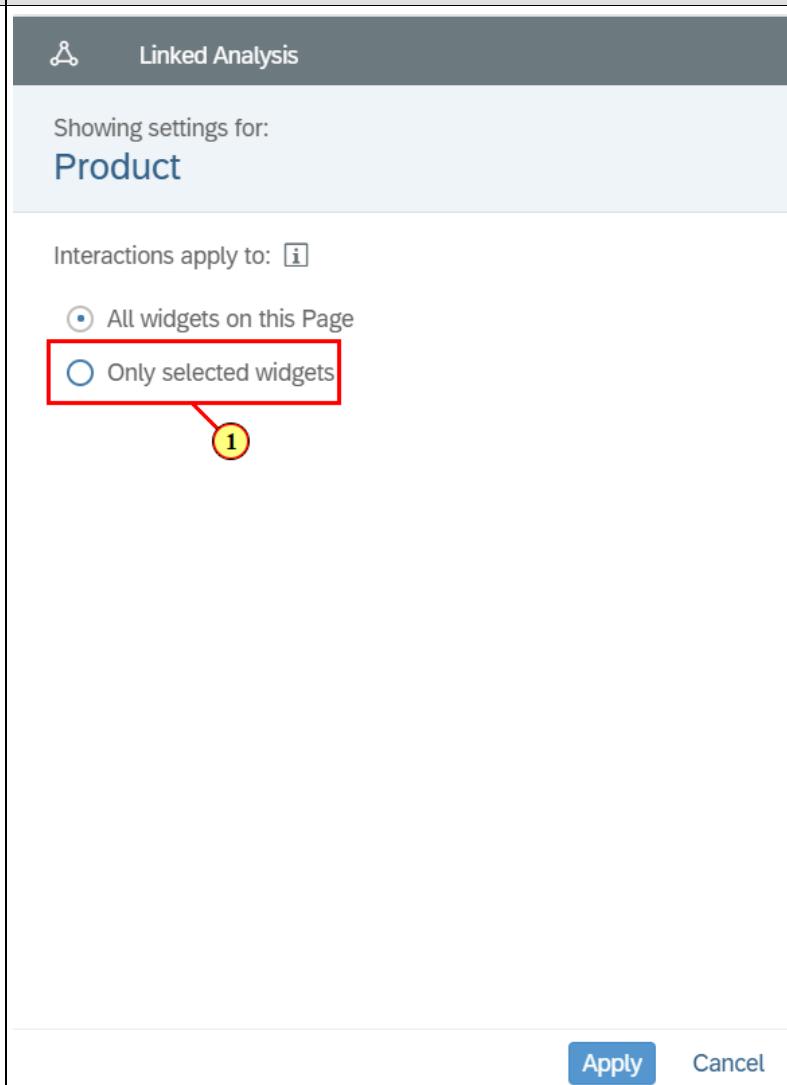
Explanation	Screenshot
(1) Click <b>Product</b>	<p>The screenshot shows the 'Dimensions' menu in SAP Analytics Cloud. A red box highlights the 'Product' option, which is currently selected. A yellow circle with the number '1' is placed over the 'Receive Date' option, indicating it is the next step. The menu includes options like Category, GeoLocation, Location, Order Date, Order Date and Time, Order ID, Order Number, Product, Receive Date, Region, and Sales Manager. A 'Page Filter' button is at the bottom.</p>

Explanation	Screenshot
(1) Click <b>Product (Dimension)</b>	
<p>(1) Click <b>All Members</b>            (2) Click <b>OK</b></p>	
<p><b>⚠️</b>  <b>Quality Check!</b> Do our Page Filter Input Controls look like this?               We have just added another Page Filter Input Control for Product. Let's test this feature in action!</p>	
SAP Analytics Cloud - Google Chrome	

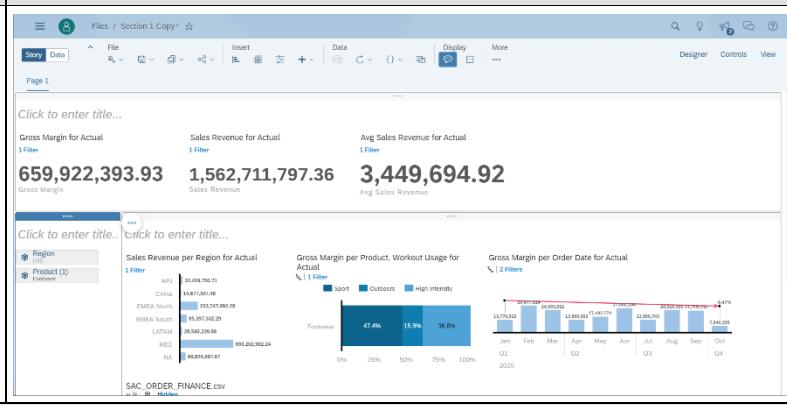
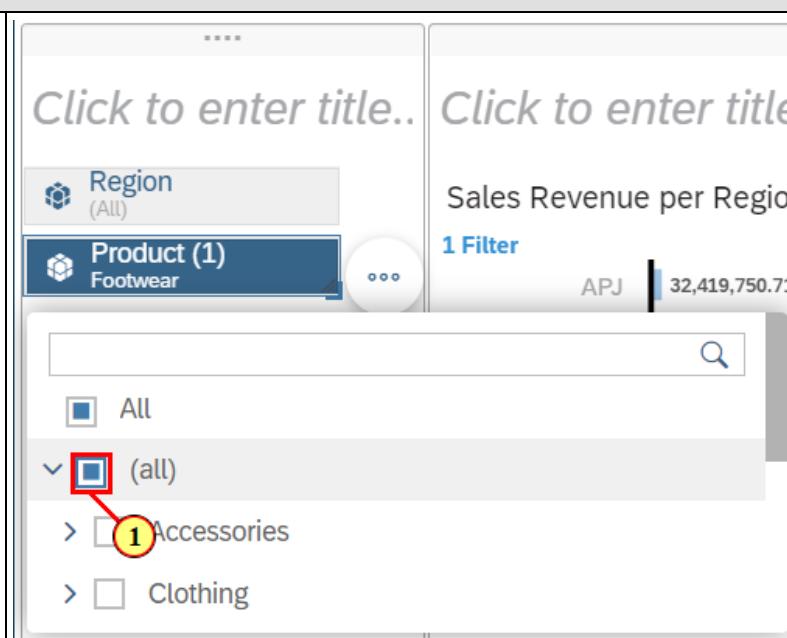
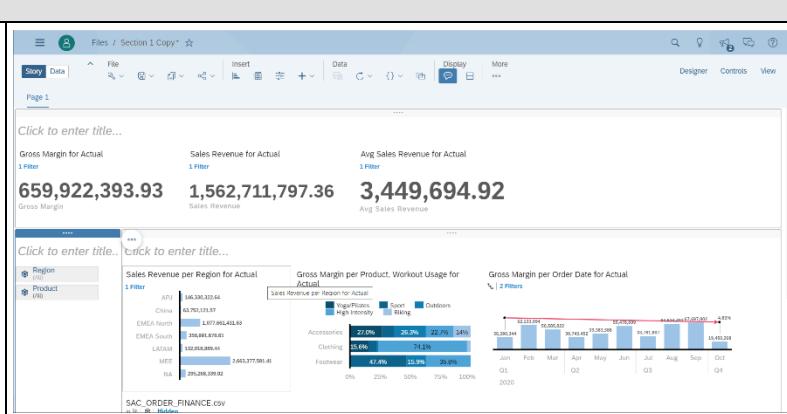
Explanation	Screenshot
(1) Click <b>Product</b>	 <p>Click to enter title..</p> <p>Region (All)</p> <p>Product (All)</p> <p>Product: (All)</p>
(1) Click <b>Expand</b>	 <p>Click to enter title..</p> <p>Region (All)</p> <p>Product (All)</p> <p>All</p> <p>&gt; (all)</p>

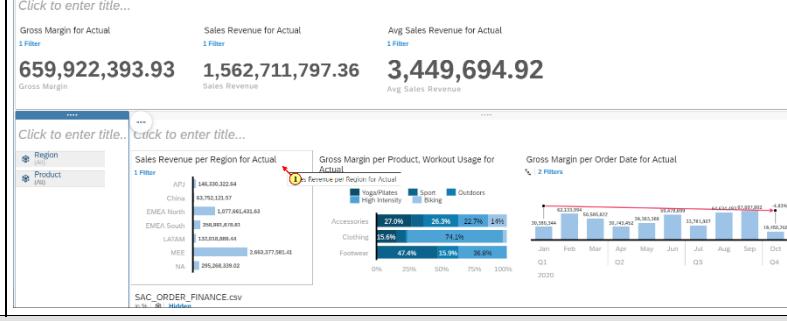
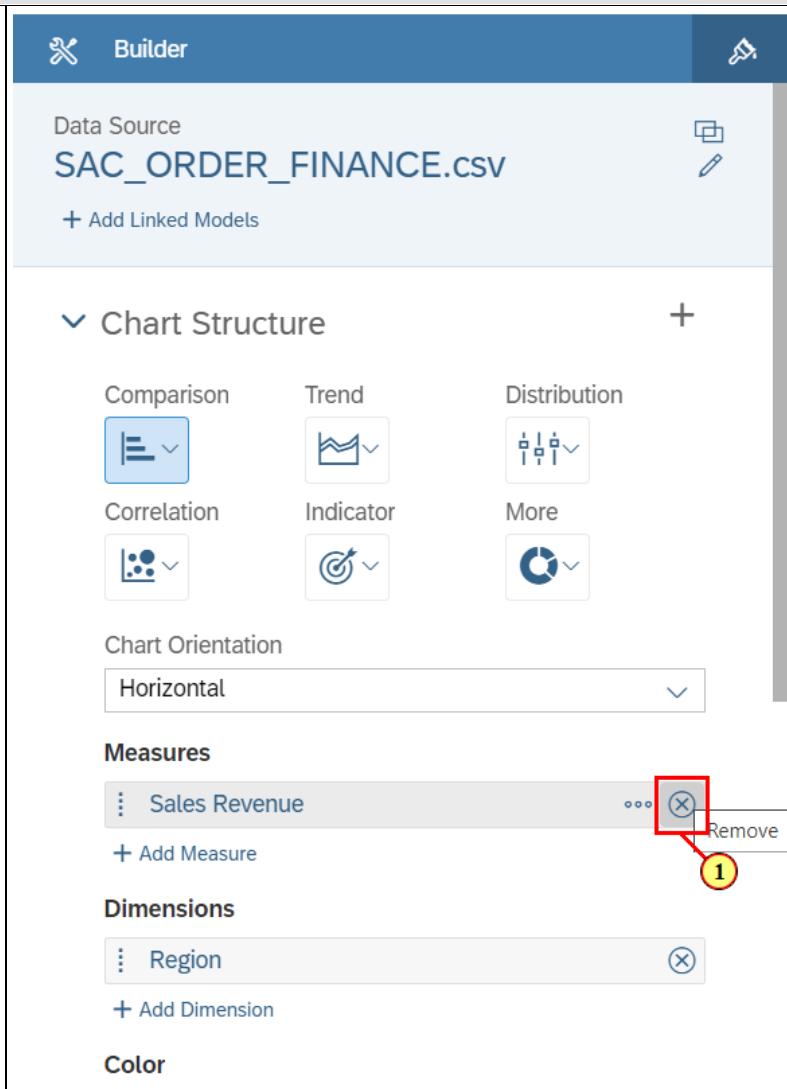
Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	<p>(1) Deselect <b>Accessories</b></p>
SAP Analytics Cloud - Google Chrome	<p><b>Hand icon:</b> Changing the Product Input Control applies a filter to all charts and tables on the page. Now all our charts only include data for products in Clothing or Footwear. However, this behavior may be different from what we want. If we only want to change a few charts on the dashboard in response to the input control, we should use Linked Analysis.</p>
SAP Analytics Cloud - Google Chrome	

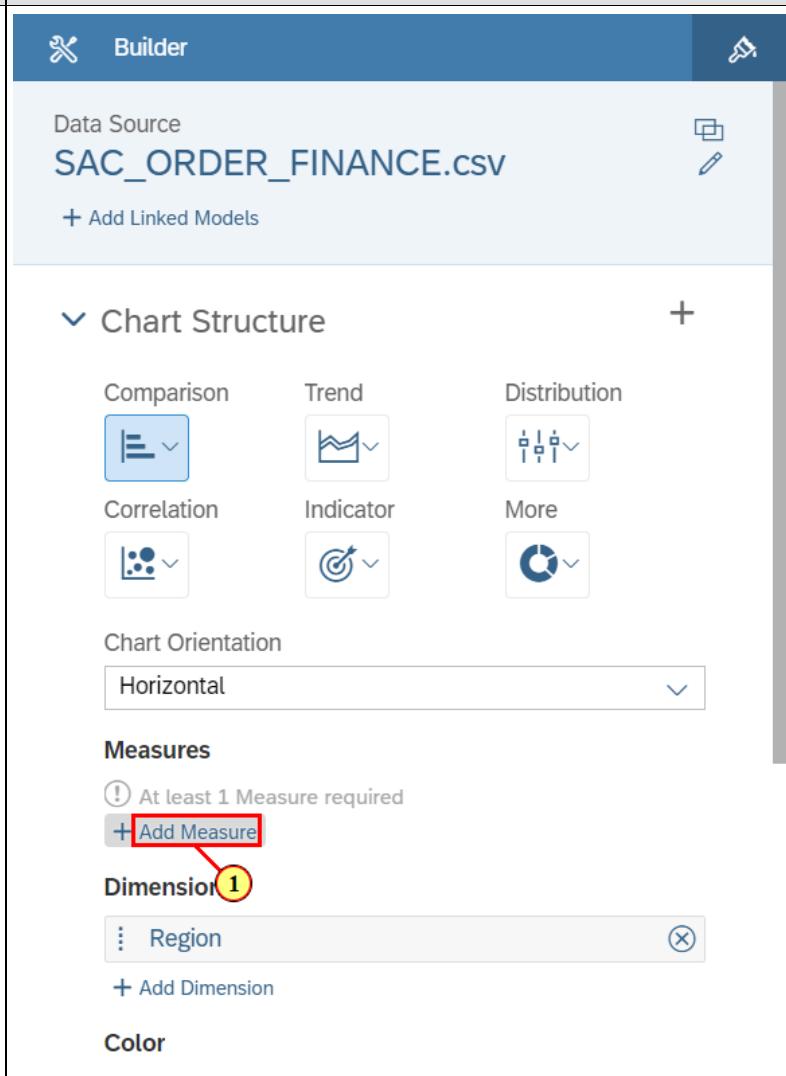
Explanation	Screenshot
(1) Right-clicking on <b>Product</b> opens up the context menu.	
(1) Click <b>Linked Analysis</b>	

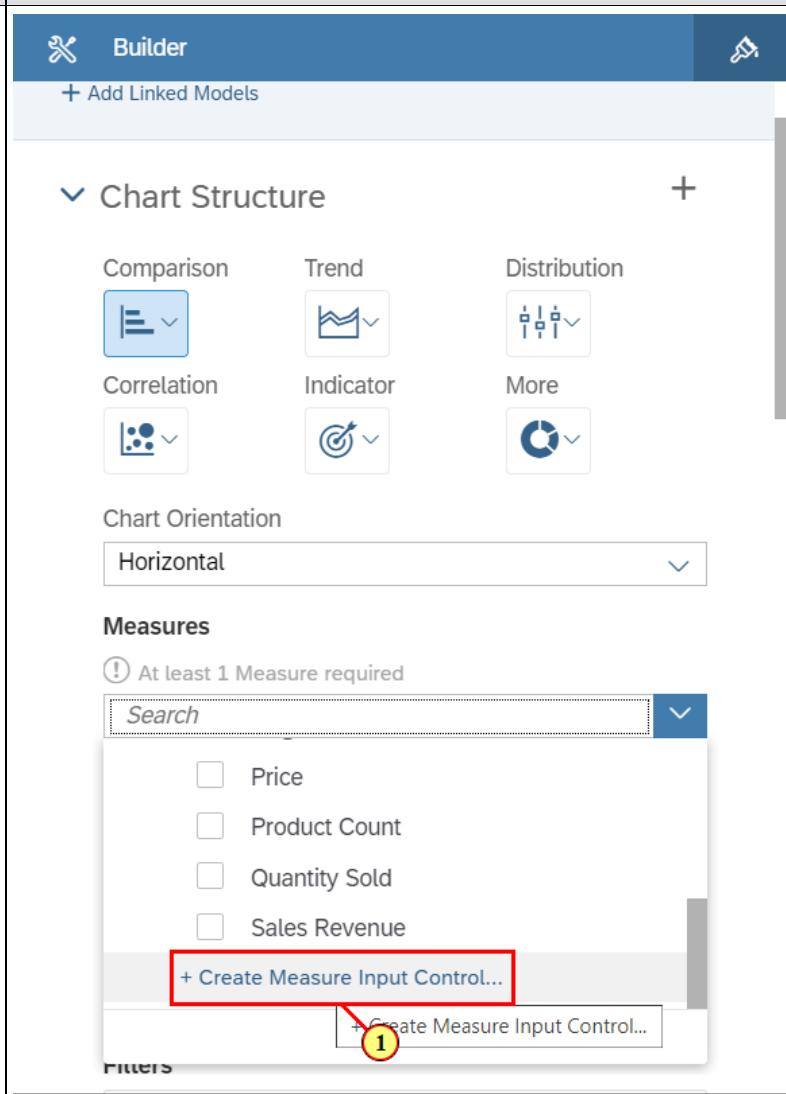
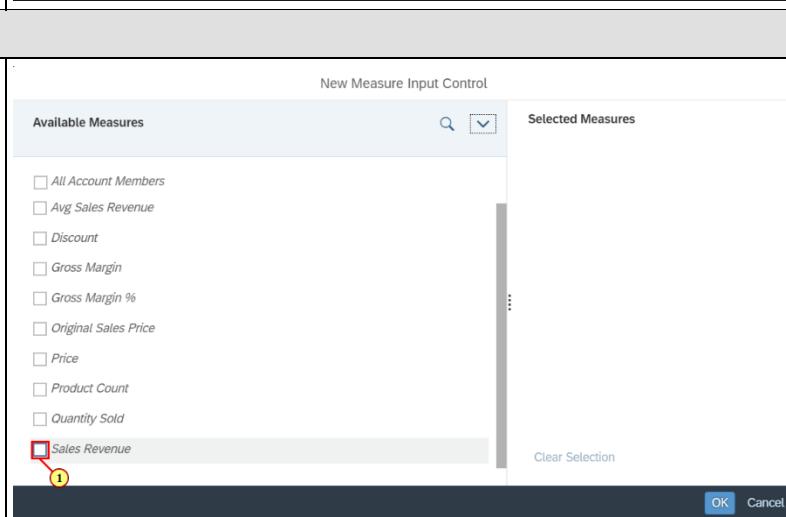
Explanation	Screenshot
<p>Welcome to Linked Analysis!</p> <p>Linked Analysis is a great way to modify the data within a set of visualizations.</p> <p>For example, if you are creating a dashboard where you want to provide an overview of sales for the year as well as focus on a specific time period that you can change, you can use a scoped filter to impact the set of visualizations you want to modify.</p> <p>(1) Click <b>Only selected widgets</b></p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>👉 We only want our page filter to apply to our charts in the right lane. Let's select them.</p> <p>(1) Click <b>Sales Revenue per Region for Actual</b></p> <p>(2) Click <b>Gross Margin per Product, Workout Usage for Actual</b></p> <p>(3) Click <b>Gross Margin per Order Date for Actual</b></p> <p>(4) Click <b>Apply</b></p>	<p>Interactions apply to: <input checked="" type="radio"/> Only selected widgets</p> <p>Settings:</p> <p><input type="checkbox"/> Automatically connect newly created widgets</p> <p>Select widgets to connect to widget:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Select All</li> <li><input type="checkbox"/> 22 Gross Margin for Actual</li> <li><input type="checkbox"/> 22 Sales Revenue for Actual</li> <li><input type="checkbox"/> 22 Avg Sales Revenue for Actual</li> <li><input checked="" type="checkbox"/> 1 Sales Revenue per Region for Actual</li> <li><input checked="" type="checkbox"/> 2 Gross Margin per Product, Workout Usage for Actual</li> <li><input checked="" type="checkbox"/> 3 Gross Margin per Order Date for Actual</li> <li><input type="checkbox"/> 3 SAC_ORDER_FINANCE.csv</li> </ul> <p><b>Apply</b> <b>Cancel</b></p>
<p>👉 We can test the Linked Analysis behavior by deselecting Clothing and seeing which charts change.</p> <p>(1) Deselect <b>Clothing</b></p>	<p>SAP Analytics Cloud - Google Chrome</p> <p>Click to enter title...</p> <p>Sales Revenue for Actual 1 Filter</p> <p>659,922,393.93</p> <p>Gross Margin</p> <p>Avg Sales Revenue for Actual 1 Filter</p> <p>1,562,711,797.36</p> <p>Sales Revenue</p> <p>Avg Sales Revenue</p> <p>Gross Margin per Product, Workout Usage for Actual 1 Filter</p> <p>3,449,694.92</p> <p>Region 1 Filter</p> <p>Product (2) Clothing, Footwear 1 Filter</p> <p>All Accessories Clothing</p> <p>SAC_ORDER_FINANCE.csv</p> <p>Gross Margin per Order Date for Actual 2 Filters</p> <p>Clomping Footwear</p> <p>Yoga/Pilates High Intensity Sport Outdoors</p> <p>0% 25% 50% 75% 100%</p> <p>Jan Feb Mar Apr May Jun Jul Aug Sep Oct</p> <p>Q1 Q2 Q3 Q4</p> <p>SAP Analytics Cloud - Google Chrome</p>

Explanation	Screenshot
 <p>Only data in the three charts in the right lane will change. Let's revert back to selecting all products.</p>	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>(all)</b> to reselect all Product Categories	
SAP Analytics Cloud - Google Chrome	
 <p>As you can see the values have changed again to include all products! Does your dashboard look like this screenshot?</p>	
SAP Analytics Cloud - Google Chrome	

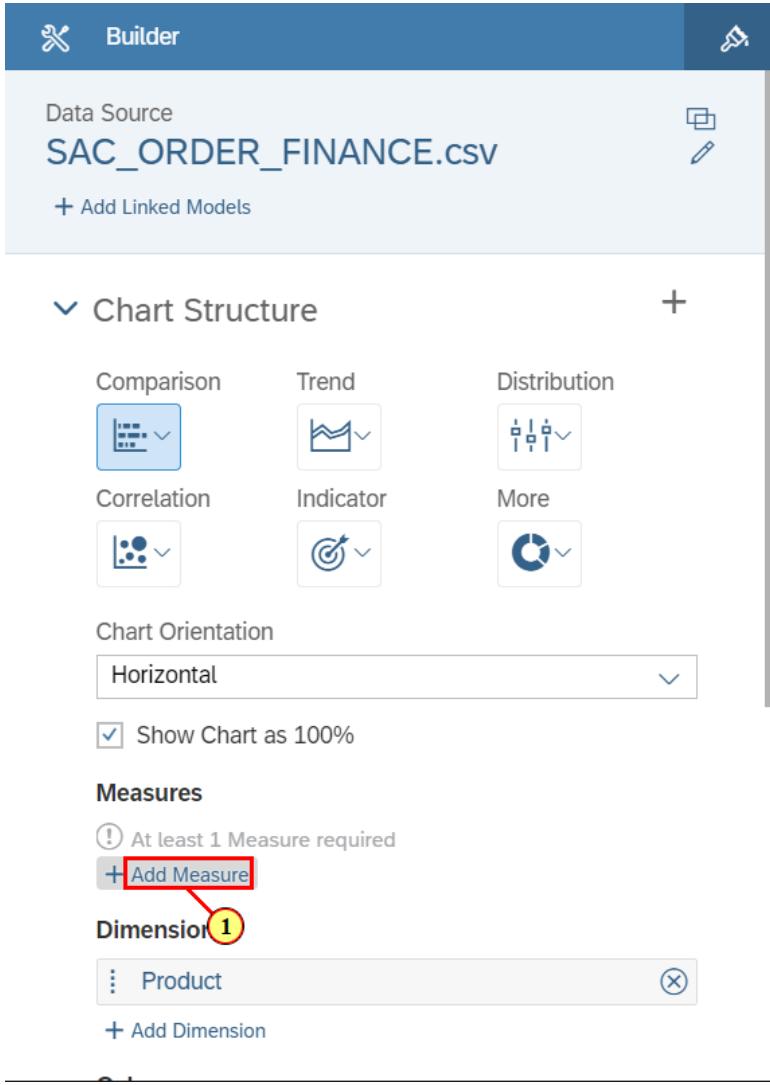
Explanation	Screenshot
<p> We want to now empower story viewers to be able to decide which measure is displayed in our chart that displays Sales Revenue per Region.</p> <p>(1) Select <b>Sales Revenue per Region for Actual</b> chart  (2) Click <b>Designer</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Close <b>Sales Revenue</b> Measure</p>	

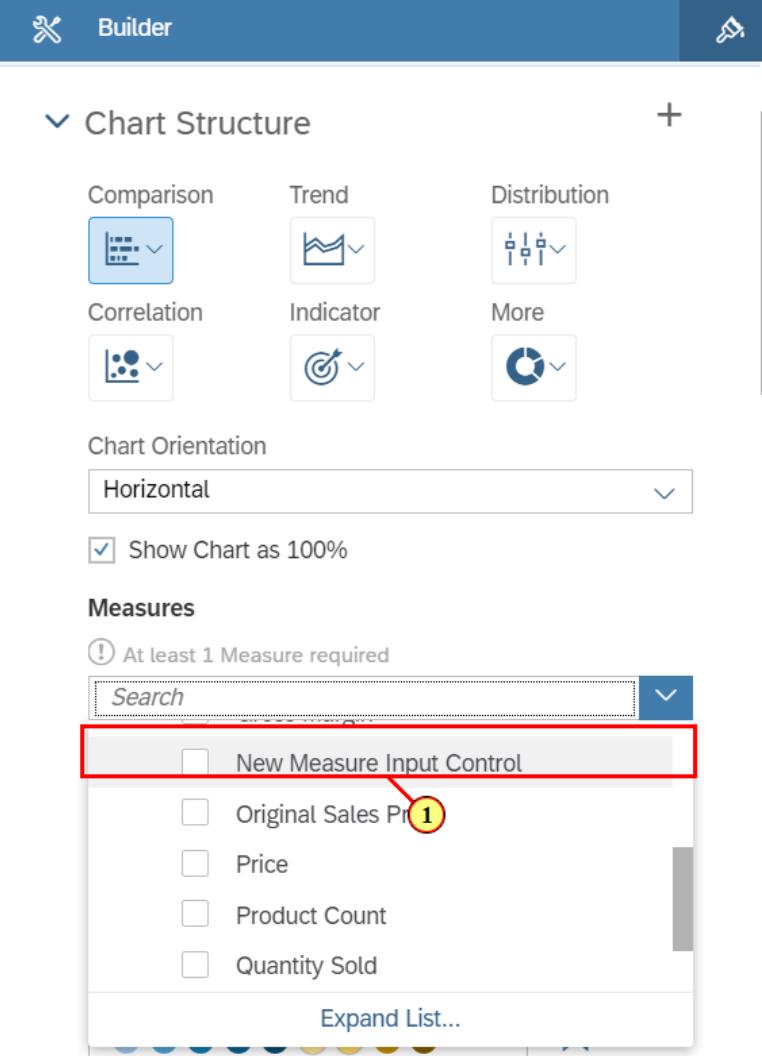
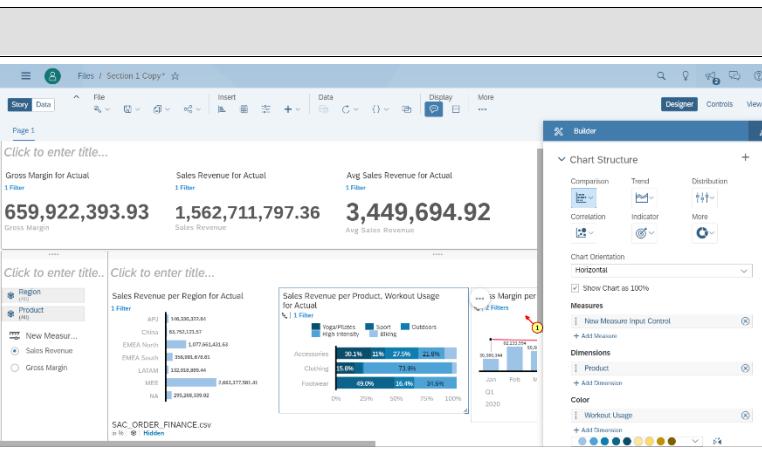
Explanation	Screenshot
(1) Click <b>Add Measure</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below the header, there's a section titled "Chart Structure" with various chart types: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under "Measures", there is a note "At least 1 Measure required" and a button "+ Add Measure" which is highlighted with a red box and a yellow circle with the number "1" above it. Below this, there's a "Dimension" section with "Region" listed and a "+ Add Dimension" button. At the bottom, there's a "Color" section and a link "+ Add Dimension/Measure".</p>

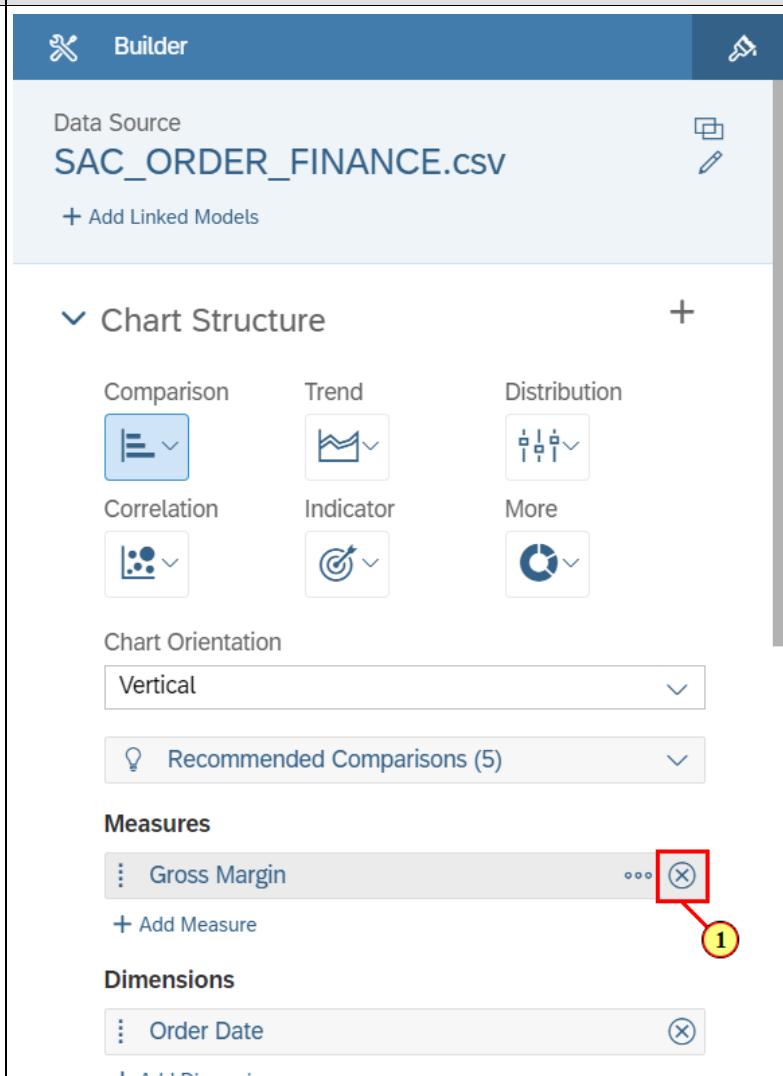
Explanation	Screenshot
(1) Click <b>Create Measure Input Control</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are categories like Comparison, Trend, Distribution, Correlation, Indicator, and More. Below these are sections for 'Chart Orientation' (set to 'Horizontal') and 'Measures'. A message says 'At least 1 Measure required'. A search bar is present. Under 'Measures', there are checkboxes for Price, Product Count, Quantity Sold, and Sales Revenue. At the bottom right of this list, there is a button labeled '+ Create Measure Input Control...'. This button is highlighted with a red box and a yellow circle containing the number '1'.</p>
(1) Click <b>Sales Revenue</b>	 <p>The screenshot shows the 'New Measure Input Control' dialog box. It has two main sections: 'Available Measures' on the left and 'Selected Measures' on the right. The 'Available Measures' section lists various measures like All Account Members, Avg Sales Revenue, Discount, Gross Margin, etc., with checkboxes next to them. One checkbox, 'Sales Revenue', is checked and highlighted with a red box and a yellow circle containing the number '1'. There is also a yellow circle with the number '1' pointing to the 'OK' button at the bottom right of the dialog.</p>
SAP Analytics Cloud - Google Chrome	

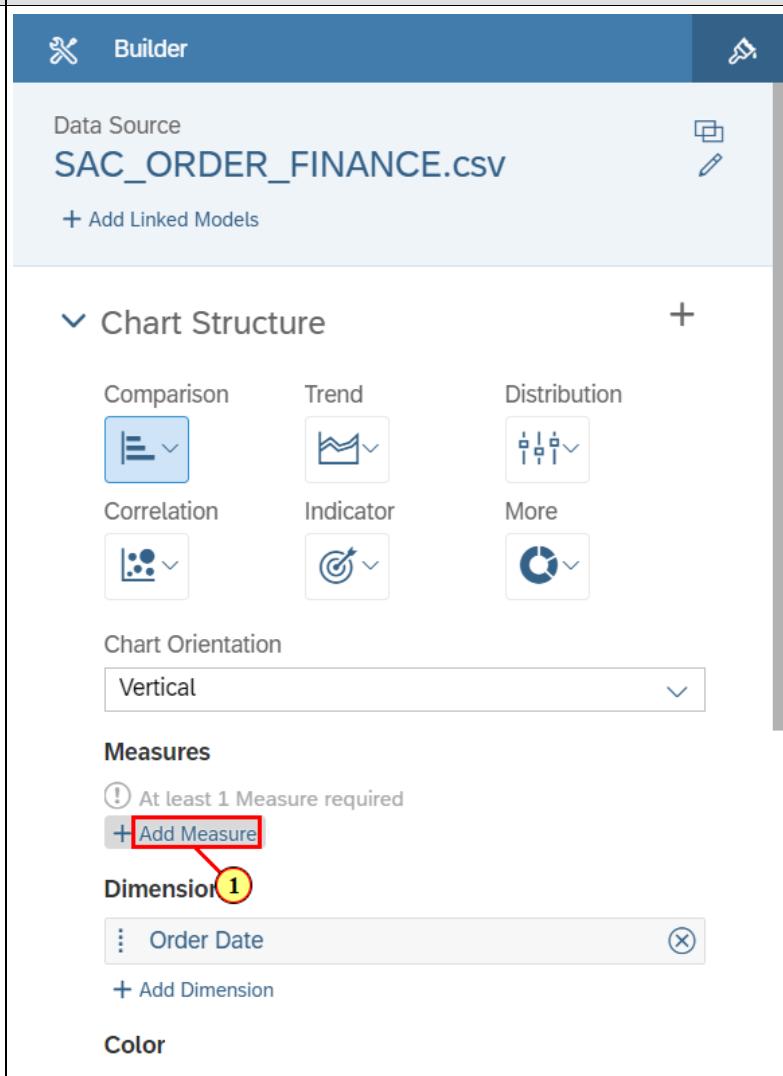
Explanation	Screenshot
<p>(1) Click <b>Gross Margin</b></p> <p>(2) Click <b>OK</b></p>	
<p>(1) Move <b>New Measure Input Control</b> to left lane.</p>	
<p>(1) Expand the <b>Measure Input Control</b> to see all members.</p> <p> This measure input control now drives our first chart in the right lane.</p> <p>It is possible to add more than one chart to a measure input control to drive synced behavior in your story.</p>	
SAP Analytics Cloud - Google Chrome	

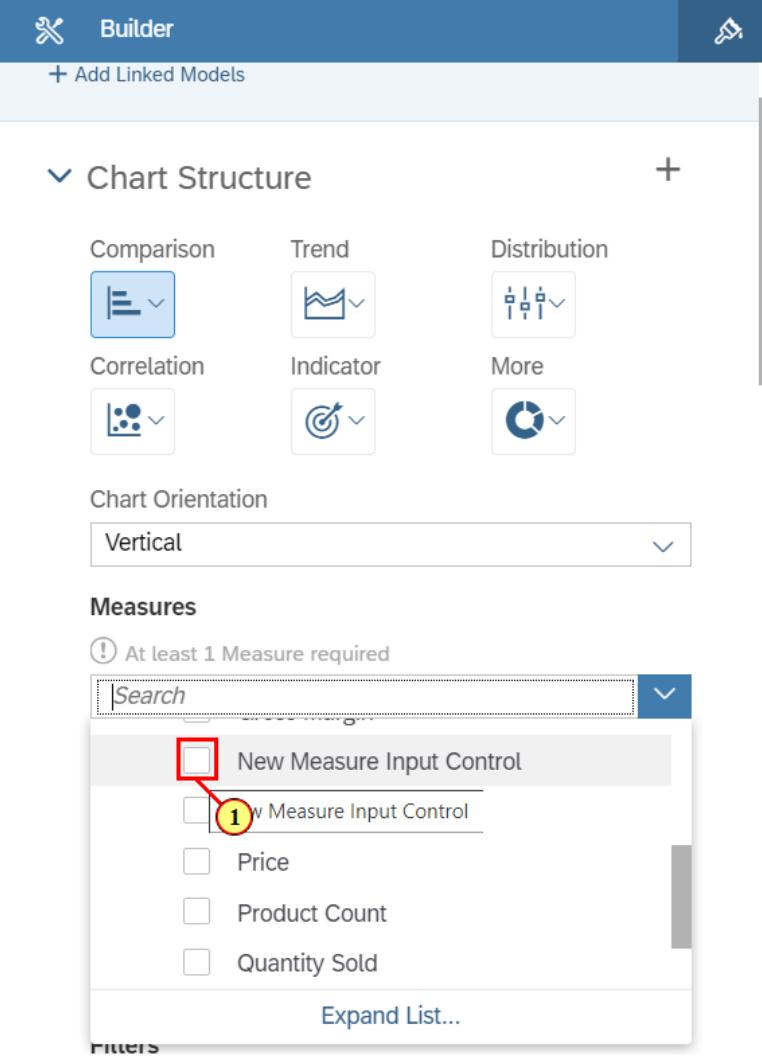
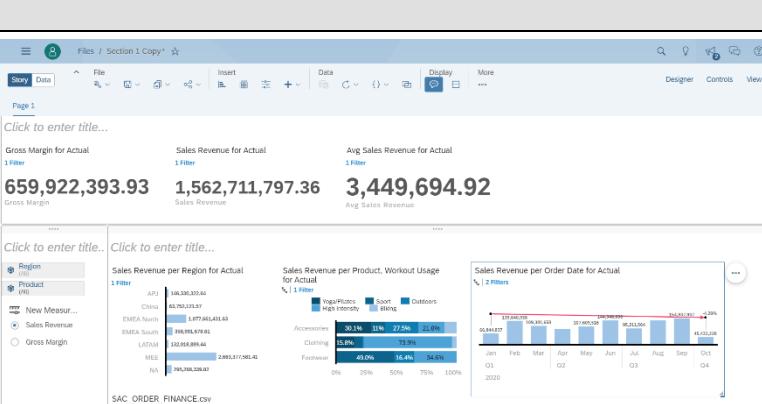
Explanation	Screenshot
(1) Click <b>Gross Margin per Product, Workout Usage for Actual</b> chart.	<p>SAP Analytics Cloud - Google Chrome</p>
(1) Close <b>Gross Margin</b> measure.	<p>SAP Analytics Cloud - Google Chrome</p>

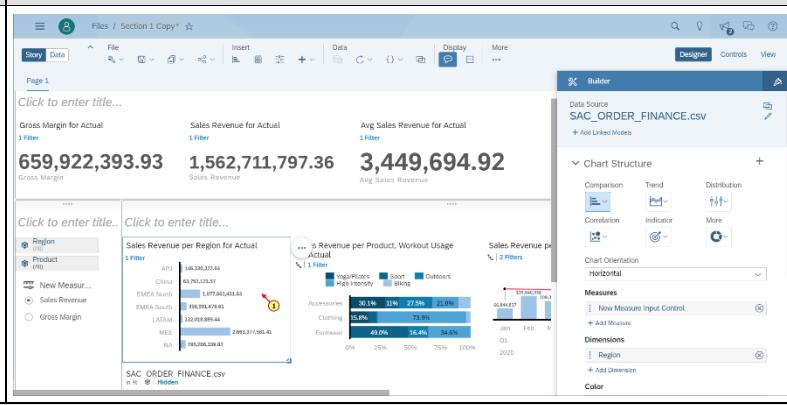
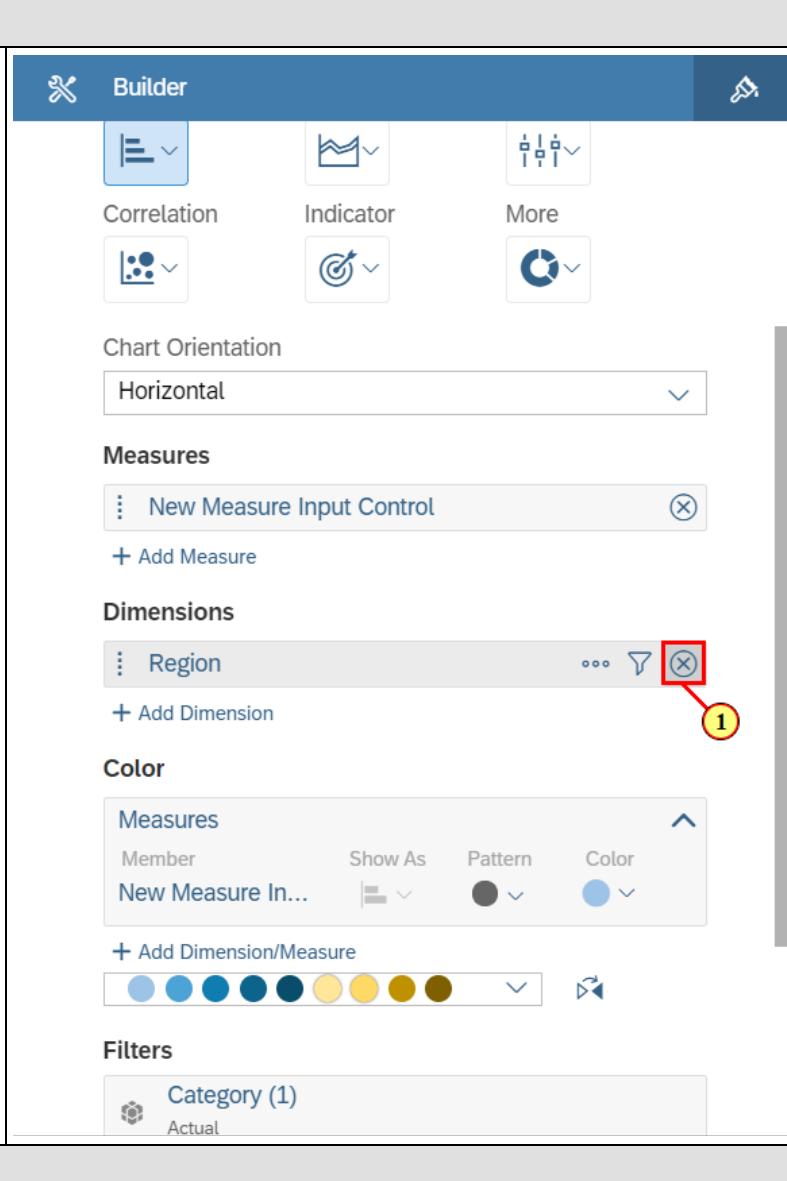
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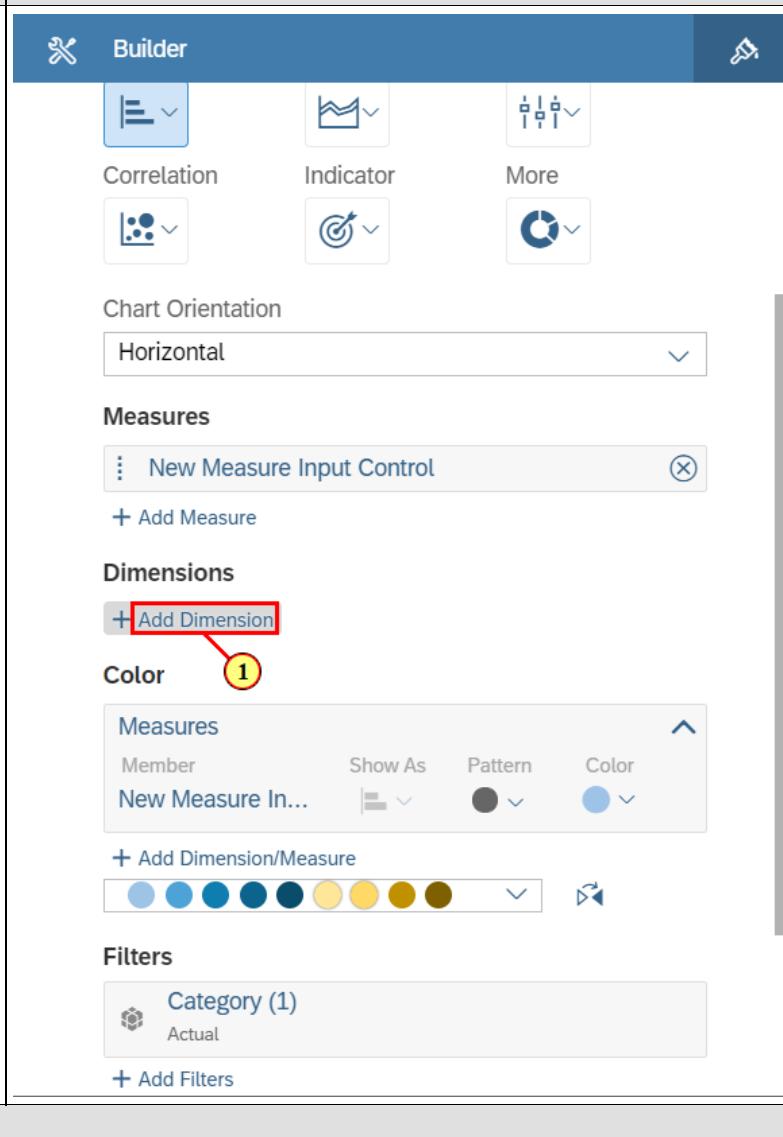
Explanation	Screenshot
(1) Scroll and select <b>New Measure Input Control</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are six categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Below this, 'Chart Orientation' is set to 'Horizontal'. A dropdown menu for 'Measures' is open, containing the following items:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> New Measure Input Control (highlighted with a red box and circled '1')</li> <li><input type="checkbox"/> Original Sales Pr...</li> <li><input type="checkbox"/> Price</li> <li><input type="checkbox"/> Product Count</li> <li><input type="checkbox"/> Quantity Sold</li> </ul>
(1) Click <b>Gross Margin per Order Date for Actual</b> chart. This is the third chart in our story with a time dimension.	 <p>The screenshot shows the SAP Analytics Cloud Story view. It displays three charts in a row:</p> <ul style="list-style-type: none"> <li>Sales Revenue for Actual</li> <li>Avg Sales Revenue for Actual</li> <li>Gross Margin per Order Date for Actual (highlighted with a red box)</li> </ul> <p>The 'Gross Margin per Order Date for Actual' chart is a stacked bar chart showing sales revenue by month (Jan, Feb, Mar 2020) across different product categories. The chart includes a legend for 'Veganites', 'Sport', and 'Cutties'.</p>

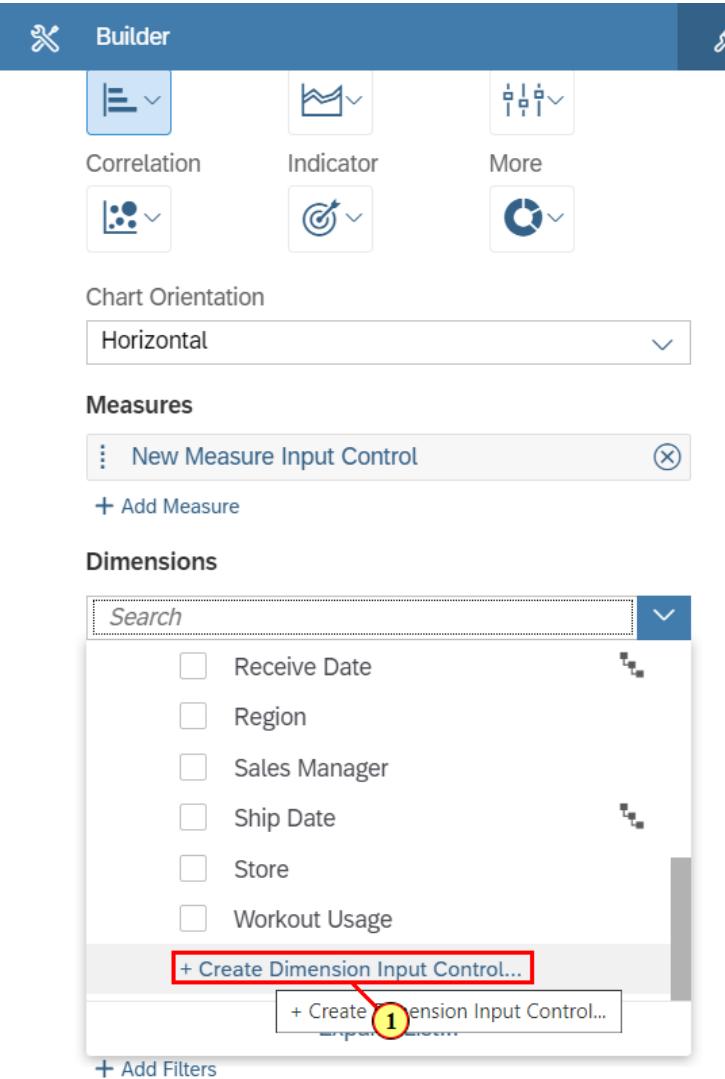
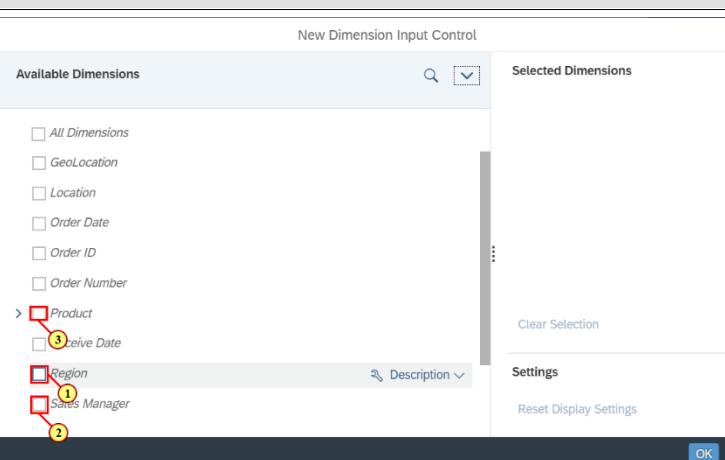
Explanation	Screenshot
(1) Close <b>Gross Margin</b> measure.	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below this, under "Chart Structure", there are several categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under "Measures", "Gross Margin" is listed with a red box and a circled '1' highlighting the delete icon. Under "Dimensions", "Order Date" is listed with a red box and a circled '1' highlighting the delete icon. The "Chart Orientation" is set to "Vertical". A dropdown menu for "Recommended Comparisons (5)" is visible. The bottom of the interface shows the footer "SAP Analytics Cloud - Google Chrome".</p>

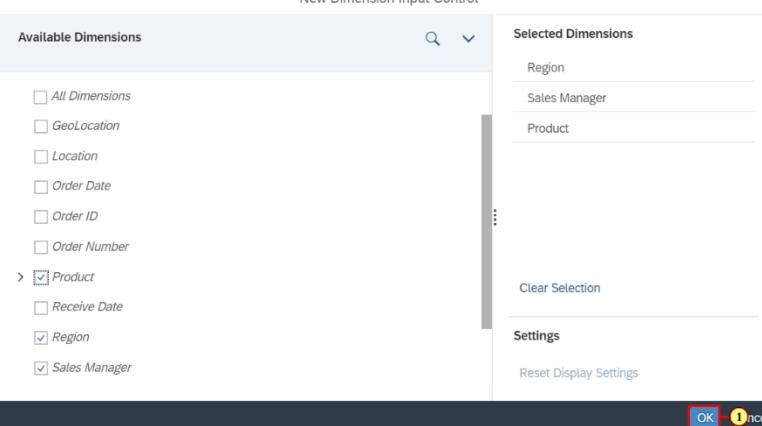
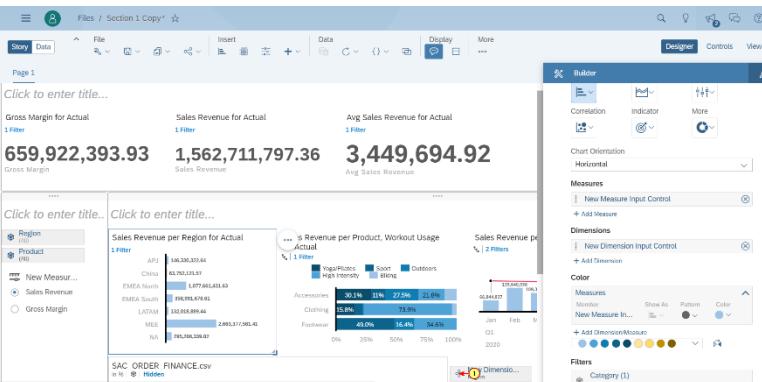
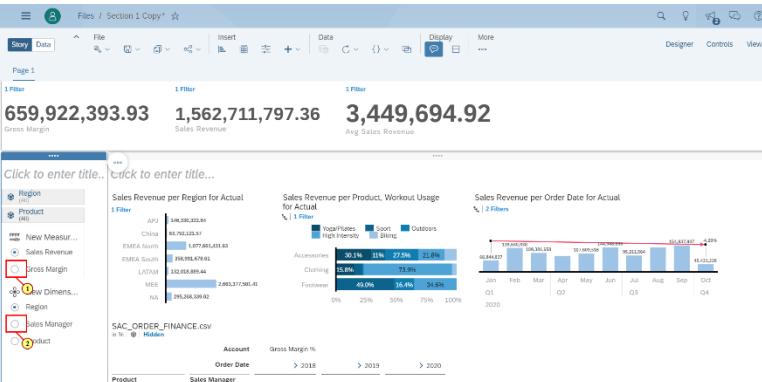
Explanation	Screenshot
(1) Click <b>Add Measure</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, it displays a data source named "SAC_ORDER_FINANCE.csv". Below the header, there's a section titled "Chart Structure" with various chart types: Comparison, Trend, Distribution, Correlation, Indicator, and More. Under "Measures", there's a note "At least 1 Measure required" and a button "+ Add Measure" which is highlighted with a red box and a yellow circle containing the number "1". Below this, the "Dimension" section shows "Order Date" selected. There's also a "Color" section with a link "+ Add Dimension/Measure".</p>

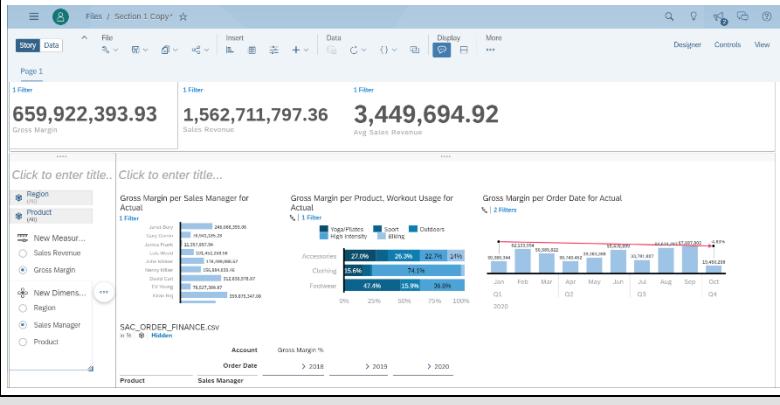
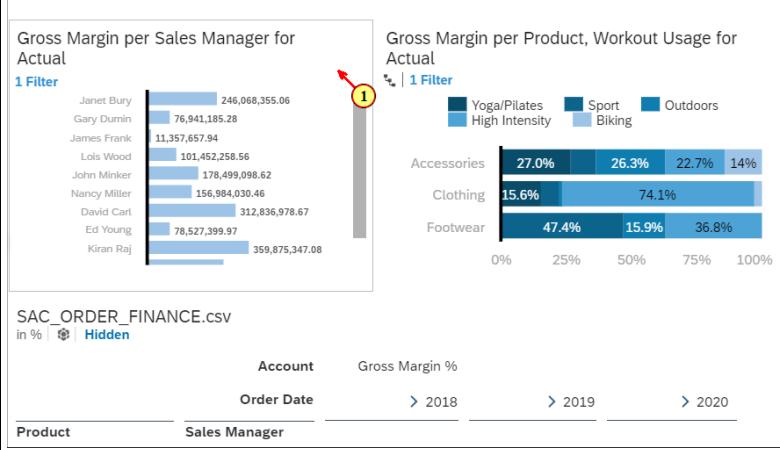
Explanation	Screenshot
(1) Click <b>New Measure Input Control</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Chart Structure' section, there are six categories: Comparison, Trend, Distribution, Correlation, Indicator, and More. Below these, 'Chart Orientation' is set to 'Vertical'. Under 'Measures', a search bar shows 'Search' and a warning message 'At least 1 Measure required'. A dropdown menu is open, listing 'New Measure Input Control' (which has a red box around it and a yellow circle with '1' over it), 'Price', 'Product Count', and 'Quantity Sold'. At the bottom of the dropdown is a link 'Expand List...'.</p>
<p><b>SAP Analytics Cloud - Google Chrome</b></p> <p><b>⚠️</b> Quality Check! Does your story's charts use the same measures as this screenshot?</p> <p><b>👉</b> Since the measure input control is currently on Sales Revenue selection, all three of our charts are using Sales Revenue as the measure displayed in the visualization.</p>	 <p>The screenshot shows a SAP Analytics Cloud Story view with three charts.    1. Top-left chart: Sales Revenue per Region for Actual. Values: EMEA North (1,562,711,797.36), EMEA South (1,549,694.92), LATAM (1,549,694.92), MEE (2,983,277,361.42), NA (24,341,208.42).    2. Top-right chart: Sales Revenue per Product, Workout Usage for Actual. Legend: Yoga/Pilates (red), High Intensity (blue), Low Intensity (green). Values: Yoga/Pilates (30.1%), High Intensity (27.0%), Low Intensity (22.8%).    3. Bottom-right chart: Sales Revenue per Order Date for Actual. X-axis: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct. Y-axis: Sales Revenue (values: 56,341,627, 57,406,709, 58,281,441, 57,100,550, 58,111,604, 58,111,604, 58,111,604, 58,111,604, 58,111,604, 58,111,604).</p>

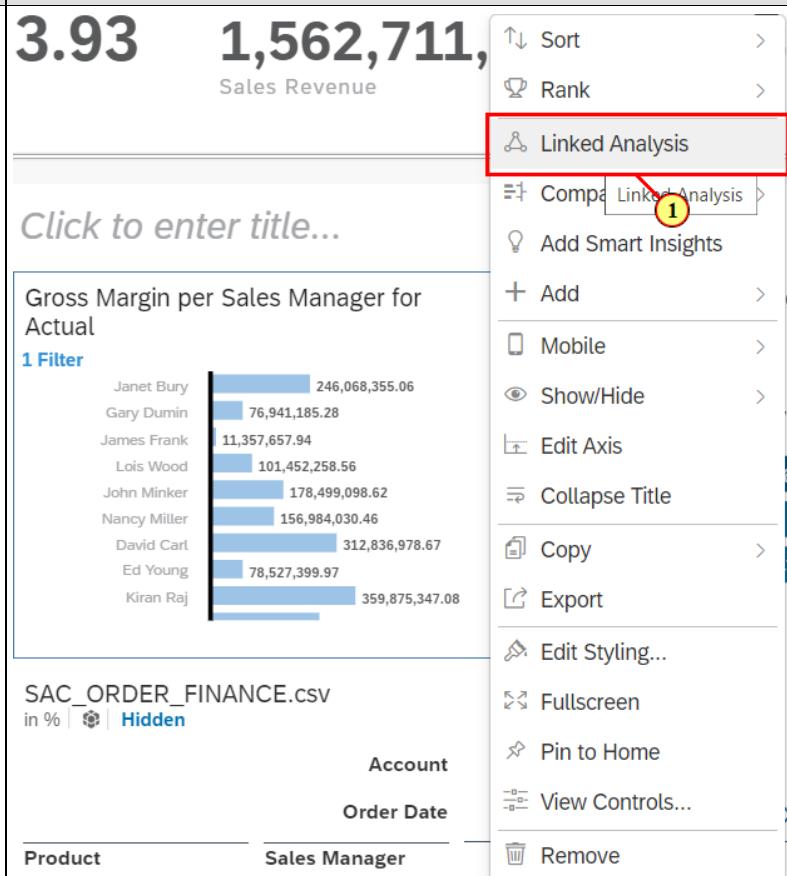
Explanation	Screenshot
<p>👉 For further interactivity, we can add a Dimension Input Control to charts to change the dimensions of data displayed.</p> <p>(1) Click on <b>Sales Revenue per Region for Actual</b> chart.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Close <b>Region</b> dimension.</p>	

Explanation	Screenshot
<p>(1) Click <b>Add Dimension</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a button labeled '+ Add Dimension' with a red box drawn around it. Below this button is a 'Color' button with a yellow circle containing the number '1' pointing to it. The interface includes sections for 'Measures' (with a 'New Measure Input Control' box), 'Dimensions' (with '+ Add Dimension' and 'Color' buttons), and 'Filters' (with a 'Category (1)' box).</p>

Explanation	Screenshot
(1) Click <b>Create Dimension Input Control</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the 'Dimensions' section, there is a list of dimensions with checkboxes next to them. At the bottom of the list, there is a button labeled '+ Create Dimension Input Control...'. This button is highlighted with a red box and has a yellow circle with the number '1' on it.</p>
(1) Click <b>Region</b> (2) Click <b>Sales Manager</b> (3) Click <b>Product</b>	 <p>The screenshot shows the 'New Dimension Input Control' dialog box. On the left, under 'Available Dimensions', there is a list of dimensions: All Dimensions, GeoLocation, Location, Order Date, Order ID, Order Number, Product, Region, Sales Manager, and Order Date. The 'Region' dimension is highlighted with a red box and a yellow circle labeled '1'. On the right, under 'Selected Dimensions', there is a list containing Region and Sales Manager. There are also buttons for 'Clear Selection', 'Settings', 'Reset Display Settings', 'OK', and 'Cancel'.</p>

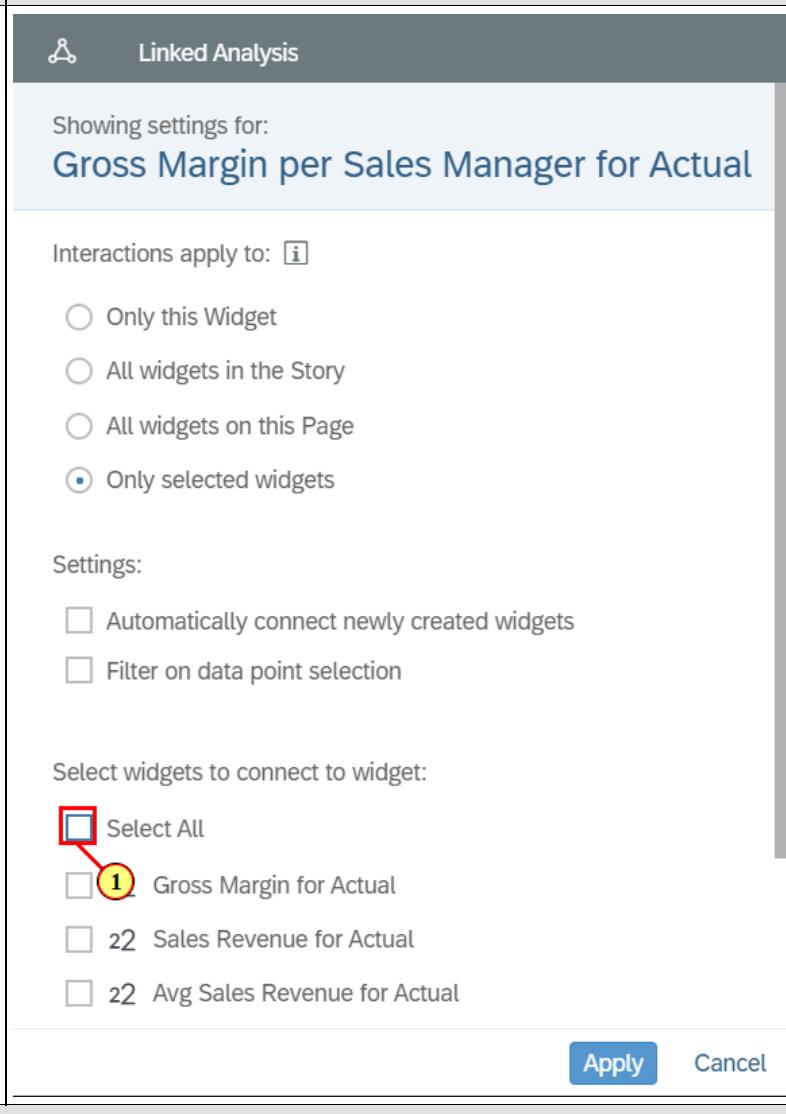
Explanation	Screenshot
(1) Click <b>OK</b>	
<p data-bbox="150 752 579 954">(1) Move <b>New Dimension Input Control</b> to left lane and resize it to display all members.</p> <p data-bbox="166 977 214 1021"></p> <p data-bbox="150 1021 579 1111">Our Dimension Input Control can be used dynamically by viewers to change our chart visualization.</p>	
<p data-bbox="150 1201 579 1448"> Quality Check! Test out the effects of measure and dimension input controls in your story.</p> <p data-bbox="150 1471 579 1516">(1) Click <b>Gross Margin</b></p> <p data-bbox="150 1538 579 1583">(2) Click <b>Sales Manager</b></p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
 <p>After changing both input controls, Gross Margin should be the measure displayed in every chart. The first chart now visualizes a breakdown of Gross Margin across Sales Managers rather than Region.</p>	 <p>The screenshot shows three charts side-by-side. The first chart is a bar chart titled "Gross Margin per Sales Manager for Actual" with 1 Filter applied. It lists sales managers and their gross margin values. The second chart is a stacked bar chart titled "Gross Margin per Product, Workout Usage for Actual" with 1 Filter applied. It shows the percentage of gross margin for different product categories. The third chart is a horizontal bar chart titled "Gross Margin per Order Date for Actual" with 2 Filters applied, showing the total gross margin for each quarter from 2020 Q1 to 2020 Q4.</p>
<p>SAP Analytics Cloud - Google Chrome</p>  <p>There are still more dynamic functionalities available in SAP Analytics Cloud. We can create a Linked Analysis on charts, making dynamic filters on the page based on highlighted data in a chart.</p> <p>(1) Right click to open Context Menu.</p>	<p>Click to enter title...</p>  <p>The screenshot shows a linked analysis setup. On the left, there is a bar chart titled "Gross Margin per Sales Manager for Actual" with 1 Filter applied. The chart lists sales managers and their gross margin values. On the right, there are two other charts: "Gross Margin per Product, Workout Usage for Actual" and "Gross Margin per Order Date for Actual". The bar chart on the left has a red circle with the number '1' and an arrow pointing to a context menu icon, indicating a dynamic filter is being applied.</p>

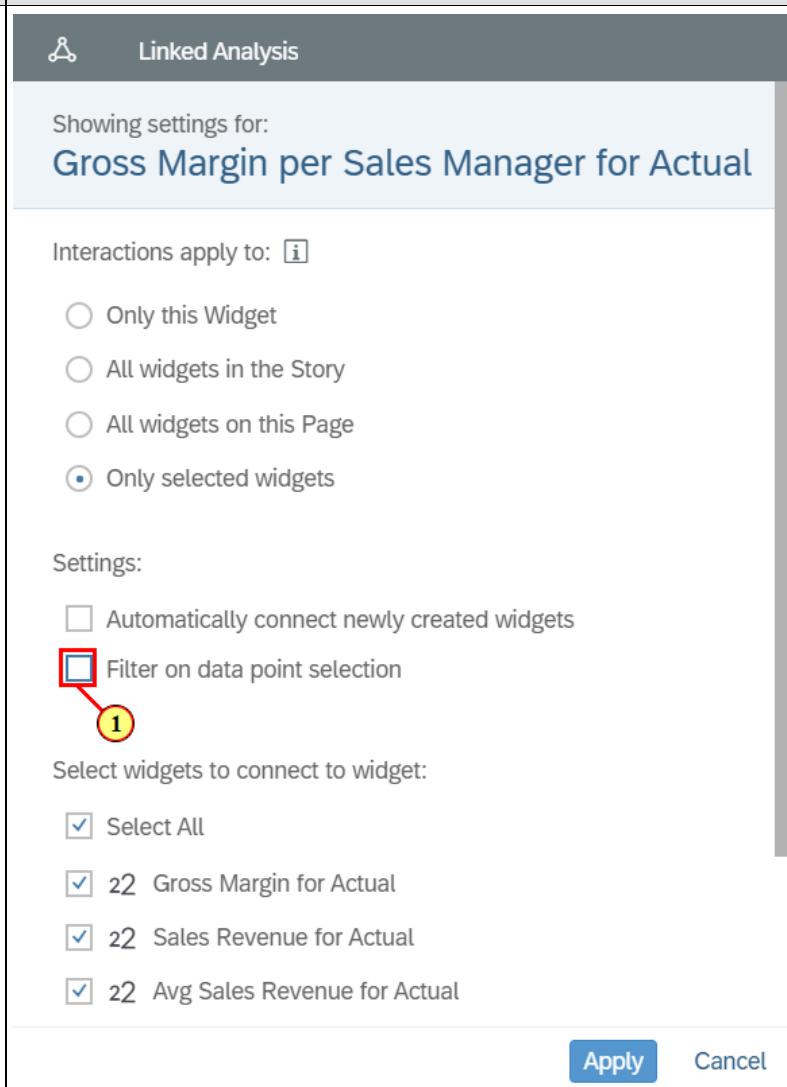
Explanation	Screenshot																				
(1) Click <b>Linked Analysis</b>	 <p><b>3.93    1,562,711,</b> Sales Revenue</p> <p><i>Click to enter title...</i></p> <p>Gross Margin per Sales Manager for Actual</p> <p>1 Filter</p> <table border="1"> <tbody> <tr><td>Janet Bury</td><td>246,068,355.06</td></tr> <tr><td>Gary Dumin</td><td>76,941,185.28</td></tr> <tr><td>James Frank</td><td>11,357,657.94</td></tr> <tr><td>Lois Wood</td><td>101,452,258.56</td></tr> <tr><td>John Minker</td><td>178,499,098.62</td></tr> <tr><td>Nancy Miller</td><td>156,984,030.46</td></tr> <tr><td>David Cart</td><td>312,836,978.67</td></tr> <tr><td>Ed Young</td><td>78,527,399.97</td></tr> <tr><td>Kiran Raj</td><td>359,875,347.08</td></tr> </tbody> </table> <p>SAC_ORDER_FINANCE.csv in %    Hidden</p> <p style="text-align: right;">Account Order Date</p> <table border="1"> <thead> <tr><th>Product</th><th>Sales Manager</th></tr> </thead> </table>	Janet Bury	246,068,355.06	Gary Dumin	76,941,185.28	James Frank	11,357,657.94	Lois Wood	101,452,258.56	John Minker	178,499,098.62	Nancy Miller	156,984,030.46	David Cart	312,836,978.67	Ed Young	78,527,399.97	Kiran Raj	359,875,347.08	Product	Sales Manager
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Product	Sales Manager																				

Explanation	Screenshot
(1) Click <b>Only selected widgets</b>	<p>Showing settings for: <b>Gross Margin per Sales Manager for Actual</b></p> <p>Interactions apply to: <a href="#">i</a></p> <p><input checked="" type="radio"/> Only this Widget</p> <p><input type="radio"/> All widgets in the Story</p> <p><input type="radio"/> All widgets on this Page</p> <p><input checked="" type="radio"/> Only selected widgets</p> <p><b>1</b></p> <p>Apply Cancel</p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
<p>(1) Click <b>Select All</b></p>	 <p>Interactions apply to: ⓘ</p> <ul style="list-style-type: none"> <li><input type="radio"/> Only this Widget</li> <li><input type="radio"/> All widgets in the Story</li> <li><input type="radio"/> All widgets on this Page</li> <li><input checked="" type="radio"/> Only selected widgets</li> </ul> <p>Settings:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Automatically connect newly created widgets</li> <li><input type="checkbox"/> Filter on data point selection</li> </ul> <p>Select widgets to connect to widget:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Select All</li> <li><input checked="" type="checkbox"/> 1 Gross Margin for Actual</li> <li><input type="checkbox"/> z2 Sales Revenue for Actual</li> <li><input type="checkbox"/> z2 Avg Sales Revenue for Actual</li> </ul> <p style="text-align: right;"><b>Apply</b>   <b>Cancel</b></p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
<p>👉 Choosing to filter on data point selection means that viewers of our story can click inside charts to filter the data for any linked charts within the specific dimension.</p> <p>(1) Click <b>Filter on data point selection</b></p>	 <p>Showing settings for: <b>Gross Margin per Sales Manager for Actual</b></p> <p>Interactions apply to: ⓘ</p> <ul style="list-style-type: none"> <li><input type="radio"/> Only this Widget</li> <li><input type="radio"/> All widgets in the Story</li> <li><input type="radio"/> All widgets on this Page</li> <li><input checked="" type="radio"/> Only selected widgets</li> </ul> <p>Settings:</p> <p><input type="checkbox"/> Automatically connect newly created widgets</p> <p><input checked="" type="checkbox"/> Filter on data point selection <span style="color: red;">1</span></p> <p>Select widgets to connect to widget:</p> <p><input checked="" type="checkbox"/> Select All</p> <p><input checked="" type="checkbox"/> 22 Gross Margin for Actual</p> <p><input checked="" type="checkbox"/> 22 Sales Revenue for Actual</p> <p><input checked="" type="checkbox"/> 22 Avg Sales Revenue for Actual</p> <p><b>Apply</b>   <b>Cancel</b></p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
	<p>Showing settings for: <b>Gross Margin per Sales Manager for Actual</b></p> <p>Interactions apply to: <input type="checkbox"/> Only this Widget <input type="checkbox"/> All widgets in the Story <input type="checkbox"/> All widgets on this Page <input checked="" type="radio"/> Only selected widgets</p> <p>Settings:</p> <p><input type="checkbox"/> Automatically connect newly created widgets <input checked="" type="checkbox"/> Filter on data point selection</p> <p>Select widgets to connect to widget:</p> <p><input checked="" type="checkbox"/> Select All <input checked="" type="checkbox"/> 22 Gross Margin for Actual <input checked="" type="checkbox"/> 22 Sales Revenue for Actual <input checked="" type="checkbox"/> 22 Avg Sales Revenue for Actual</p> <p style="text-align: right;"><b>Apply</b> <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">1</span> Cancel</p>

SAP Analytics Cloud - Google Chrome
<p>👉 We can now test Linked Analysis on a data point filter.</p> <p>(1) Click on a member of the chart.</p>

Explanation	Screenshot
<p>👉 Do you see your linked charts change when highlighting a Sales Manager? Notice how the CGR in our time dimension chart is positive under this filter.</p>	
<p>(1) Click away on the chart to deselect the Linked Analysis.</p>	
<p>⚠️ Quality Check! Does your dashboard look like this screenshot? 💡 You have now completed the <b>Linked Analysis and Input Controls</b> section! In this section, you have learned how to dynamically change page filters with an input control, add interactive measures and dimensions to charts also with input controls, and create powerful analytics between the charts in your story using linked analysis and data point filtering.</p>	

## Summary

You have completed the entire **Linked Analysis and Input Controls** section!

You are now able to:

- Create Page Filters and apply them to a subset of widgets only
- Add a measure and dimension input control
- Set up linked analysis to drive filters via widget interaction

## Geo Maps, Thresholds, and Variances



This section builds on top of another section. If you did not complete the previous section, [please open](#)



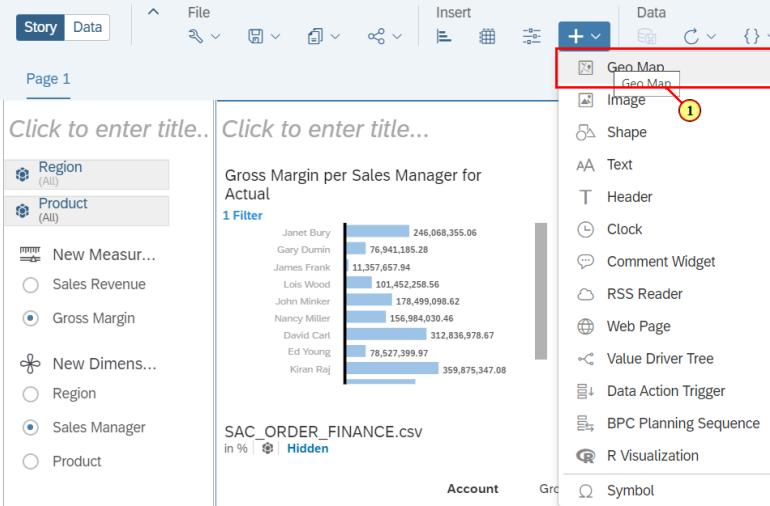
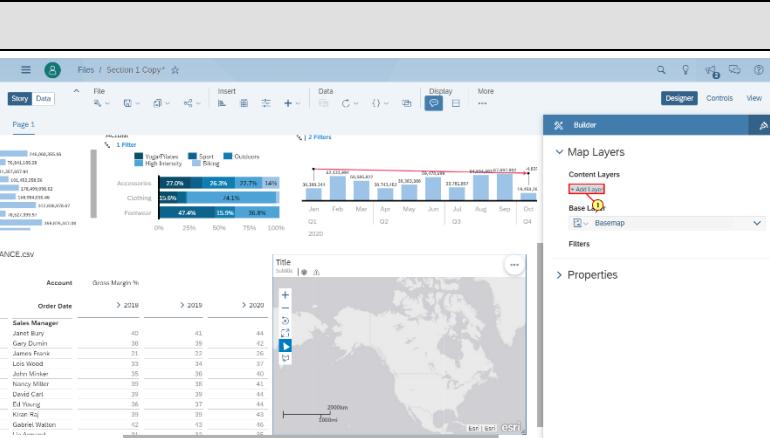
**Objective:** Create a Geo Visualization with location data and draw attention to what is important in your dashboard by highlighting where to focus on.

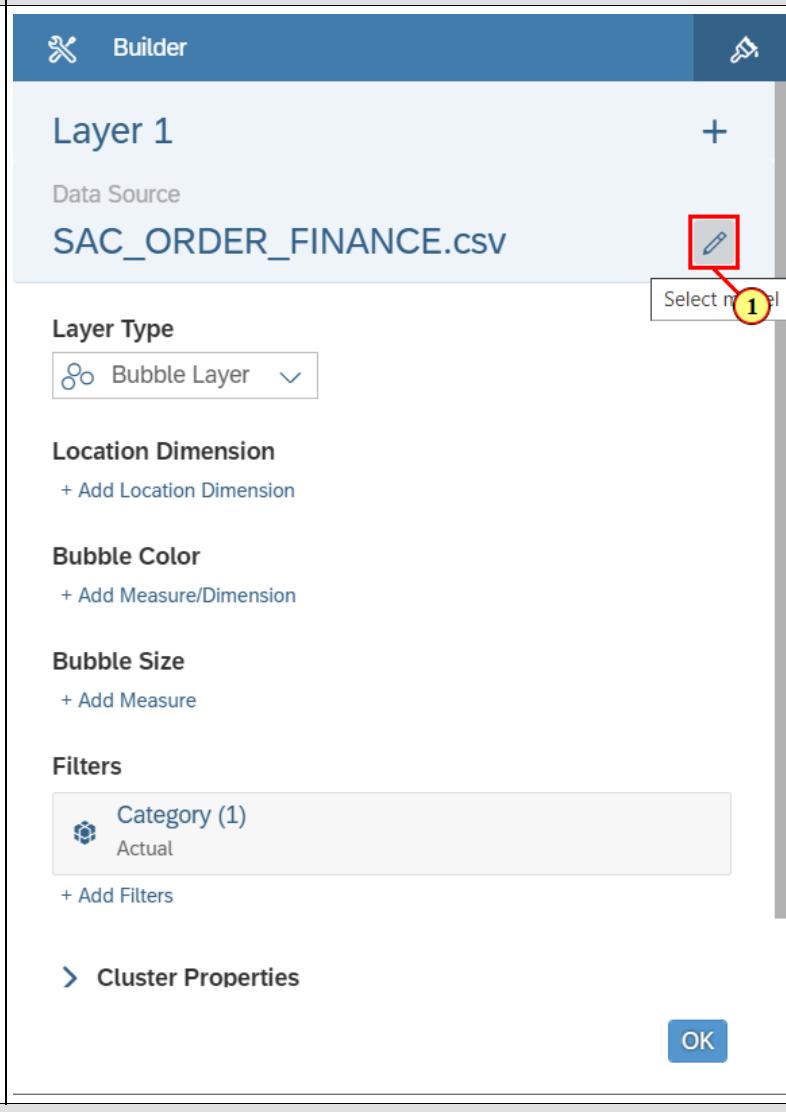
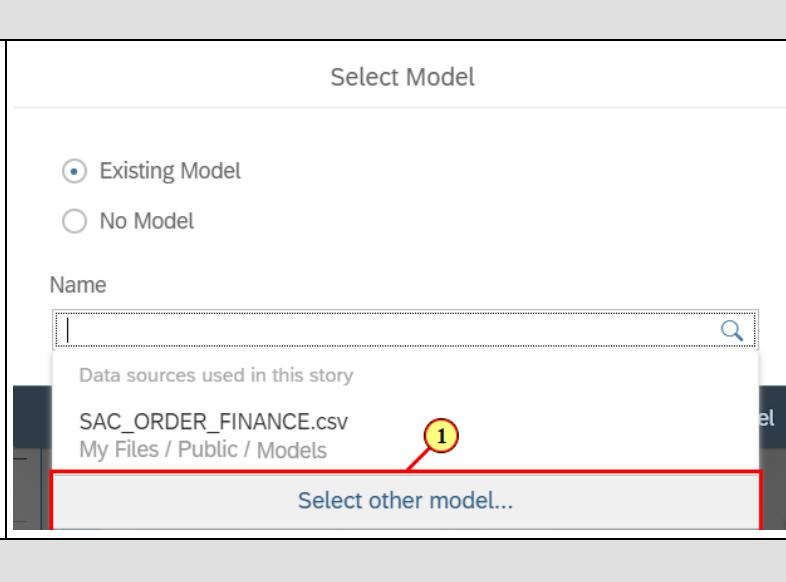
**Exercise Description:** In the previous sections we added charts, tables and interaction via input controls and linked analysis. Now we also want to add some geographical information to our dashboard and make our insights more relevant to end users by adding thresholds, variances and other features.

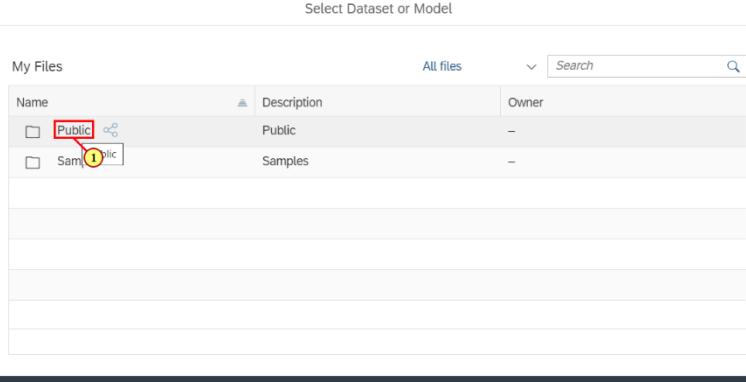
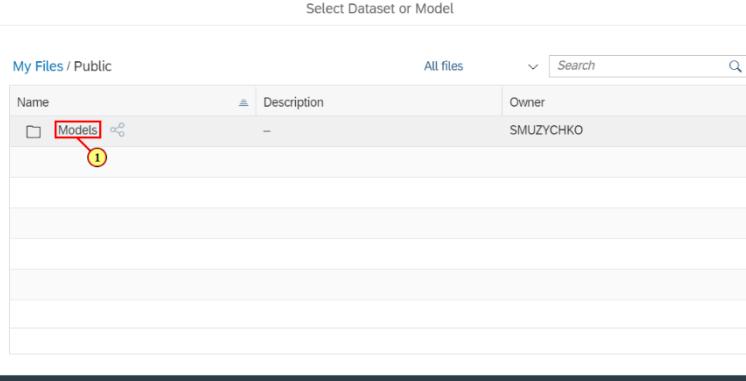
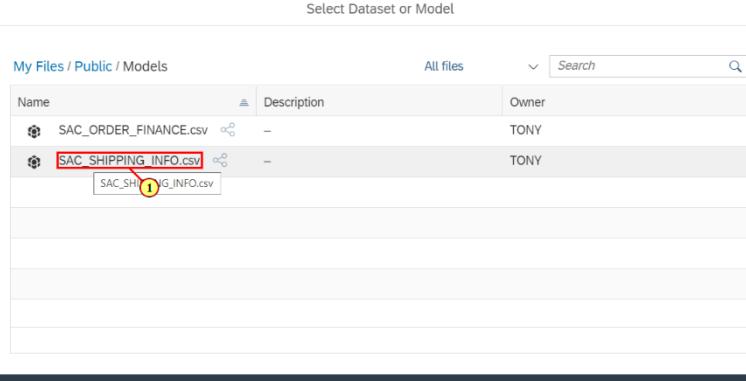
### Key Features:

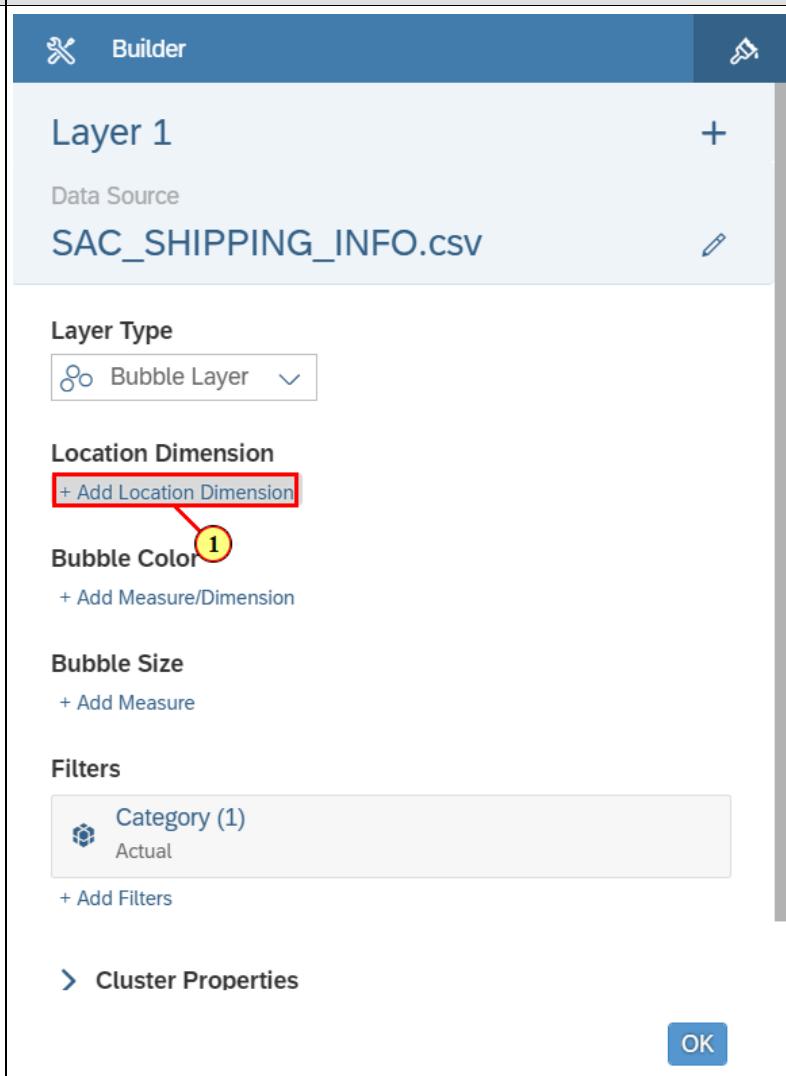
- Create Geo Map
- Learn about the different layers
- Drill into a Bubble Layer
- Change the base map of the visualization
- Use recommended comparison to quickly add variances to a chart
- Learn how to add reference lines and sort a chart
- Understand how to add a threshold to a table

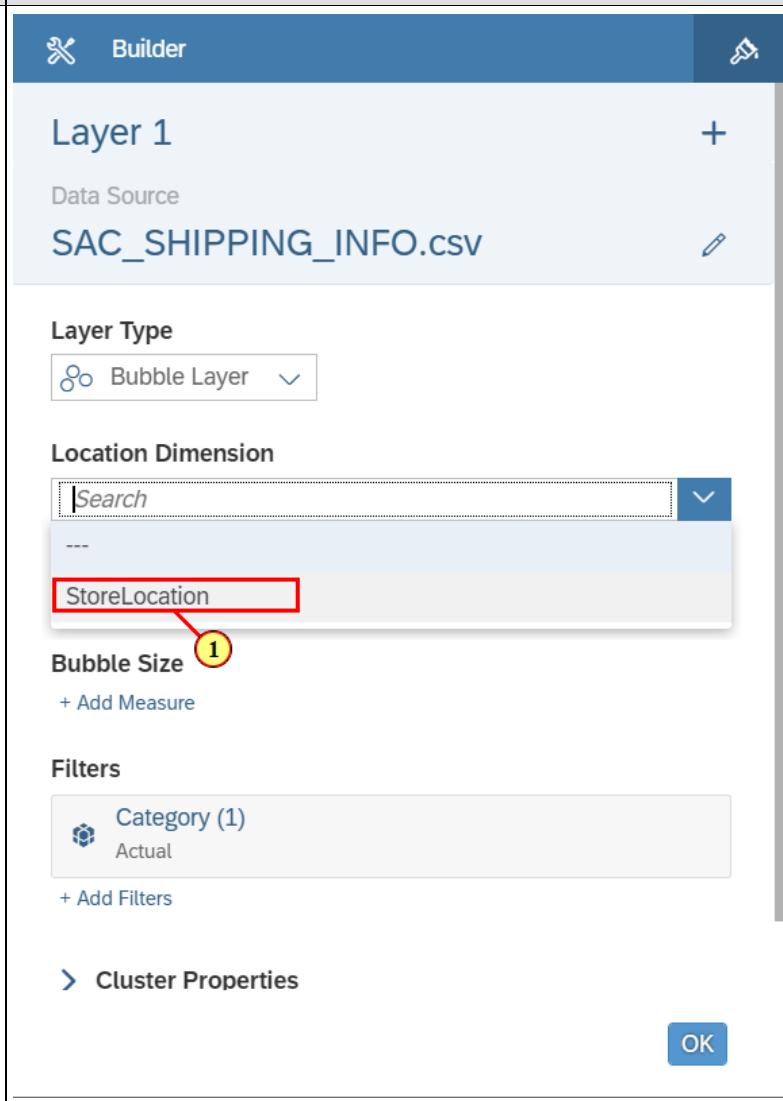
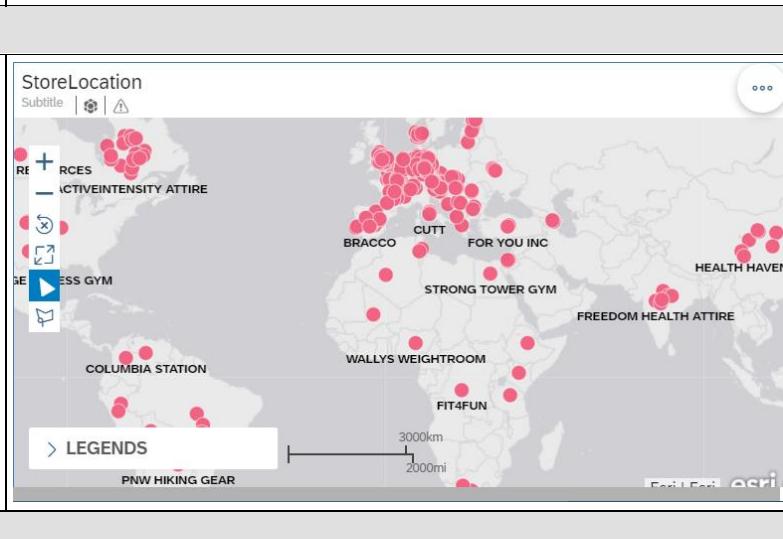
Explanation	Screenshot
<p><b>SAP Analytics Cloud - Google Chrome</b></p> <p>Next, let's add some geographical information into our dashboard.</p> <p>(1) Click <b>Add</b></p>	<p>The screenshot shows a dashboard with three main charts. On the left, there is a sidebar with various filters and dimensions selected. The first chart is a bar chart titled 'Gross Margin per Sales Manager for Actual'. The second chart is a stacked bar chart titled 'Gross Margin per Product, Workout Usage for Actual'. The third chart is a grouped bar chart titled 'Gross Margin per Order Date for Actual'. The top right corner of the dashboard has a toolbar with several icons, one of which is highlighted with a red box and a yellow circle containing a question mark, indicating the 'Add' button.</p>

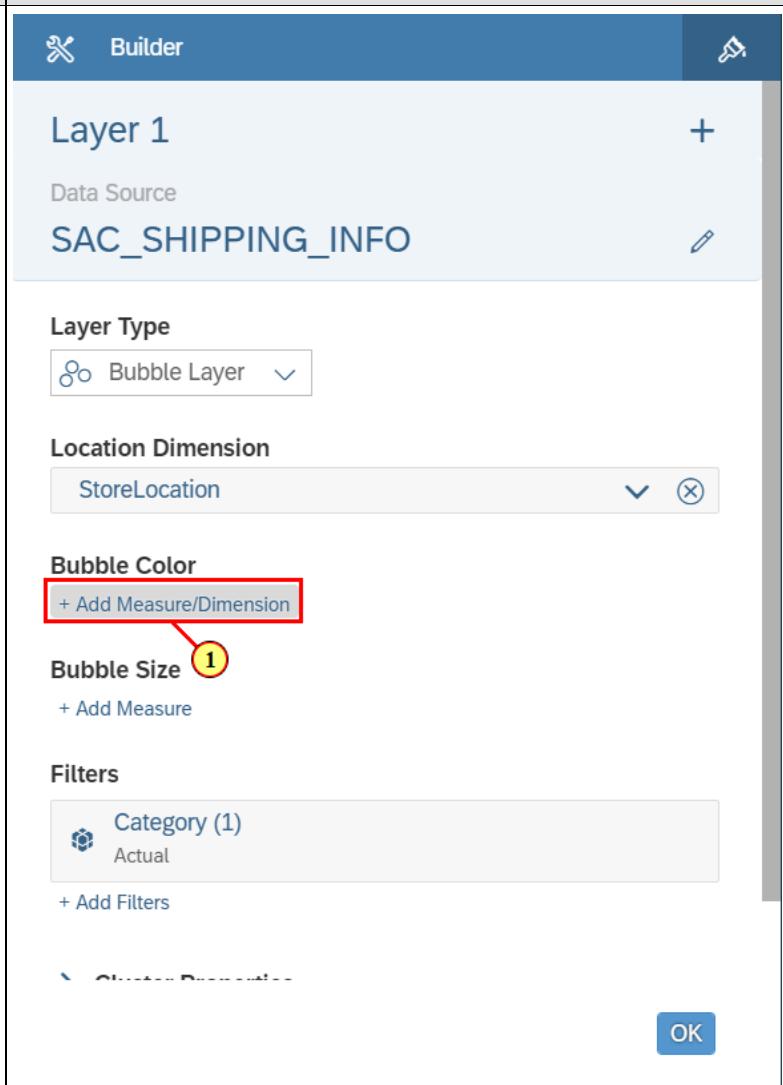
Explanation	Screenshot
<p>(1) Click <b>Geo Map</b></p>	 <p>The screenshot shows the SAP Analytics Cloud interface with the 'Data' tab selected in the ribbon. A red box highlights the 'Geo Map' icon in the ribbon, and a yellow circle with the number '1' is placed next to it. The main area displays a bar chart titled 'Gross Margin per Sales Manager for Actual' with data for various sales managers.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p> Geo visualizations consist of one or multiple layers which can be sourced from different data sets. For our purposes, we will be using a bubble layer to individually represent measure values at store coordinates.</p> <p>(1) Click <b>Add Layer</b></p>	 <p>The screenshot shows a SAP Analytics Cloud dashboard with various visualizations. The 'Builder' panel on the right is open, showing the 'Map Layers' section with a red box highlighting the 'Content Layers' dropdown. The dashboard includes a bubble chart, a bar chart, and a map visualization.</p>
<p>SAP Analytics Cloud - Google Chrome</p>	

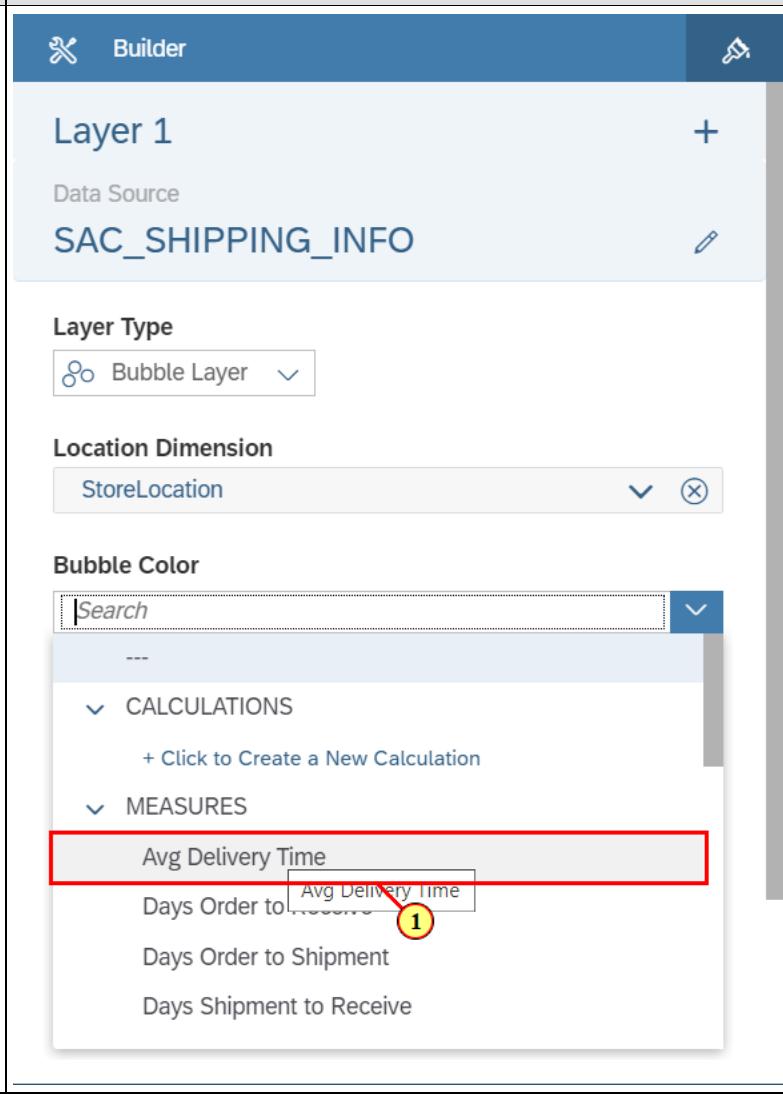
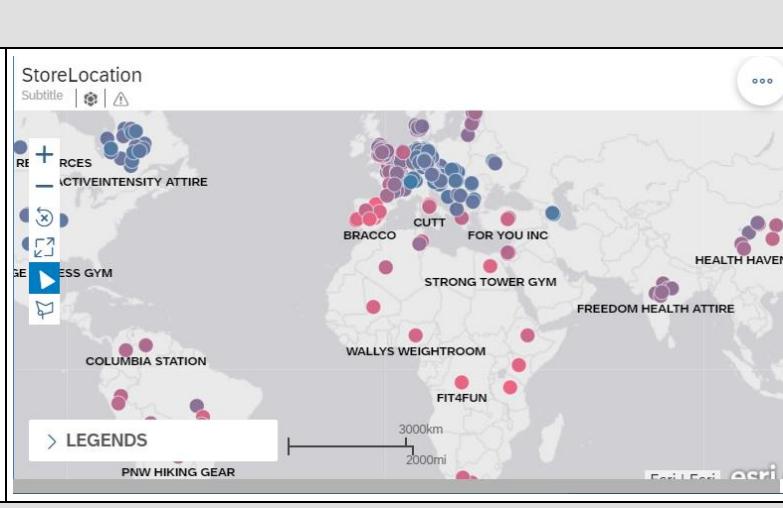
Explanation	Screenshot
<p>We are going to be using a secondary model in this exercise. SAP Analytics Cloud supports using multiple models in a dashboard to best represent your story.</p> <p>(1) Click <b>Select Model</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. A layer named "Layer 1" is selected, with its data source set to "SAC_ORDER_FINANCE.csv". The "Layer Type" is set to "Bubble Layer". Configuration sections include "Location Dimension", "Bubble Color", "Bubble Size", and "Filters" (Category: Actual). A red box highlights the "Select model..." button in the top right corner of the configuration panel, which is circled with a red number 1.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Select other model...</b></p>	 <p>The screenshot shows the "Select Model" dialog. It has two radio button options: "Existing Model" (selected) and "No Model". Below the radio buttons is a search bar with the placeholder "Name". Underneath the search bar is a list titled "Data sources used in this story" containing "SAC_ORDER_FINANCE.csv" and "My Files / Public / Models". At the bottom of the dialog is a red box highlighting the "Select other model..." button, which is circled with a red number 1.</p>

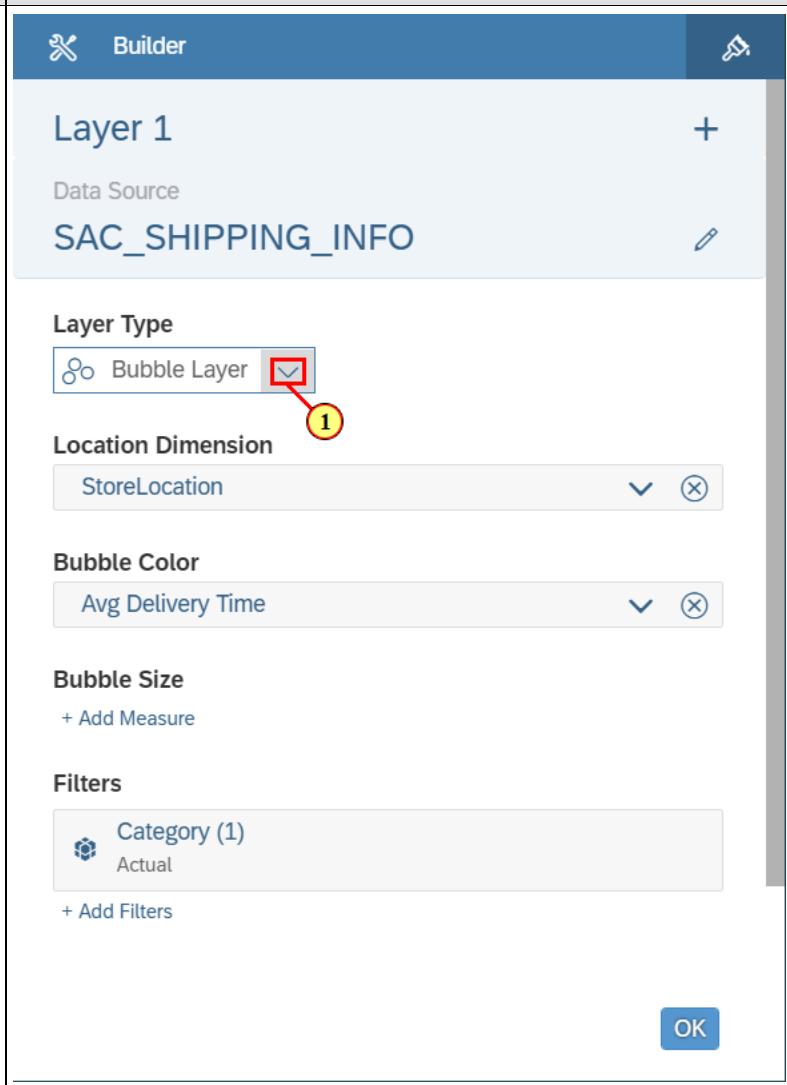
Explanation	Screenshot												
(1) Click <b>Public</b>	 <p>Select Dataset or Model</p> <p>My Files</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>Public</td> <td>Public</td> <td>-</td> </tr> <tr> <td>Samples</td> <td>Samples</td> <td>-</td> </tr> </tbody> </table> <p>Cancel</p>	Name	Description	Owner	Public	Public	-	Samples	Samples	-			
Name	Description	Owner											
Public	Public	-											
Samples	Samples	-											
SAP Analytics Cloud - Google Chrome  (1) Click <b>Models</b>	 <p>Select Dataset or Model</p> <p>My Files / Public</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>Models</td> <td>-</td> <td>SMUZYCHKO</td> </tr> </tbody> </table> <p>Cancel</p>	Name	Description	Owner	Models	-	SMUZYCHKO						
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SAP Analytics Cloud - Google Chrome  (1) Click <b>SAC_SHIPPING_INFO</b>	 <p>Select Dataset or Model</p> <p>My Files / Public / Models</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Owner</th> </tr> </thead> <tbody> <tr> <td>SAC_ORDER_FINANCE.csv</td> <td>-</td> <td>TONY</td> </tr> <tr> <td>SAC_SHIPPING_INFO.csv</td> <td>-</td> <td>TONY</td> </tr> <tr> <td>SAC_SHIPPING_INFO.csv</td> <td></td> <td></td> </tr> </tbody> </table> <p>Cancel</p>	Name	Description	Owner	SAC_ORDER_FINANCE.csv	-	TONY	SAC_SHIPPING_INFO.csv	-	TONY	SAC_SHIPPING_INFO.csv		
Name	Description	Owner											
SAC_ORDER_FINANCE.csv	-	TONY											
SAC_SHIPPING_INFO.csv	-	TONY											
SAC_SHIPPING_INFO.csv													
SAP Analytics Cloud - Google Chrome													

Explanation	Screenshot
(1) Click <b>Add Location Dimension</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. A tooltip 'Layer 1' is displayed above the data source 'SAC_SHIPPING_INFO.csv'. The 'Layer Type' is set to 'Bubble Layer'. In the 'Location Dimension' section, there is a red box around the link '+ Add Location Dimension'. A yellow circle with the number '1' is placed over this link, indicating it is the step to click. Below this, there is a link '+ Add Measure/Dimension'. The 'Bubble Size' section contains a link '+ Add Measure'. The 'Filters' section shows a category 'Category (1)' with 'Actual' selected, and a link '+ Add Filters'. At the bottom right, there is an 'OK' button.</p>

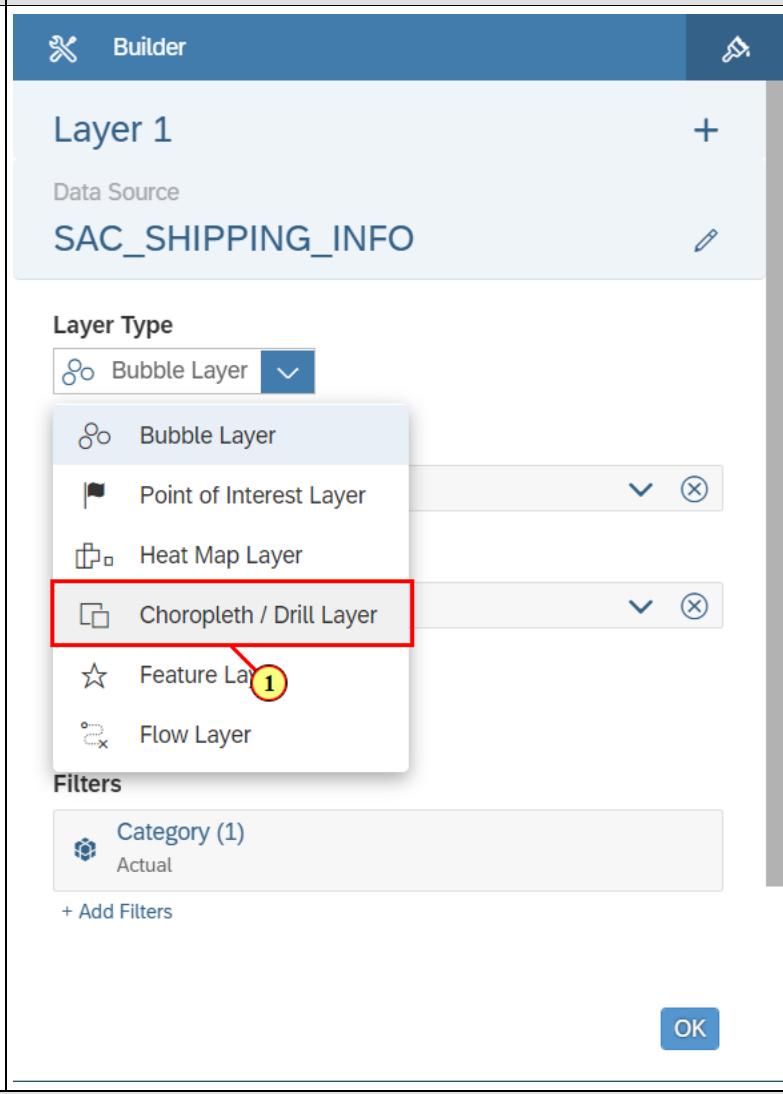
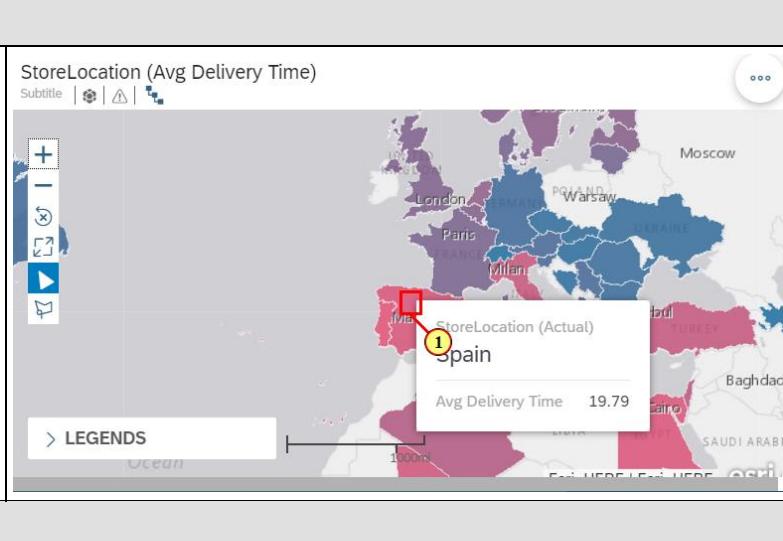
Explanation	Screenshot
<p>👉 The dimension displayed in Location Dimension is a geo-enriched dimension that can be built in your dataset from location names or latitude/longitude coordinates.</p> <p>(1) Click <b>StoreLocation</b></p>	
<p>⚠️ Quality Check! Does your Geo Map populate with stores similar to this screenshot? Let's add a measure into color to extract more information about our data in this visualization.</p>	

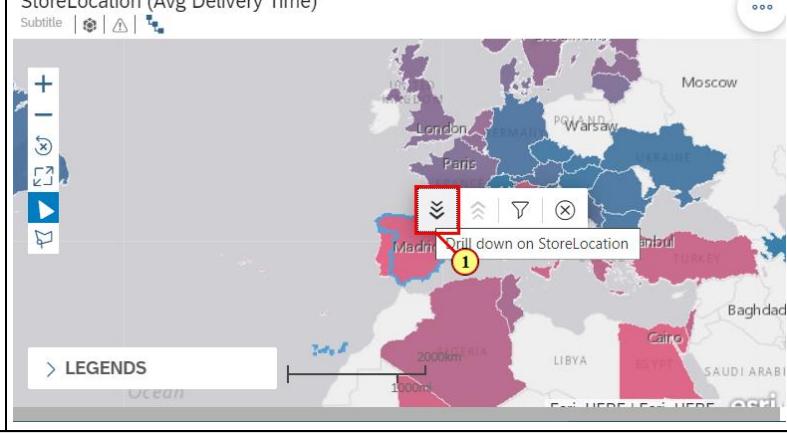
Explanation	Screenshot
(1) Click <b>Add Measure/Dimension</b>	

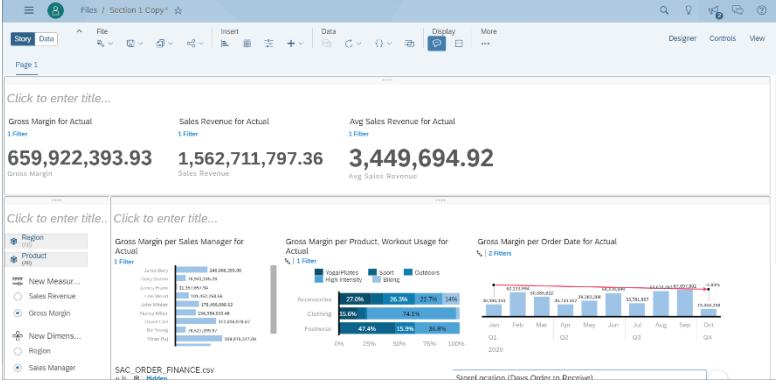
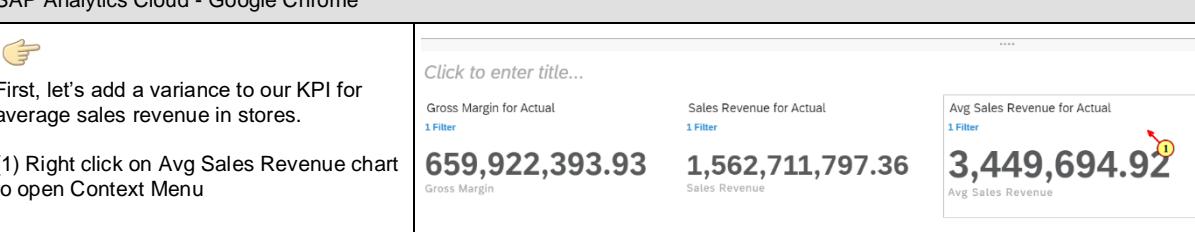
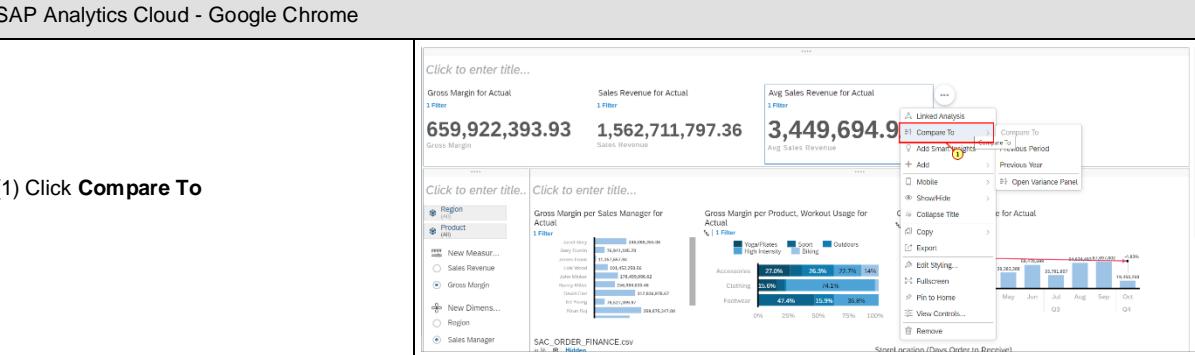
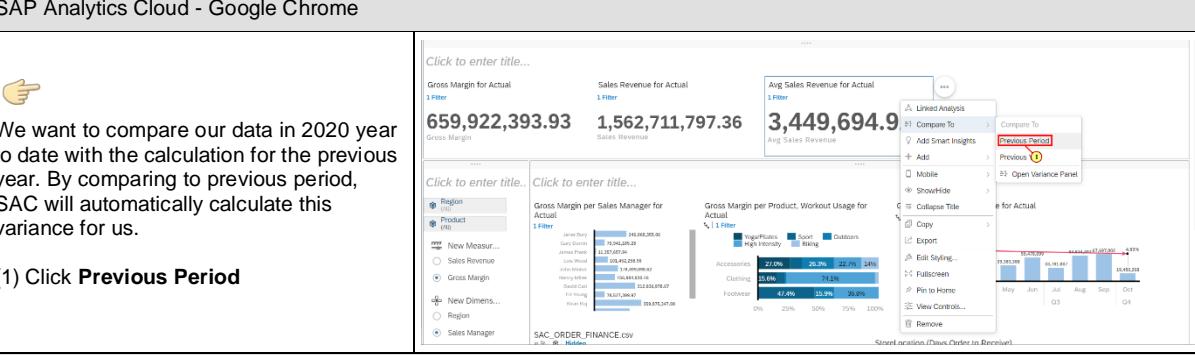
Explanation	Screenshot
(1) Click <b>Avg Delivery Time</b> to color code the Geo Map by average time for stores to receive their order.	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. A layer named "Layer 1" is selected, which is based on the data source "SAC_SHIPPING_INFO". The "Layer Type" is set to "Bubble Layer". Under "Location Dimension", "StoreLocation" is chosen. In the "Bubble Color" section, a dropdown menu is open, showing various measures: "Avg Delivery Time", "Days Order to Ship", "Days Order to Shipment", and "Days Shipment to Receive". The "Avg Delivery Time" option is highlighted with a red rectangle and a yellow circle containing the number "1", indicating it is the correct choice for coloring the map.</p>
<p> Quality Check! Does your Geo Map look like this screenshot? Next, we will look at using a different layer type to represent our data.</p>	 <p>The screenshot shows a geo map from SAP Analytics Cloud in Google Chrome. The map displays various store locations across a geographic area, represented by bubbles of different sizes and colors. The legend indicates that the bubble size corresponds to the "Avg Delivery Time" measure. Labels on the map include "RCES", "ACTIVEINTENSITY ATTIRE", "CUTT", "FOR YOU INC", "HEALTH HAVEN", "STRONG TOWER GYM", "FREEDOM HEALTH ATTIRE", "WALLYS WEIGHTROOM", "FIT4FUN", "PNW HIKING GEAR", "COLUMBIA STATION", and "GESS GYM". A scale bar at the bottom right shows distances of 3000km and 2000mi.</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>There are other layers applicable to our Geo Map. For a start, let's explore the choropleth layer.</p> <p>(1) Click <b>Expand</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface with the following configuration:</p> <ul style="list-style-type: none"> <li><b>Layer Type:</b> Bubble Layer (highlighted with a red box and a yellow circle labeled '1').</li> <li><b>Location Dimension:</b> StoreLocation</li> <li><b>Bubble Color:</b> Avg Delivery Time</li> <li><b>Bubble Size:</b> + Add Measure</li> <li><b>Filters:</b> Category (1) Actual</li> </ul> <p>An 'OK' button is visible at the bottom right.</p>

SAP Analytics Cloud - Google Chrome

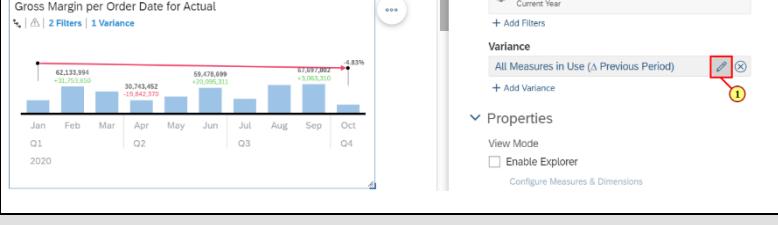
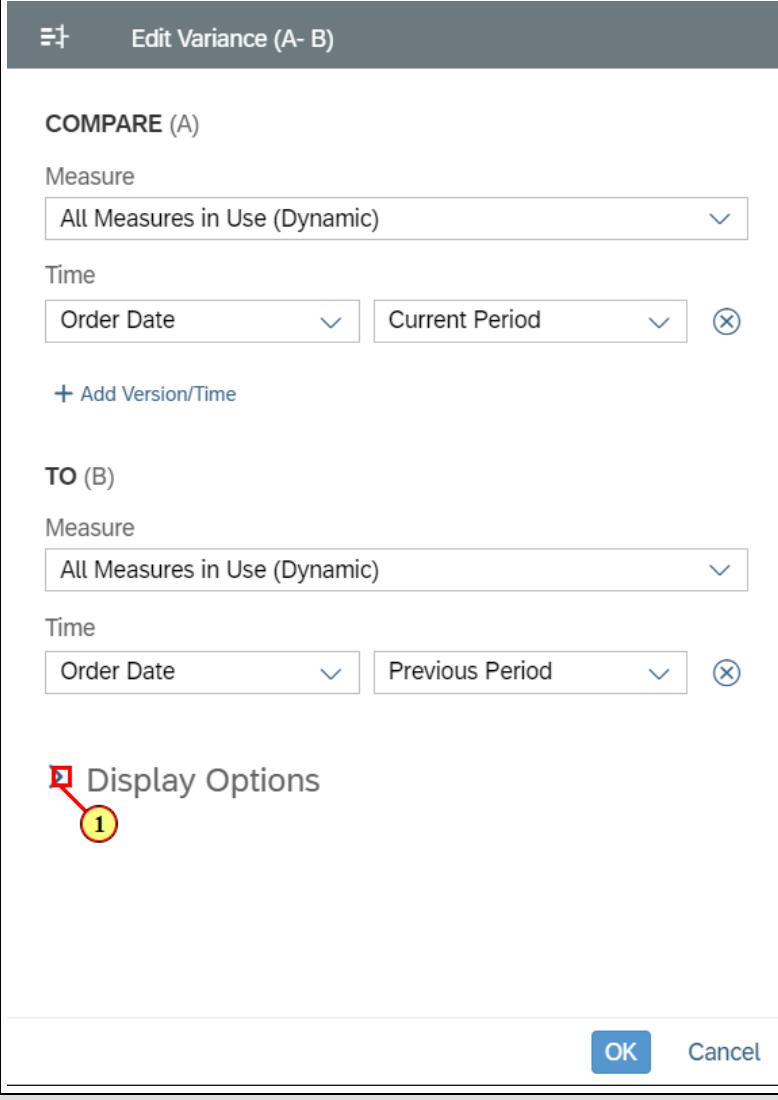
Explanation	Screenshot
(1) Click Choropleth / Drill Layer	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. In the top navigation bar, there's a 'Builder' icon and a search icon. Below the navigation, it says 'Layer 1' and 'Data Source SAC_SHIPPING_INFO'. A dropdown menu titled 'Layer Type' is open, showing several options: 'Bubble Layer', 'Point of Interest Layer', 'Heat Map Layer', 'Choropleth / Drill Layer' (which is highlighted with a red box and has a yellow circle with the number 1 pointing to it), 'Feature Layer', and 'Flow Layer'. Below the dropdown, there's a 'Filters' section with a 'Category (1)' dropdown set to 'Actual' and a '+ Add Filters' button. At the bottom right of the dialog is a blue 'OK' button.</p>
<p> A choropleth layer aggregates values in the Geo Map, making it easier for a user to discover outliers and trends. As we can see in the geo visualization, Spain appears to have higher than average delivery times on orders. Let's drill down on this layer to understand the data.</p> <p>(1) Click on Spain</p>	 <p>The screenshot shows a choropleth map of Europe where countries are colored based on average delivery times. Spain is highlighted with a red box and a yellow circle containing the number 1. A tooltip for Spain displays the text 'StoreLocation (Actual)' and 'Avg Delivery Time 19.79'. The map also includes labels for major cities like London, Paris, and Milan, and neighboring countries like France, Italy, and Portugal. There are also labels for Moscow, Warsaw, and Baghdad. A legend at the bottom left shows color-coded categories for delivery times, and a scale bar indicates distances up to 1000km.</p>

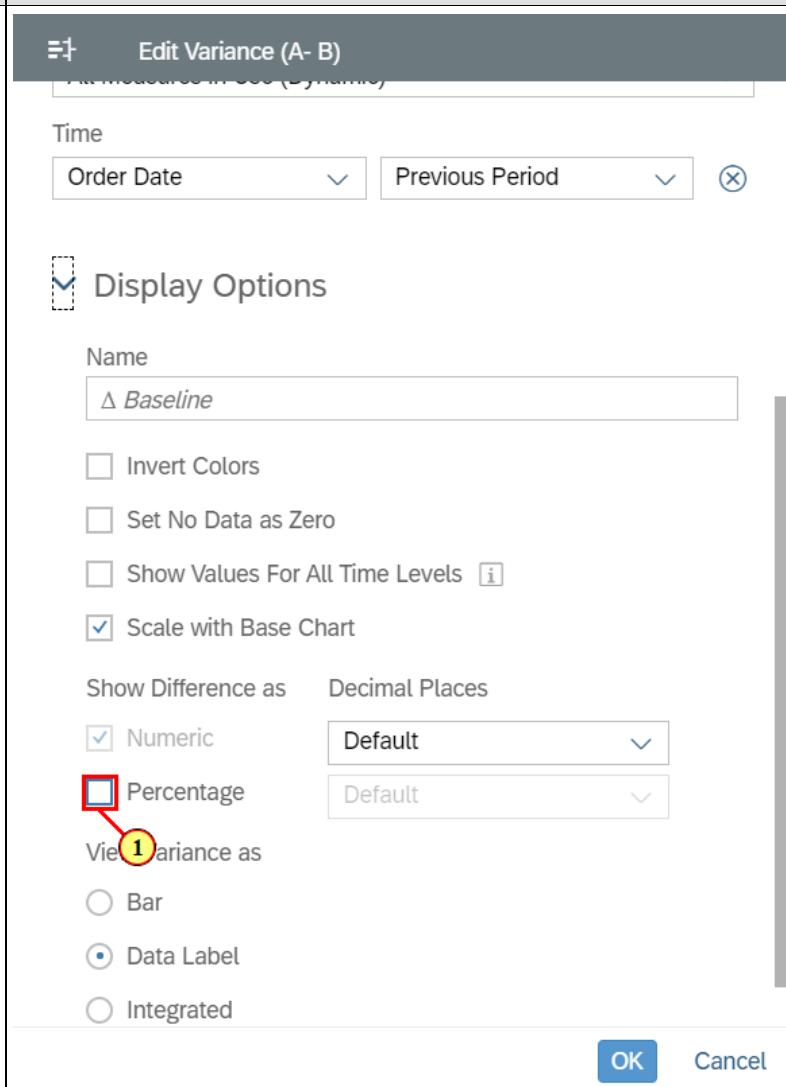
Explanation	Screenshot
(1) Click <b>Drill down</b>	<p>StoreLocation (Avg Delivery Time)</p> 
<p>SAP Analytics Cloud - Google Chrome</p> <p>From drilling down on our country layer, we are now able to see the distribution of average delivery times in the regions of Spain. It appears only one region is doing poorly and may require further business action. Let's return to our country layer.</p> <p>(1) Click <b>Drill Filter</b></p>	<p>StoreLocation (Avg Delivery Time)</p> 
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) To exit this filter, click <b>Close</b></p>	<p>StoreLocation (Avg Delivery Time)</p> 
<p>SAP Analytics Cloud - Google Chrome</p>	

Explanation	Screenshot
 Up to this point, we have created a lot of visualizations. In order for us to easily draw conclusions and highlight key insights, we should add additional information to the values on our charts. This can be done with thresholds and variances.	
SAP Analytics Cloud - Google Chrome	
 First, let's add a variance to our KPI for average sales revenue in stores.	
(1) Right click on Avg Sales Revenue chart to open Context Menu	
SAP Analytics Cloud - Google Chrome	
(1) Click Compare To	
We want to compare our data in 2020 year to date with the calculation for the previous year. By comparing to previous period, SAC will automatically calculate this variance for us.	
(1) Click Previous Period	
SAP Analytics Cloud - Google Chrome	

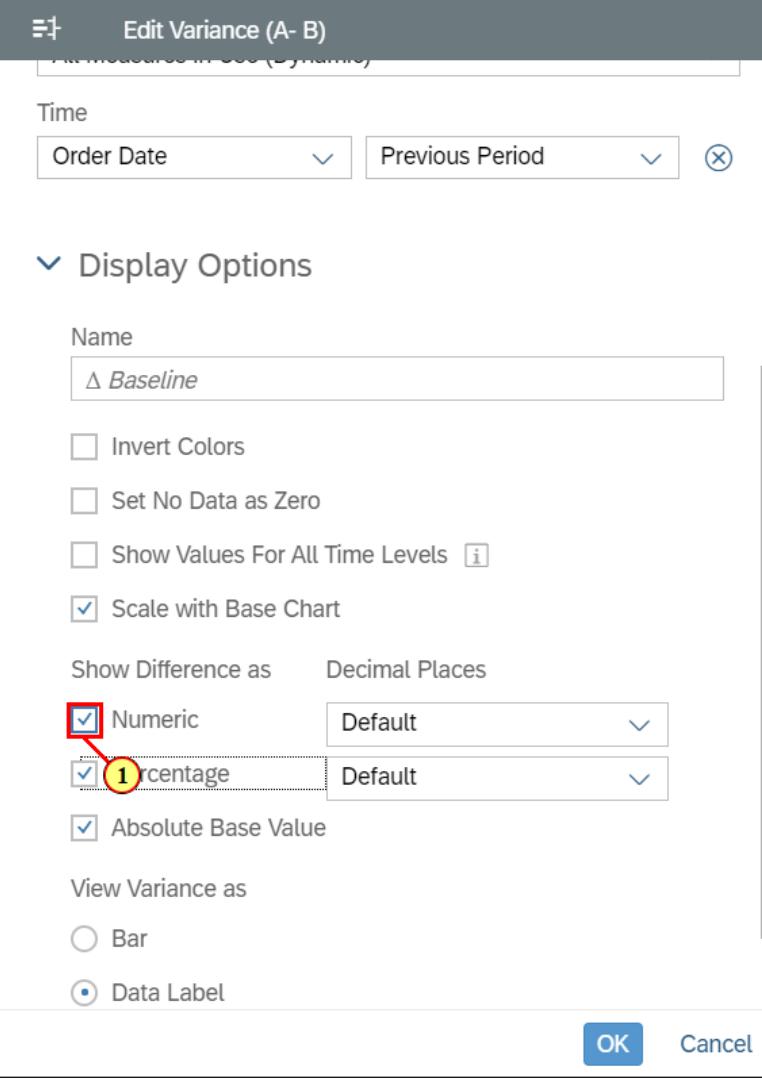
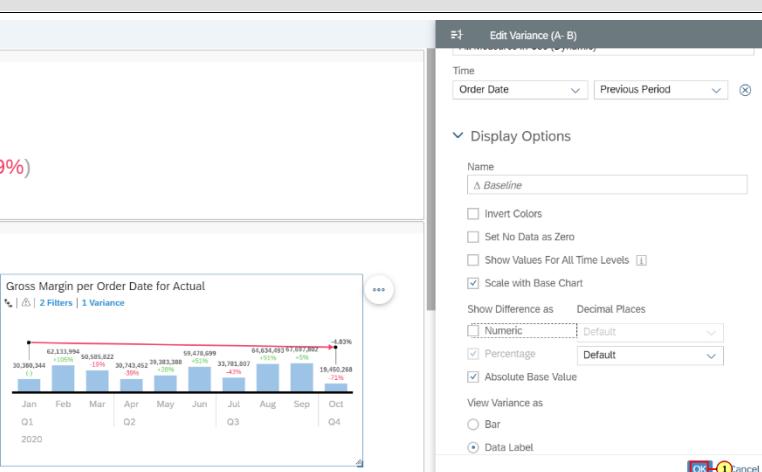
Explanation	Screenshot
<p>👉 After creating our variance, the absolute value may still be hard to contextually understand. We can further adjust the display options and formatting of this variance.</p> <p>(1) Click <b>Variance</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Edit All Measures in Use</b></p>	
<p>👉 In this panel, users can choose how they want to format their variances to best fit their data.</p> <p>(1) Click <b>Percentage</b></p>	
<p>We are comparing a KPI across two periods using a single number. In this instance, a percentage would be easier to understand for an end user.</p> <p>(1) Deselect <b>Numbers</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click off the menu to see your new variance</p> <p>👉 The variance now looks great! We can clearly see that average sales revenue in</p>	

Explanation	Screenshot
our stores has experienced a 3.7% drop from the last period.	
SAP Analytics Cloud - Google Chrome	
<p>Now let's add more variances to our chart. A good candidate to track change in data over time is our chart using a time dimension. SAC offers recommended comparisons in the builder panel to easily test useful variances in your data.</p> <p>(1) Add a recommended comparison in the <b>Gross Margin per Order Date</b> chart by clicking its Builder Panel.</p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click <b>Previous Period</b></p>	

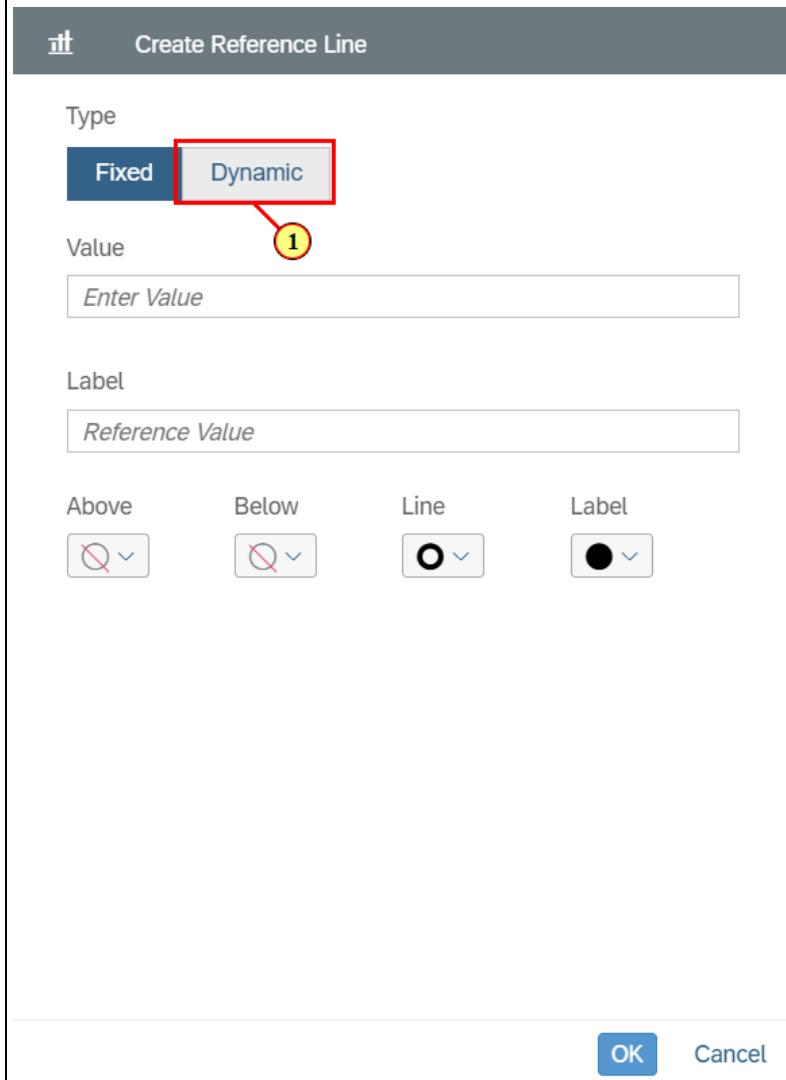
Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	
<p> Our variances show the difference between bars. We should change the formatting again to make the comparison more easily understood.</p> <p>(1) Click <b>Edit</b> to format the variance we created.</p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click <b>Display Options</b></p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>(1) Click <b>Percentage</b></p>	 <p>The screenshot shows the 'Edit Variance (A-B)' dialog box. At the top, there are dropdowns for 'Time' set to 'Order Date' and 'Previous Period'. Below this is a section titled 'Display Options' with a checked checkbox. Under 'Name', the text 'Baseline' is entered. In the 'Show Difference as' section, the 'Percentage' checkbox is selected (highlighted with a red box and a yellow circle with '1'). Other options like 'Numeric' and 'Bar' are also present. At the bottom right are 'OK' and 'Cancel' buttons.</p>

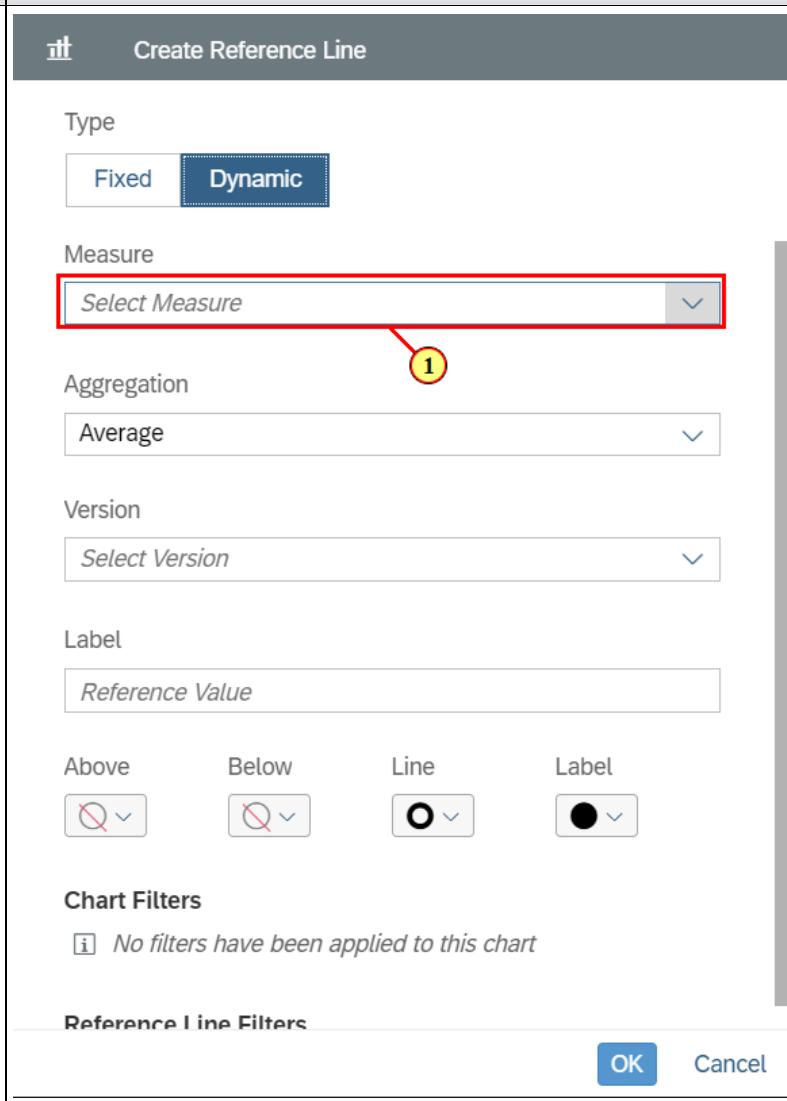
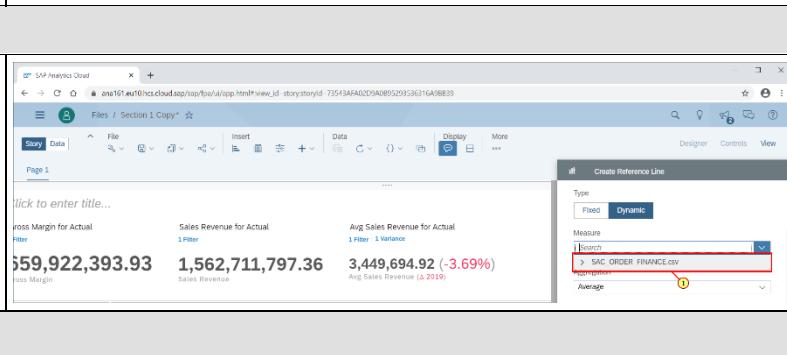
SAP Analytics Cloud - Google Chrome

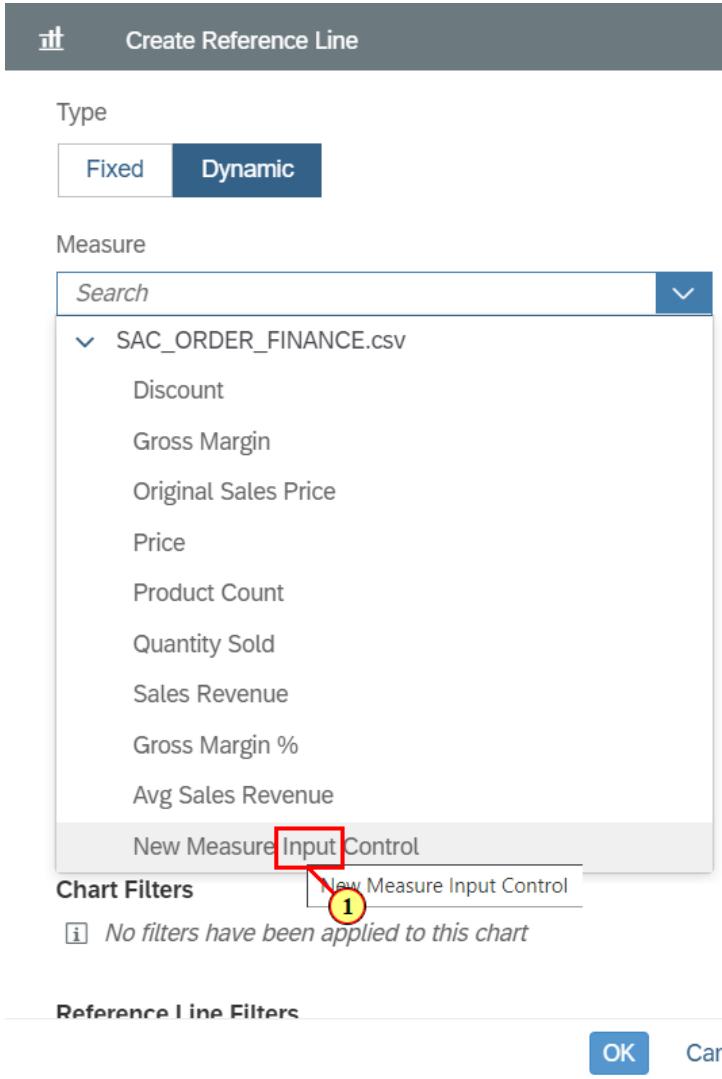
Explanation	Screenshot
(1) Deselect <b>Numeric</b>	 <p>(1) Deselect <b>Numeric</b></p>
 <p>Our variances are now displayed in percentages above our bars in our time dimension chart. It is much easier to identify and quantify large drops or rises in the data.</p> <p>(1) Click <b>OK</b></p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot																																				
<p>👉 Let's alter this chart so it is easier to compare Sales Managers. We can sort the chart and create a dynamic reference line to benchmark individual Sales Managers against the average.</p> <p>(1) Right click the Gross Margin per Sales Manager graph to open Context menu.</p>	<p>Click to enter title...</p> <p>Gross Margin per Sales Manager for Actual 1 Filter</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>Janet Bury</td><td>246,068,355.06</td></tr> <tr><td>Gary Dumin</td><td>76,941,185.28</td></tr> <tr><td>James Frank</td><td>11,357,657.94</td></tr> <tr><td>Lois Wood</td><td>101,452,258.56</td></tr> <tr><td>John Minker</td><td>178,499,098.62</td></tr> <tr><td>Nancy Miller</td><td>156,984,030.46</td></tr> <tr><td>David Carl</td><td>312,836,978.67</td></tr> <tr><td>Ed Young</td><td>78,527,399.97</td></tr> <tr><td>Kiran Raj</td><td>359,875,347.08</td></tr> </tbody> </table> <p>Gross Margin per Product, Workout Usage for Actual 1 Filter</p> <table border="1"> <thead> <tr> <th>Product Category</th> <th>Yoga/Pilates</th> <th>Sport</th> <th>Outdoors</th> </tr> </thead> <tbody> <tr><td>Accessories</td><td>27.0%</td><td>26.3%</td><td>22.7%</td></tr> <tr><td>Clothing</td><td>15.6%</td><td></td><td>74.1%</td></tr> <tr><td>Footwear</td><td>47.4%</td><td>15.9%</td><td>36.8%</td></tr> </tbody> </table>	Sales Manager	Gross Margin	Janet Bury	246,068,355.06	Gary Dumin	76,941,185.28	James Frank	11,357,657.94	Lois Wood	101,452,258.56	John Minker	178,499,098.62	Nancy Miller	156,984,030.46	David Carl	312,836,978.67	Ed Young	78,527,399.97	Kiran Raj	359,875,347.08	Product Category	Yoga/Pilates	Sport	Outdoors	Accessories	27.0%	26.3%	22.7%	Clothing	15.6%		74.1%	Footwear	47.4%	15.9%	36.8%
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<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 Our chart is now sorted by the measure from highest to lowest. Even if the Measure Input Control was swapped to Sales Revenue, we would still see a resorting to see Sales Revenue ranks. Now we can add a benchmark for comparison.</p> <p>(1) Click <b>Reference Line</b></p>	<p>Sales Revenue for Actual 1 Filter</p> <p>3.93 1,562,711, Sales Revenue</p> <p>Click to enter title...</p> <p>Gross Margin per Sales Manager for Actual 1 Filter</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>Kiran Raj</td><td>359,875,347.08</td></tr> <tr><td>David Carl</td><td>312,836,978.67</td></tr> <tr><td>Gabriel Walton</td><td>268,068,328.28</td></tr> <tr><td>Janet Bury</td><td>246,068,355.06</td></tr> <tr><td>John Minker</td><td>178,499,098.62</td></tr> <tr><td>Nancy Miller</td><td>156,984,030.46</td></tr> <tr><td>Lois Wood</td><td>101,452,258.56</td></tr> <tr><td>Lia Armand</td><td>85,092,981.27</td></tr> <tr><td>Ed Young</td><td>78,527,399.97</td></tr> </tbody> </table> <p>SAC_ORDER_FINANCE.csv</p>	Sales Manager	Gross Margin	Kiran Raj	359,875,347.08	David Carl	312,836,978.67	Gabriel Walton	268,068,328.28	Janet Bury	246,068,355.06	John Minker	178,499,098.62	Nancy Miller	156,984,030.46	Lois Wood	101,452,258.56	Lia Armand	85,092,981.27	Ed Young	78,527,399.97																
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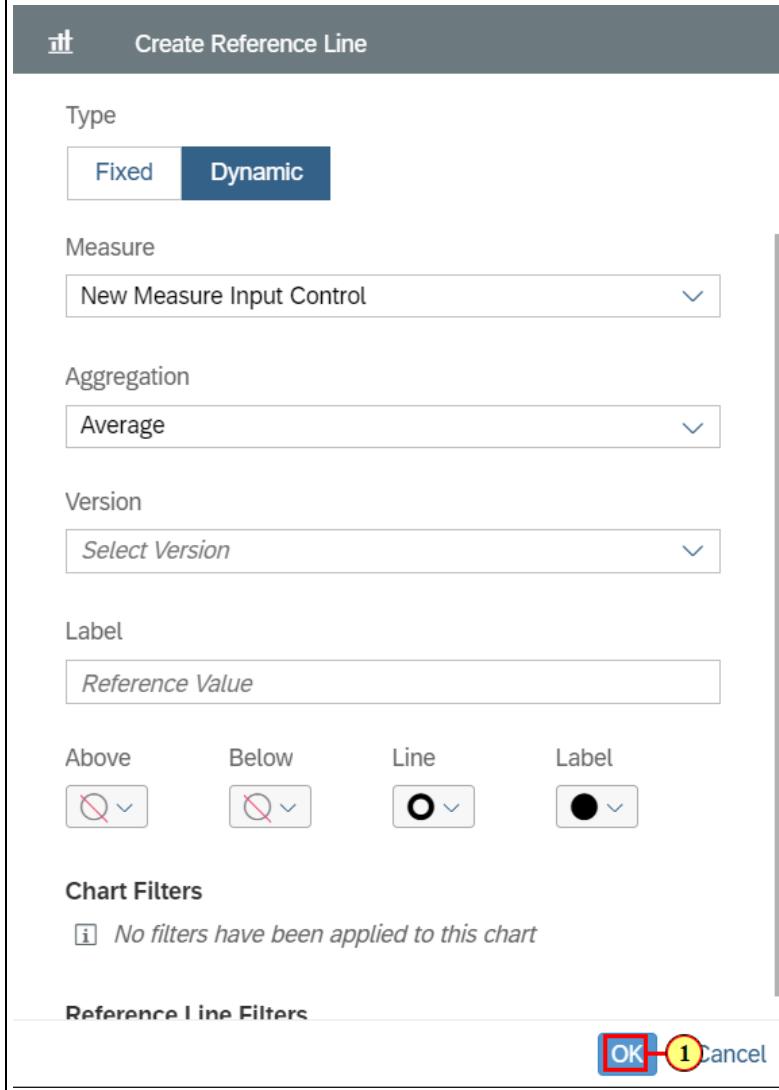
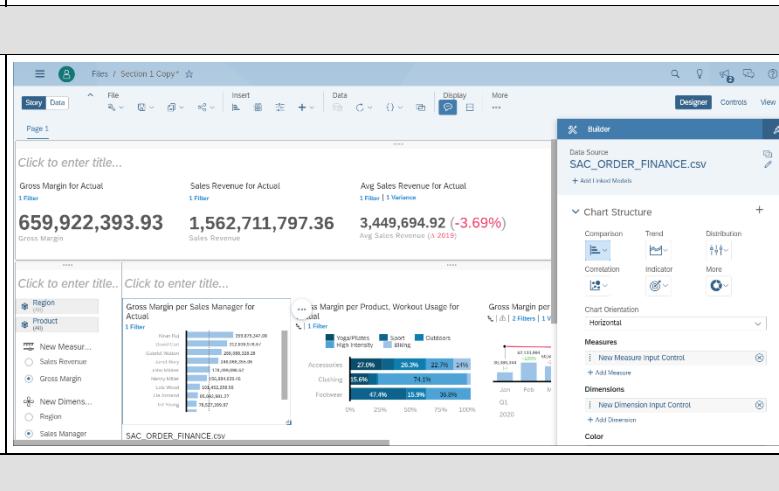
Explanation	Screenshot
(1) Click <b>Dynamic</b> in the Panel for Create Reference Line	 <p>1</p>

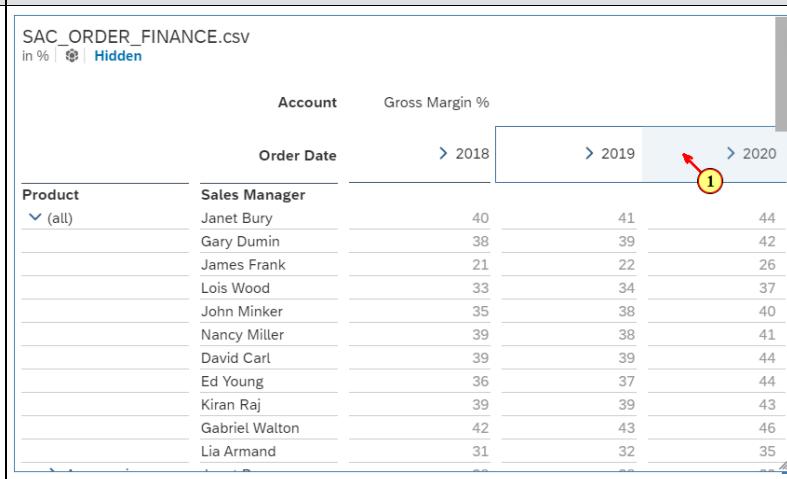
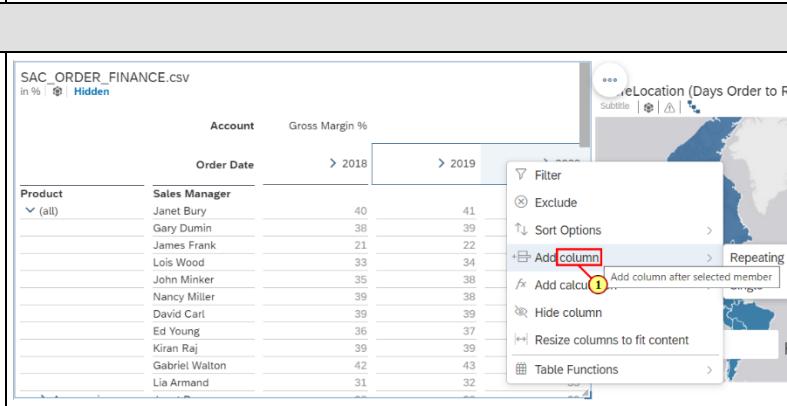
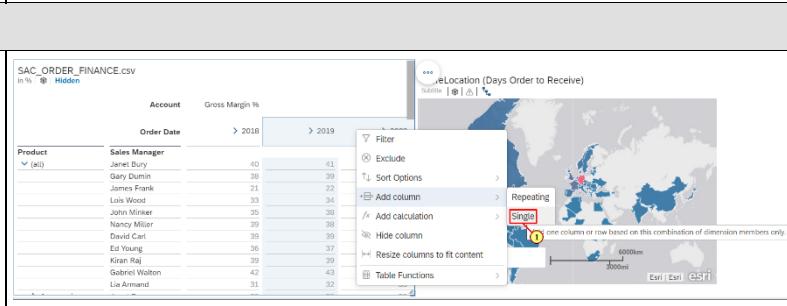
SAP Analytics Cloud - Google Chrome

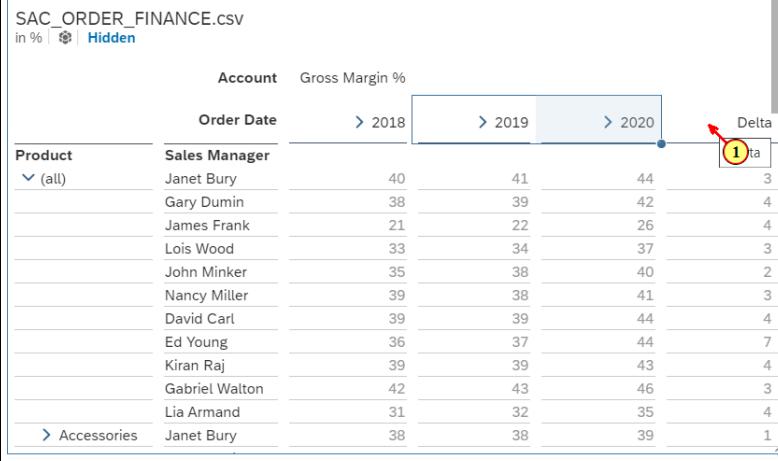
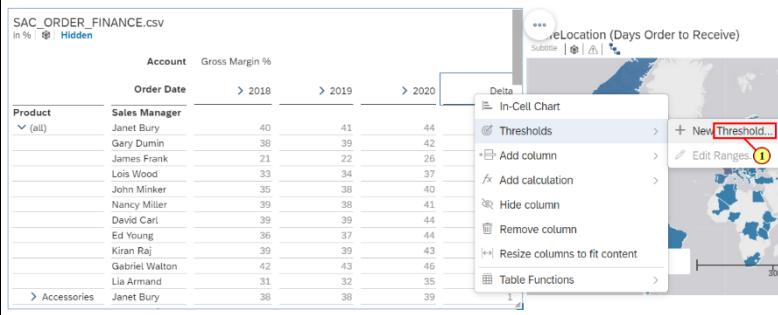
Explanation	Screenshot									
(1) Click <b>Select Measure</b>	 <p>Type</p> <p>Fixed    Dynamic</p> <p>Measure</p> <p>Select Measure</p> <p>Aggregation</p> <p>Average</p> <p>Version</p> <p>Select Version</p> <p>Label</p> <p>Reference Value</p> <p>Above    Below    Line    Label</p> <p>OK    Cancel</p>									
(1) Click <b>SAC_ORDER_FINANCE</b>	 <p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>SAC_ORDER_FINANCE</b></p> <table border="1"> <thead> <tr> <th>Gross Margin for Actual</th> <th>Sales Revenue for Actual</th> <th>Avg Sales Revenue for Actual</th> </tr> </thead> <tbody> <tr> <td>559,922,393.93</td> <td>1,562,711,797.36</td> <td>3,449,694.92 (-3.69%)</td> </tr> <tr> <td>Avg Sales Revenue</td> <td>Avg Sales Revenue (Δ 2019)</td> <td></td> </tr> </tbody> </table> <p>SAP Analytics Cloud - Google Chrome</p>	Gross Margin for Actual	Sales Revenue for Actual	Avg Sales Revenue for Actual	559,922,393.93	1,562,711,797.36	3,449,694.92 (-3.69%)	Avg Sales Revenue	Avg Sales Revenue (Δ 2019)	
Gross Margin for Actual	Sales Revenue for Actual	Avg Sales Revenue for Actual								
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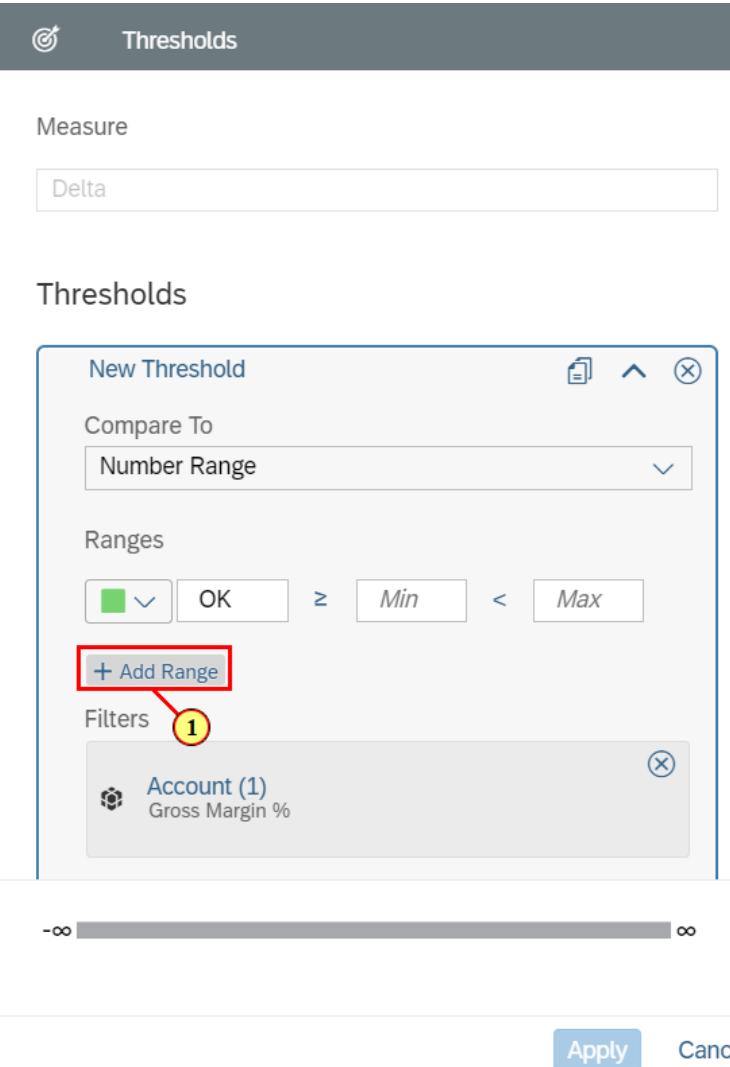
Explanation	Screenshot
<p>(1) Click <b>Measure Input Control</b> as measure for calculating reference line</p> <p> By choosing a Measure Input Control as the measure for the reference line, any changes to the input control will be reflected in a new reference line.</p>	

SAP Analytics Cloud - Google Chrome

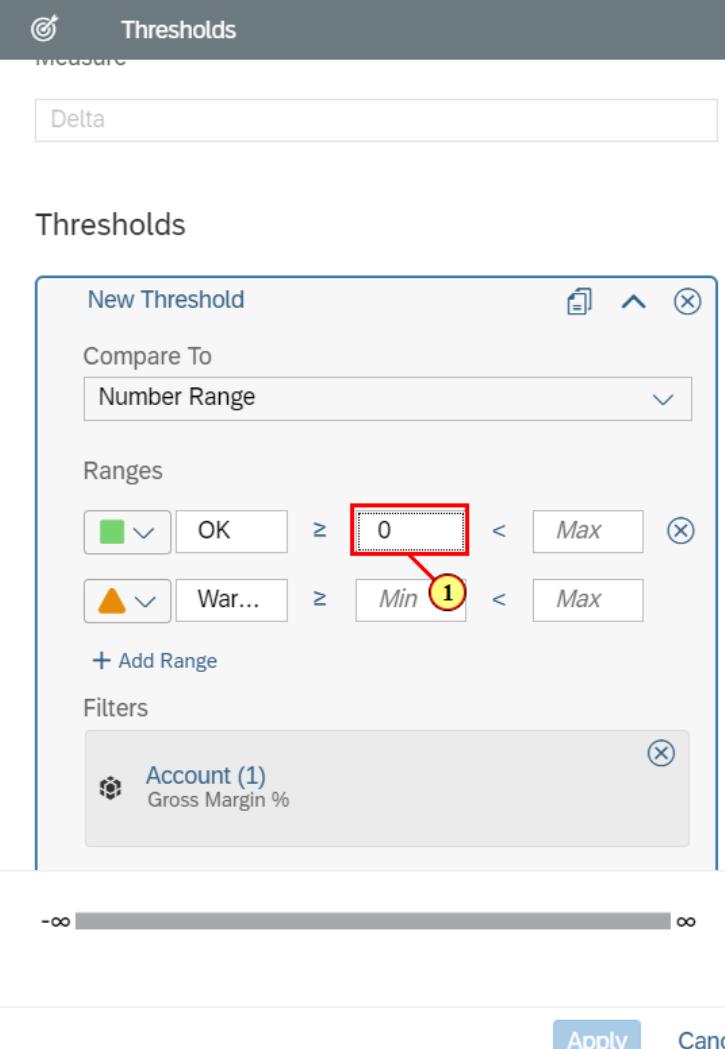
Explanation	Screenshot
(1) Click <b>OK</b>	 <p>The screenshot shows the 'Create Reference Line' dialog box. The 'Type' section has 'Fixed' selected. The 'Measure' section shows 'New Measure Input Control'. The 'Aggregation' section has 'Average' selected. The 'Version' section shows 'Select Version'. The 'Label' section has 'Reference Value'. Below these are four options: 'Above' (with a crossed-out Q), 'Below' (with a crossed-out Q), 'Line' (with a black circle icon), and 'Label' (with a black circle icon). At the bottom, it says 'Chart Filters' with 'No filters have been applied to this chart' and 'Reference Line Filters'. The 'OK' button is highlighted with a red box and a yellow circle containing the number 1.</p>
SAP Analytics Cloud - Google Chrome	 <p>The screenshot shows a SAP Analytics Cloud dashboard. On the left, there's a sidebar with filter controls for Region, Product, New Measure, Sales Revenue, Gross Margin, New Dimension, and Sales Manager. The main area displays several charts: a large bar chart for Sales Revenue, a line chart for Avg Sales Revenue, and a pie chart for Gross Margin per Product. A callout bubble in the bottom-left corner asks 'Quality Check! Do you have a reference line and sorted chart for Sales Managers in your story?' with a blue checkmark icon. The top navigation bar includes 'File / Section 1 Copy*', 'Insert', 'Data', 'Display', and 'More'.</p>

Explanation	Screenshot
<p> We would like to now add a variance in our table to easily highlight the change in gross margin % between years. This can be done automatically through the context menu.</p> <p>(1) Scroll down to the table and select 2019 and 2020 columns.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Right click to open Context Menu and click <b>Add Column</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Single</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

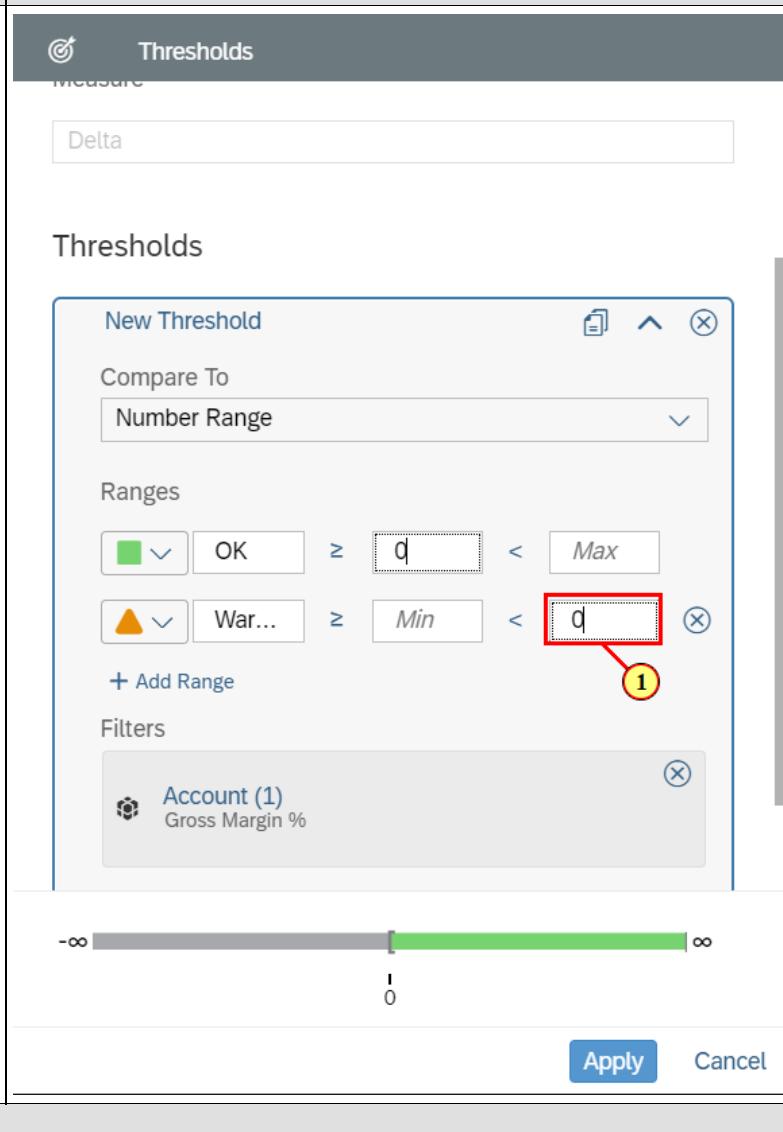
Explanation	Screenshot																																																																																		
<p> A new column has been created that represents the difference in values between 2019 and 2020. However, we would like to highlight this information so it is easy to extract from the table from a story view.</p> <p>(1) Right-clicking on new <b>Delta</b> column to open Context Menu.</p>	 <p>SAC_ORDER_FINANCE.csv in %    Hidden</p> <table border="1"> <thead> <tr> <th rowspan="2">Product</th> <th rowspan="2">Sales Manager</th> <th>Account</th> <th colspan="3">Gross Margin %</th> </tr> <tr> <th>Order Date</th> <th>&gt; 2018</th> <th>&gt; 2019</th> <th>&gt; 2020</th> </tr> </thead> <tbody> <tr> <td>▼ (all)</td> <td>Janet Bury</td> <td>40</td> <td>41</td> <td>44</td> <td>3</td> </tr> <tr> <td></td> <td>Gary Dumin</td> <td>38</td> <td>39</td> <td>42</td> <td>4</td> </tr> <tr> <td></td> <td>James Frank</td> <td>21</td> <td>22</td> <td>26</td> <td>4</td> </tr> <tr> <td></td> <td>Lois Wood</td> <td>33</td> <td>34</td> <td>37</td> <td>3</td> </tr> <tr> <td></td> <td>John Minker</td> <td>35</td> <td>38</td> <td>40</td> <td>2</td> </tr> <tr> <td></td> <td>Nancy Miller</td> <td>39</td> <td>38</td> <td>41</td> <td>3</td> </tr> <tr> <td></td> <td>David Carl</td> <td>39</td> <td>39</td> <td>44</td> <td>4</td> </tr> <tr> <td></td> <td>Ed Young</td> <td>36</td> <td>37</td> <td>44</td> <td>7</td> </tr> <tr> <td></td> <td>Kiran Raj</td> <td>39</td> <td>39</td> <td>43</td> <td>4</td> </tr> <tr> <td></td> <td>Gabriel Walton</td> <td>42</td> <td>43</td> <td>46</td> <td>3</td> </tr> <tr> <td></td> <td>Lia Armand</td> <td>31</td> <td>32</td> <td>35</td> <td>4</td> </tr> <tr> <td>› Accessories</td> <td>Janet Bury</td> <td>38</td> <td>38</td> <td>39</td> <td>1</td> </tr> </tbody> </table>	Product	Sales Manager	Account	Gross Margin %			Order Date	> 2018	> 2019	> 2020	▼ (all)	Janet Bury	40	41	44	3		Gary Dumin	38	39	42	4		James Frank	21	22	26	4		Lois Wood	33	34	37	3		John Minker	35	38	40	2		Nancy Miller	39	38	41	3		David Carl	39	39	44	4		Ed Young	36	37	44	7		Kiran Raj	39	39	43	4		Gabriel Walton	42	43	46	3		Lia Armand	31	32	35	4	› Accessories	Janet Bury	38	38	39	1
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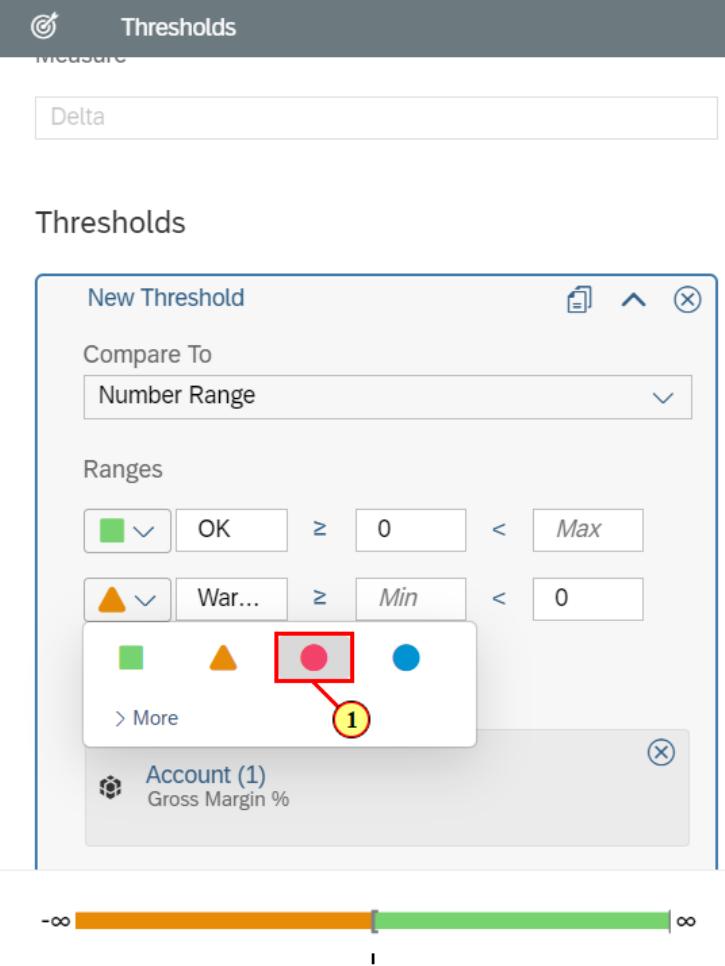
Explanation	Screenshot
<p>Welcome to Conditional Formatting!</p> <p>Conditional formatting covers several options, including thresholds in models and stories, and assigned colors in stories.</p> <p>Since we created a new threshold directly from the table, we were automatically directed to the Threshold page with the measure selected.</p> <p>Within Thresholds, you can create a threshold based on a number range or against another measure. In our case, we are interested in a number range.</p> <p>(1) In Threshold Panel, Click <b>Add Range</b></p>	

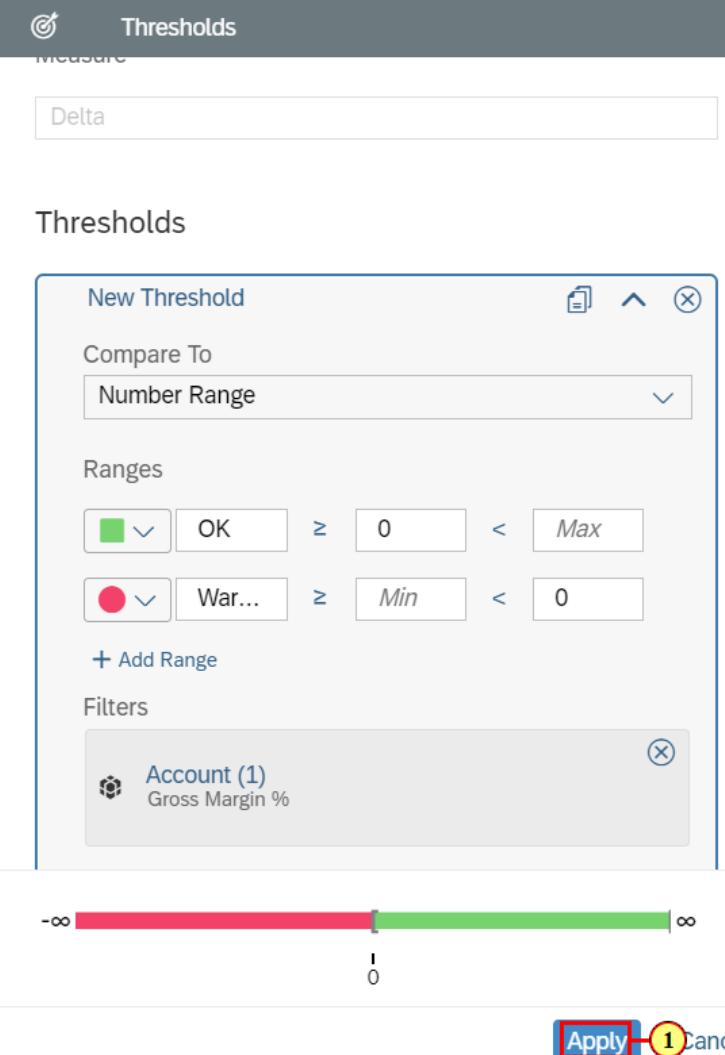
SAP Analytics Cloud - Google Chrome

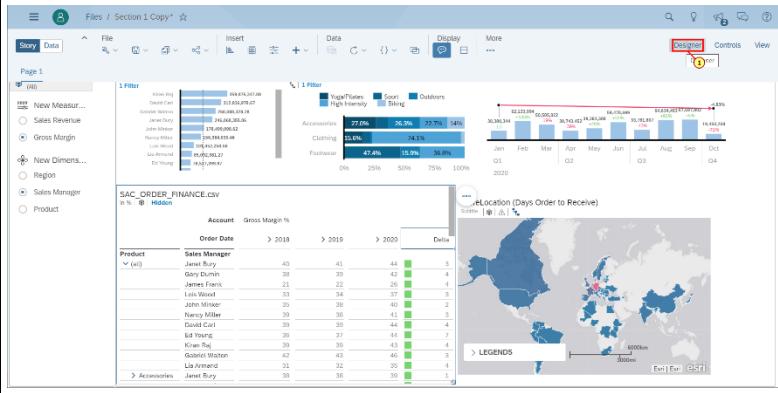
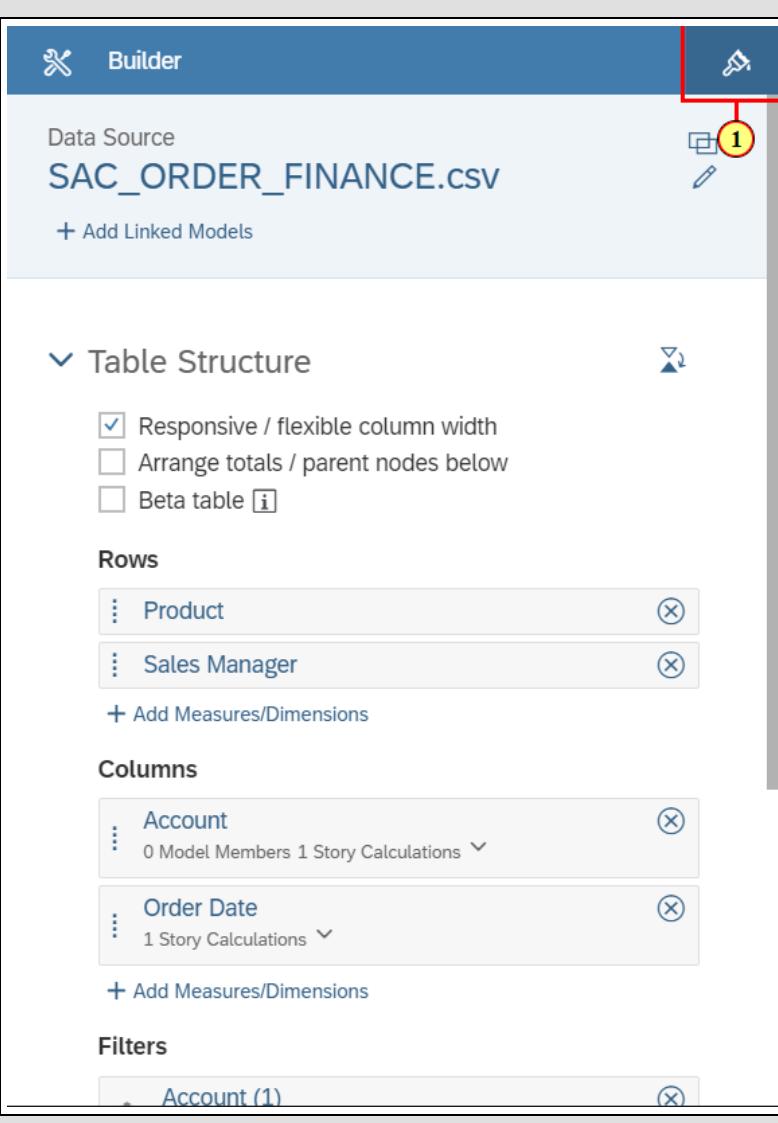
Explanation	Screenshot
(1) Change <b>Min</b> for Green range to <b>0</b>	 <p>New Threshold</p> <p>Compare To: Number Range</p> <p>Ranges:</p> <ul style="list-style-type: none"> <li>OK: <math>\geq 0 &lt; \text{Max}</math></li> <li>War...: <math>\geq \text{Min} &lt; \text{Max}</math></li> </ul> <p>Add Range</p> <p>Filters: Account (1) Gross Margin %</p> <p>Apply Cancel</p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Change <b>Max</b> for Orange Range to <b>0</b>	 <p>The screenshot shows the 'Thresholds' dialog box for a 'Delta' measure. The 'Compare To' dropdown is set to 'Number Range'. Under 'Ranges', there are two entries:</p> <ul style="list-style-type: none"><li>Green range: OK <math>\geq</math> [ ] &lt; Max</li><li>Orange range: War... <math>\geq</math> Min &lt; [ ] (highlighted with a red box and circled with a yellow number 1)</li></ul> <p>A '+' button for adding more ranges is visible. Below the ranges is a 'Filters' section with a selected filter for 'Account (1) Gross Margin %'. At the bottom is a horizontal slider from <math>-\infty</math> to <math>\infty</math>, with '0' marked in the center. The 'Apply' and 'Cancel' buttons are at the bottom right.</p>

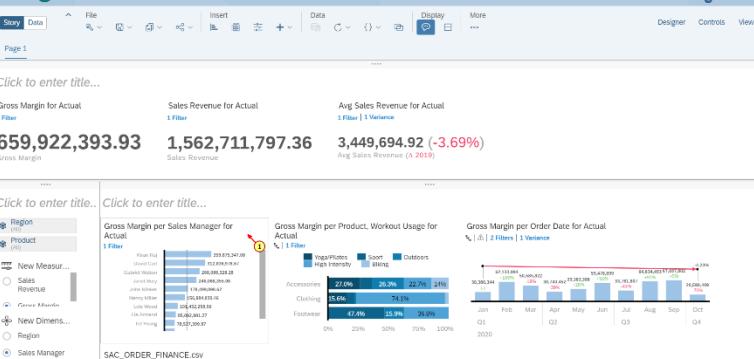
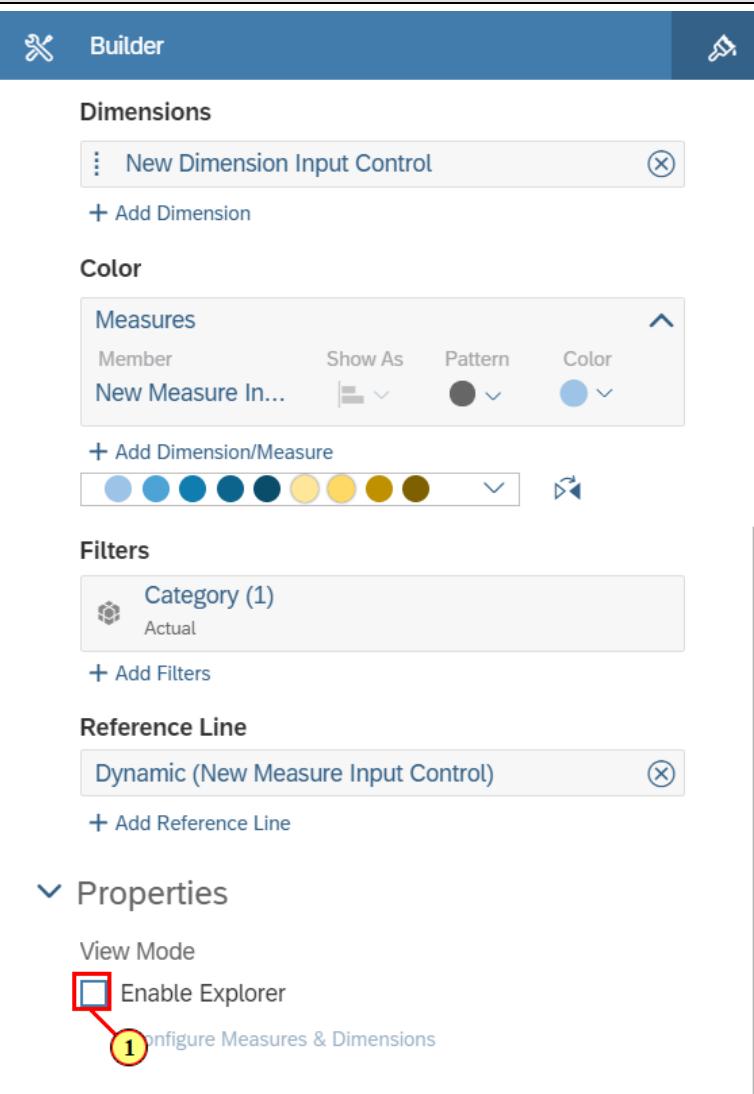
Explanation	Screenshot
(1) Change the Orange range to a Red Indicator	 <p>The screenshot shows the 'Thresholds' dialog for the 'Delta' measure. The 'New Threshold' dialog is open, displaying three ranges: 'OK' (green), 'War...' (orange), and 'Critical' (red). A red box highlights the 'Critical' range, and a yellow circle with the number 1 points to it. Below the ranges, there is a section for 'Account (1)' with 'Gross Margin %'. At the bottom of the dialog are 'Apply' and 'Cancel' buttons.</p>

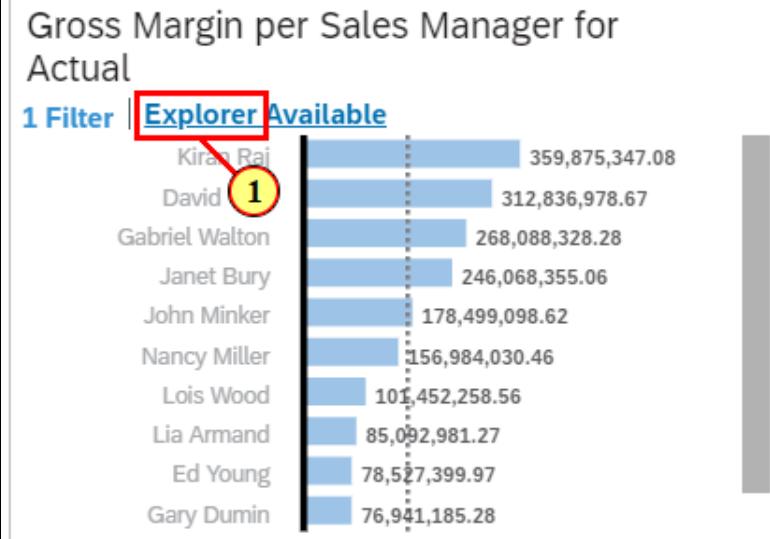
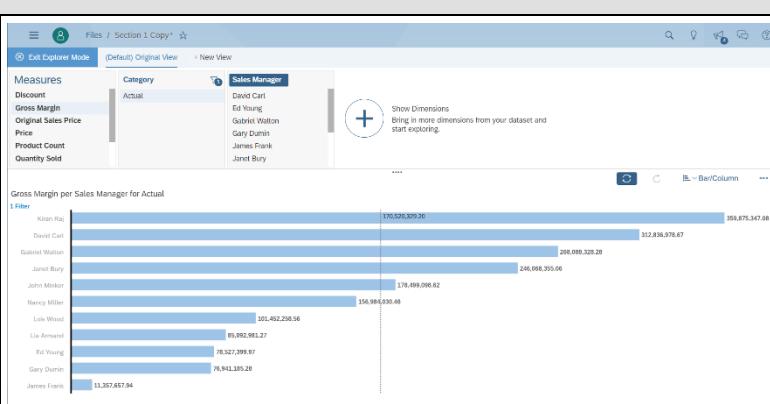
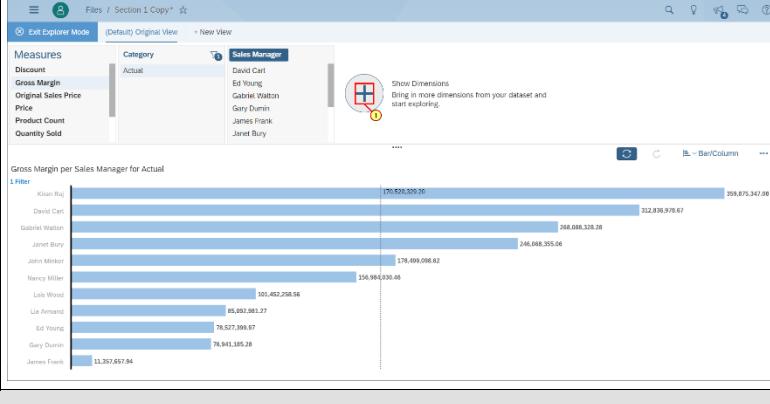
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<p>(1) Click <b>Apply</b></p>																																																																																																															
<p> Users can see by scrolling through the table that an appropriate indicator has been given to values in each threshold in the Delta column.</p> <p>We would like to change how this value is displayed to only highlight the number rather than adding an indicator.</p>	<p>SAP Analytics Cloud - Google Chrome</p> <table border="1"> <thead> <tr> <th></th> <th>Accessories</th> <th>Clothing</th> <th>Footwear</th> <th>Delta</th> </tr> </thead> <tbody> <tr><td></td><td>Lia Armand</td><td>Janet Bury</td><td>Janet Bury</td><td>1</td></tr> <tr><td></td><td>32</td><td>36</td><td>55</td><td>4</td></tr> <tr><td></td><td>32</td><td>35</td><td>54</td><td>5</td></tr> <tr><td></td><td>33</td><td>32</td><td>52</td><td>3</td></tr> <tr><td></td><td>12</td><td>13</td><td>40</td><td>4</td></tr> <tr><td></td><td>27</td><td>26</td><td>49</td><td>2</td></tr> <tr><td></td><td>30</td><td>32</td><td>52</td><td>3</td></tr> <tr><td></td><td>34</td><td>32</td><td>39</td><td>5</td></tr> <tr><td></td><td>35</td><td>34</td><td>41</td><td>4</td></tr> <tr><td></td><td>31</td><td>31</td><td>50</td><td>8</td></tr> <tr><td></td><td>34</td><td>34</td><td>50</td><td>5</td></tr> <tr><td></td><td>39</td><td>39</td><td>51</td><td>4</td></tr> <tr><td></td><td>25</td><td>24</td><td>53</td><td>4</td></tr> <tr><td></td><td>39</td><td>39</td><td>52</td><td>-1</td></tr> <tr><td></td><td>28</td><td>37</td><td>52</td><td>-0</td></tr> <tr><td></td><td>43</td><td>35</td><td>41</td><td>1</td></tr> <tr><td></td><td>24</td><td>37</td><td>50</td><td>0</td></tr> <tr><td></td><td>53</td><td>52</td><td>50</td><td>-2</td></tr> <tr><td></td><td>51</td><td>52</td><td>51</td><td>-1</td></tr> <tr><td></td><td>53</td><td>53</td><td>53</td><td>0</td></tr> <tr><td></td><td>52</td><td>52</td><td>52</td><td>0</td></tr> </tbody> </table>		Accessories	Clothing	Footwear	Delta		Lia Armand	Janet Bury	Janet Bury	1		32	36	55	4		32	35	54	5		33	32	52	3		12	13	40	4		27	26	49	2		30	32	52	3		34	32	39	5		35	34	41	4		31	31	50	8		34	34	50	5		39	39	51	4		25	24	53	4		39	39	52	-1		28	37	52	-0		43	35	41	1		24	37	50	0		53	52	50	-2		51	52	51	-1		53	53	53	0		52	52	52	0
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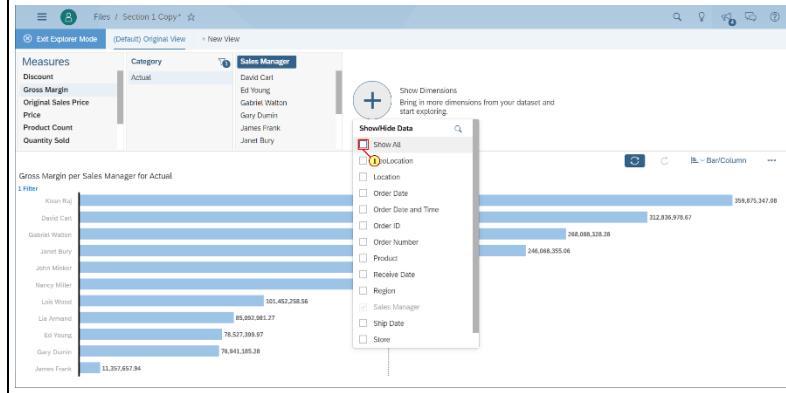
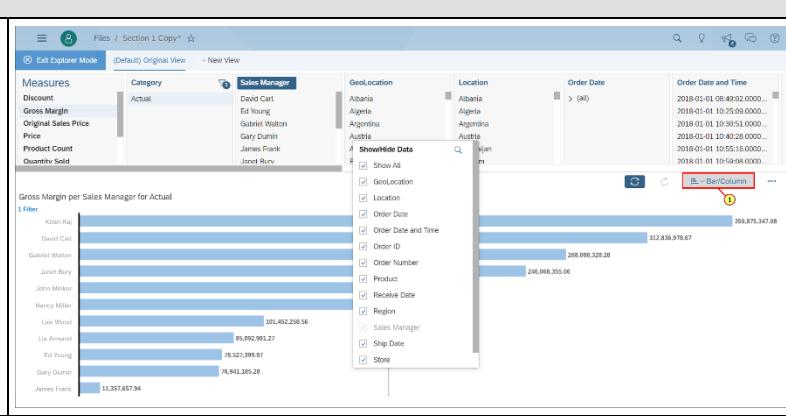
Explanation	Screenshot
(1) Click Designer	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>Welcome to the Styling Panel!</p> <p>The Styling Panel displays options available for the selected tile type. Some options may not be available to all users.</p> <p>For widget, you see only the styling options for the specific area that you have highlighted. The heading in the Styling Panel identifies the area. For example, it may show Title, Data Cell, Axis Labels, and so on. Selecting a different part of the widget changes the heading and the styling options.</p> <p>(1) Change Threshold Style to <b>Color Values</b></p>	<p>Show Styling Options For <b>Data cell</b></p> <p><b>Table Properties</b></p> <p>Template: Default</p> <p>Color Fill for Editable Cells: (radio button)</p> <p>Color Fill for Expand Icon: (radio button)</p> <p>Threshold Style:</p> <ul style="list-style-type: none"> <li>Symbol (Default)</li> <li>Color Values (highlighted with a red box and circled with a yellow circle containing the number 1)</li> </ul> <p>Display every threshold in this table by coloring the font of the cell text</p> <p>Color Background (Non-Transparent)</p> <p>Color Background Without Values</p> <p>Styling Rule which is listed at the top overrides the ones listed below.</p>

SAP Analytics Cloud - Google Chrome																																																																																				
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Explanation	Screenshot
<p> If the charts in a story are insufficient for elaborating a business insight, SAP Analytics Cloud enables users to curate a customized Explorer View for end users. This will allow viewers to further engage with the story models and garner insights from testing various measure and dimensions.</p> <p>(1) Click <b>Gross Margin per Sales Manager</b> chart</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Designer</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Scroll down and click <b>Enable Explorer</b></p> <p></p> <p>Explorer View enables viewers of your story to access the Explorer page to further test out measures and dimensions. Story creators can customize Explorer with a default view to best represent the data insight specific to the story.</p>	

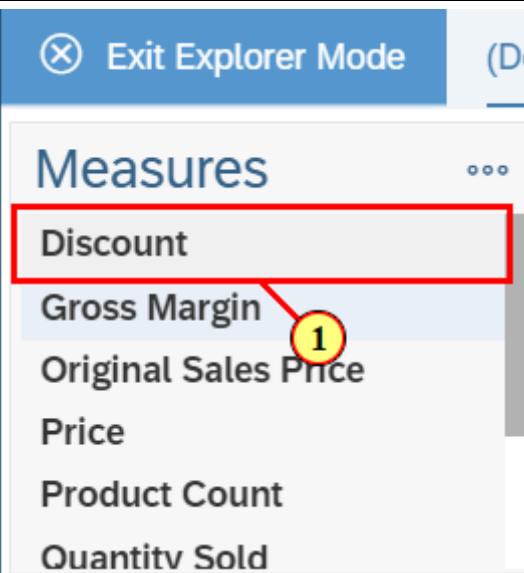
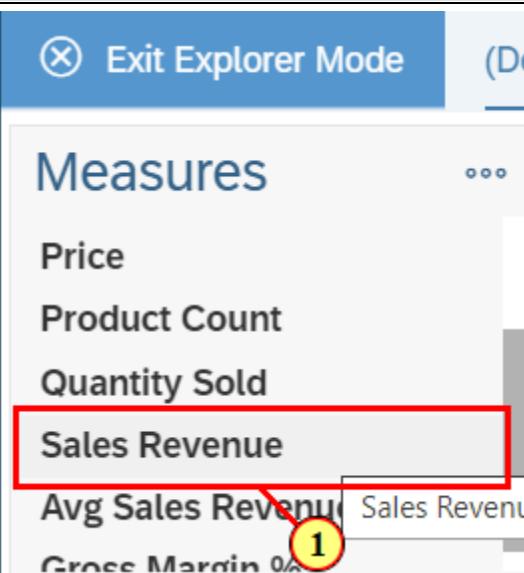
Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Explorer Available</b>	
SAP Analytics Cloud - Google Chrome	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Show Dimensions</b>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click Show All	
SAP Analytics Cloud - Google Chrome	

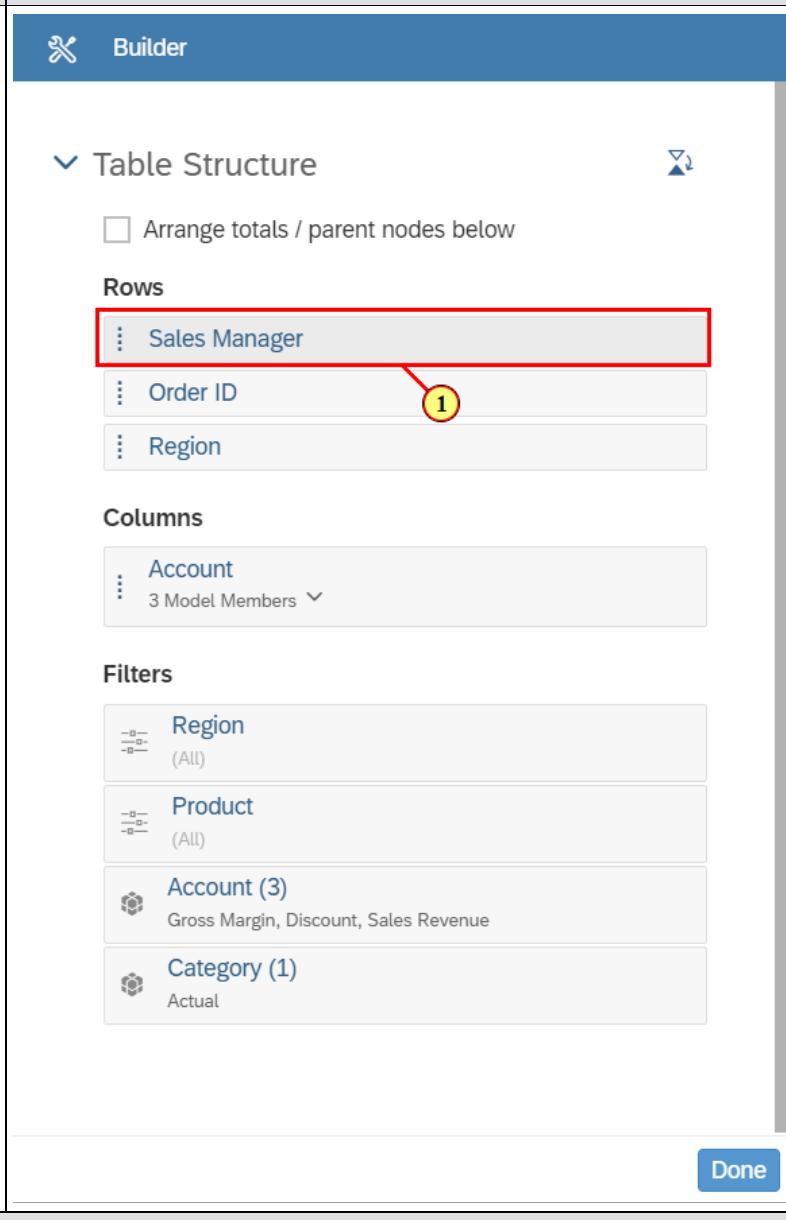
 Let's present our dimensions and measures in a detailed visualization to start off our Explorer View for story viewers. This is also a best practice for performance to load large table datasets faster in our story.

(1) Click **Table**

-  Auto Suggested
-  Stacked Area
-  Bar/Column
-  Box Plot
-  Bubble
-  Bullet
-  Cluster Bubble
-  Combination Column & Line
-  Combination Stacked Column & Line
-  Donut
-  Heat Map
-  Line
-  Marimekko
-  Numeric Point
-  Pie
-  Radar
-  Scatterplot
-  Stacked Bar/Column
-  Tree Map
-  Time Series
-  Waterfall
-  Table

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	
(1) In Measures selection, click <b>Discount</b>	
SAP Analytics Cloud - Google Chrome	
(1) Scroll and click <b>Sales Revenue</b>	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Order ID</b> dimension	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Region</b> dimension	

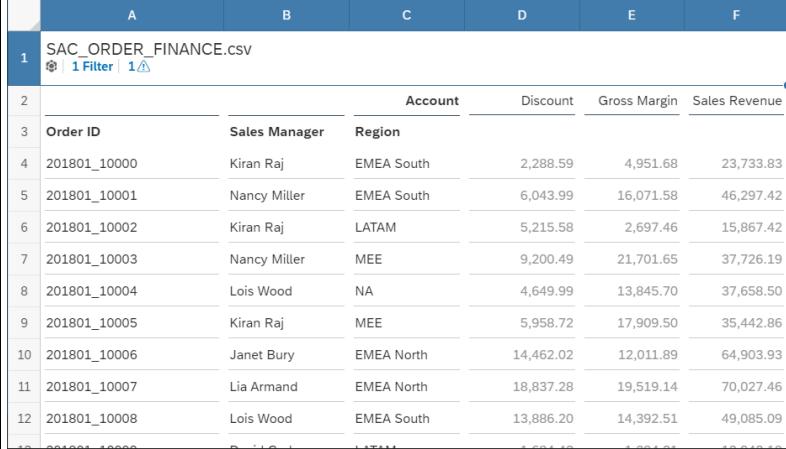
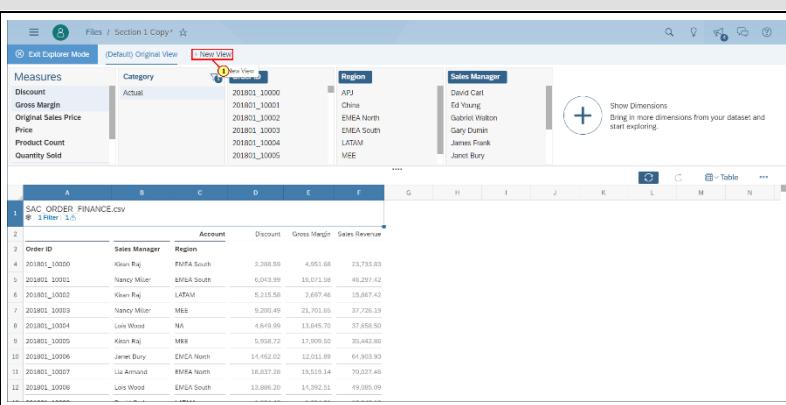
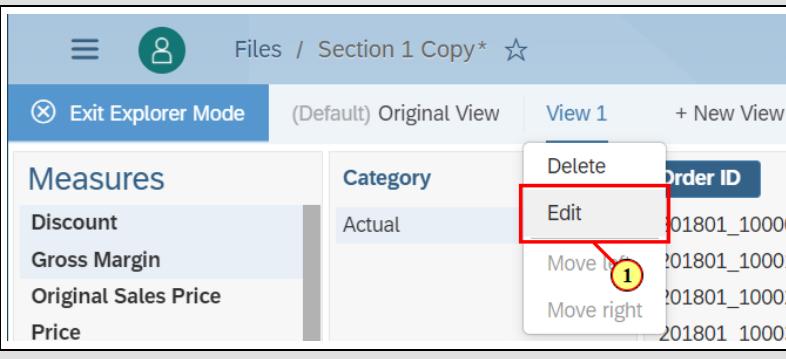
Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	<p>We have now created a table that shows our three financial metrics for orders by each Sales Manager. We can further change the sorting of our table by changing the order of columns.</p> <p>(1) Click <b>More</b></p>
SAP Analytics Cloud - Google Chrome	<p>(1) Click <b>Open Builder...</b></p>
SAP Analytics Cloud - Google Chrome	

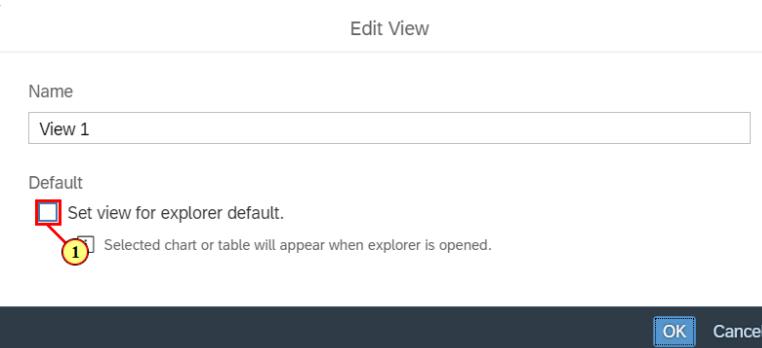
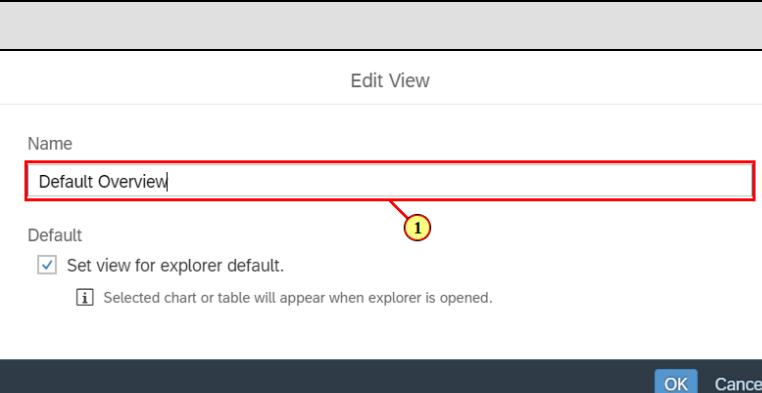
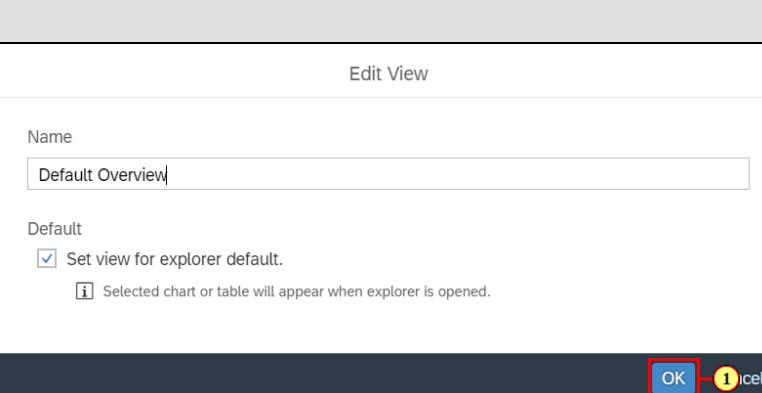
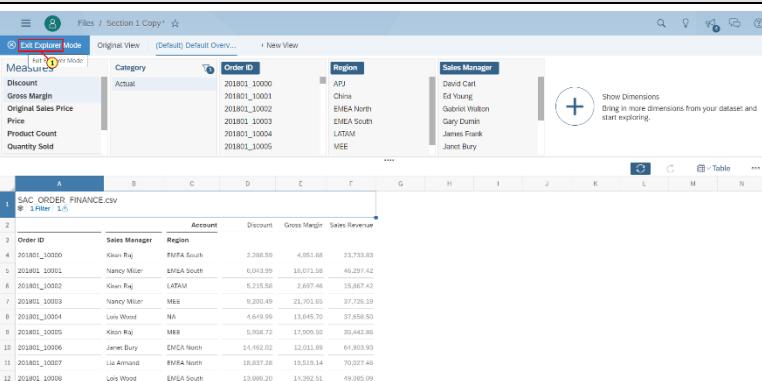
Explanation	Screenshot
<p>(1) Drag <b>Sales Manager</b> and swap positions with <b>Order ID</b></p>	 <p><b>Builder</b></p> <p>▼ Table Structure</p> <p><input type="checkbox"/> Arrange totals / parent nodes below</p> <p><b>Rows</b></p> <ul style="list-style-type: none"> <li>Sales Manager</li> <li>Order ID <span style="color: red;">1</span></li> <li>Region</li> </ul> <p><b>Columns</b></p> <ul style="list-style-type: none"> <li>Account       <ul style="list-style-type: none"> <li>3 Model Members</li> </ul> </li> </ul> <p><b>Filters</b></p> <ul style="list-style-type: none"> <li>Region (All)</li> <li>Product (All)</li> <li>Account (3)       <ul style="list-style-type: none"> <li>Gross Margin, Discount, Sales Revenue</li> </ul> </li> <li>Category (1)       <ul style="list-style-type: none"> <li>Actual</li> </ul> </li> </ul> <p style="text-align: right;"><b>Done</b></p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Click <b>Done</b>	<p>The screenshot shows the SAP Analytics Cloud Builder interface. The top navigation bar is blue with the text "Builder". Below it, a section titled "Table Structure" is expanded, indicated by a downward arrow icon. Inside this section, there is a checkbox labeled "Arrange totals / parent nodes below". Under the heading "Rows", three items are listed in separate input fields: "Order ID", "Sales Manager", and "Region". Under the heading "Columns", one item is listed: "Account" with a sub-note "3 Model Members". The "Filters" section contains four items: "Region (All)", "Product (All)", "Account (3) Gross Margin, Discount, Sales Revenue", and "Category (1) Actual". In the bottom right corner of the interface, there is a red box highlighting the "Done" button, which is also circled with a yellow circle containing the number "1".</p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
	
⚠️ Quality Check! Does your table in Explorer look like this screenshot? If you are happy with the table, we will now set this chart as the default view upon entering Explorer View.	
(1) Click New View	
(1) Click Expand	
(1) Click Edit	

Explanation	Screenshot
(1) Click <b>Set view for explorer default</b>	
(1) Rename the view <b>Default Overview</b>	
(1) Click <b>OK</b>	
<p> Our default Explorer view is now a great way for story viewers to navigate to a more detailed breakdown of their business data.</p> <p>(1) Click <b>Exit Explorer</b></p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p><b>⚠️</b></p> <p>Quality Check! Does your dashboard with thresholds and variances look like this screenshot?</p> <p><b>👉</b></p> <p>You have now completed the <b>Geo Maps, Thresholds, and Variances</b> section! In this section we learned how to create geo visualizations to populate our dashboard, add thresholds, dynamic reference lines, and variances to our charts to highlight key insights, and utilize Explorer View to create detailed enhancements to the story viewing experience.</p>	

## Summary

You have completed the entire **Geo Maps, Thresholds and Variances** section!

You are now able to:

- Create Geo Map
- Learn about the different layers
- Drill into a Bubble Layer
- Change the base map of the visualization
- Use recommended comparison to quickly add variances to a chart
- Add reference lines and sort a chart
- Add a threshold to a table

# Theme and Style



This section builds on top of another section. If you did not complete the previous section, [please open](#)



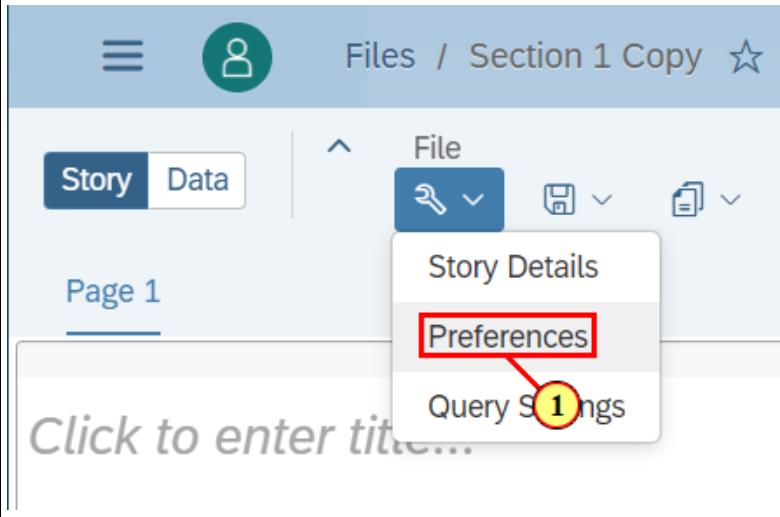
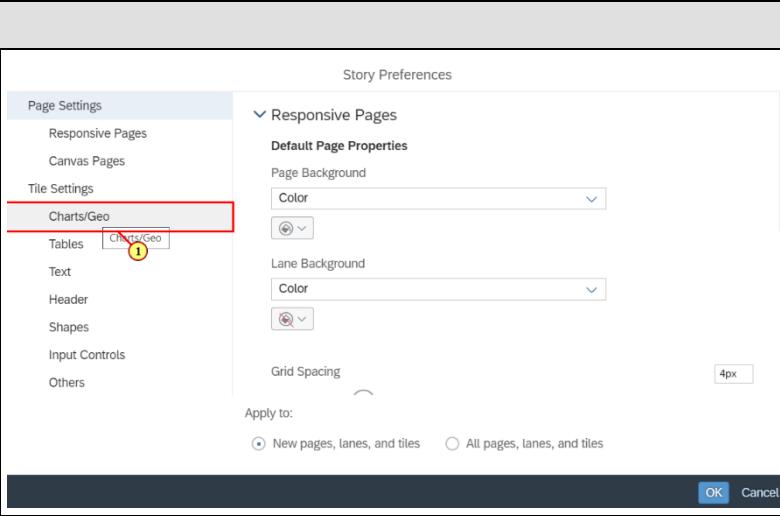
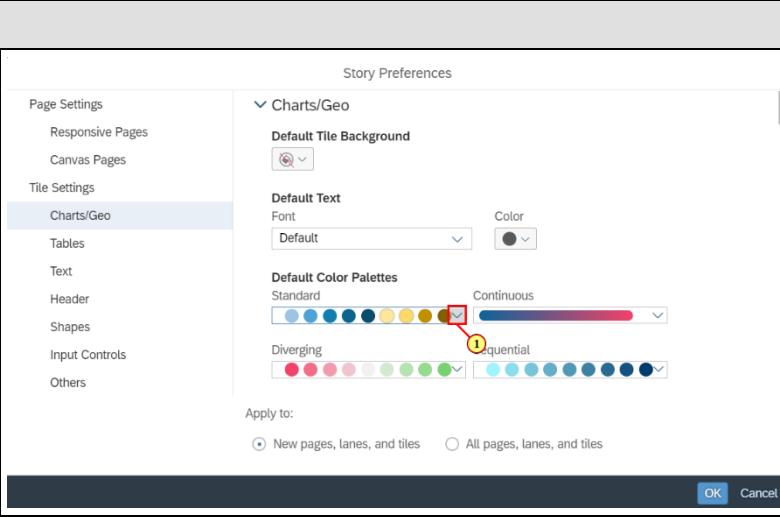
**Objective:** Style and theme a dashboard for easier readability and a better look and feel.

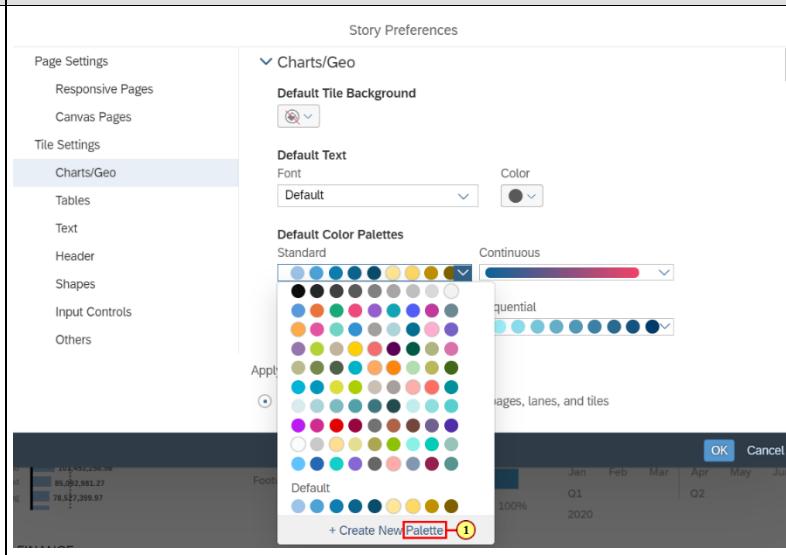
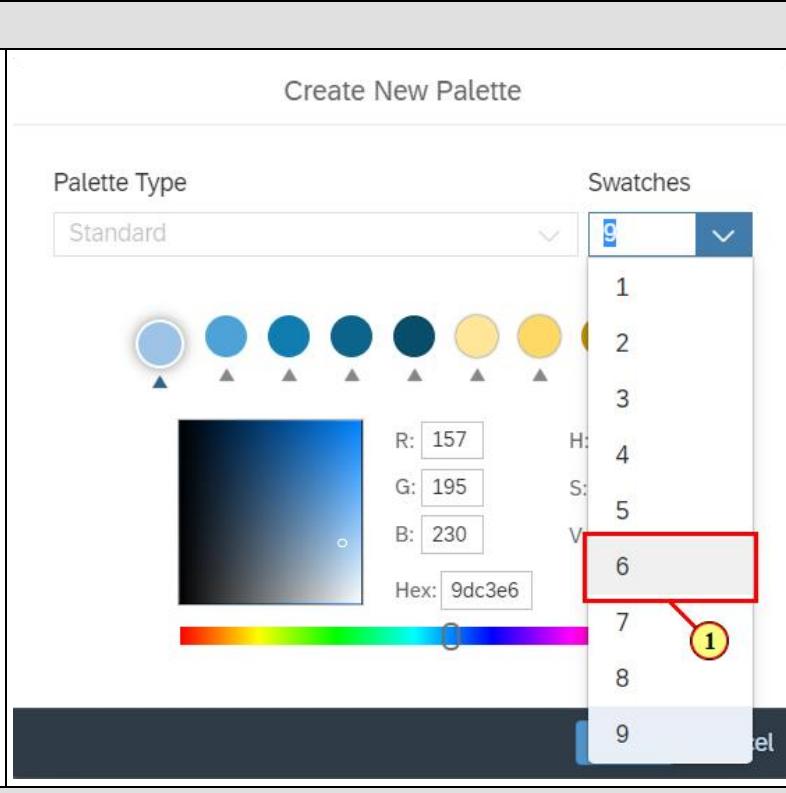
**Exercise Description:** We have created an insightful dashboard with visualizations that show variances and thresholds, we added interaction for our viewers, but before we share the dashboard we want to make sure it is not just insightful but also looks visually appealing.

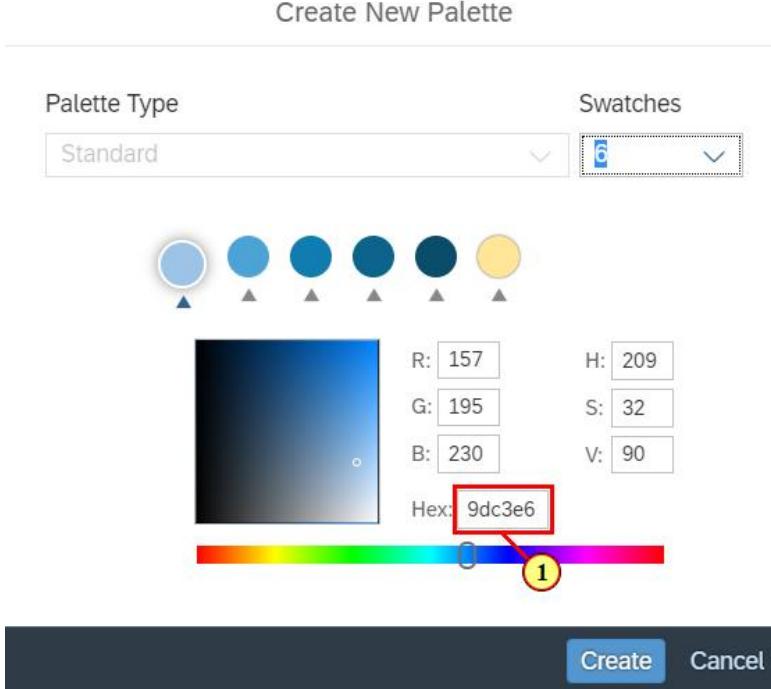
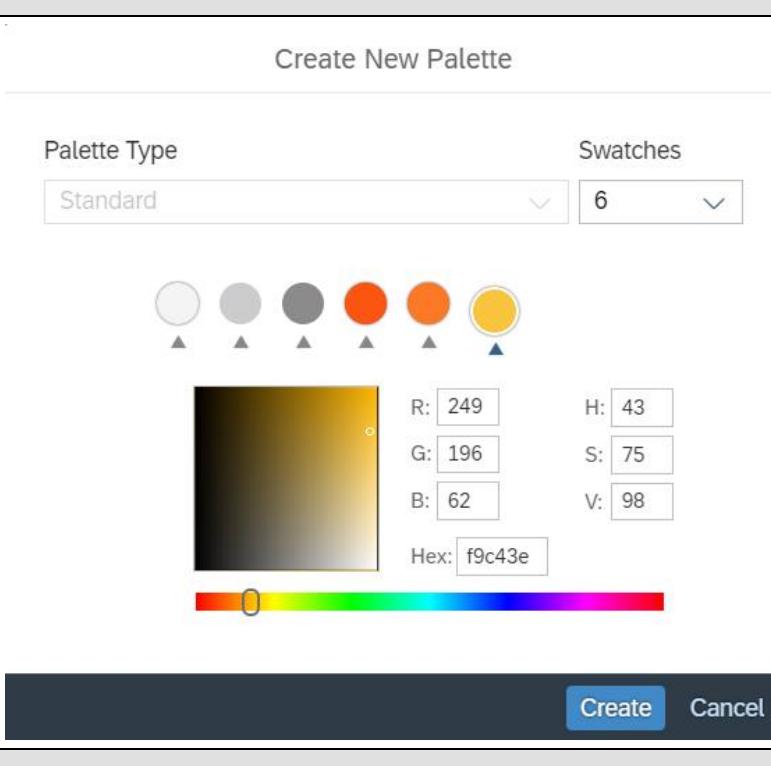
## Key Features:

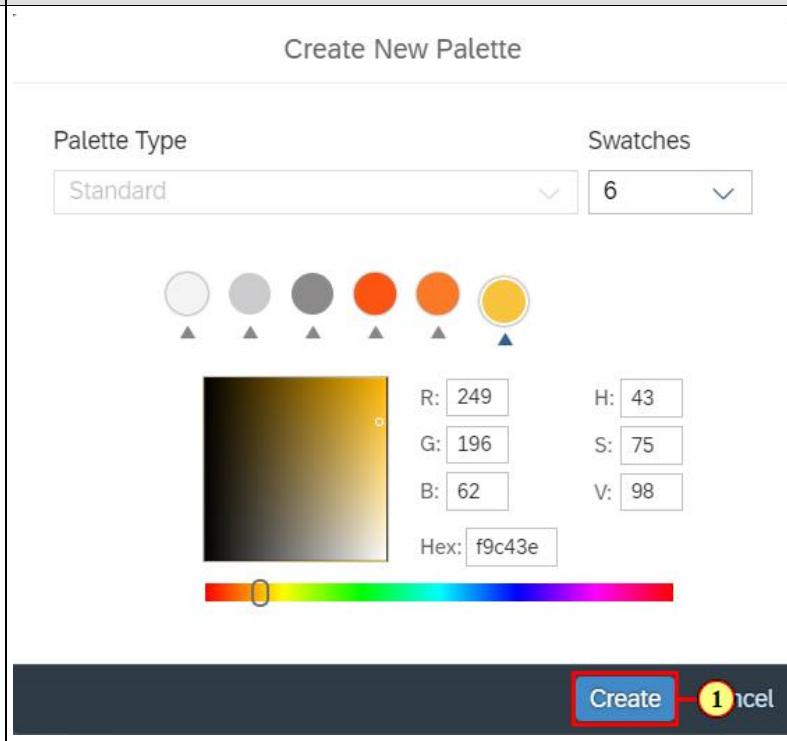
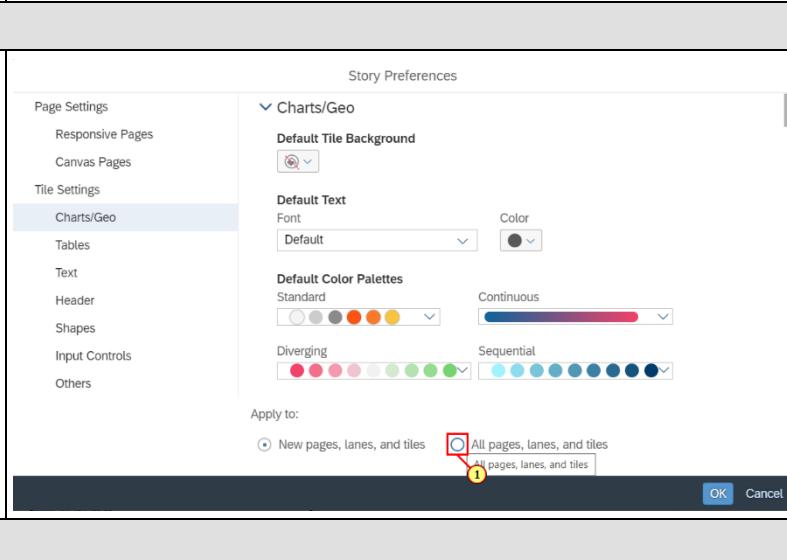
- Understand the styling panel with options such as number formatting and changing color
- Learn how to hide unnecessary information from a widget
- Learn how to add an image
- Use Device Preview to preview dashboard across various devices and screen sizes (i.e. Laptop, Tablet, Phone)

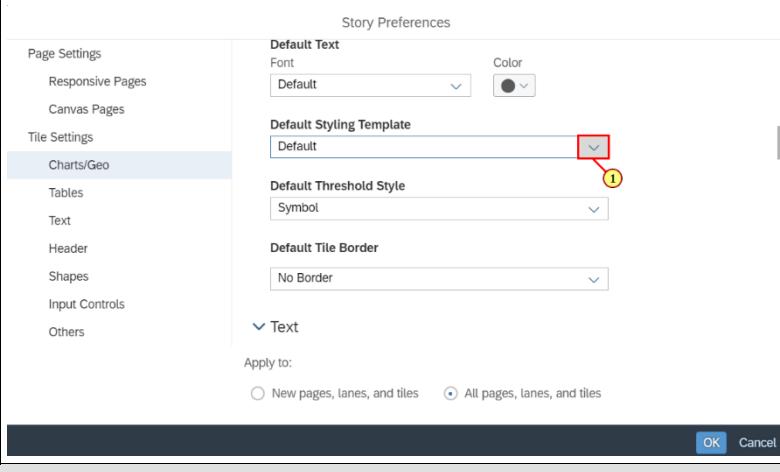
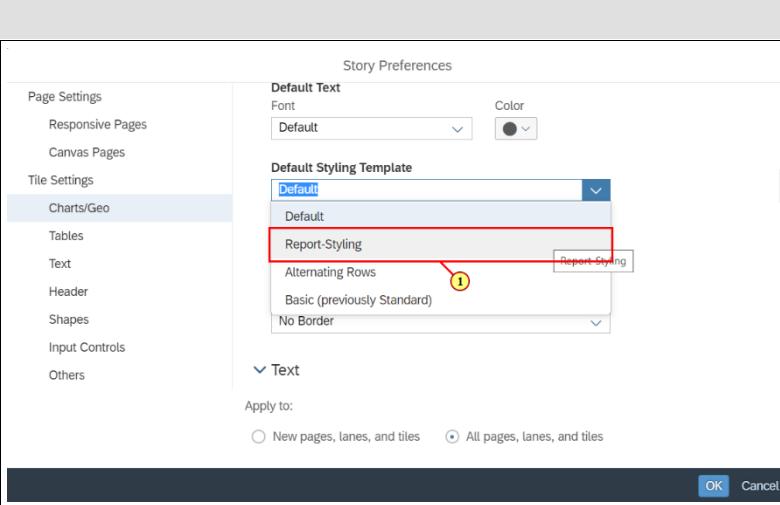
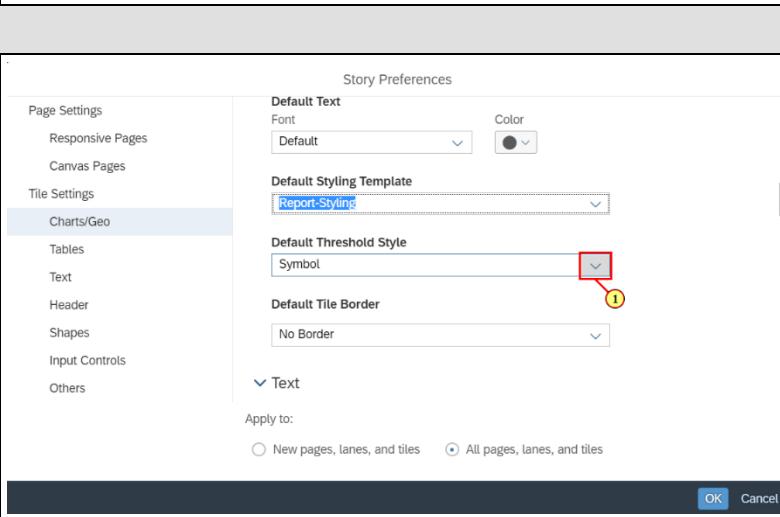
Explanation	Screenshot
<b>SAP Analytics Cloud - Google Chrome</b> <p> In this section we will cover theme and styling options in SAP Analytics Cloud to tweak your story into a professional dashboard.</p> <p>(1) Click <b>Edit Story</b></p>	

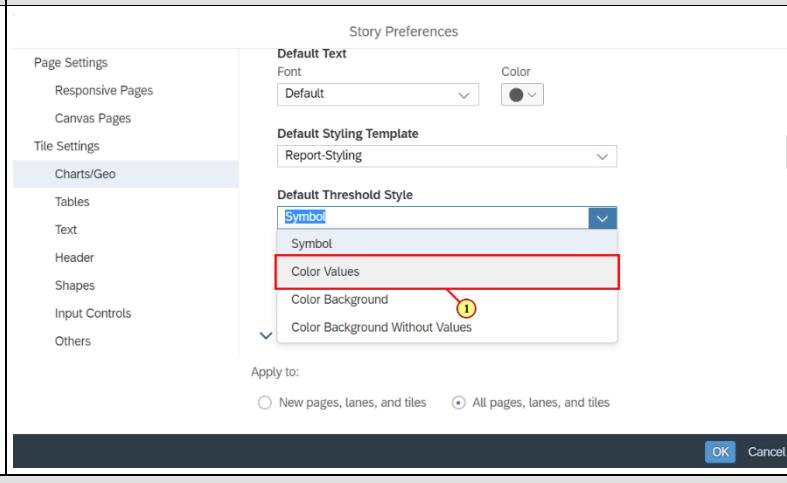
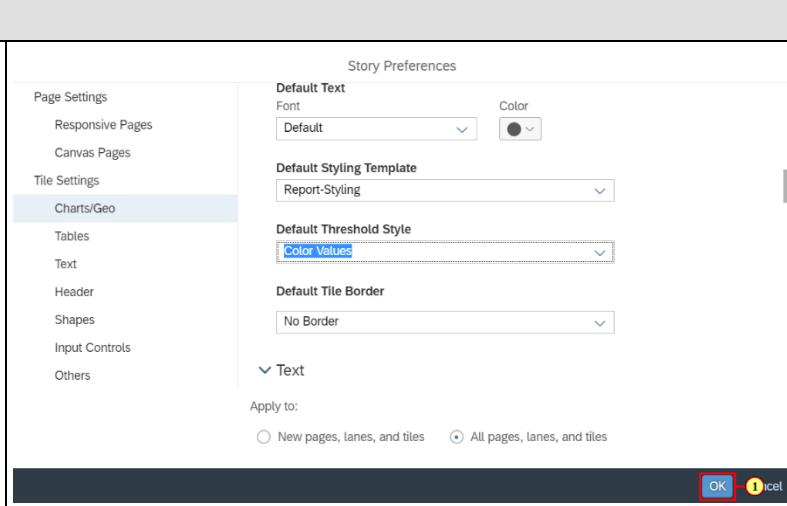
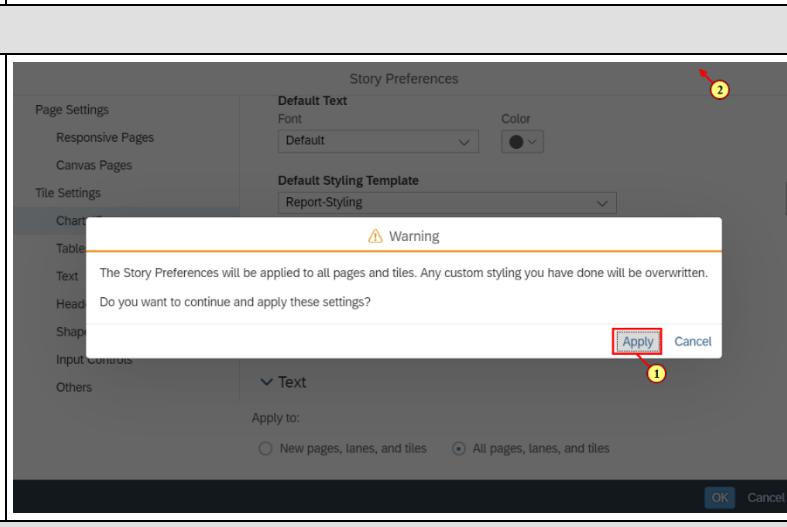
Explanation	Screenshot
<p>👉 Story creators can quickly change styling options for an entire story in the story preferences. This enables users to quickly apply corporate themes and sync their styling across different dashboards. We will first apply color and table preferences in this menu.</p> <p>(1) Click <b>Preferences</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Charts/Geo</b></p>	
<p>👉 Let's apply a custom color palette to our story that is based on our corporate colors.</p> <p>(1) Expand <b>Standard Color Palettes</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

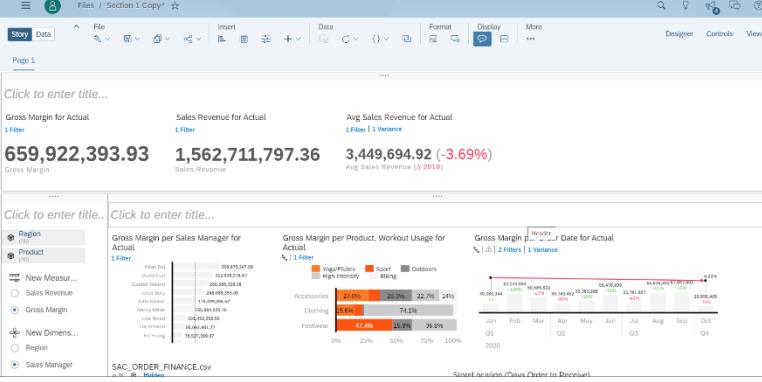
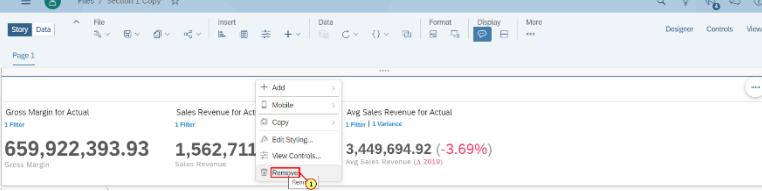
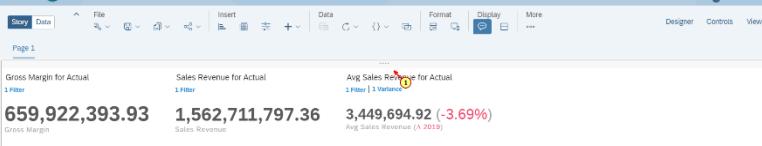
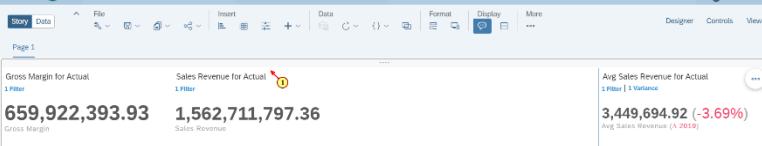
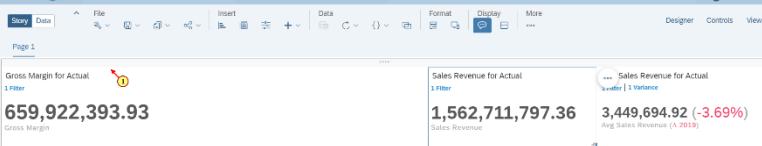
Explanation	Screenshot
(1) Click <b>Create New Palette</b>	 <p>The screenshot shows the 'Story Preferences' dialog with the 'Charts/Geo' tab selected. On the left, there's a sidebar with options like 'Page Settings', 'Responsive Pages', 'Canvas Pages', 'Tile Settings', 'Charts/Geo' (which is highlighted), 'Tables', 'Text', 'Header', 'Shapes', 'Input Controls', and 'Others'. On the right, there are sections for 'Default Tile Background' (with a color swatch and a search icon), 'Default Text' (with font and color dropdowns), and 'Default Color Palettes'. It shows 'Standard' and 'Continuous' palettes with color swatches. At the bottom right of the dialog, there's an 'OK' button and a 'Cancel' button, with a red circle highlighting the '+ Create New Palette' button.</p>
SAP Analytics Cloud - Google Chrome (1) Change Number of Swatches to 6	 <p>The screenshot shows the 'Create New Palette' dialog. On the left, it says 'Palette Type: Standard'. In the center, there's a color preview with sliders for R: 157, G: 195, B: 230, and a hex code field showing 'Hex: 9dc3e6'. On the right, there's a 'Swatches' section with a dropdown menu showing numbers 1 through 9. The number '6' is highlighted with a red box and circled in yellow. Below the dropdown, there's a color bar with a slider and a 'Color' button.</p>

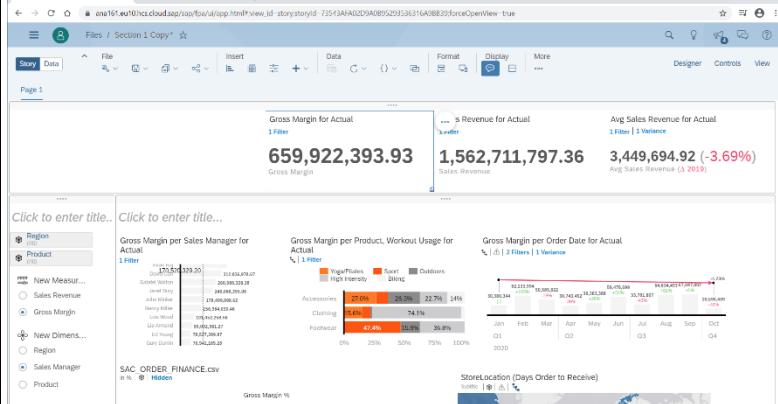
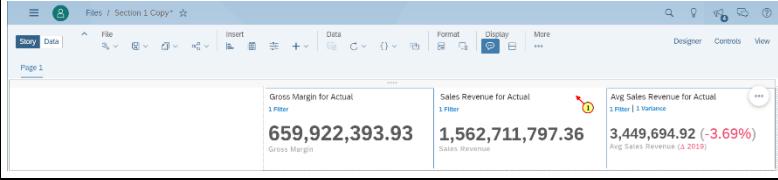
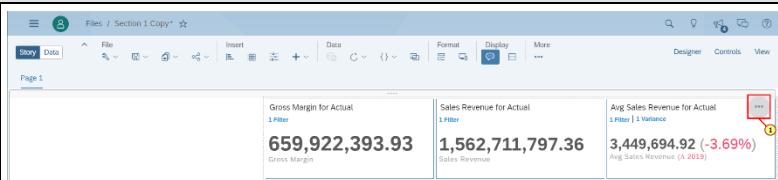
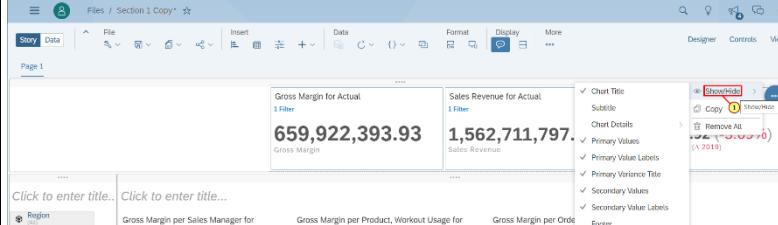
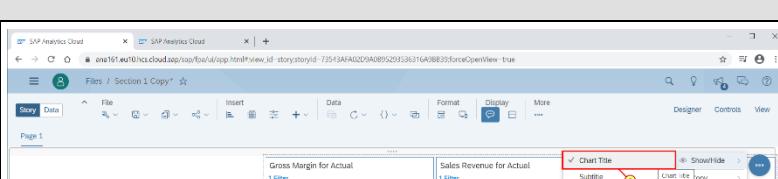
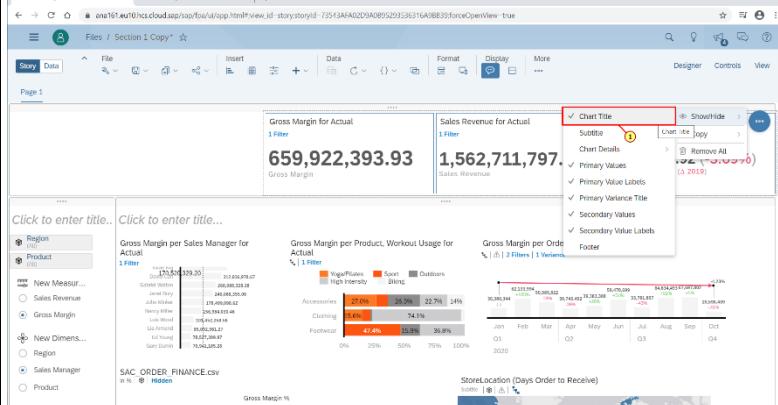
Explanation	Screenshot						
<p> SAP Analytics Cloud offers a variety of color entry options to maximize your ability to stylize your story.</p> <p>(1) Change each swatch's hexcode.          Swatch 1: f4f4f4          Swatch 2: cccccc          Swatch 3: 8c8a8a          Swatch 4: fc5411          Swatch 5: fc7928          Swatch 6: f9c43e</p>	 <p>Create New Palette</p> <p>Palette Type: Standard      Swatches: 6</p> <table border="1"> <tr> <td>R: 157</td> <td>H: 209</td> </tr> <tr> <td>G: 195</td> <td>S: 32</td> </tr> <tr> <td>B: 230</td> <td>V: 90</td> </tr> </table> <p>Hex: 9dc3e6</p> <p>Color picker slider with a yellow circle labeled '1' pointing to the blue swatch.</p> <p><b>Create</b> <b>Cancel</b></p>	R: 157	H: 209	G: 195	S: 32	B: 230	V: 90
R: 157	H: 209						
G: 195	S: 32						
B: 230	V: 90						
<p> Quality Check! Do your swatches look like these colors after changing the hexcodes?</p>	 <p>Create New Palette</p> <p>Palette Type: Standard      Swatches: 6</p> <table border="1"> <tr> <td>R: 249</td> <td>H: 43</td> </tr> <tr> <td>G: 196</td> <td>S: 75</td> </tr> <tr> <td>B: 62</td> <td>V: 98</td> </tr> </table> <p>Hex: f9c43e</p> <p>Color picker slider with a yellow circle labeled '1' pointing to the light blue swatch.</p> <p><b>Create</b> <b>Cancel</b></p>	R: 249	H: 43	G: 196	S: 75	B: 62	V: 98
R: 249	H: 43						
G: 196	S: 75						
B: 62	V: 98						

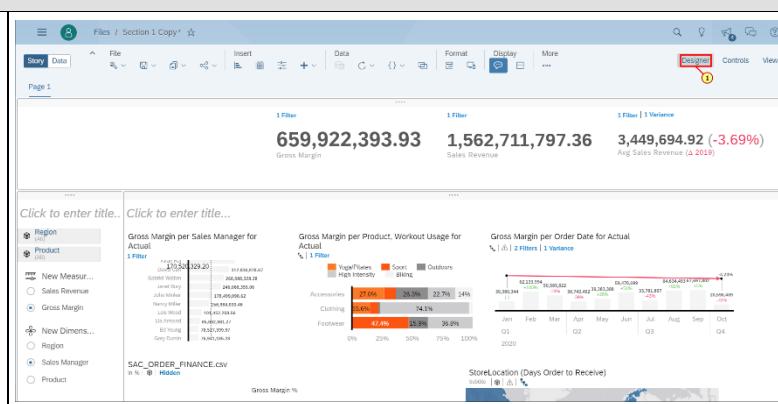
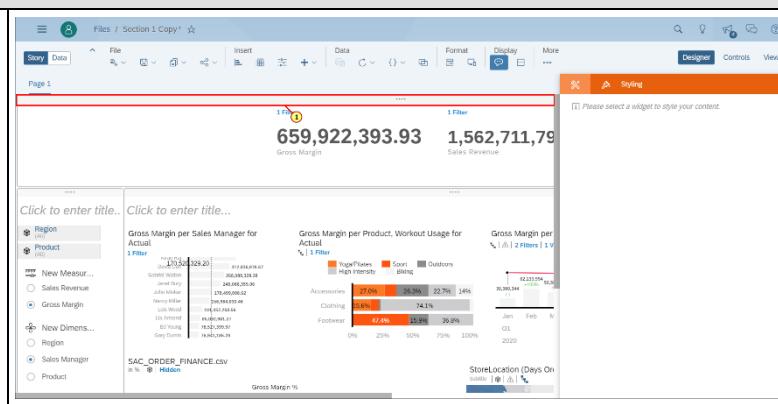
Explanation	Screenshot
(1) Click <b>Create</b>	
 <p>We want to apply this color palette to everything on our story so we change the option to All.</p> <p>(1) Click <b>All pages, lanes and tiles</b></p>	

Explanation	Screenshot
<p>👉 We can choose different styling templates for our charts and tables based on dashboard needs. In this instance, we want our tables to appear in report-styling.</p> <p>(1) Scroll to <b>Default Styling Template</b> and click <b>Expand</b></p>	 <p>The screenshot shows the 'Story Preferences' dialog. On the left, there's a sidebar with categories: Page Settings, Responsive Pages, Canvas Pages, Tile Settings, Charts/Geo (which is selected), Tables, Text, Header, Shapes, Input Controls, and Others. On the right, under 'Default Text', 'Font' is set to 'Default' and 'Color' is black. Under 'Default Styling Template', the dropdown menu is open, showing 'Default' (selected), 'Report-Styling' (highlighted with a red box and a yellow circled '1'), 'Alternating Rows', and 'Basic (previously Standard)'. Under 'Default Threshold Style', 'Symbol' is selected. Under 'Default Tile Border', 'No Border' is selected. A 'Text' section is collapsed. At the bottom, 'Apply to:' has 'All pages, lanes, and tiles' selected. There are 'OK' and 'Cancel' buttons at the bottom right.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Report-Styling</b></p>	 <p>This screenshot shows the same 'Story Preferences' dialog as above, but with a red box highlighting the 'Report-Styling' option in the 'Default Styling Template' dropdown menu. A yellow circled '1' points to the 'Report-Styling' option. The rest of the interface is identical to the previous screenshot.</p>
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 In the previous section we manually changed the format of thresholds for an individual chart. In story preferences we can choose to sync apply this format across our entire story.</p> <p>(1) Click <b>Expand Default Threshold Style</b></p>	 <p>This screenshot shows the 'Story Preferences' dialog again. The 'Default Styling Template' dropdown now shows 'Report-Styling'. The 'Default Threshold Style' dropdown is now expanded, showing 'Symbol' (selected), 'Color' (black), and a small '▼' icon. The rest of the dialog is consistent with the previous screenshots.</p>
<p>SAP Analytics Cloud - Google Chrome</p>	

Explanation	Screenshot
(1) Click Color Values	
(1) Click OK	
(1) Click Apply	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p> Quality Check! Does your story look like this after Styling Preference changes? Next let's change the overall view of our story.</p>	
<p> We want to remove the empty header in our top lane and create a summary lane with KPIs for our story that stands out.</p> <p>(1) Right click <b>Title</b> field for top lane and click <b>Remove</b></p>	
<p>(1) Click and drag numeric point charts to the left.</p>	
<p>(1) Click and drag numeric point charts to the left.</p>	
<p>(1) Click and drag numeric point charts to the left.</p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

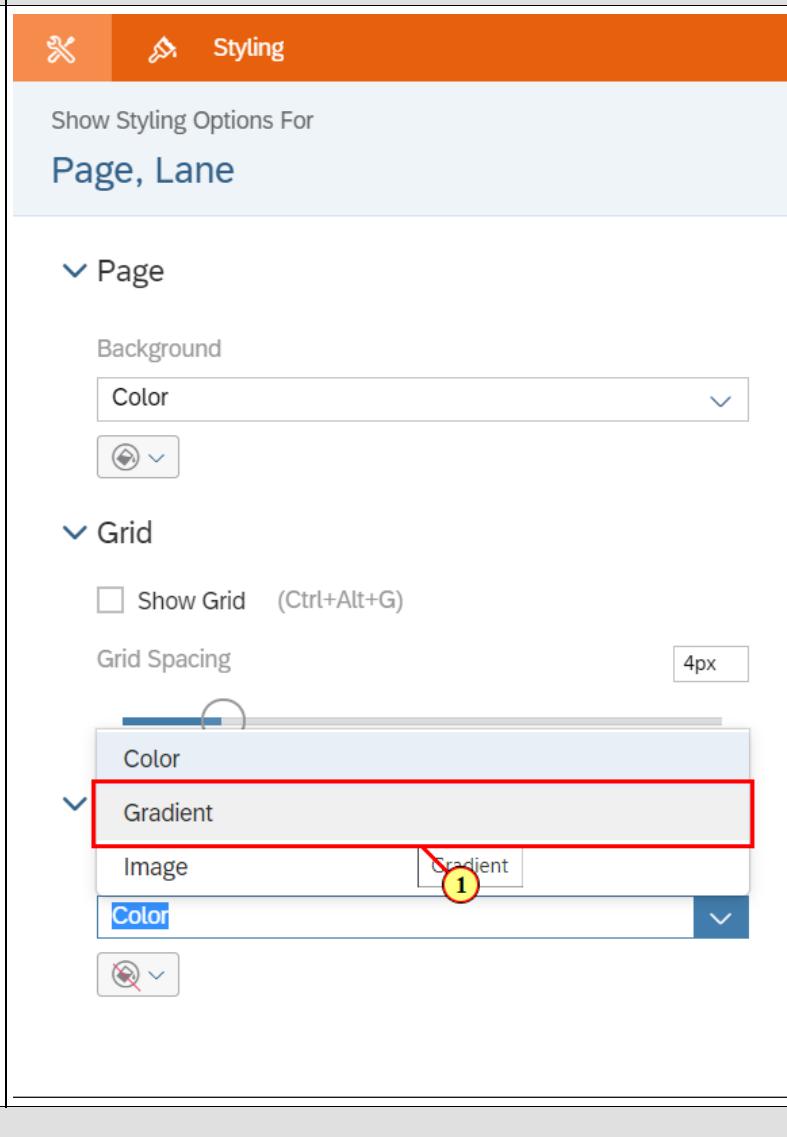
Explanation	Screenshot
 We have created some space on the left of our top lane for corporate branding covered later in this section. Let's edit the charts on our dashboard to declutter the view.	
<b>SAP Analytics Cloud - Google Chrome</b>	
(1) Hold Shift while clicking numeric point charts to select all charts.	
<b>SAP Analytics Cloud - Google Chrome</b>	
(1) Click More	
<b>SAP Analytics Cloud - Google Chrome</b>	
 We can choose to hide a variety of different details on our charts so only the important elements are visible. Let's hide the chart title for now.	
(1) Click Show/Hide	
<b>SAP Analytics Cloud - Google Chrome</b>	
(1) Deselect Chart Title	

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	
 <p>We can also easily customize the backgrounds of each lane to section our dashboard into logical segments. Let's accent our top lane to highlight the KPIs.</p> <p>(1) Click <b>Designer</b></p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click the Top Lane</p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>(1) Click <b>Paint Bucket</b></p>	<p>The screenshot shows the 'Styling' tab selected in the top navigation bar. Below it, a message says 'Show Styling Options For Page, Lane'. The interface is divided into three main sections: 'Page', 'Grid', and 'Lane'. Under 'Page', there's a 'Background' section with a 'Color' dropdown menu. Under 'Grid', there's a checkbox for 'Show Grid' and a slider for 'Grid Spacing' set to 4px. Under 'Lane', there's a 'Background' section with a 'Color' dropdown menu. A red box highlights the 'Color' dropdown menu, and a yellow circle with the number '1' points to the 'Paint Bucket' icon located next to it.</p>

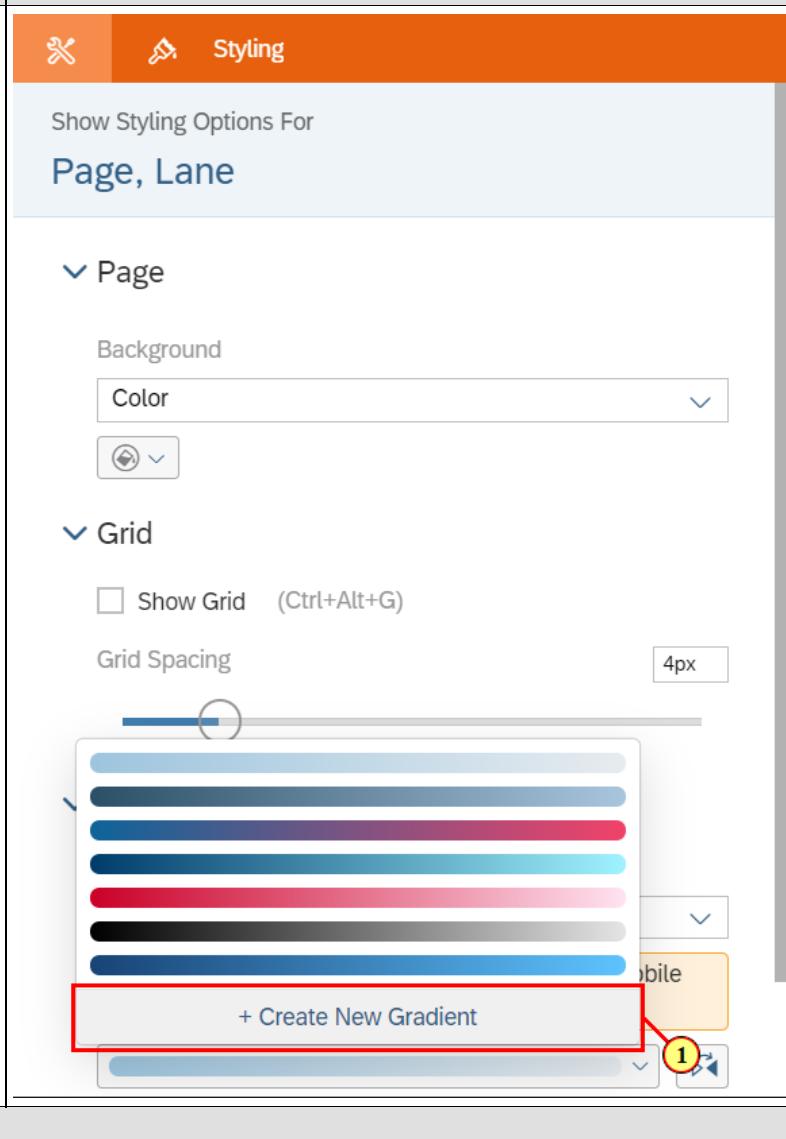
Explanation	Screenshot
(1) Click <b>Black Color</b>	<p>Show Styling Options For Page, Lane</p> <p>▼ Page</p> <p>Background</p> <p>Color</p> <p>4px</p> <p>▼ Grid</p> <p>Solid Colors</p> <p>More</p> <p>4px</p>
 <p>We can also change the background of the left lane to separate the input controls from visualizations.</p> <p>(1) Click <b>Left Lane</b></p>	<p>Click to enter title... Click to enter title...</p> <p>Region</p> <p>Product</p> <p>New Measure...</p> <p>Sales Revenue</p> <p>Gross Margin</p> <p>New Dimens...</p> <p>Region</p> <p>Sales Manager</p> <p>Product</p> <p>659,922,393.93</p> <p>1,562,711,79</p> <p>Gross Margin</p> <p>Gross Margin per Sales Manager for Actual</p> <p>Gross Margin per Product, Workout Usage for Actual</p> <p>Gross Margin per Product</p> <p>Accessories Clothing Footwear</p> <p>Workout Usage for Actual</p> <p>High Intensity Sport Strong Customers</p> <p>Jan Feb Mar Q1 Q2 Q3 Q4</p> <p>Store Location (Days On Stream)</p> <p>Gross Margin %</p> <p>Designer Controls View</p> <p>Show Styling Options For Page, Lane</p> <p>▼ Page</p> <p>Background</p> <p>Color</p> <p>▼ Grid</p> <p>Show Grid (Ctrl+Alt+G)</p> <p>Grid Spacing</p> <p>▼ Lane</p> <p>Background</p> <p>Color</p>
SAP Analytics Cloud - Google Chrome	SAP Analytics Cloud - Google Chrome

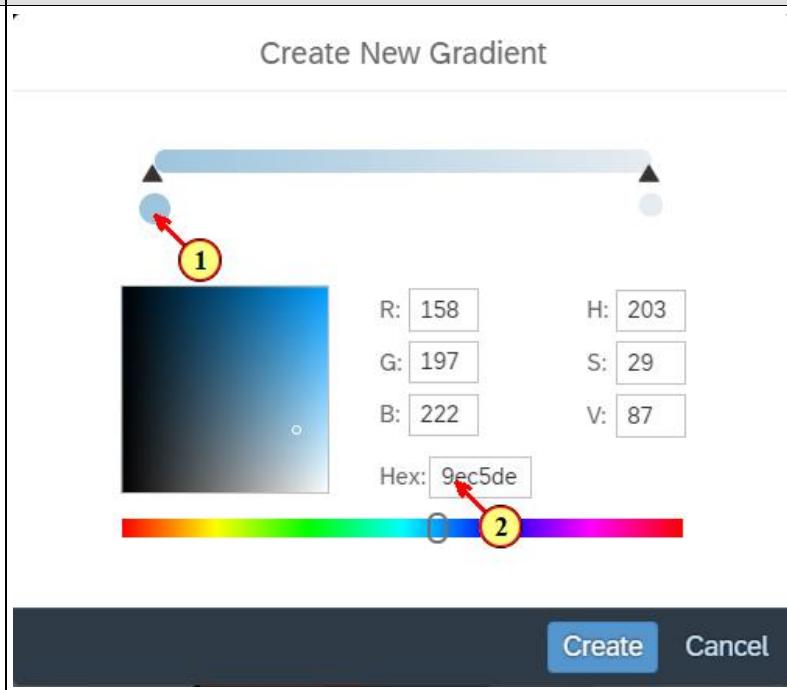
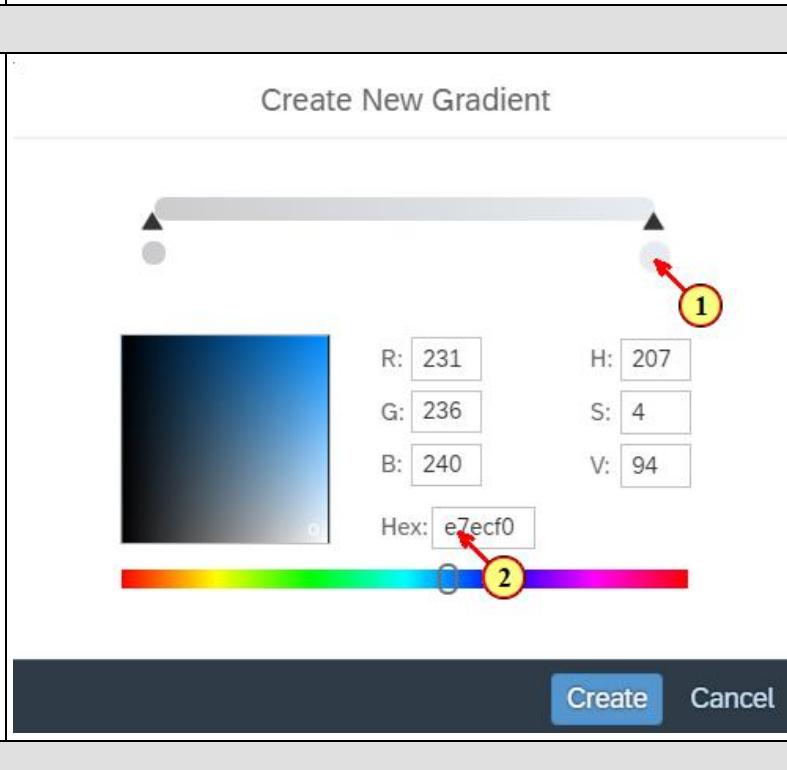
Explanation	Screenshot
(1) Click <b>Expand</b>	<p>The screenshot shows the 'Styling' tab selected in the top navigation bar. Below it, a message says 'Show Styling Options For Page, Lane'. The interface is divided into three main sections: 'Page', 'Grid', and 'Lane'. The 'Page' section contains a 'Background' section with a color picker set to 'Color'. The 'Grid' section has a 'Show Grid' checkbox (unchecked) and a 'Grid Spacing' slider set to '4px'. The 'Lane' section also has a 'Background' section with a color picker set to 'Color'. A red box highlights the 'Color' button in the Lane section, and a yellow circle with the number '1' points to it, indicating the step to click.</p>

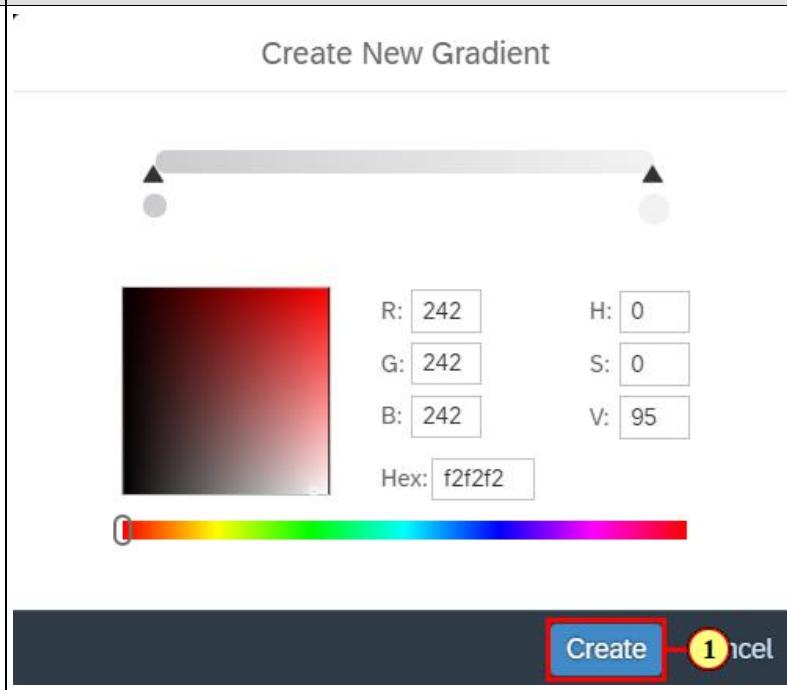
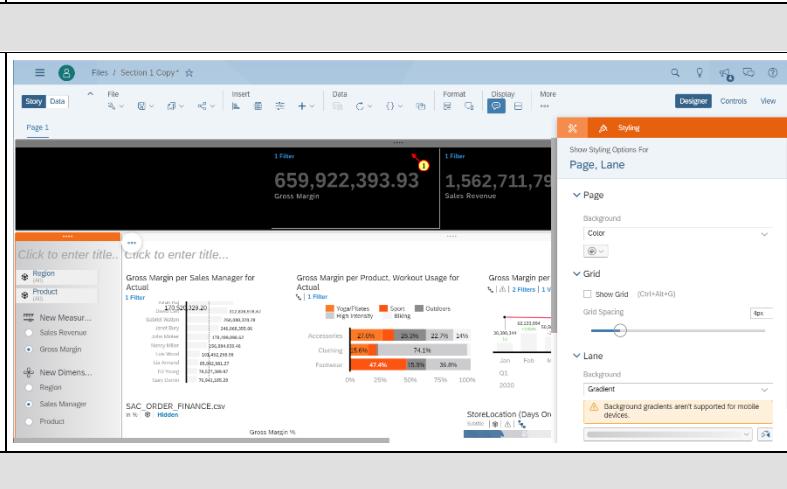
Explanation	Screenshot
<p>👉 Instead of using a solid color, we can apply a custom gradient to our story.</p> <p>(1) Click <b>Gradient</b></p>	 <p>Show Styling Options For <b>Page, Lane</b></p> <p>▼ Page</p> <p>Background</p> <p>Color</p> <p>Gradient</p> <p>Show Grid (Ctrl+Alt+G)</p> <p>Grid Spacing 4px</p> <p>Color</p> <p>Gradient</p> <p>Image</p> <p>Color</p>

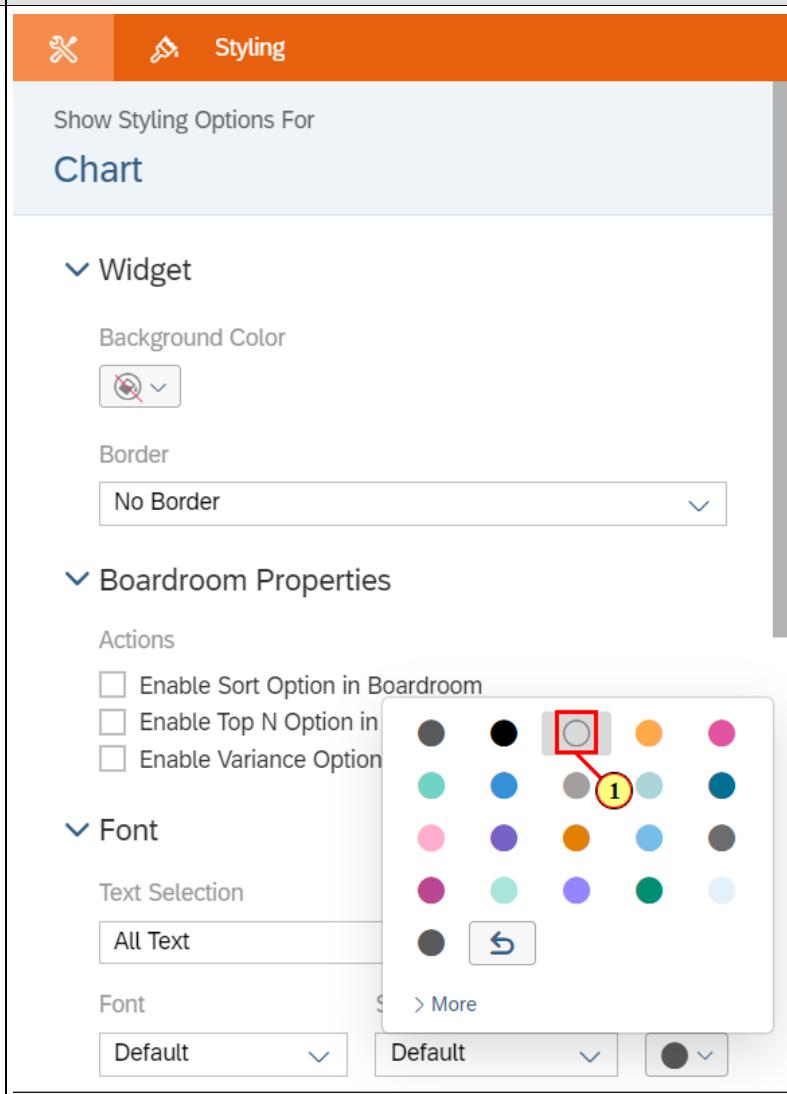
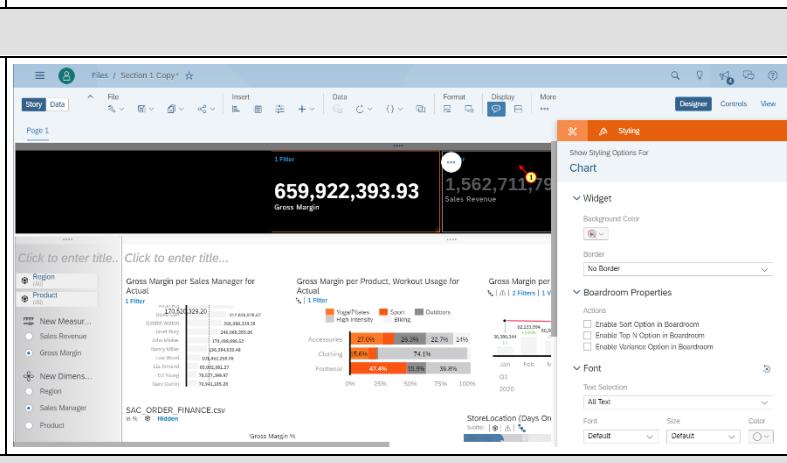
SAP Analytics Cloud - Google Chrome

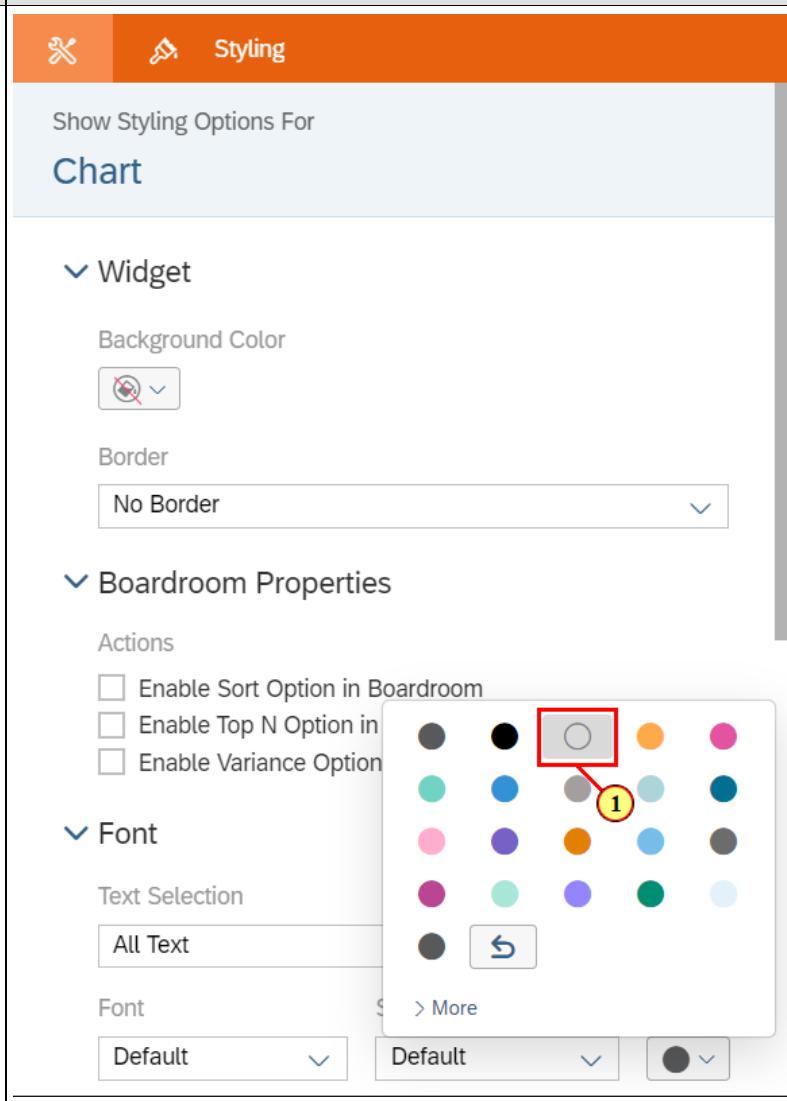
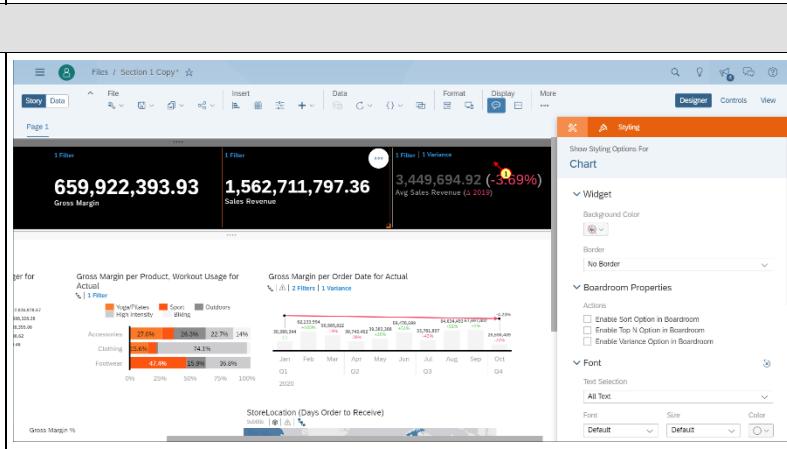
Explanation	Screenshot
(1) Click <b>Gradients</b> to expand	<p>The screenshot shows the 'Styling' tab in SAP Analytics Cloud. It displays settings for 'Page', 'Grid', and 'Lane'. Under 'Page', there's a 'Background' section with a 'Color' dropdown and a gradient swatch. Under 'Grid', there's a 'Show Grid' checkbox and a 'Grid Spacing' slider set to 4px. Under 'Lane', there's a 'Background' section with a 'Gradient' dropdown. A warning message states: '⚠️ Background gradients aren't supported for mobile devices.' A red box highlights the 'Gradient' dropdown, and a red circle with the number '1' highlights the warning message.</p>

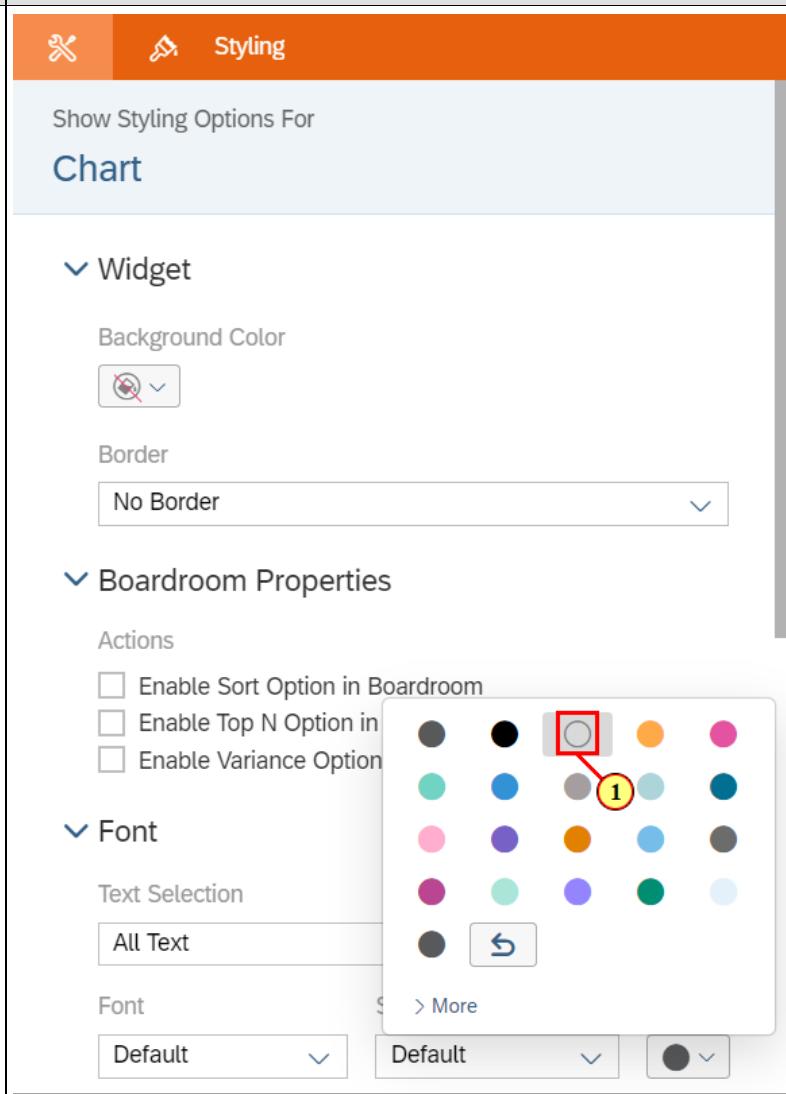
Explanation	Screenshot
(1) Click <b>Create New Gradient</b>	 <p>The screenshot shows the 'Styling' tab selected in the top navigation bar. Below it, a message says 'Show Styling Options For Page, Lane'. Under the 'Page' section, there's a 'Background' section with a 'Color' dropdown and a color picker. The 'Grid' section contains a checkbox for 'Show Grid' and a 'Grid Spacing' input field set to '4px'. A horizontal slider is positioned above a color gradient palette. At the bottom of the palette, there is a button labeled '+ Create New Gradient'. This button is highlighted with a red box and a yellow circle containing the number '1'.</p>

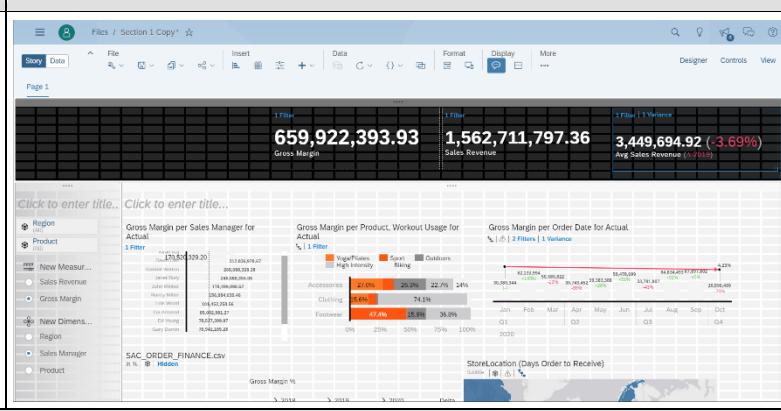
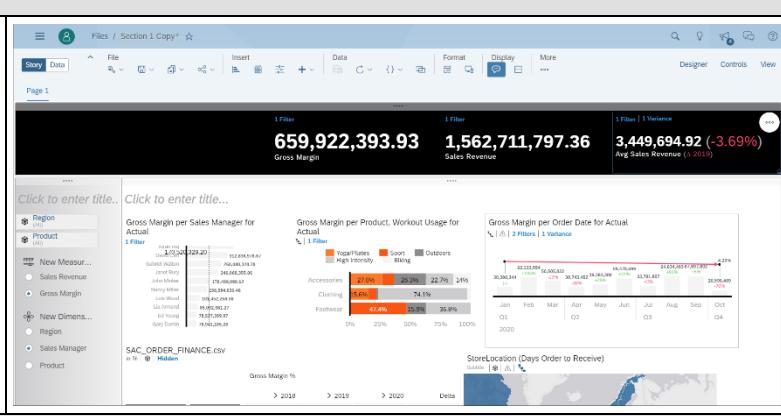
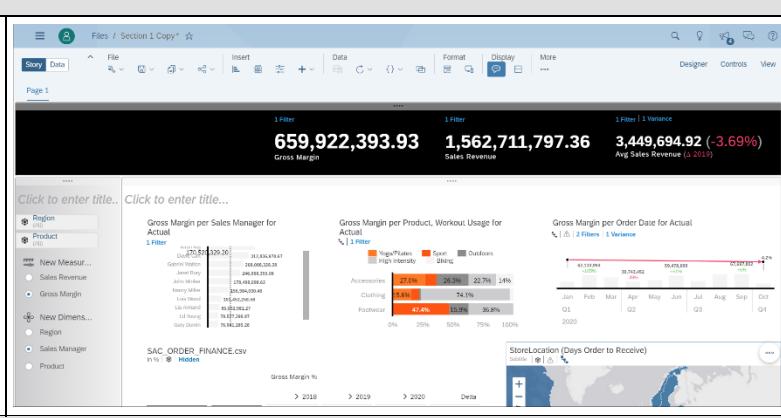
Explanation	Screenshot
<p> In the gradient creation menu, users can apply specific colors on the gradient range or add additional swatches within the gradient.</p> <p>(1) Click on first swatch  (2) Change hex to <b>ccccce</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click on second swatch  (2) Change hex to <b>f2f2f2</b></p>	

Explanation	Screenshot
(1) Click <b>Create</b>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 Now our story has lanes that are clearly differentiated into logical segments. Utilizing background is a great way to enhance your dashboard for clarity. We can notice that the color of our KPIs do not stand out against the dark background. Let's change the font color so they are accented appropriately.</p> <p>(1) Click on first numeric point chart</p>	

Explanation	Screenshot																																																																				
(1) Change Font Color to <b>White</b>	 <p>Show Styling Options For Chart</p> <p>Widget</p> <p>Background Color</p> <p>No Border</p> <p>Boardroom Properties</p> <p>Actions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enable Sort Option in Boardroom</li> <li><input type="checkbox"/> Enable Top N Option in Boardroom</li> <li><input type="checkbox"/> Enable Variance Option in Boardroom</li> </ul> <p>Font</p> <p>Text Selection</p> <p>All Text</p> <p>Font</p> <p>Default</p> <p>Default</p>																																																																				
(1) Click second numeric point chart	 <p>SAP Analytics Cloud - Google Chrome</p> <p>File / Section 1 Copy * ☆</p> <p>Page 1</p> <p>Click to enter title... Click to enter title...</p> <p>Gross Margin per Sales Manager for Actual</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>John Doe</td><td>123,456.78</td></tr> <tr><td>Jane Smith</td><td>134,567.89</td></tr> <tr><td>Mike Johnson</td><td>145,678.90</td></tr> <tr><td>Alice White</td><td>156,789.01</td></tr> <tr><td>Bob Black</td><td>167,890.12</td></tr> <tr><td>Cathy Green</td><td>178,901.23</td></tr> <tr><td>Dave Blue</td><td>189,012.34</td></tr> <tr><td>Eve Red</td><td>200,123.45</td></tr> <tr><td>Fred Yellow</td><td>211,234.56</td></tr> <tr><td>Gary Purple</td><td>222,345.67</td></tr> </tbody> </table> <p>Gross Margin per Product, Workout Usage for Actual</p> <table border="1"> <thead> <tr> <th>Product</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>YogaPants</td><td>22%</td></tr> <tr><td>Workout Shirts</td><td>23%</td></tr> <tr><td>Sport Gloves</td><td>24%</td></tr> <tr><td>Running Shoes</td><td>25%</td></tr> <tr><td>Biking Helmets</td><td>26%</td></tr> <tr><td>Swimwear</td><td>27%</td></tr> <tr><td>Accessories</td><td>28%</td></tr> <tr><td>Footwear</td><td>29%</td></tr> <tr><td>Training Equipment</td><td>30%</td></tr> </tbody> </table> <p>Gross Margin per Month for Actual</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>30%</td></tr> <tr><td>Feb</td><td>31%</td></tr> <tr><td>Mar</td><td>32%</td></tr> <tr><td>Apr</td><td>33%</td></tr> <tr><td>May</td><td>34%</td></tr> <tr><td>Jun</td><td>35%</td></tr> <tr><td>Jul</td><td>36%</td></tr> <tr><td>Aug</td><td>37%</td></tr> <tr><td>Sep</td><td>38%</td></tr> <tr><td>Oct</td><td>39%</td></tr> <tr><td>Nov</td><td>40%</td></tr> <tr><td>Dec</td><td>41%</td></tr> </tbody> </table> <p>SAC_ORDER_FINANCE.CSV</p> <p>Region</p> <p>Product</p> <p>New Measure</p> <p>Sales Revenue</p> <p>Gross Margin</p> <p>New Dimension</p> <p>Region</p> <p>Sales Manager</p> <p>Product</p> <p>Designer Controls View</p> <p>Styling</p> <p>Show Styling Options For Chart</p> <p>Widget</p> <p>Background Color</p> <p>No Border</p> <p>Boardroom Properties</p> <p>Actions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enable Sort Option in Boardroom</li> <li><input type="checkbox"/> Enable Top N Option in Boardroom</li> <li><input type="checkbox"/> Enable Variance Option in Boardroom</li> </ul> <p>Font</p> <p>Text Selection</p> <p>All Text</p> <p>Font</p> <p>Size</p> <p>Color</p> <p>Default</p>	Sales Manager	Gross Margin	John Doe	123,456.78	Jane Smith	134,567.89	Mike Johnson	145,678.90	Alice White	156,789.01	Bob Black	167,890.12	Cathy Green	178,901.23	Dave Blue	189,012.34	Eve Red	200,123.45	Fred Yellow	211,234.56	Gary Purple	222,345.67	Product	Gross Margin	YogaPants	22%	Workout Shirts	23%	Sport Gloves	24%	Running Shoes	25%	Biking Helmets	26%	Swimwear	27%	Accessories	28%	Footwear	29%	Training Equipment	30%	Month	Gross Margin	Jan	30%	Feb	31%	Mar	32%	Apr	33%	May	34%	Jun	35%	Jul	36%	Aug	37%	Sep	38%	Oct	39%	Nov	40%	Dec	41%
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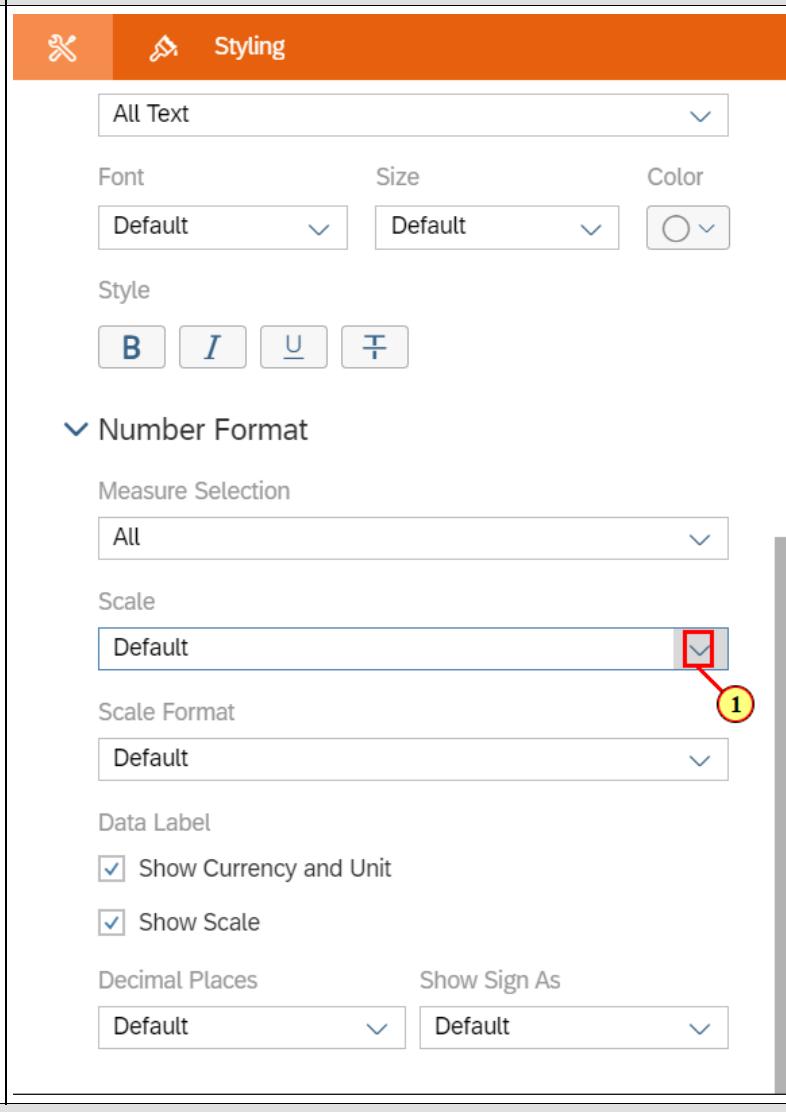
Explanation	Screenshot
(1) Change Font Color to <b>White</b>	 <p>Show Styling Options For Chart</p> <p>Widget</p> <p>Background Color</p> <p>No Border</p> <p>Boardroom Properties</p> <p>Actions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enable Sort Option in Boardroom</li> <li><input type="checkbox"/> Enable Top N Option in Boardroom</li> <li><input type="checkbox"/> Enable Variance Option in Boardroom</li> </ul> <p>Font</p> <p>Text Selection</p> <p>All Text</p> <p>Font</p> <p>Default</p>
(1) Click third numeric point chart.	 <p>SAP Analytics Cloud - Google Chrome</p> <p>659,922,393.93</p> <p>1,562,711,797.36</p> <p>3,449,694.92 (-3.69%)</p> <p>Avg Sales Revenue (Δ 2019)</p> <p>Gross Margin per Product, Workout Usage for Actual</p> <p>Gross Margin per Order Date for Actual</p> <p>StoreLocation (Days Order to Receive)</p>
SAP Analytics Cloud - Google Chrome	

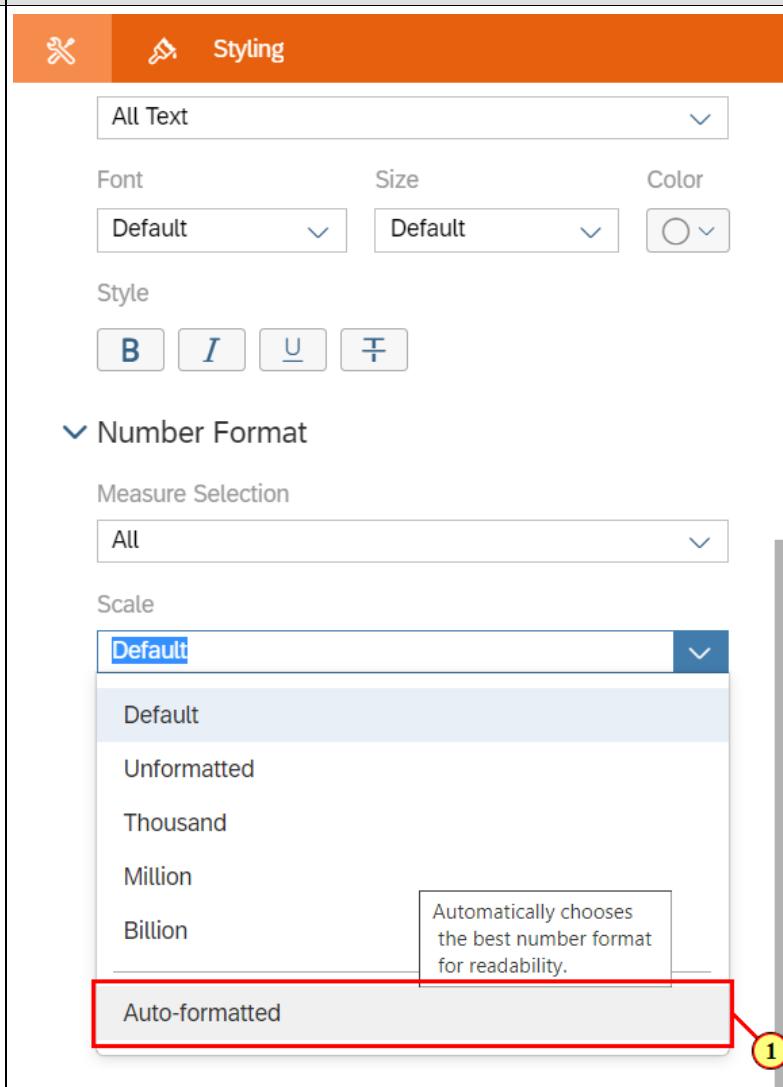
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(1) Change Font Color to <b>White</b>	 <p>Show Styling Options For <b>Chart</b></p> <p>Widget</p> <p>Background Color</p> <p>No Border</p> <p>Boardroom Properties</p> <p>Actions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enable Sort Option in Boardroom</li> <li><input type="checkbox"/> Enable Top N Option in</li> <li><input type="checkbox"/> Enable Variance Option</li> </ul> <p>Font</p> <p>Text Selection</p> <p>All Text</p> <p>Font</p> <p>Default</p>
SAP Analytics Cloud - Google Chrome	<p>(1) Resize your numeric point charts so they are smaller.</p>  <p>1 Filter   1 Variance</p> <p>659,922,393.93</p> <p>Gross Margin</p> <p>1,562,711,797.36</p> <p>Sales Revenue</p> <p>3,449,694.92 (-3.69%)</p> <p>Avg Sales Revenue (3.2019)</p>
SAP Analytics Cloud - Google Chrome	

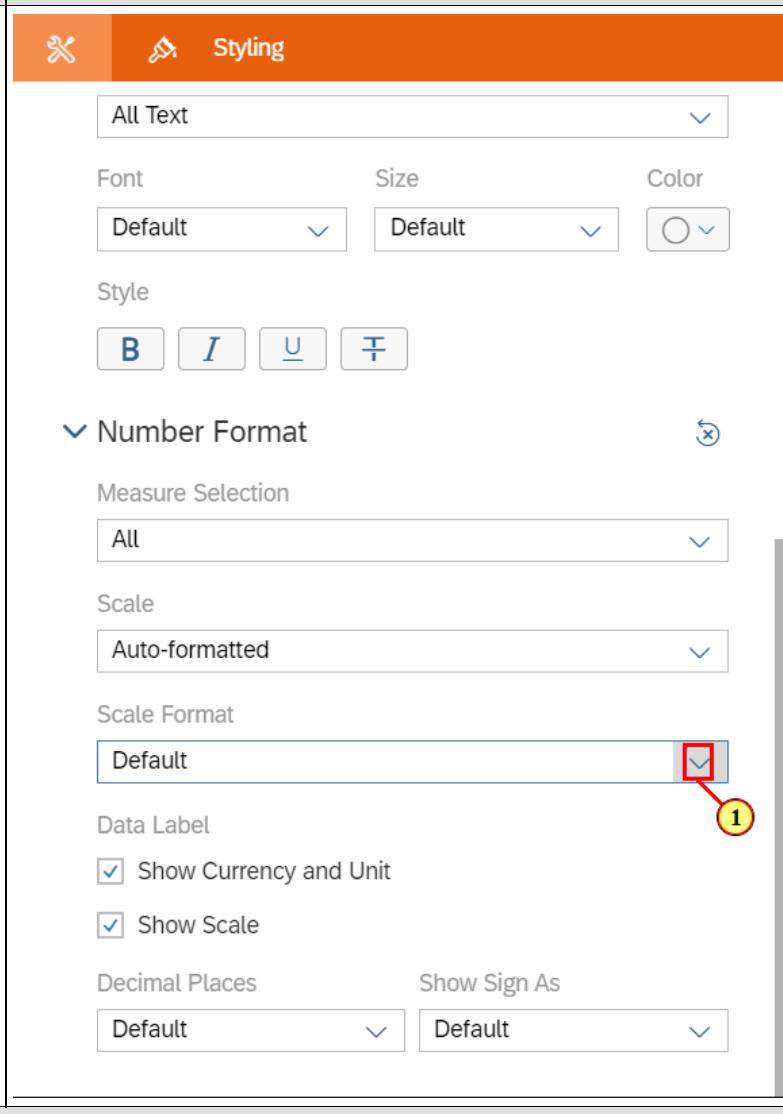
Explanation	Screenshot
<p>👉 In responsive pages, the story is divided into cells that are used to format the placement and size of all elements on the story. This enables the story view to be easily converted for viewing on a variety of device formats, including mobile. Users can choose to change the size and spacing between cells.</p>	
SAP Analytics Cloud - Google Chrome	
<p>⚠️ Quality Check! Is your top lane more compact and stand-out? We will now resize the other charts in our story. It is recommended to leave white space in between charts for better visual clarity.</p>	
SAP Analytics Cloud - Google Chrome	
<p>👉 After some resizing and moving charts, our story looks like this! There are still some details we can polish in our charts such as their number formatting.</p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>👉 It is likely that your KPIs should be simplified to less significant digits depending on business needs. We can easily format numbers in our story dashboard.</p> <p>(1) Select first numeric point chart</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click Designer</p>	

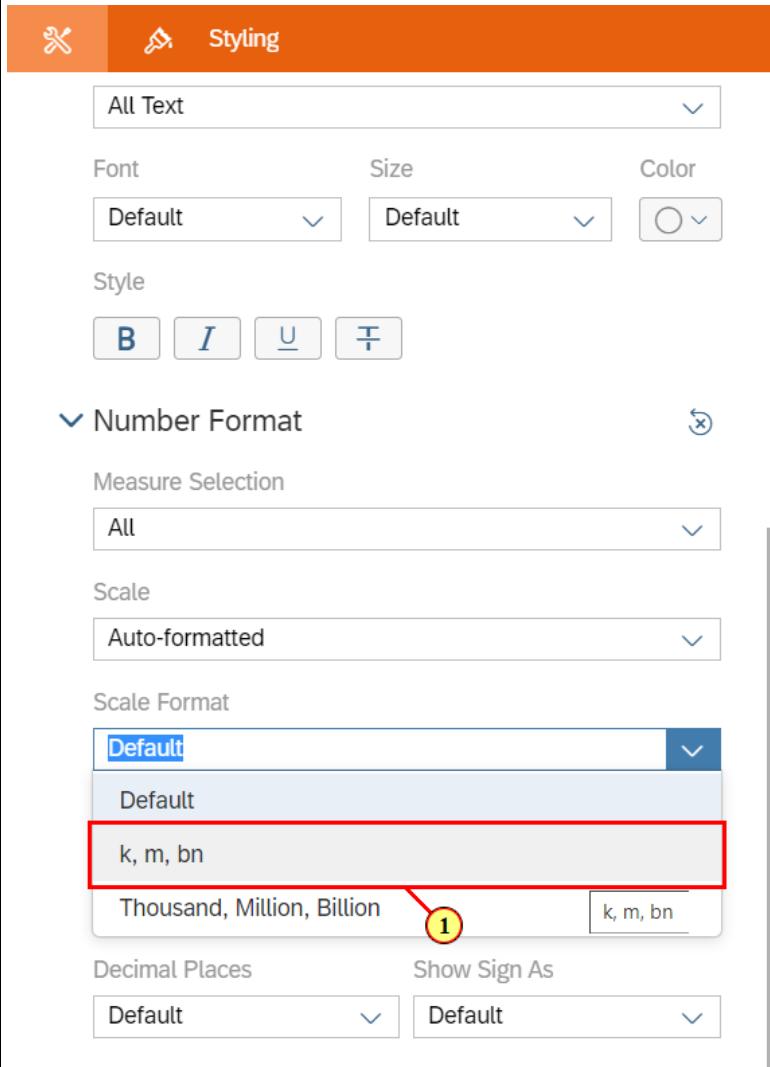
Explanation	Screenshot
(1) Click <b>Styling</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top right, there is a toolbar with several icons. One icon, labeled 'Styling', is highlighted with a red box and has a yellow circle with the number '1' over it, indicating it is the next step to click. Below the toolbar, the interface displays a 'Data Source' section with the text 'SAC_ORDER_FINANCE.csv'. Underneath this, there is a 'Chart Structure' section with various chart types: Comparison, Trend, Distribution, Correlation, Indicator, and More. A dropdown menu titled 'Recommended Comparisons (2)' is open. Below the chart structure, there are sections for 'Measures' (Primary Values: Gross Margin), 'Secondary Values' (Add Measure), and 'Color' (Add Threshold). The bottom of the screenshot shows the browser footer: 'SAP Analytics Cloud - Google Chrome'.</p>

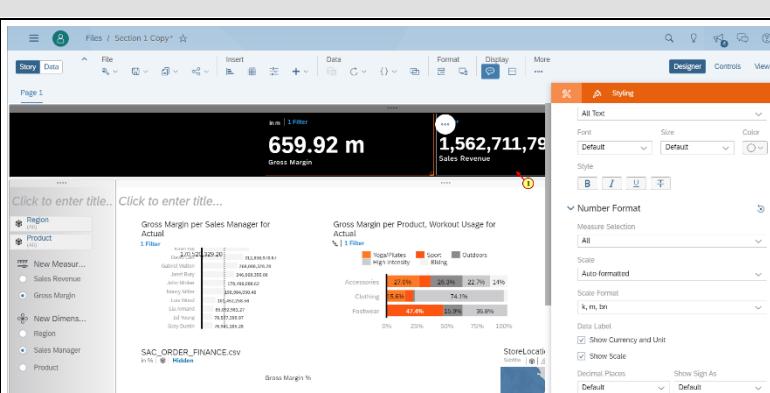
Explanation	Screenshot
(1) Click <b>Expand</b> for Scale field.	 <p>The screenshot shows the SAP Analytics Cloud styling interface. At the top, there are tabs for 'Text' and 'Styling'. The 'Styling' tab is selected, showing options for 'Font', 'Size', 'Color', and 'Style' (Bold, Italic, Underline, and Text-align). Below this is a section titled 'Number Format' with a collapsed icon. Under 'Number Format', there are sections for 'Measure Selection' (set to 'All'), 'Scale' (set to 'Default'), 'Scale Format' (set to 'Default'), 'Data Label' (checkboxes for 'Show Currency and Unit' and 'Show Scale' are checked), 'Decimal Places' (set to 'Default'), and 'Show Sign As' (set to 'Default'). A red box highlights the expand arrow next to the 'Scale' dropdown, and a yellow circle with the number '1' points to it.</p>

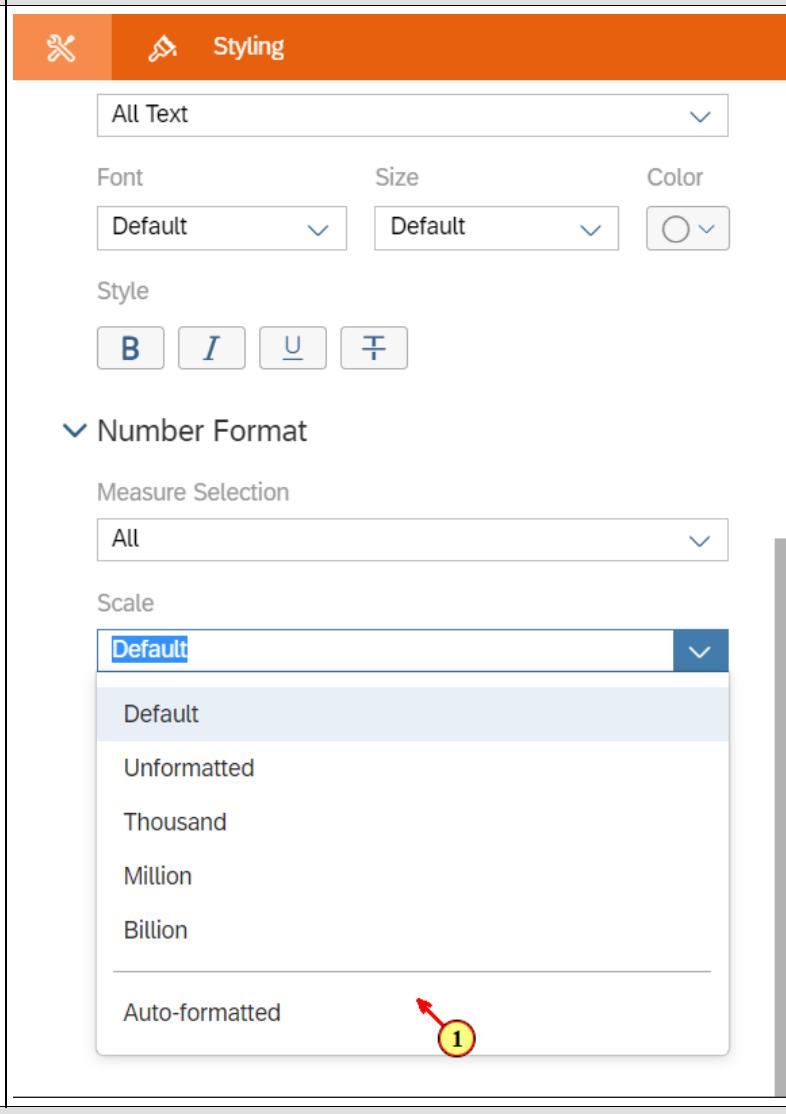
Explanation	Screenshot
<p>👉 It is recommended to use auto-formatted scale for numbers in your story dashboard.</p> <p>(1) Click <b>Auto-formatted</b></p>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. At the top, there are tabs for 'Styling' and 'Text'. Below the tabs are buttons for 'Font', 'Size', and 'Color'. Under 'Style', there are buttons for bold (B), italic (I), underline (U), and strikethrough (T). A dropdown menu titled 'Number Format' is open, showing the following options: Default, Unformatted, Thousand, Million, Billion, and Auto-formatted. The 'Auto-formatted' option is highlighted with a red rectangle and has a yellow circle with the number '1' next to it. A tooltip for 'Auto-formatted' states: 'Automatically chooses the best number format for readability.'</p>

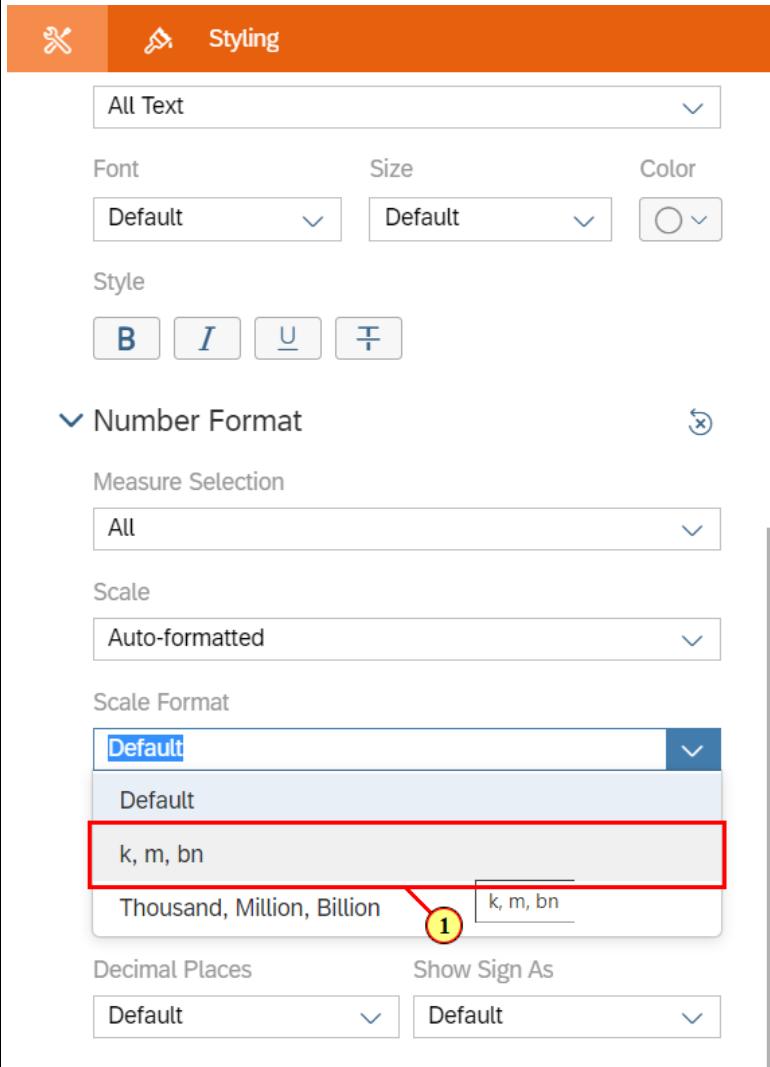
Explanation	Screenshot
<p>👉 We can also change how the units of our number are displayed on the chart.</p> <p>(1) Click <b>Expand</b> for Scale Format field.</p>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. At the top, there are tabs for 'Styling' and 'Text'. Below the tabs are buttons for 'Font', 'Size', and 'Color'. Under 'Style', there are buttons for bold (B), italic (I), underline (U), and strikethrough (T). A section titled 'Number Format' is expanded, indicated by a blue triangle icon. This section includes a 'Measure Selection' dropdown set to 'All', a 'Scale' dropdown set to 'Auto-formatted', and a 'Scale Format' dropdown set to 'Default'. A red box highlights the 'Scale Format' dropdown, and a yellow circle with the number '1' points to it. Below these are sections for 'Data Label' (with checkboxes for 'Show Currency and Unit' and 'Show Scale'), 'Decimal Places' (set to 'Default'), and 'Show Sign As' (set to 'Default').</p>

SAP Analytics Cloud - Google Chrome

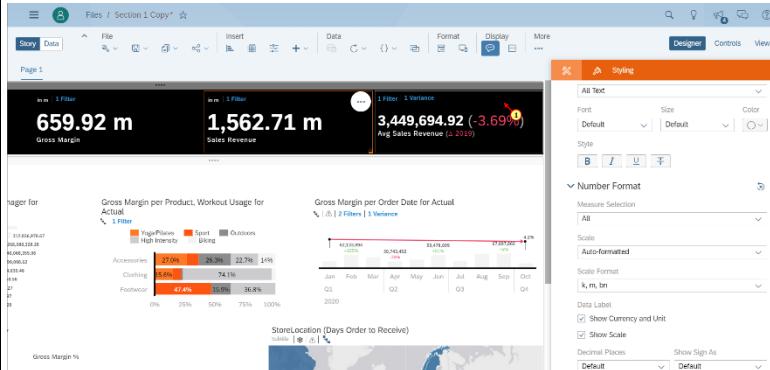
Explanation	Screenshot
(1) Click <b>k, m, bn</b>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. In the 'Number Format' section, there is a dropdown menu for 'Scale Format' with options: Default, Thousand, Million, Billion, and k, m, bn. The 'k, m, bn' option is highlighted with a red box and a yellow numbered circle '1' pointing to it.</p>

SAP Analytics Cloud - Google Chrome	
(1) Click second numeric point chart	 <p>The screenshot shows a SAP Analytics Cloud dashboard with a numeric point chart displaying values like 659.92 m and 1,562,711.79. To the right is a styling panel with various options for font, size, color, and number format, including a dropdown for 'Scale Format' with 'k, m, bn' selected.</p>

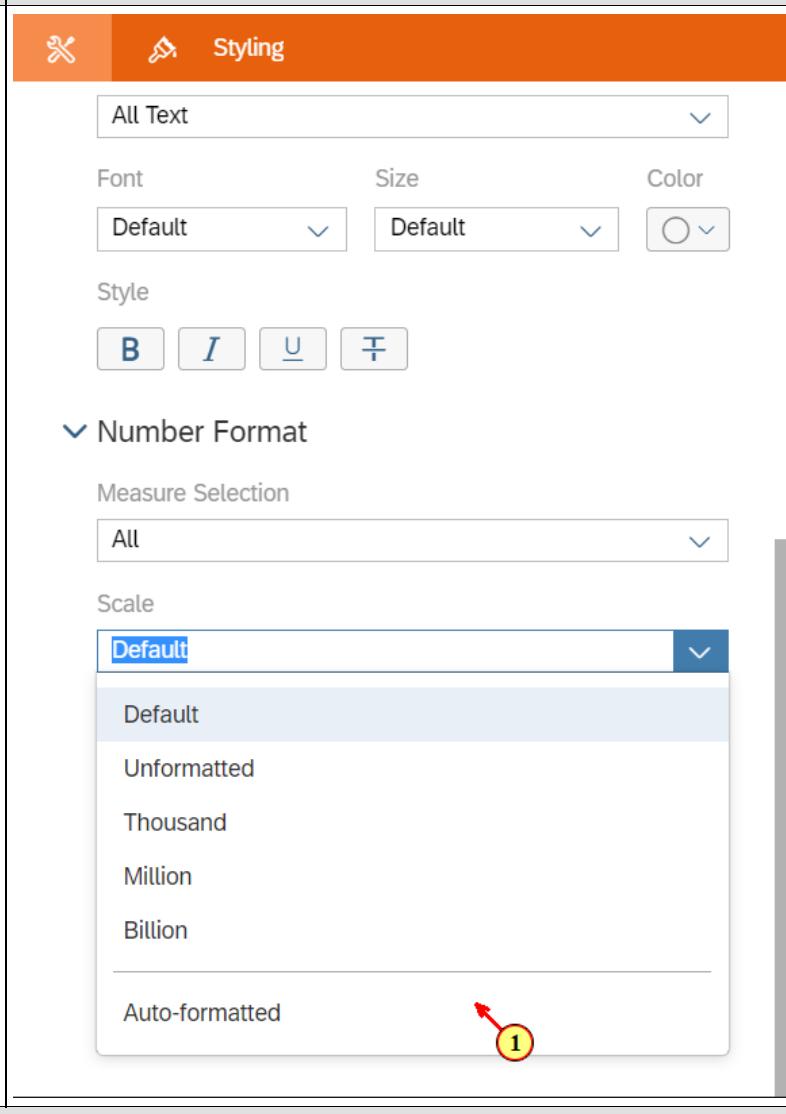
Explanation	Screenshot
(1) Change Scale to <b>Auto-formatted</b>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. At the top, there are tabs for 'Styling' and 'All Text'. Below these are controls for 'Font' (set to 'Default'), 'Size' (set to 'Default'), and 'Color' (a color swatch). Under 'Style', there are buttons for bold ('B'), italic ('I'), underline ('U'), and strikethrough ('T'). A section titled 'Number Format' is expanded, showing a dropdown for 'Measure Selection' set to 'All'. Below it is a dropdown for 'Scale' currently set to 'Default'. A list of scale options is shown: 'Default', 'Unformatted', 'Thousand', 'Million', 'Billion', and 'Auto-formatted'. The 'Auto-formatted' option is highlighted with a red arrow pointing to it and a yellow circle containing the number '1'.</p>

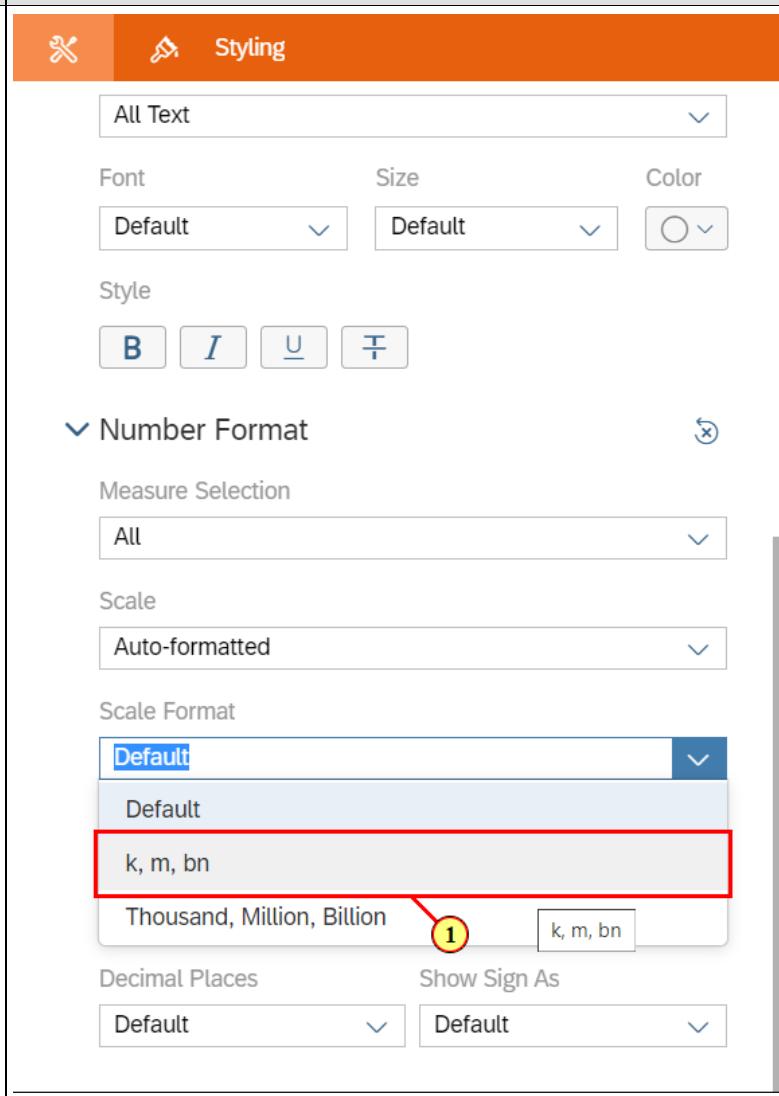
Explanation	Screenshot
(1) Change Format to <b>k, m, bn</b>	

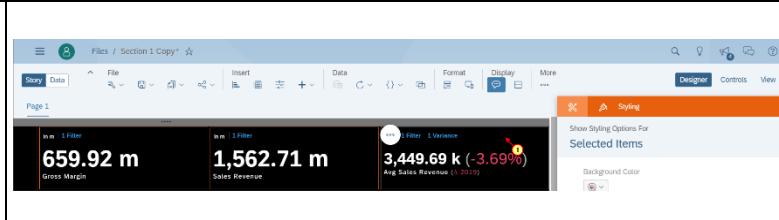
SAP Analytics Cloud - Google Chrome

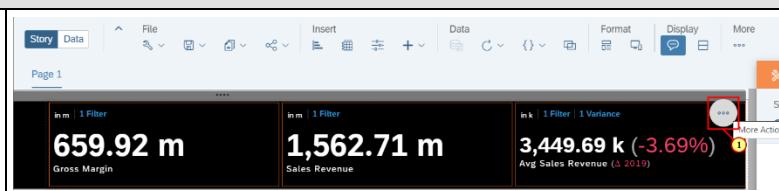
(1) Click third numeric point chart	
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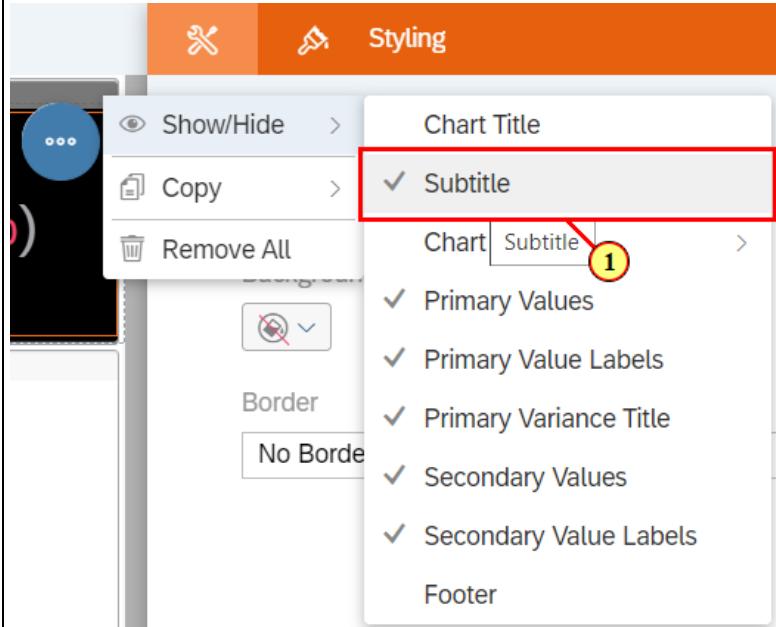
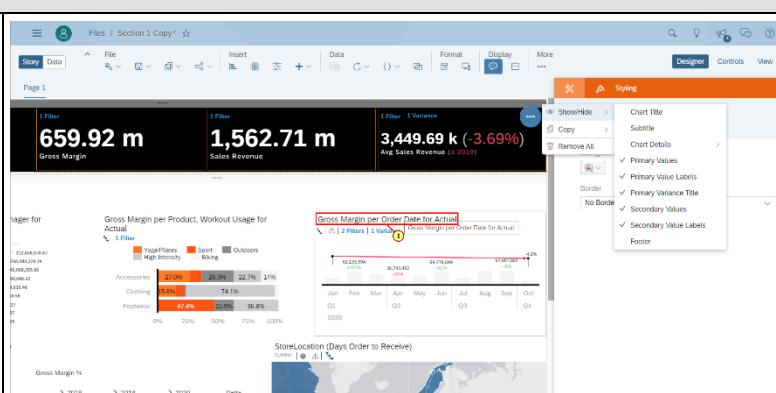
SAP Analytics Cloud - Google Chrome

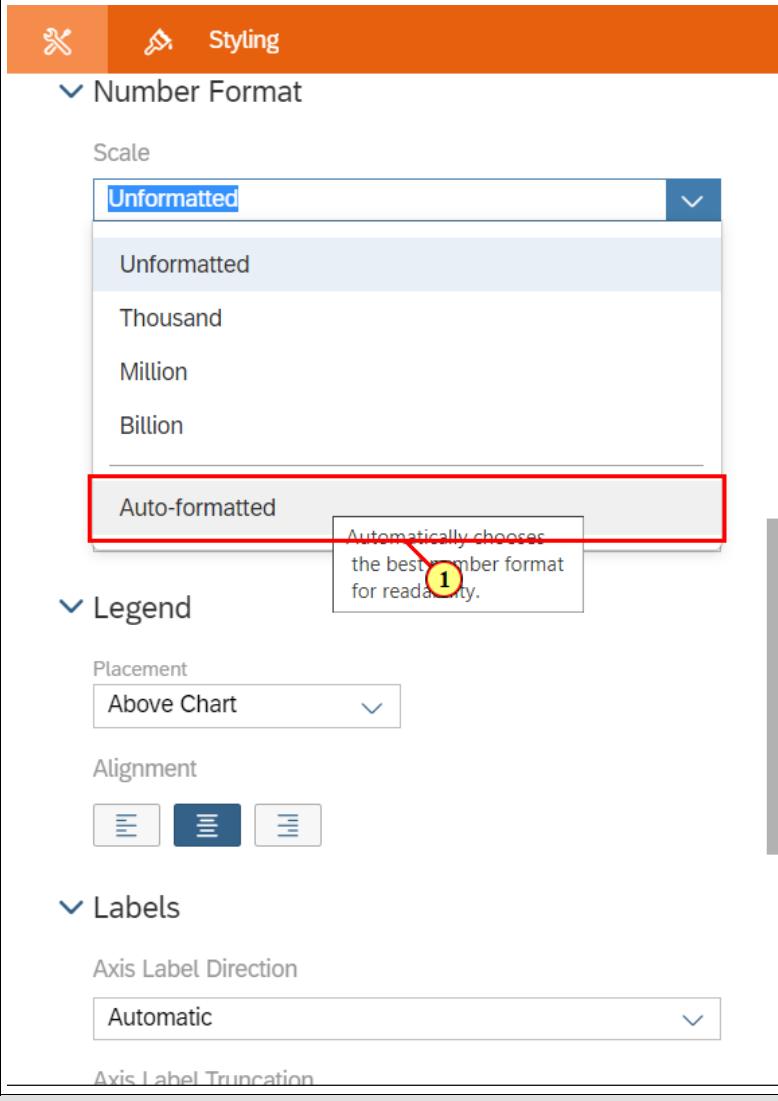
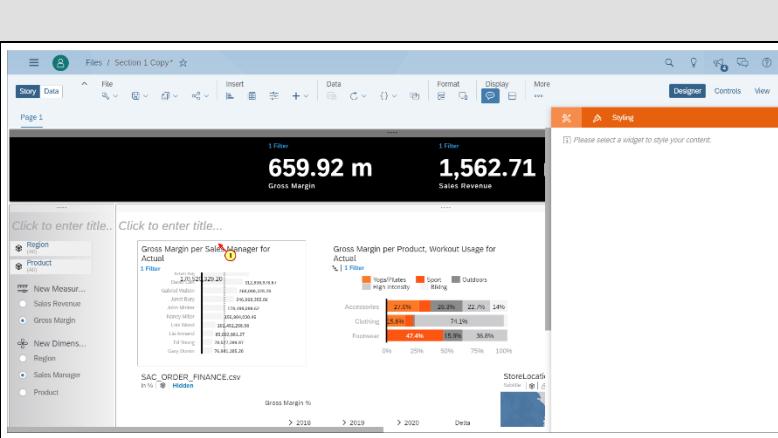
Explanation	Screenshot
(1) Change Scale to <b>Auto-formatted</b>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. At the top, there are tabs for 'Styling' and 'Screenshot'. Below the tabs are buttons for 'Font' (set to 'Default'), 'Size' (set to 'Default'), and 'Color' (a color swatch). Under 'Style', there are buttons for bold ('B'), italic ('I'), underline ('U'), and strikethrough ('T'). A section titled 'Number Format' is expanded, showing a dropdown menu for 'Scale'. The menu items are: Default, Unformatted, Thousand, Million, Billion, and Auto-formatted. The 'Auto-formatted' option is highlighted with a red circle containing the number '1' and has a red arrow pointing to it from the left.</p>

Explanation	Screenshot
(1) Click <b>k, m, bn</b>	 <p>The screenshot shows the SAP Analytics Cloud styling interface. In the 'Number Format' section, under 'Scale Format', the 'Default' option is selected. Below it, the 'k, m, bn' option is highlighted with a red box and a yellow circle with the number 1. Other options like 'Thousand, Million, Billion' are also visible.</p>

SAP Analytics Cloud - Google Chrome	
 Now that we have formatted our KPIs, we can hide any redundant information in our charts. (1) Hold shift and select all numeric point charts.	

SAP Analytics Cloud - Google Chrome	
(1) Click <b>More Actions</b>	

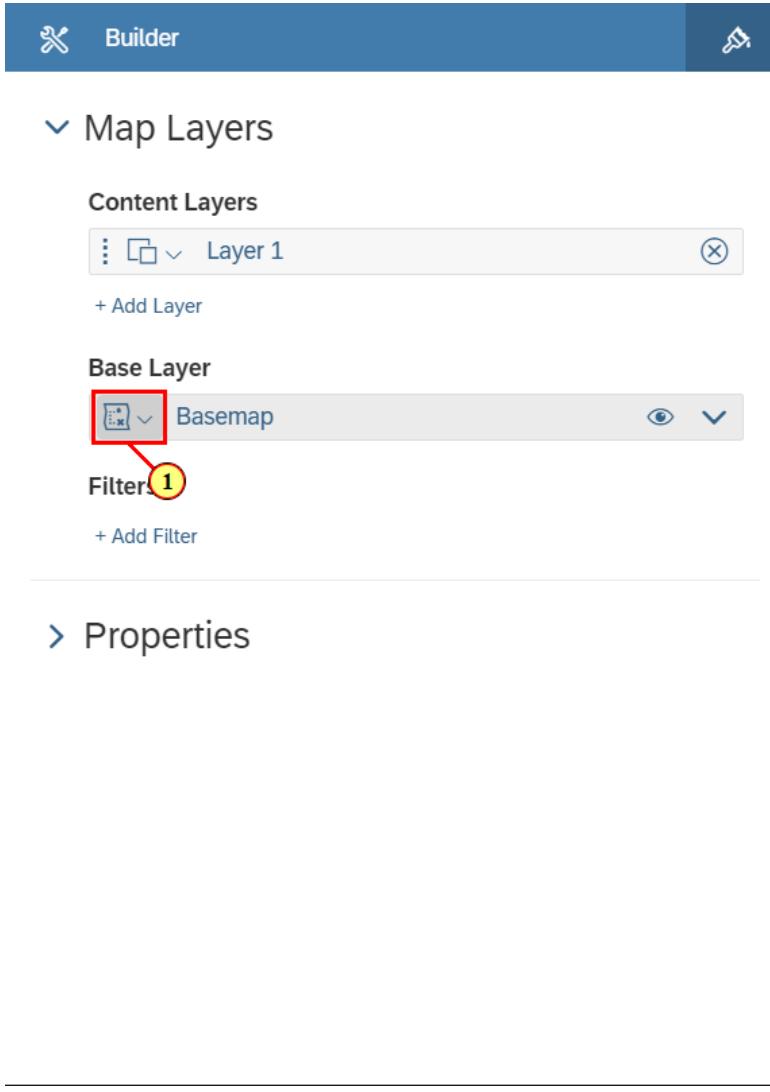
Explanation	Screenshot
(1) Deselect Subtitle	
<p>👉 Our KPIs look great! Next, we will polish the number formatting for our other charts.</p> <p>(1) Click Gross Margin per Order Date for Actual chart.</p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Change Scale to <b>Auto-formatted</b>	 <p>The screenshot shows the 'Styling' tab in SAP Analytics Cloud. Under the 'Number Format' section, the 'Scale' dropdown is set to 'Unformatted'. Below it, there are four options: 'Unformatted', 'Thousand', 'Million', and 'Billion'. A red box highlights the 'Auto-formatted' option, which is described as 'Automatically chooses the best number format for readability.' with a circled '1'.</p>
(1) Click <b>Gross Margin per Sales Manager for Actual</b> chart.	 <p>The screenshot shows a SAP Analytics Cloud dashboard titled 'Section 1 Copy*'. It features several charts and tables. A red box highlights the 'Gross Margin per Sales Manager for Actual' chart, which is a bar chart showing sales revenue by sales manager. The chart has two main values displayed above it: '659.92 m' and '1,562.71'.</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>(1) Change Scale to <b>Auto-formatted</b></p>	<p>Number Format</p> <p>Scale</p> <p>Unformatted</p> <p>Unformatted</p> <p>Thousand</p> <p>Million</p> <p>Billion</p> <p>Auto-formatted</p> <p>Automatically chooses the best number format for readability.</p>
<p>👉 We will now look at editing our Geo Map visualization to fit the styling of the rest of our story.</p> <p>(1) Click the <b>Geo Map</b></p>	<p>StoreLocation (Avg Delivery Time)</p> <p>Subtitle   ⚙️   ⚡   ⚡</p> <p>4000km</p> <p>2000mi</p> <p>Esri   Esri esri</p>

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	<p>The screenshot shows the SAP Analytics Cloud styling interface for a Geo Map. At the top, there's a toolbar with icons for Builder, Styling, and Share. A tooltip 'Show Styling Options For Geo Map' is displayed. A red box highlights the 'Builder' icon, and a yellow circle with the number '1' highlights the 'Share' icon. Below the toolbar, the main area has a title 'Geo Map'. It contains three sections: 'Widget' (with 'Background Color' and 'Border' settings), 'Control Styling' (with 'Theme' set to 'Light' and 'Opacity' slider at 100%), and 'Font' (with 'Text Selection' set to 'All Text').</p>
(1) Click <b>Builder</b>	

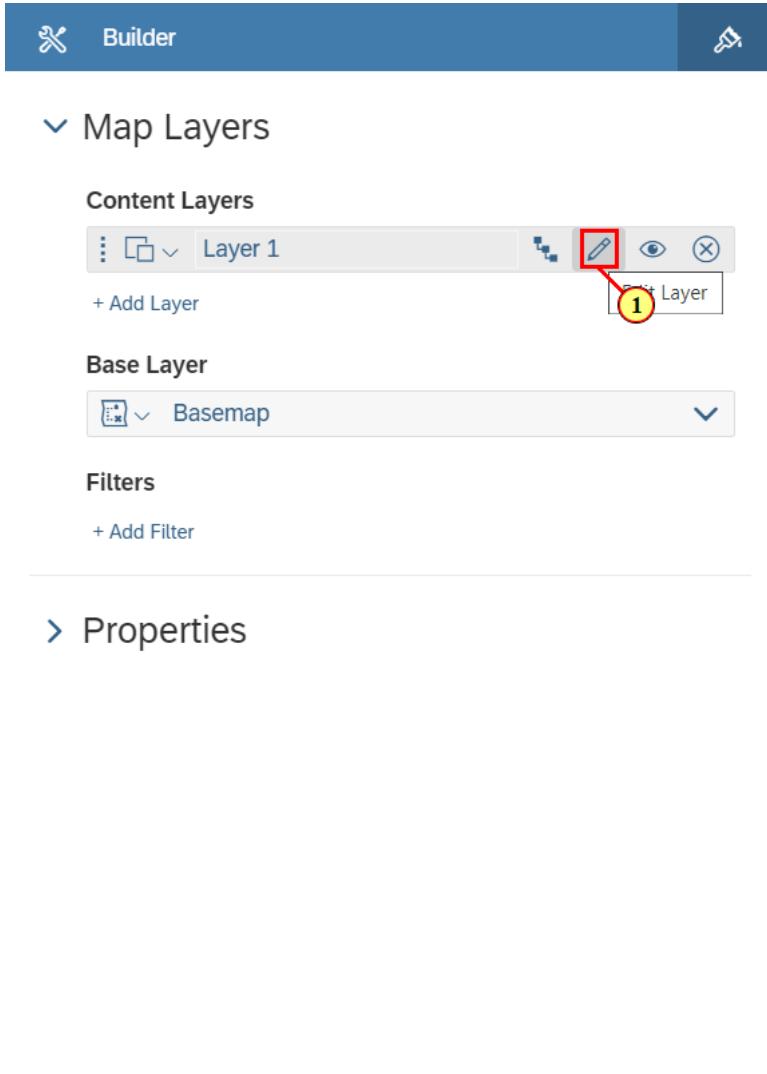
Explanation	Screenshot
(1) Click <b>OK</b> to move out of Builder for Layer 1.	<p>The screenshot shows the SAP Analytics Cloud Builder interface for creating a choropleth layer. The top navigation bar has a magnifying glass icon and the word "Builder". Below it, "Layer 1" is selected from a list, with a plus sign to its right. Under "Data Source", "SAC_SHIPPING_INFO" is listed with a pencil icon. The "Layer Type" dropdown is set to "Choropleth / Drill Layer". The "Style" dropdown is also set to "Choropleth". The "Location Dimension" dropdown contains "StoreLocation" with a dropdown arrow and a close button. The "Choropleth Color" dropdown contains "Avg Delivery Time" with a dropdown arrow and a close button. The "Filters" section shows a single filter named "Category (1)" with the value "Actual". A link "+ Add Filters" is visible below it. In the bottom right corner of the interface, there is a blue "OK" button with a red rectangular callout containing the number "1", indicating the user needs to click this button to proceed.</p>

Explanation	Screenshot
<p>Depending on the geo visualization layer and your data, there are a variety of different basemap types that can be applied to your geo map to best represent your data. We will choose a darker layout.</p> <p>(1) Click <b>Basemap Options</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. At the top, there's a blue header bar with the word "Builder". Below it, a sidebar on the left has a downward arrow icon and the text "Map Layers". The main content area is titled "Content Layers" and shows a list with a "Layer 1" entry. Below this, the "Base Layer" section is visible, featuring a dropdown menu labeled "Basemap" which is highlighted with a red box and a yellow circle containing the number "1". To the right of the dropdown are icons for "eye" and "down arrow". Below the dropdown, there's a "Filters" section with a "+ Add Filter" button. At the bottom of the content area, there's a "Properties" section indicated by a right-pointing arrow.</p>

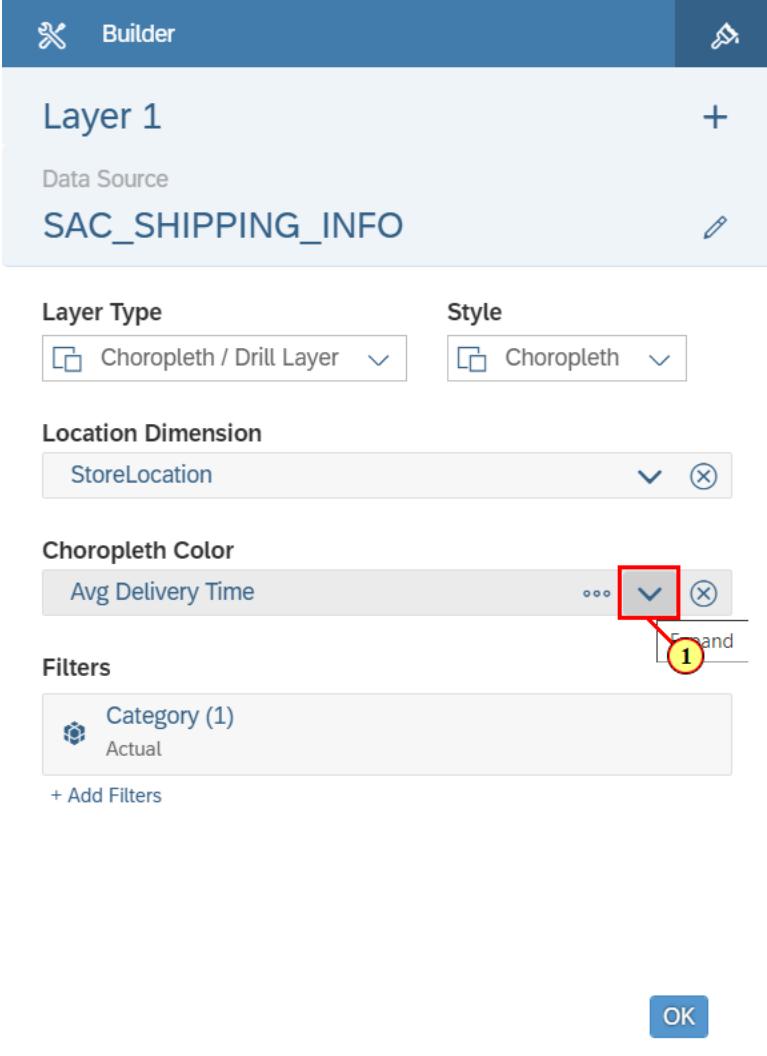
SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Click <b>Transparent Dark Gray</b>	<p>The screenshot shows the SAP Analytics Cloud Builder interface with the title "Builder" at the top. Below it is a section titled "Map Layers". Under "Content Layers", there is a list with a plus sign and a "Layer 1" entry. A "Close" button (X) is also present. Below this is a "Base Layer" section with a dropdown menu set to "Basemap". The "Basemap" dropdown shows several options: Streets, Satellite, Hybrid, Topography, Light Gray (which is highlighted), Dark Gray, Terrain, OpenStreetMap, National Geographic, Oceans, Night Vision, and Transparent. The "Transparent" option is circled with a yellow circle and has a red arrow pointing to it.</p>

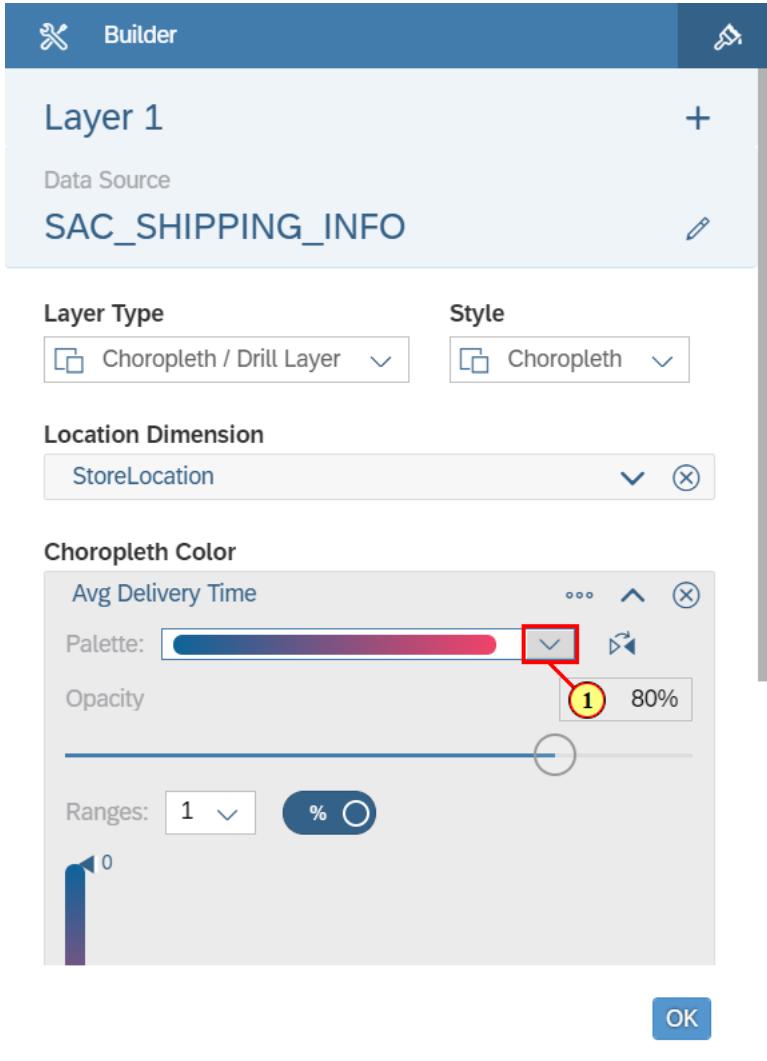
SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
<p> We can also change the colors of our layer to best match our dashboard.</p> <p>(1) Click <b>Edit Layer</b></p>	 <p>Map Layers</p> <p>Content Layers</p> <p>Layer 1</p> <p>+ Add Layer</p> <p>Base Layer</p> <p>Basemap</p> <p>Filters</p> <p>+ Add Filter</p> <p>Properties</p>

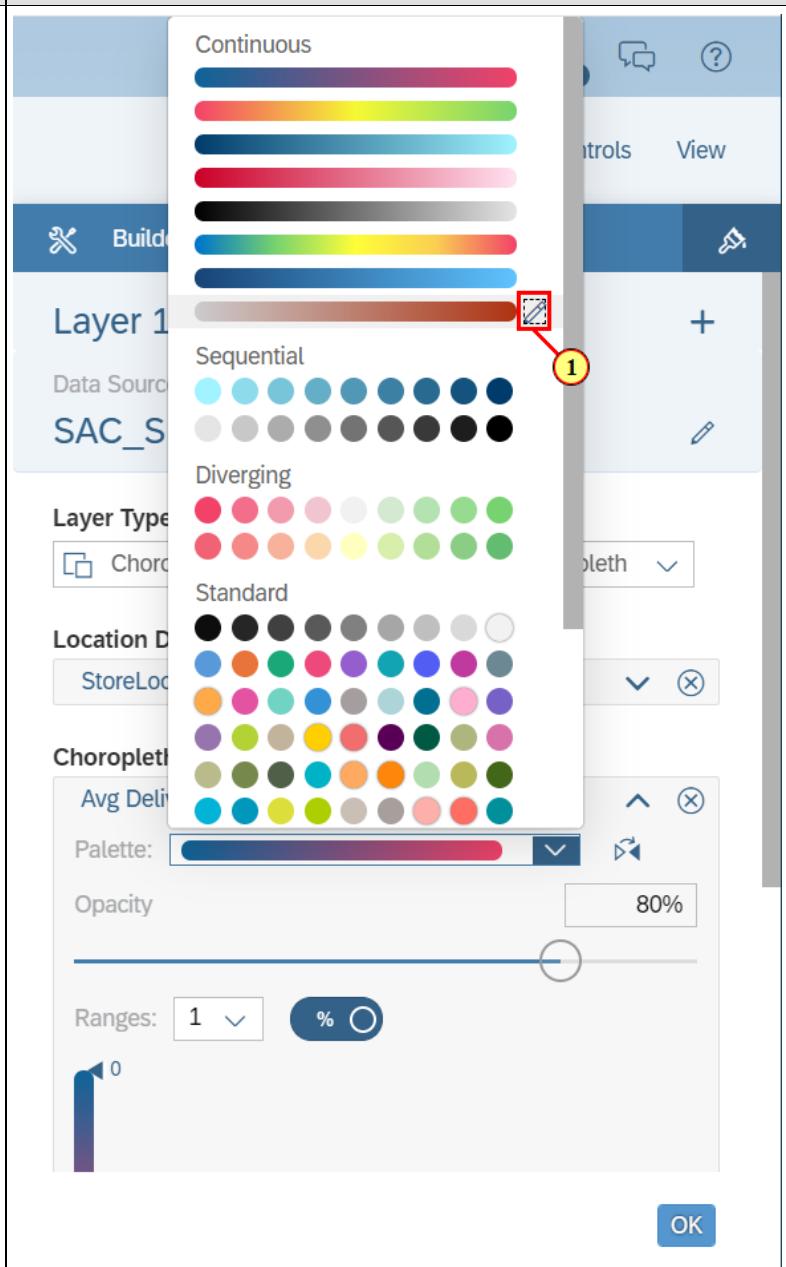
SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Click <b>Expand</b>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface. A layer named "Layer 1" is selected, with its data source set to "SAC_SHIPPING_INFO". The "Layer Type" is set to "Choropleth / Drill Layer" and the "Style" is also set to "Choropleth". Under "Location Dimension", "StoreLocation" is chosen. In the "Choropleth Color" section, "Avg Delivery Time" is selected from a dropdown menu. A red box highlights the "Expand" button next to the dropdown, and a yellow circle with the number 1 points to it. Below this, there is a "Filters" section containing a single filter named "Category (1) Actual". An "OK" button is visible at the bottom right.</p>

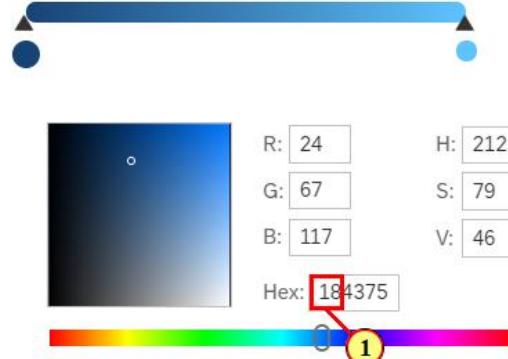
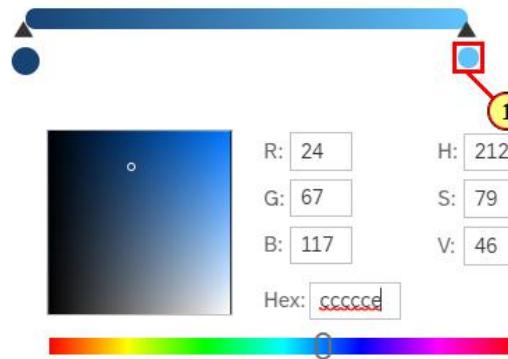
SAP Analytics Cloud - Google Chrome

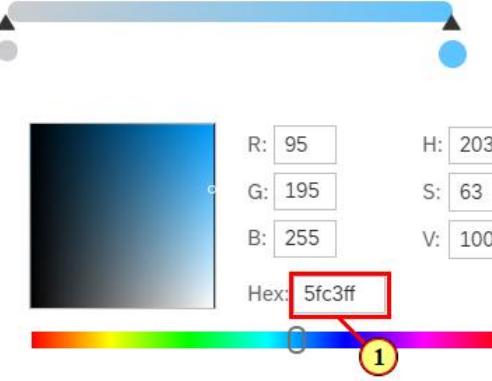
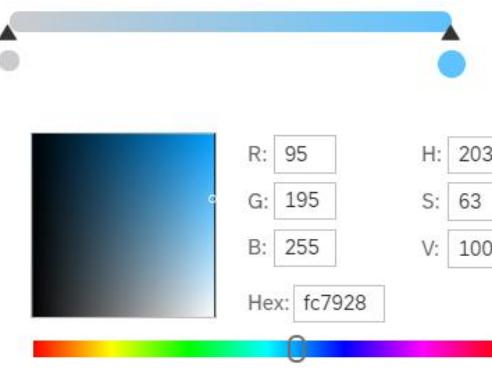
Explanation	Screenshot
<p> Let's create a custom gradient for the choropleth colors that matches the corporate colors we chose for our story.</p> <p>(1) Click <b>Expand Palette</b></p>	 <p>The screenshot shows the SAP Analytics Cloud Builder interface with 'Layer 1' selected. The 'Data Source' is set to 'SAC_SHIPPING_INFO'. Under 'Layer Type', it is set to 'Choropleth / Drill Layer'. The 'Style' is also set to 'Choropleth'. The 'Location Dimension' is 'StoreLocation'. In the 'Choropleth Color' section, the 'Avg Delivery Time' is selected. The 'Palette' dropdown is open, indicated by a red box around its arrow button. A yellow circle with the number '1' points to the '1' in the 'Ranges' dropdown, which is currently set to '1'. To the right of the ranges, there is an 'OK' button.</p>

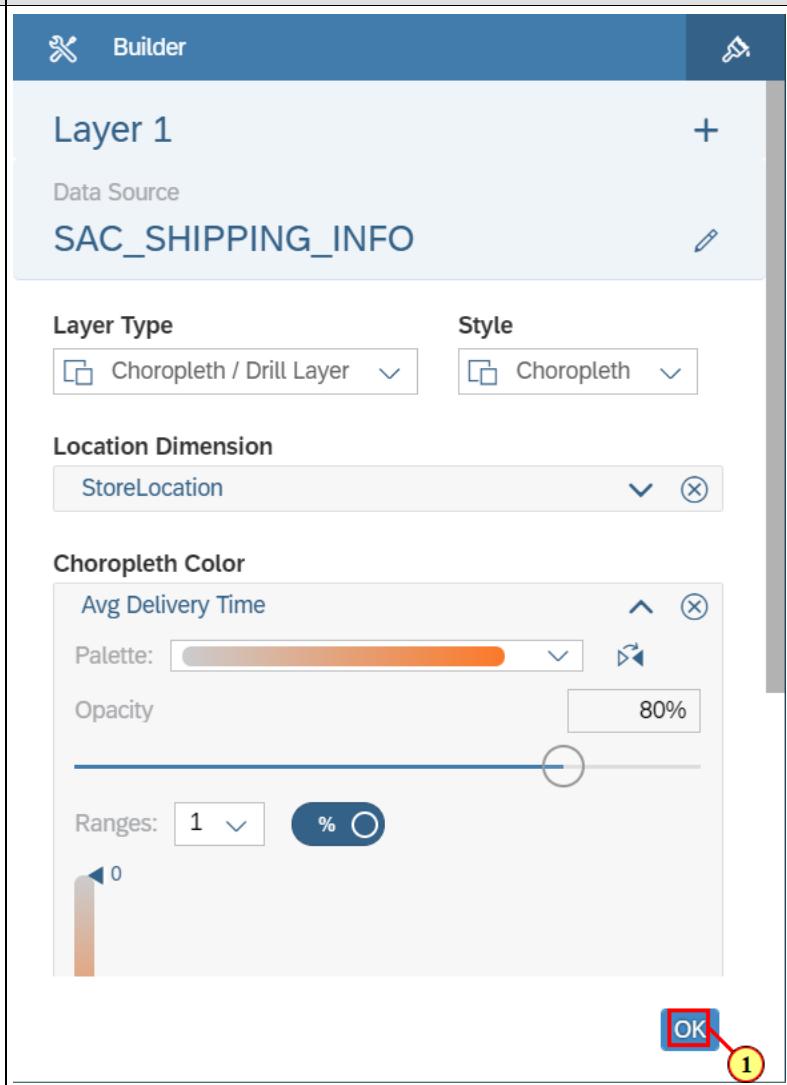
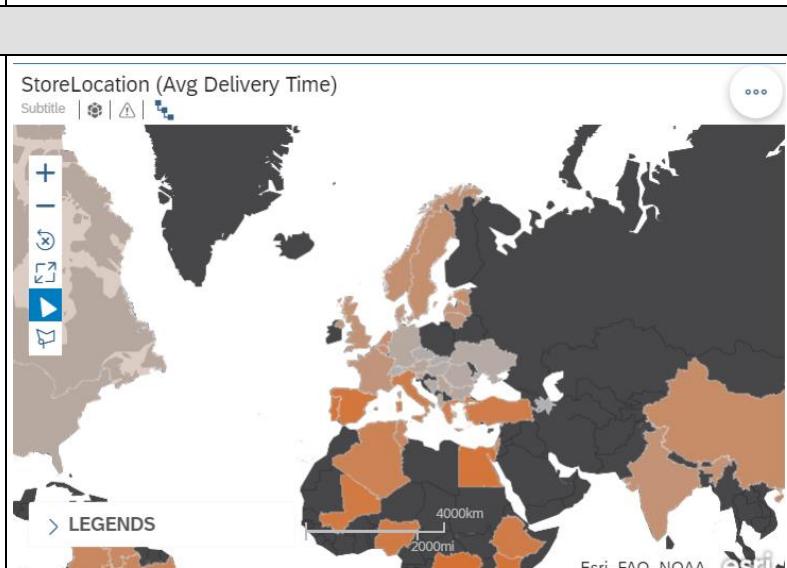
SAP Analytics Cloud - Google Chrome

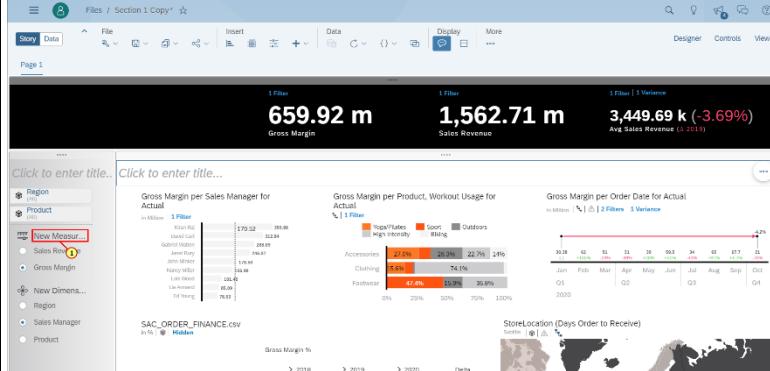
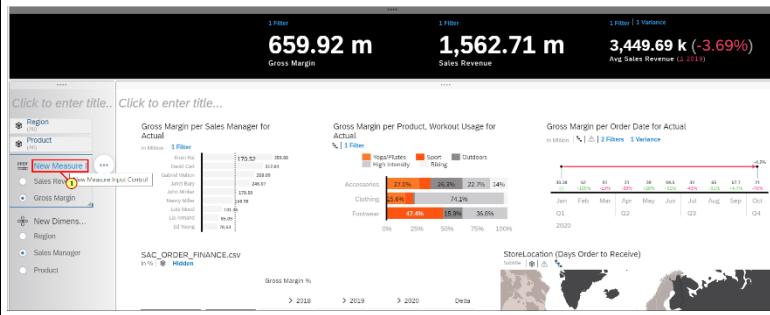
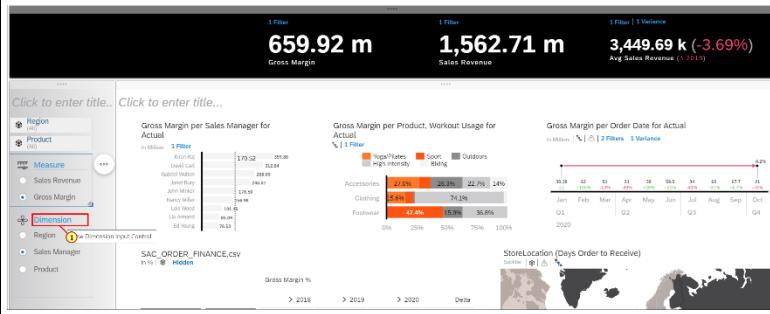
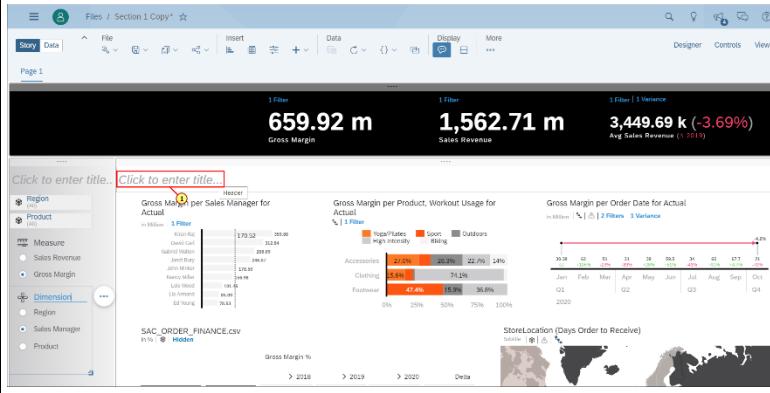
Explanation	Screenshot
<p>(1) Hover a continuous gradient and click Edit</p>	 <p>The screenshot shows the SAP Analytics Cloud interface with a color palette editor open. The palette is divided into several sections: Continuous (a horizontal bar with a gradient from blue to red), Sequential (a series of colored dots transitioning from cyan to black), Diverging (a grid of colored dots with a central white dot), Standard (a grid of colored dots in various hues), and a Choropleth section (a grid of colored dots with a central white dot). A specific continuous gradient bar is highlighted with a red box. A yellow circle with the number '1' points to the 'Edit' button located next to the gradient bar. Other controls visible include a 'Controls' menu, a 'View' button, a '+' button, a pencil icon, a dropdown menu, and an 'OK' button at the bottom right.</p>

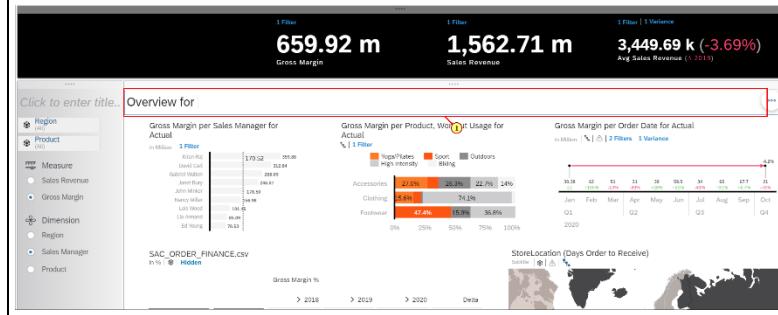
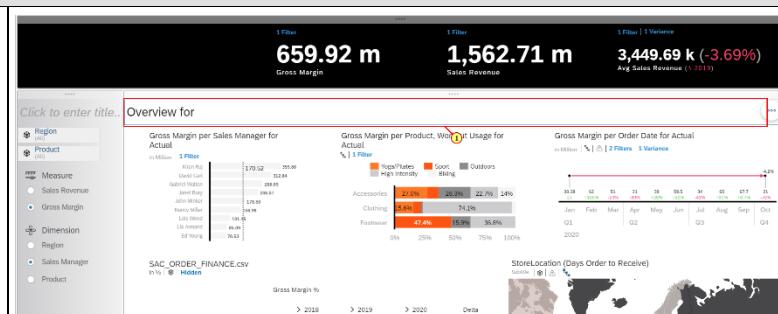
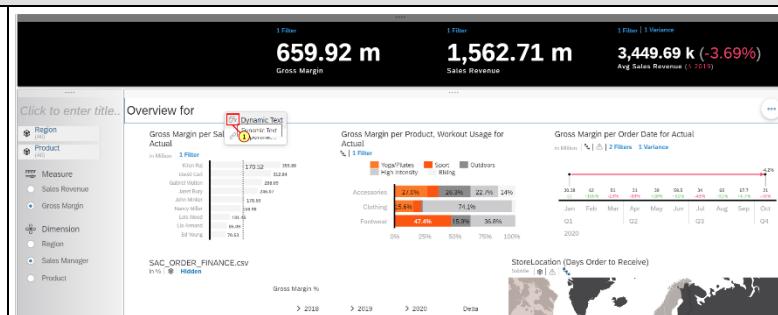
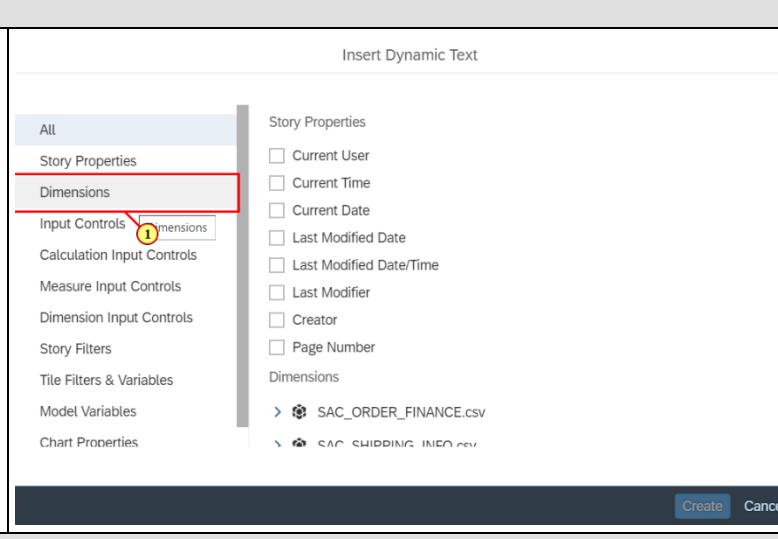
SAP Analytics Cloud - Google Chrome

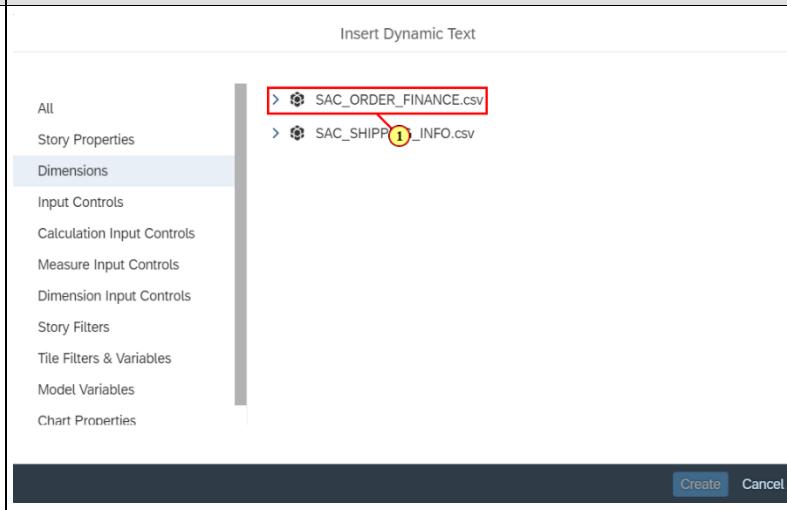
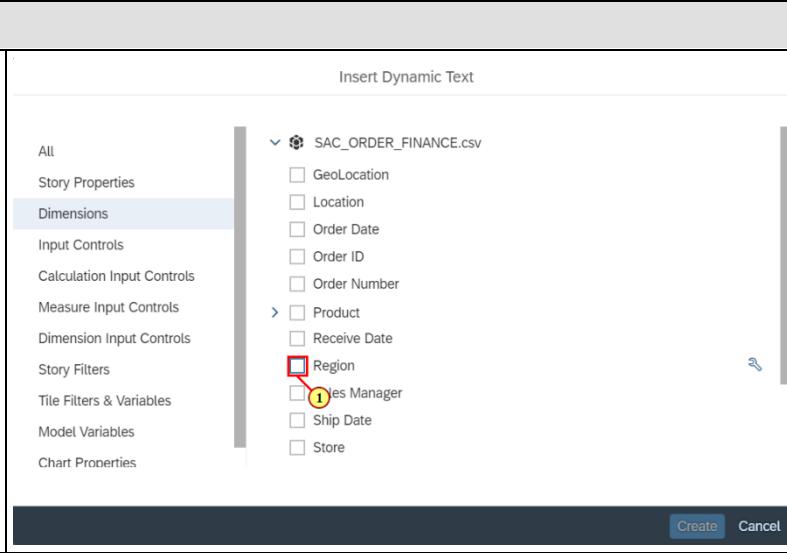
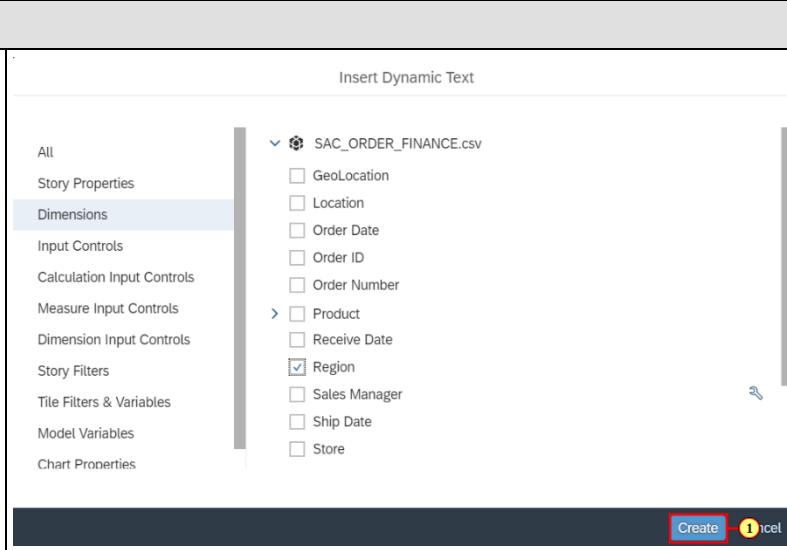
Explanation	Screenshot
(1) Change the hex to <b>ccccce</b>	<p>Create New Palette</p> <p>Palette Type: Continuous</p>  <p>R: 24 G: 67 B: 117 H: 212 S: 79 V: 46</p> <p>Hex: 184375</p> <p>1</p> <p>Create Cancel</p>
(1) Click the second swatch	<p>SAP Analytics Cloud - Google Chrome</p> <p>Create New Palette</p> <p>Palette Type: Continuous</p>  <p>R: 24 G: 67 B: 117 H: 212 S: 79 V: 46</p> <p>Hex: ccccce</p> <p>1</p> <p>Create Cancel</p>

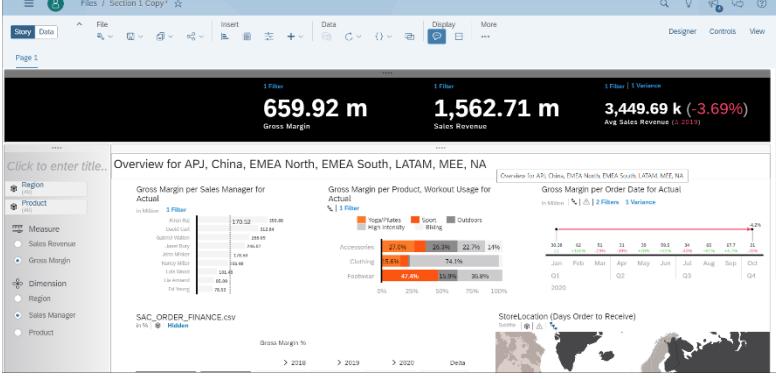
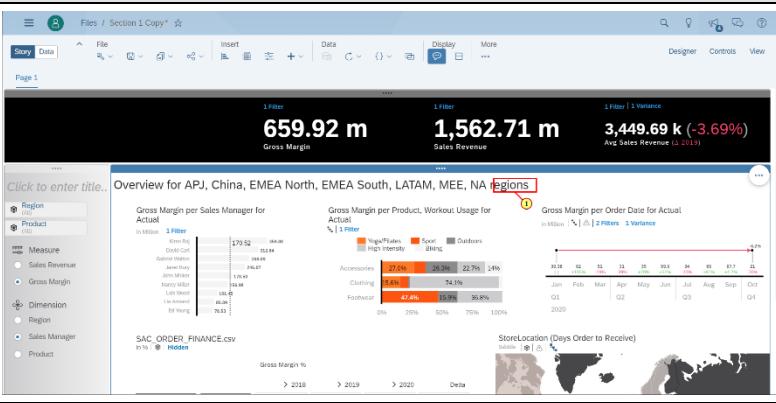
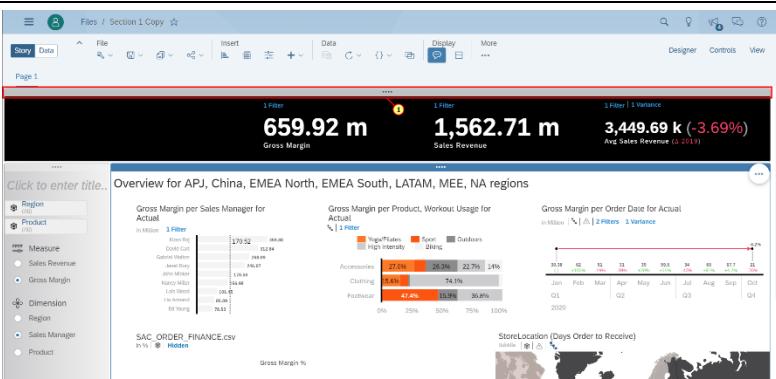
Explanation	Screenshot
	<p>Create New Palette</p> <p>Palette Type Continuous</p>  <p>(1) Change the hex to <b>fc7928</b></p>
SAP Analytics Cloud - Google Chrome	<p>Create New Palette</p> <p>Palette Type Continuous</p>  <p>(1) Click <b>Create</b></p>
SAP Analytics Cloud - Google Chrome	

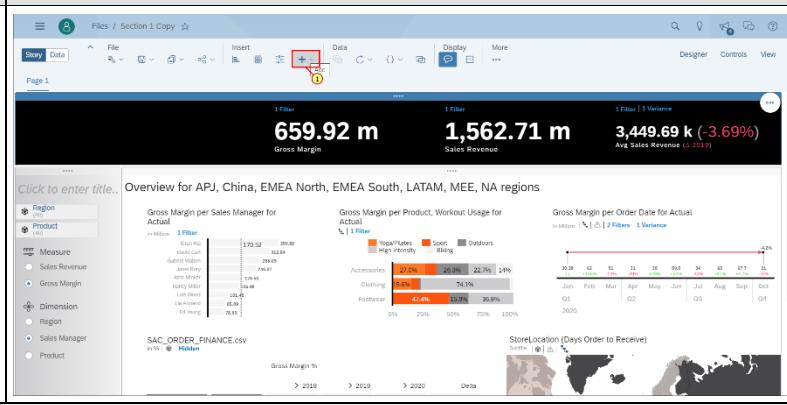
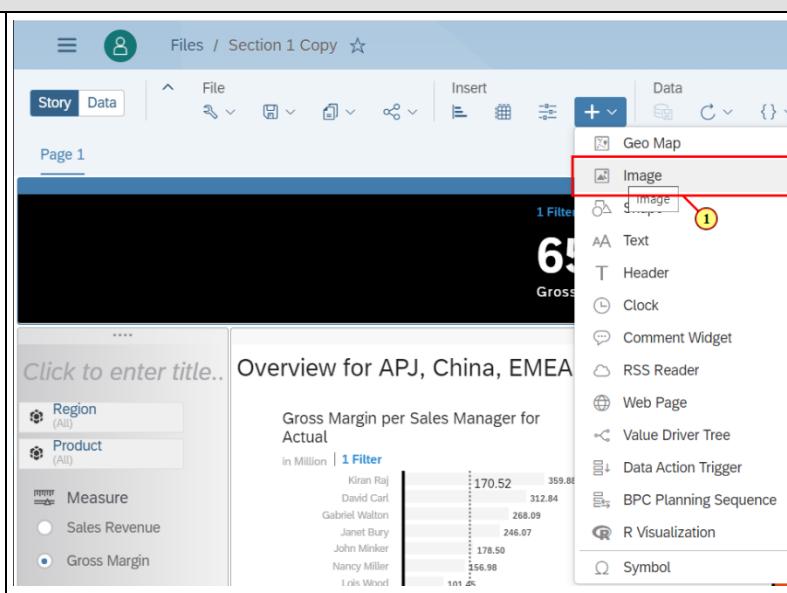
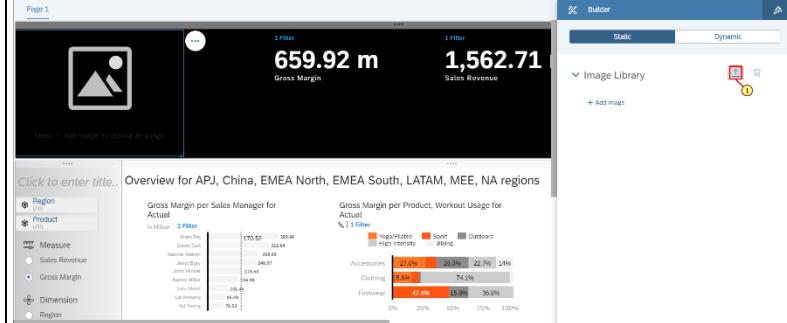
Explanation	Screenshot
(1) Click <b>OK</b>	
<p><b>⚠️</b> Quality Check! Does your Geo Map look like this screenshot?</p> <p><b>👉</b> Next, we will look at formatting text and titles on our story.</p>	

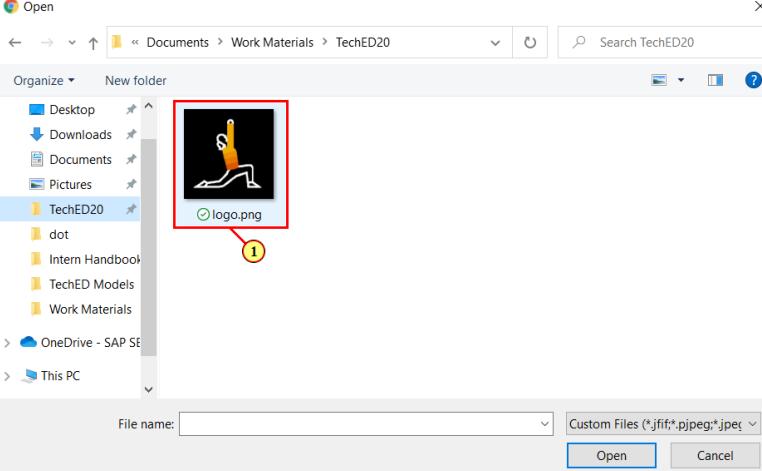
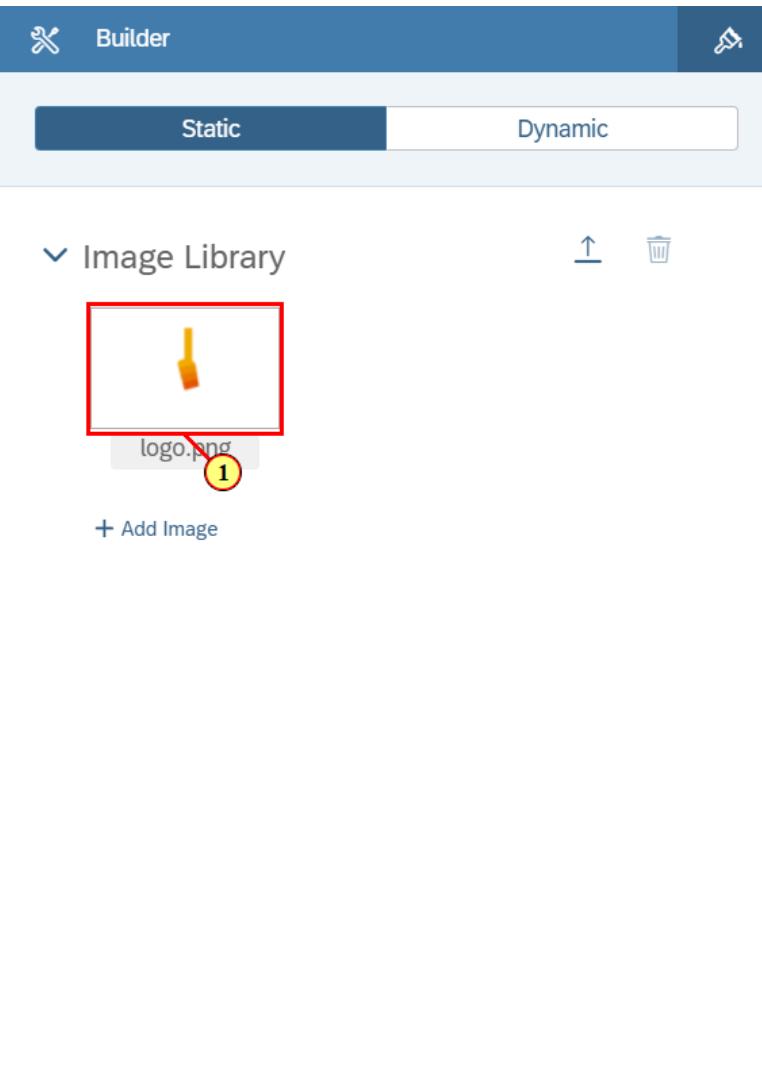
Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	
 <p>Let's rename our input controls by double-clicking on their name.</p> <p>(1) Double-click <b>New Measure Input Control</b> and rename it to <b>Measure</b></p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) The <b>New Measure Input Control</b> field is filled out.</p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Double-click <b>New Dimension Input Control</b> and rename it to <b>Dimension</b></p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Double-click the Title Header for right lane.</p>	
SAP Analytics Cloud - Google Chrome	

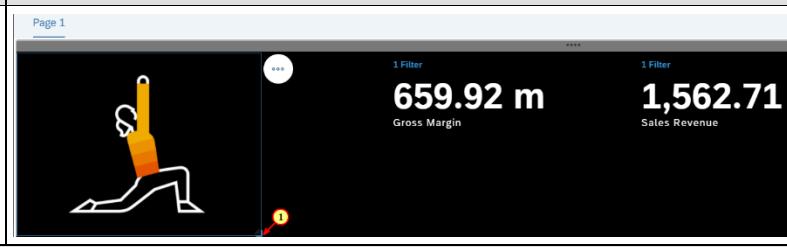
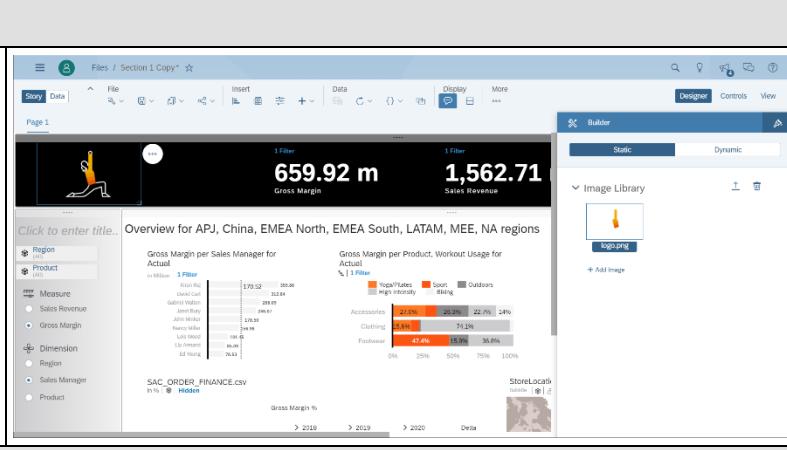
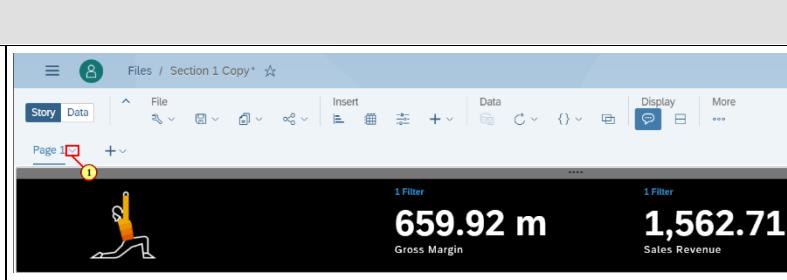
Explanation	Screenshot
<p> Let us create a title for our chart section that dynamically represents the data presented.</p> <p>(1) Type in <b>Overview for</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	
<p> We can now create a dynamic text field that updates with input control selection.</p> <p>(1) Right click inside the header to open up Context Menu.</p>	
<p>SAP Analytics Cloud - Google Chrome</p>	
<p>(1) Click <b>Dynamic Text</b></p>	
<p> Dynamic text can be created over a variety of different options as seen in this menu. We want to change the text based on the region filter we have applied on the page.</p> <p>(1) Click <b>Dimensions</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

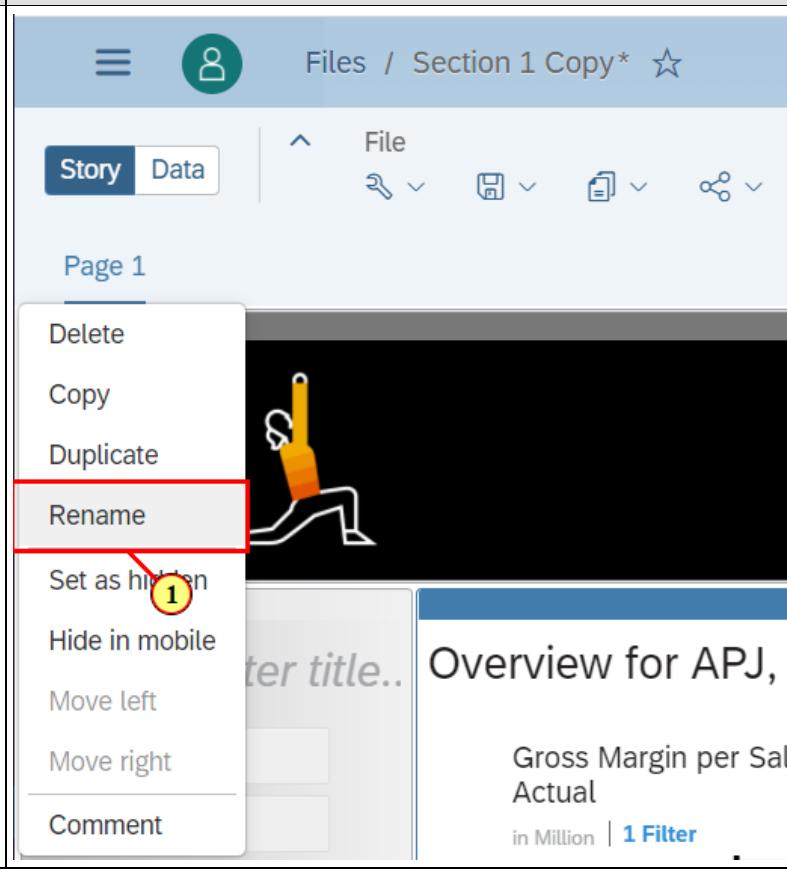
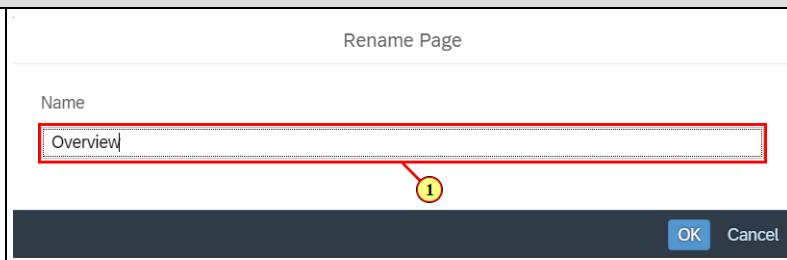
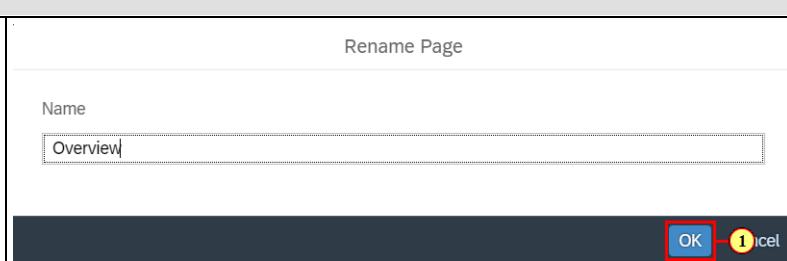
Explanation	Screenshot
(1) Click <b>SAC_ORDER_FINANCE</b>	 <p>The screenshot shows the SAP Analytics Cloud interface with the 'Dimensions' panel open. A red box highlights the 'SAC_ORDER_FINANCE.csv' entry in the list. A yellow circle with the number '1' is placed over the 'SAC_SHIPPING_INFO.csv' entry.</p>
(1) Click <b>Region</b>	 <p>The screenshot shows the SAP Analytics Cloud interface with the 'Dimensions' panel open. The 'Region' checkbox is selected, indicated by a blue checkmark. A yellow circle with the number '1' is placed over the 'Sales Manager' checkbox.</p>
(1) Click <b>Create</b>	 <p>The screenshot shows the SAP Analytics Cloud interface with the 'Dimensions' panel open. The 'Create' button at the bottom right is highlighted with a red box and a yellow circle with the number '1'.</p>
SAP Analytics Cloud - Google Chrome	

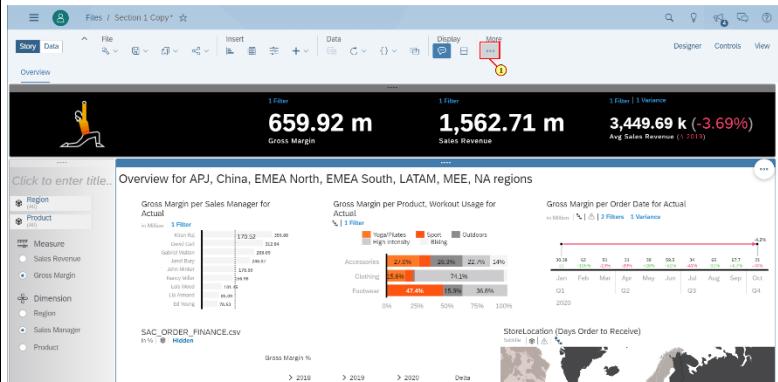
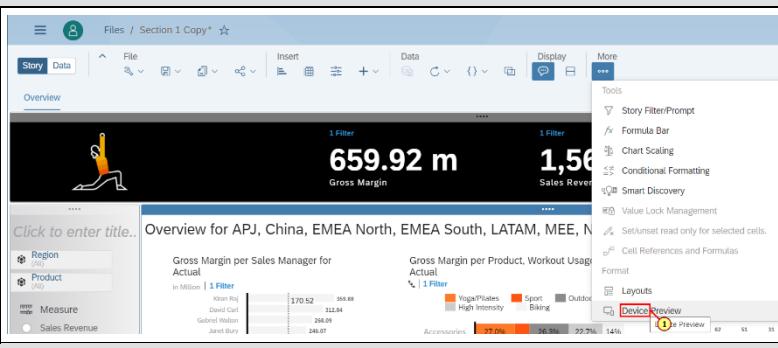
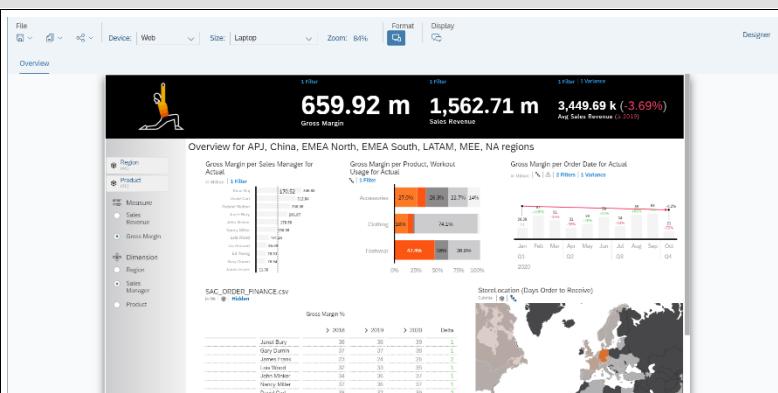
Explanation	Screenshot
<p></p> <p>You have just created your first Dynamic Text. This text field will automatically update with the page filters applied on Region.</p>	
<p>SAP Analytics Cloud - Google Chrome</p>	
<p>(1) Complete your header field by typing in <b>regions</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	
<p></p> <p>Let's add a corporate logo to finalize the look of our dashboard!</p>	
<p>(1) Click the <b>top lane</b></p>	
<p>SAP Analytics Cloud - Google Chrome</p>	

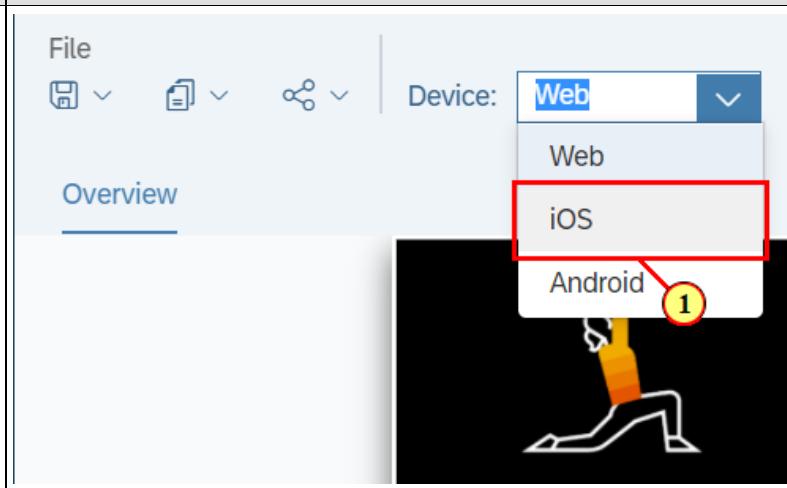
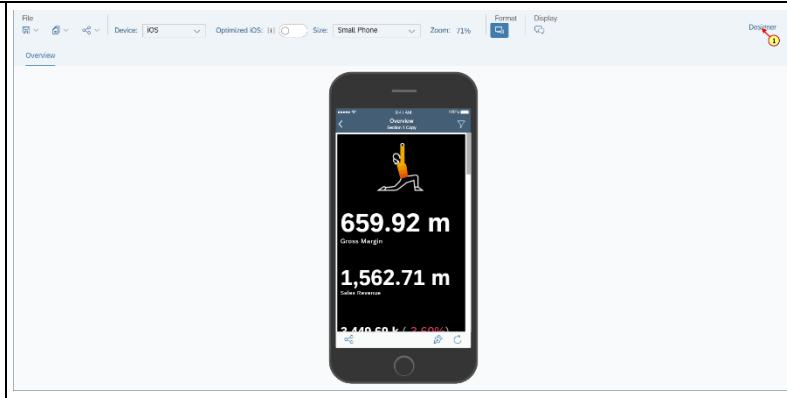
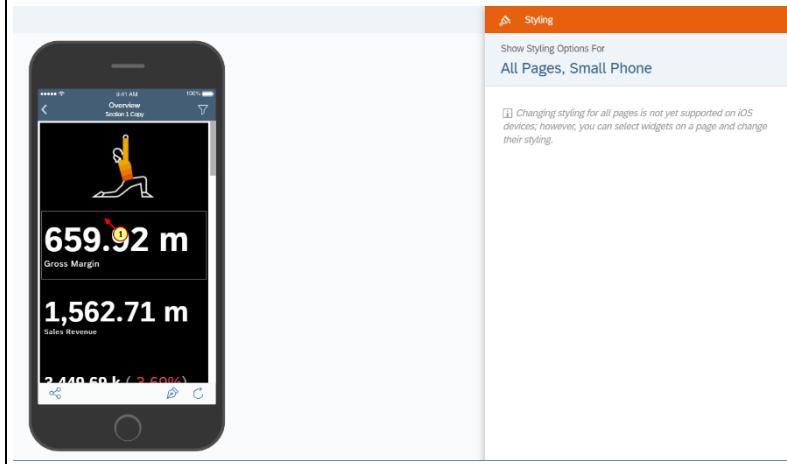
Explanation	Screenshot
(1) Click Add	
SAP Analytics Cloud - Google Chrome	
(1) Click Image	
SAP Analytics Cloud - Google Chrome	
 <p>We want to upload a company logo from local files to our story. For best performance, it is recommended to use vector images.</p> <p>(1) Click Upload</p>	
Open	

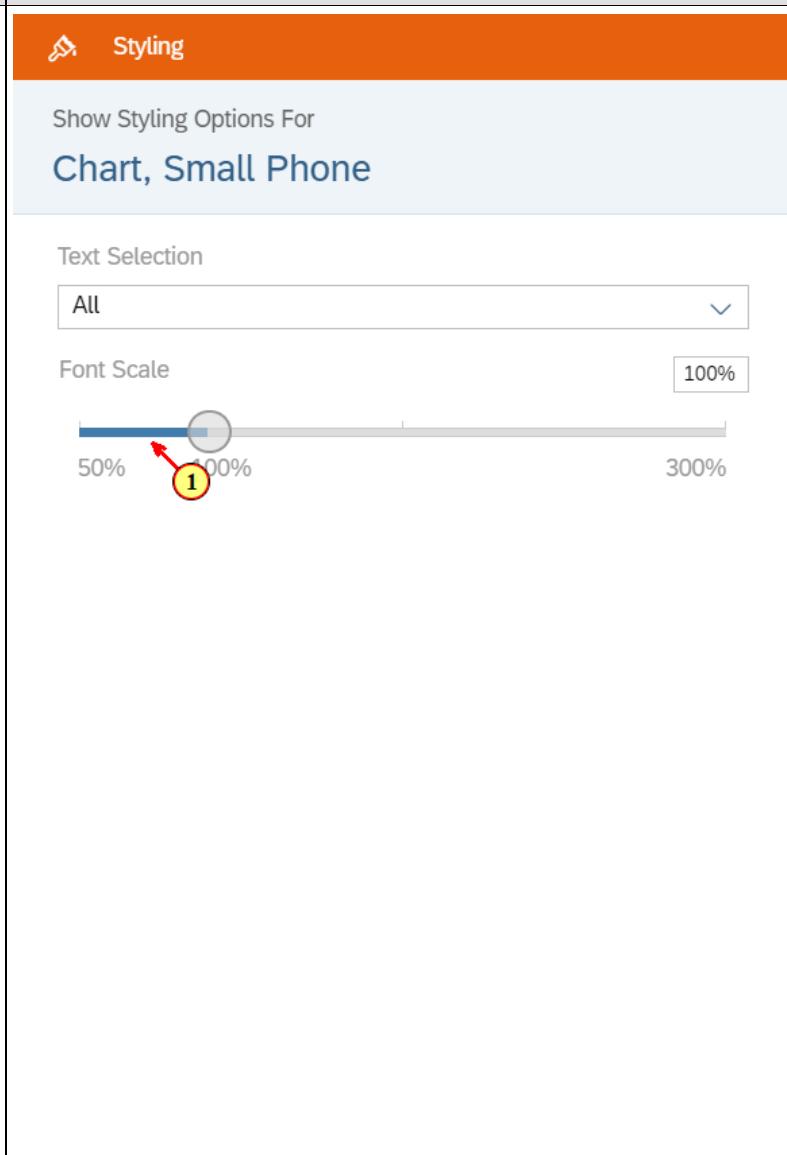
Explanation	Screenshot
(1) Select <b>logo.png</b>	
(1) Click <b>logo.png</b>	<p>SAP Analytics Cloud - Google Chrome</p>  <p>Builder</p> <p>Static      Dynamic</p> <p>Image Library</p> <p>logo.png</p> <p>+ Add Image</p>

Explanation	Screenshot
(1) Resize the logo to fit within top lane.	
SAP Analytics Cloud - Google Chrome	 <p>Our page looks great with all the styling changes we have made. We should now rename the page in our story accordingly.</p>
(1) Click Expand	
SAP Analytics Cloud - Google Chrome	

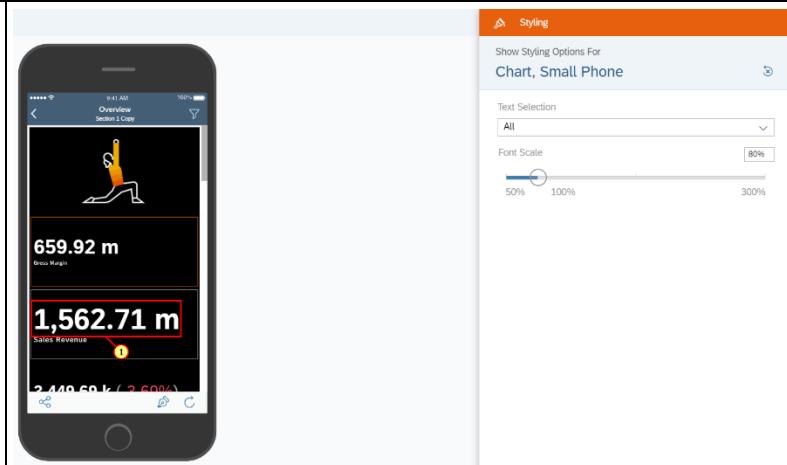
Explanation	Screenshot
(1) Click <b>Rename</b>	 <p>A screenshot of the SAP Analytics Cloud interface. At the top, there's a navigation bar with 'Files / Section 1 Copy*' and a star icon. Below it, a toolbar has 'Story' selected (highlighted in blue) and 'Data' options. A context menu is open over a card titled 'Page 1'. The menu items are: Delete, Copy, Duplicate, Rename (which is highlighted with a red box and has a yellow circle with '1' over it), Set as hidden, Hide in mobile, Move left, Move right, and Comment.</p>
SAP Analytics Cloud - Google Chrome	
(1) Rename the story page <b>Overview</b>	 <p>A screenshot of a 'Rename Page' dialog box. It has a title 'Rename Page' and a 'Name' input field containing 'Overview'. The 'Name' field is highlighted with a red box and circled with a yellow number 1. At the bottom are 'OK' and 'Cancel' buttons.</p>
SAP Analytics Cloud - Google Chrome	
(1) Click <b>OK</b>	 <p>A screenshot of the same 'Rename Page' dialog box, but now the 'OK' button at the bottom is highlighted with a red box and circled with a yellow number 1.</p>
SAP Analytics Cloud - Google Chrome	

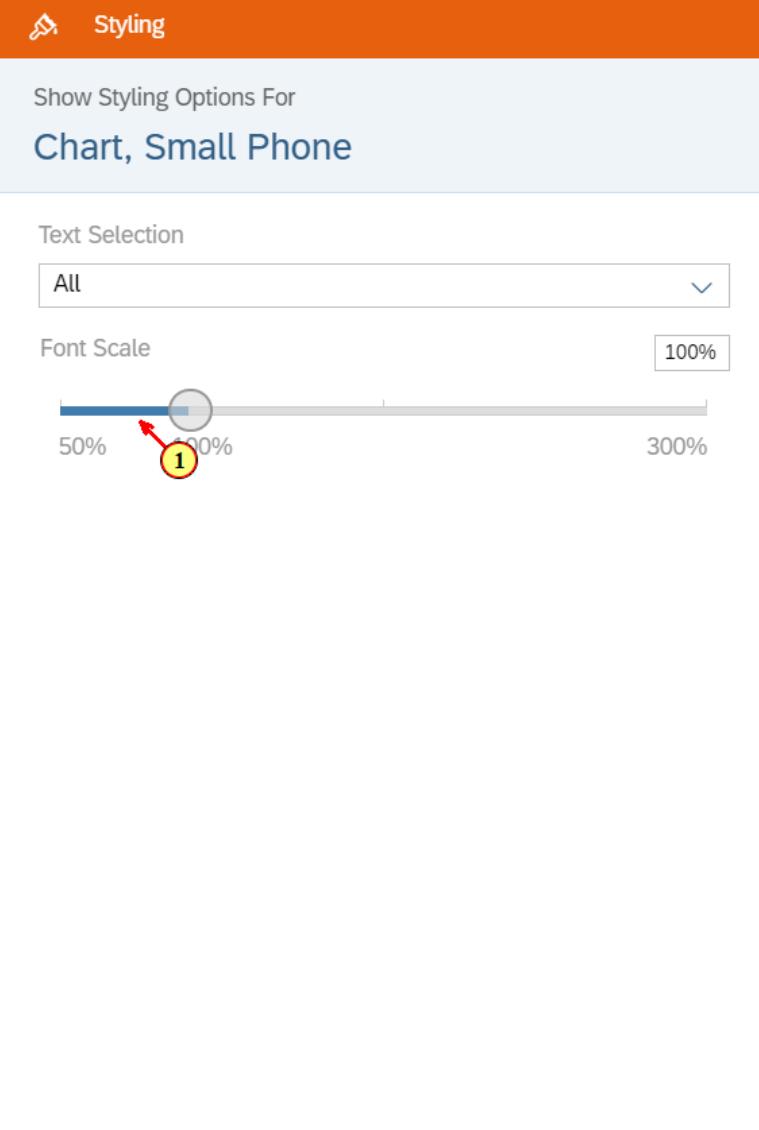
Explanation	Screenshot
<p>👉 Now that we have stylized our story, users can choose to preview their responsive page in a variety of device formats. We know that our executives will be consuming this dashboard on multiple devices. Thus, we want to make sure the dashboard looks great when displayed on mobile.</p> <p>(1) Click <b>More</b></p>	
SAP Analytics Cloud - Google Chrome	 <p>(1) Click <b>Device Preview</b></p>
<p>Welcome to Device Preview!</p> <p>From the preview screen, you can change the device or size to see how your page looks. In some cases, tiles resize and flow to fit smaller resolution screens when space becomes limited.</p> <p>You can even format the font specific to each device type to make sure that all visualizations are visible.</p>	
SAP Analytics Cloud - Google Chrome	 <p>👉 Let's test our dashboard on an iOS device.</p> <p>(1) Click <b>Expand Device</b></p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click <b>iOS</b>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>👉 We can see that the numeric point charts on iOS are larger than necessary. Let's fix the size in the Designer panel.</p> <p>(1) Click <b>Designer</b></p>	
<p>(1) Click the numeric point chart.</p>	
SAP Analytics Cloud - Google Chrome	

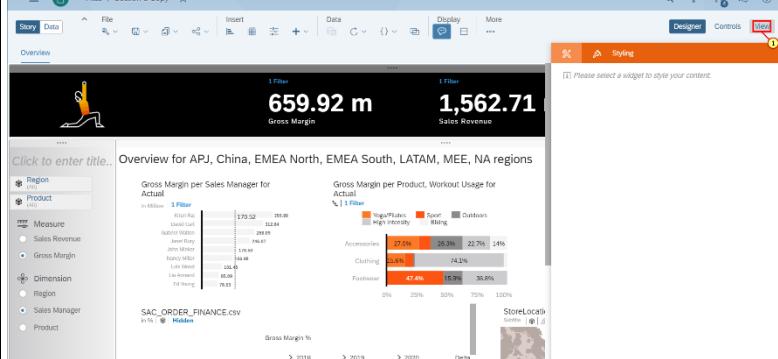
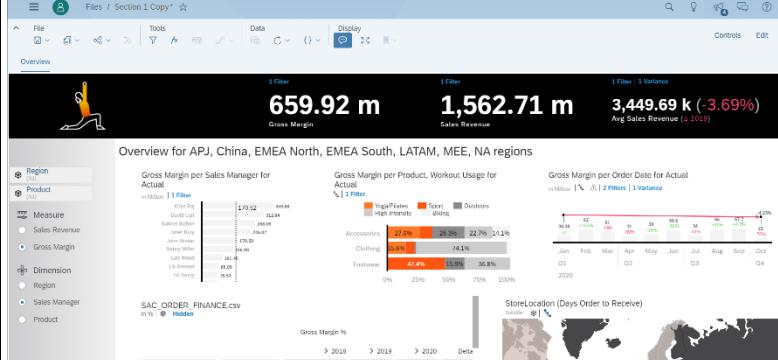
Explanation	Screenshot
<p>We can change the font scaling for individual charts. All changes will only be reflected in the specified device format and do not change the original story.</p> <p>(1) Change the Font Scale from <b>100%</b> to <b>80%</b></p>	

## SAP Analytics Cloud - Google Chrome

<p>(1) Click the numeric point chart.</p>	
---	--

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	 <p>The screenshot shows the SAP Analytics Cloud styling interface for a chart on a small phone. The top navigation bar is orange with the word "Styling". Below it, the text "Show Styling Options For Chart, Small Phone" is displayed. Under "Text Selection", there is a dropdown menu set to "All". The "Font Scale" section features a horizontal slider with a blue track and a circular handle. The handle is currently positioned at the 100% mark, which is highlighted with a yellow circle and the number "1". Red arrows point to both the handle and the "100%" label on the slider.</p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
<p>👉 We have now customized the scaling of our story for a specific platform (Small iOS Phones). Does your story look like this screenshot in Device Preview?</p>	
SAP Analytics Cloud - Google Chrome	
<p>(1) Click <b>Device Preview</b> to leave this view.</p>	

Explanation	Screenshot
<p><b>SAP Analytics Cloud - Google Chrome</b></p>  <p>Story creators can also easily swap to view mode on the top right. This enables the user to see what viewer behavior is like on the story page with input controls and Explorer view.</p> <p>(1) Click <b>View Mode</b></p>	
<p><b>SAP Analytics Cloud - Google Chrome</b></p>  <p>Quality Check! Does your dashboard look like this screenshot after theme and styling?</p> <p>You have now completed <b>Theme and Style</b> section! In this section, we have learned how to apply overall style changes in story preferences, hide and show chart features, change lane and font colors, auto format numbers, apply visual changes to geo maps, create dynamic text in our story, add external images, and edit the scaling of our story on different device formats.</p>	

## Summary

You have completed the entire **Theme and Style** section!

### You should now be able to:

- Understand the styling panel with options such as number formatting and changing color
- Hide unnecessary information from a widget
- Add an image
- Use Device Preview to preview dashboard across various devices and screen sizes (i.e. Laptop, Tablet, Phone)

## Bookmarking and Sharing of a Story



This section builds on top of another section. If you did not complete the previous section, [please open](#)

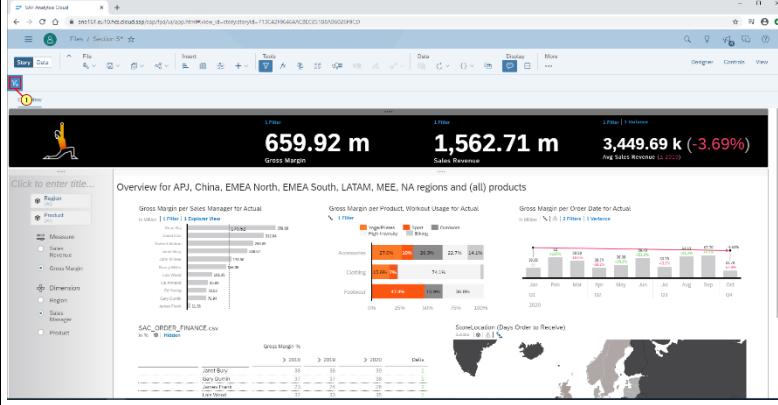
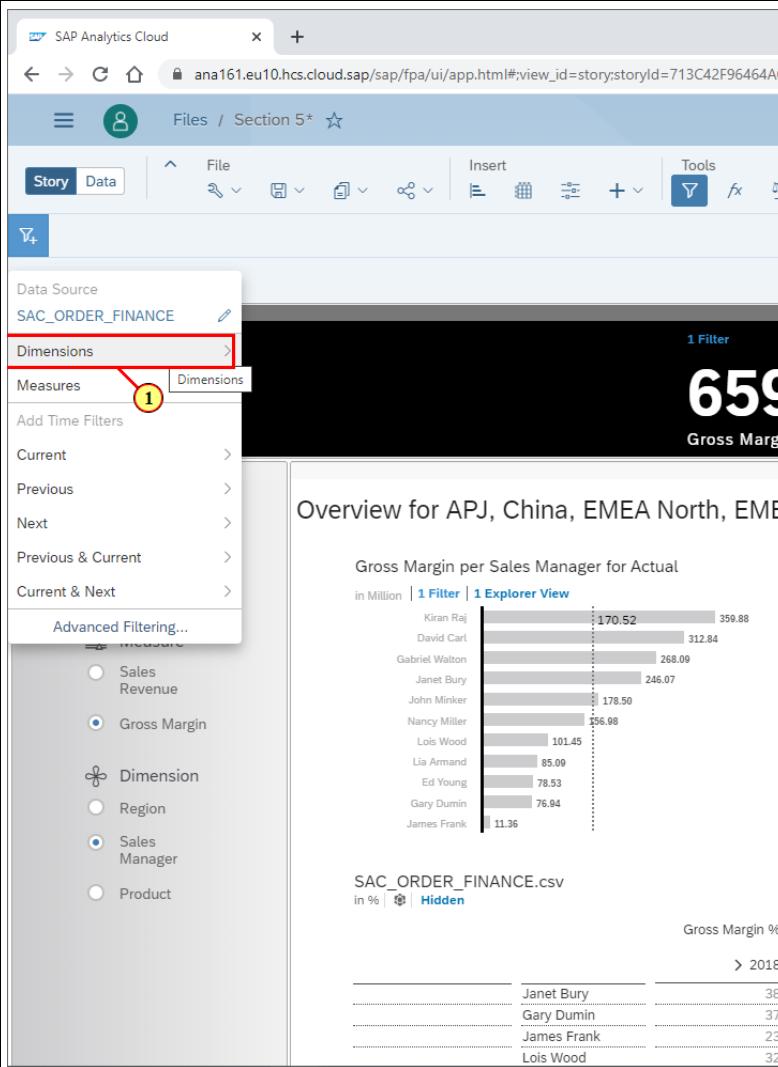
**Objective:** You will learn how to collaborate with other users within your organization using SAP Analytics Cloud. This can be done by sharing and assigning them a story or by commenting on various widgets. Furthermore, you will learn how to capture different bookmarks of a story.

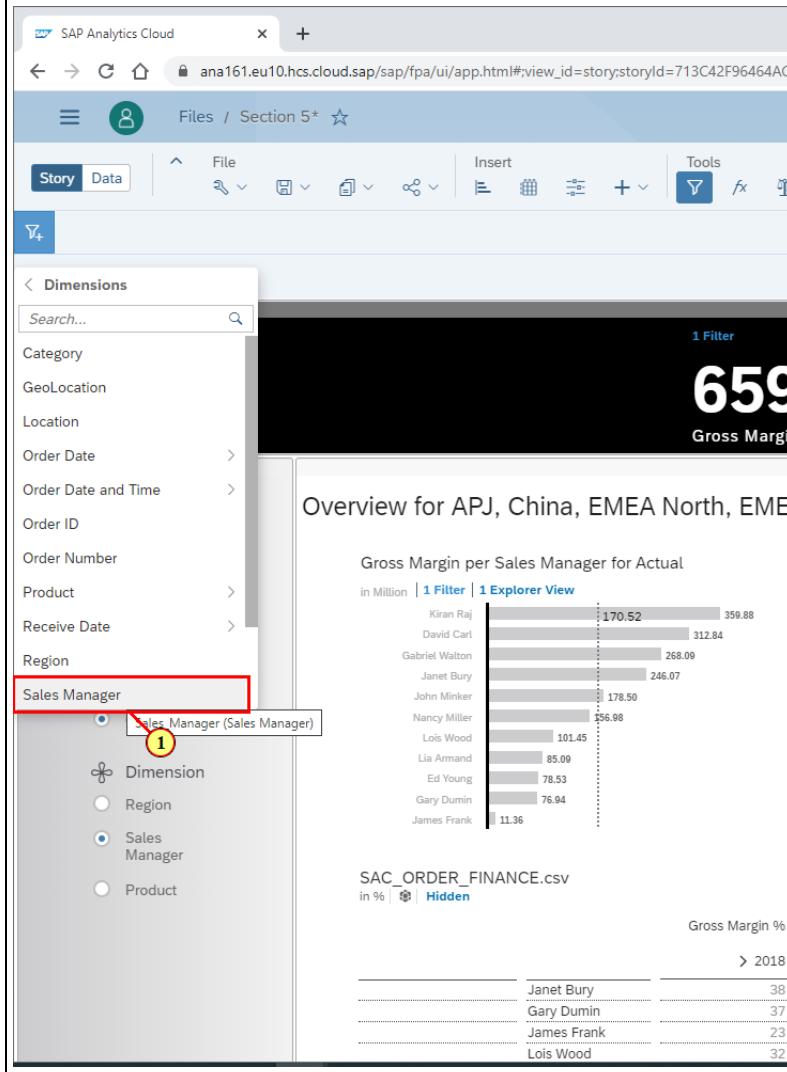
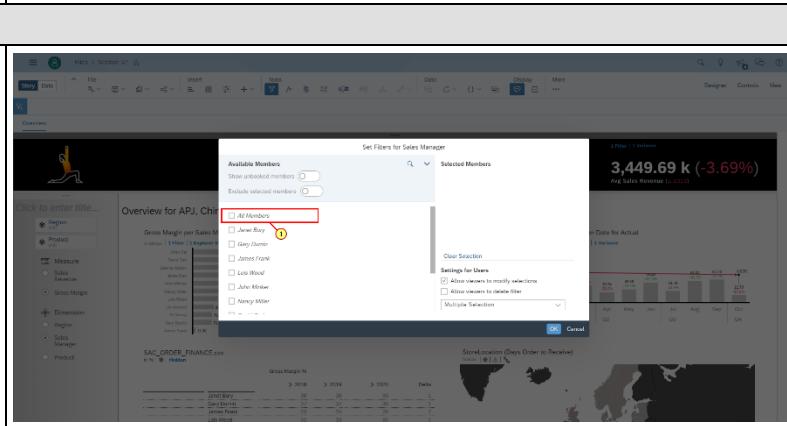
**Exercise Description:** As a content creator, you have finished creating your dashboard. You want to share it with other users, but at the same time provide them a customized view via bookmarks. You also need to obtain insightful feedback from your colleagues regarding the content that you have created.

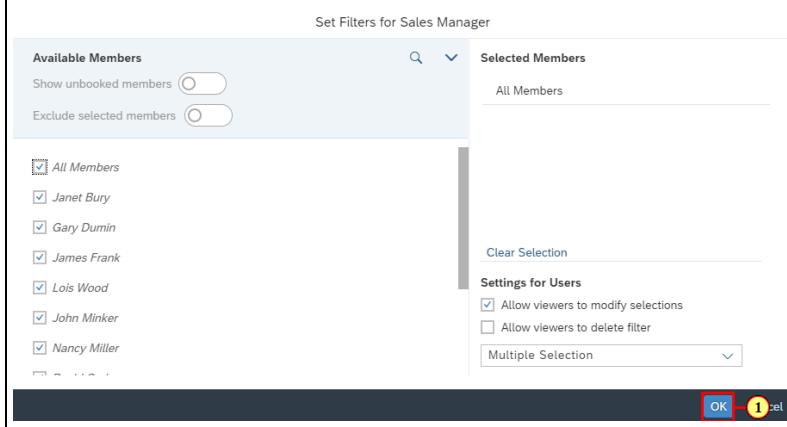
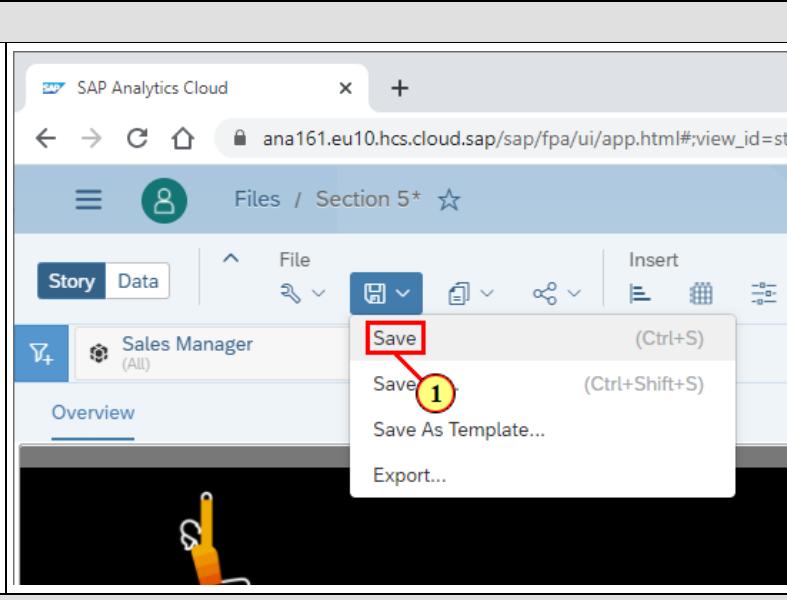
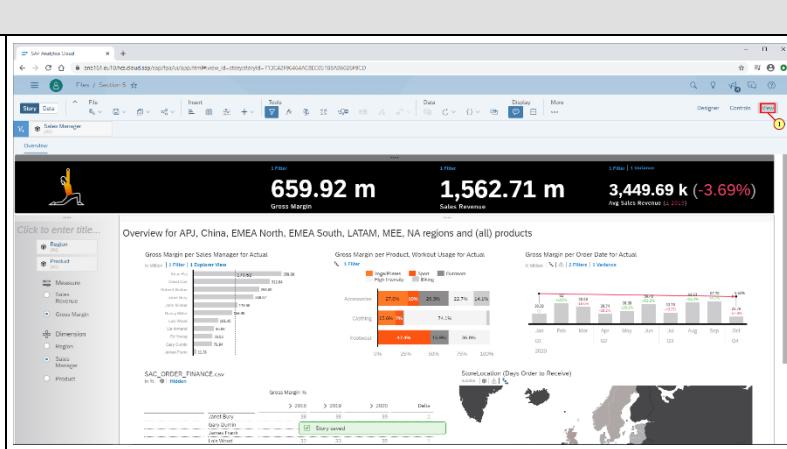
### Key Features:

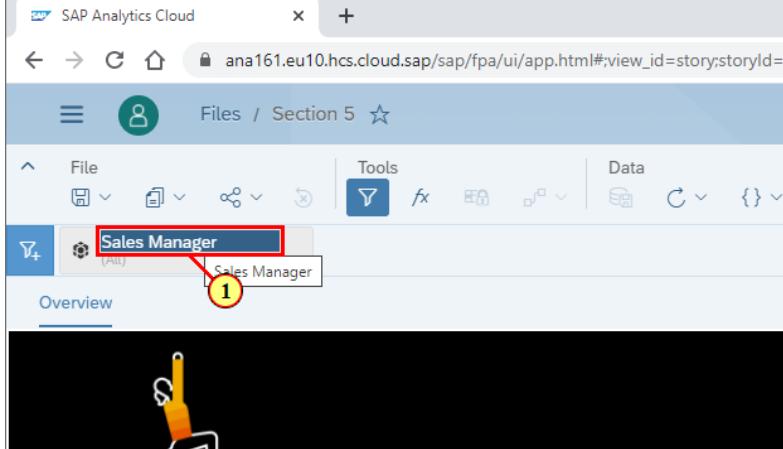
- Create global and private bookmarks to create Alternate views of the Story
- Share a Story
- Comment on Pages
- @Mention an Individual on a Comment

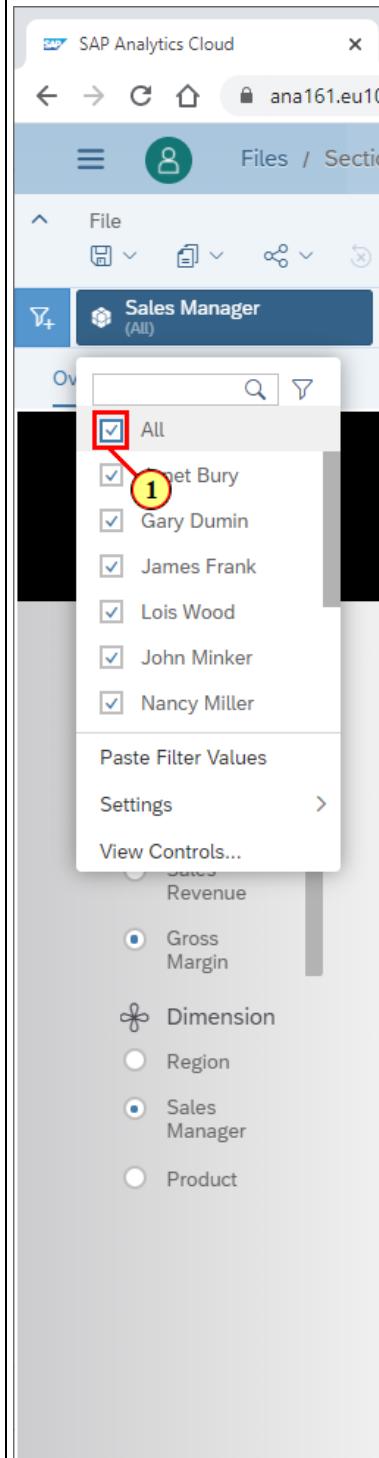
Explanation	Screenshot
<p><b>SAP Analytics Cloud - Google Chrome</b></p> <p>Welcome to the next section. In this section, we're going to learn how to bookmark states, share stories, add comments and have discussions with our colleagues.</p> <p>Let's start of by creating a Story Filter.</p> <p>(1) Click <b>Story Filter/Prompt</b> </p>	

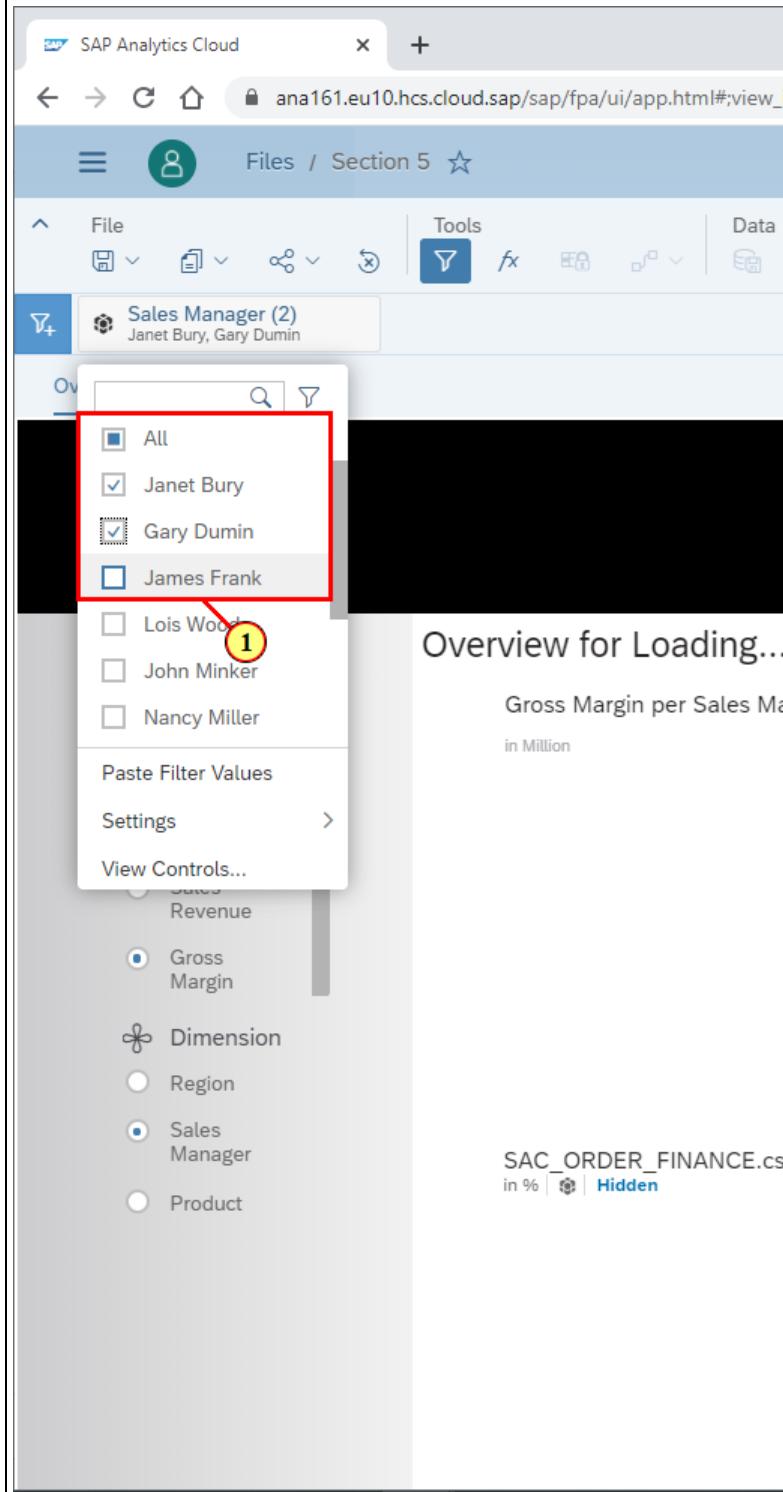
Explanation	Screenshot
(1) Click  .	
<b>SAP Analytics Cloud - Google Chrome</b>	
(1) Click <b>Dimensions</b>	

Explanation	Screenshot																								
(1) Select Sales Manager	 <p>The screenshot shows the SAP Analytics Cloud interface. On the left, a sidebar titled 'Dimensions' lists various dimensions: Category, GeoLocation, Location, Order Date, Order Date and Time, Order ID, Order Number, Product, Receive Date, Region, and Sales Manager. The 'Sales Manager' dimension is selected and highlighted with a red box. A circled '1' indicates the user should click on it. The main area displays a chart titled 'Gross Margin per Sales Manager for Actual' with data in million. The chart shows gross margin values for several sales managers, with Kiran Raj at the top.</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin (in Million)</th> </tr> </thead> <tbody> <tr><td>Kiran Raj</td><td>170.52</td></tr> <tr><td>David Carl</td><td>312.84</td></tr> <tr><td>Gabriel Walton</td><td>268.09</td></tr> <tr><td>Janet Bury</td><td>246.07</td></tr> <tr><td>John Minker</td><td>178.50</td></tr> <tr><td>Nancy Miller</td><td>156.98</td></tr> <tr><td>Lois Wood</td><td>101.45</td></tr> <tr><td>Lia Armand</td><td>85.09</td></tr> <tr><td>Ed Young</td><td>78.53</td></tr> <tr><td>Gary Dumin</td><td>76.94</td></tr> <tr><td>James Frank</td><td>11.36</td></tr> </tbody> </table>	Sales Manager	Gross Margin (in Million)	Kiran Raj	170.52	David Carl	312.84	Gabriel Walton	268.09	Janet Bury	246.07	John Minker	178.50	Nancy Miller	156.98	Lois Wood	101.45	Lia Armand	85.09	Ed Young	78.53	Gary Dumin	76.94	James Frank	11.36
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(1) We want the ability to filter by all of the Sales Managers. To do so, click All Members	 <p>The screenshot shows the SAP Analytics Cloud interface with a modal dialog titled 'Get Filters for Sales Manager'. The 'Available Members' section contains a checkbox for 'All Members', which is selected and highlighted with a red box. A circled '1' indicates the user should click on it. The 'Selected Members' section shows a list of sales managers: Janet Bury, Gary Dumin, James Frank, and Lois Wood. The background shows a chart with a value of 3,449.69 k (-3.69%).</p>																								
SAP Analytics Cloud - Google Chrome																									

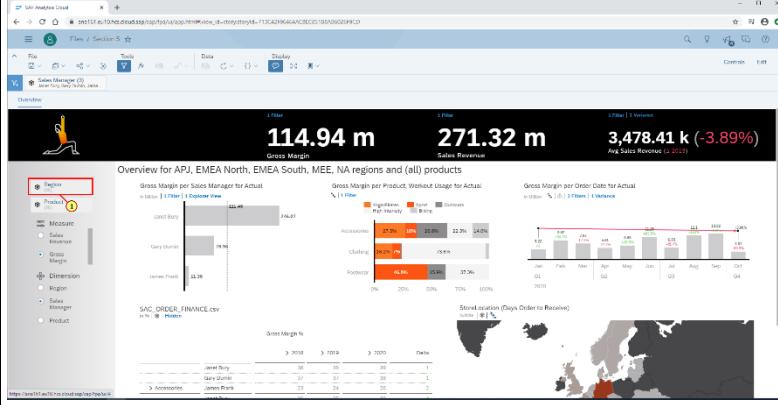
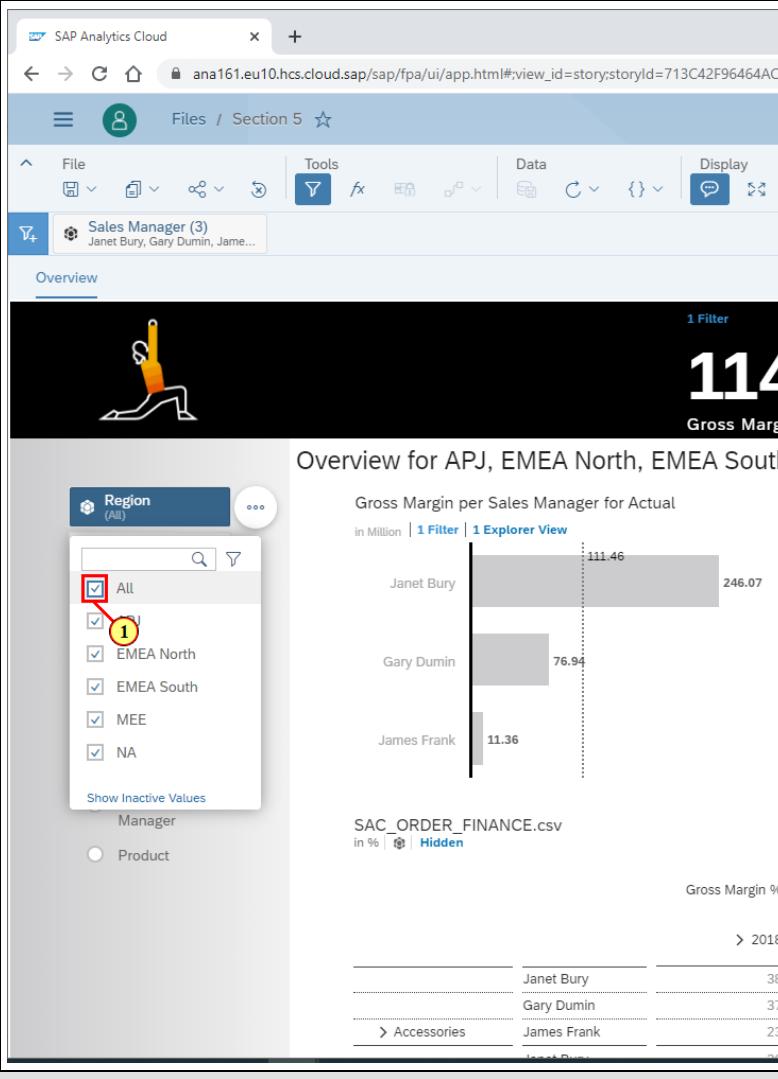
Explanation	Screenshot
(1) Click <b>OK</b>	
(1) Once, the Story Filter has been created, save the story	
(1) Enter view mode	
SAP Analytics Cloud - Google Chrome	

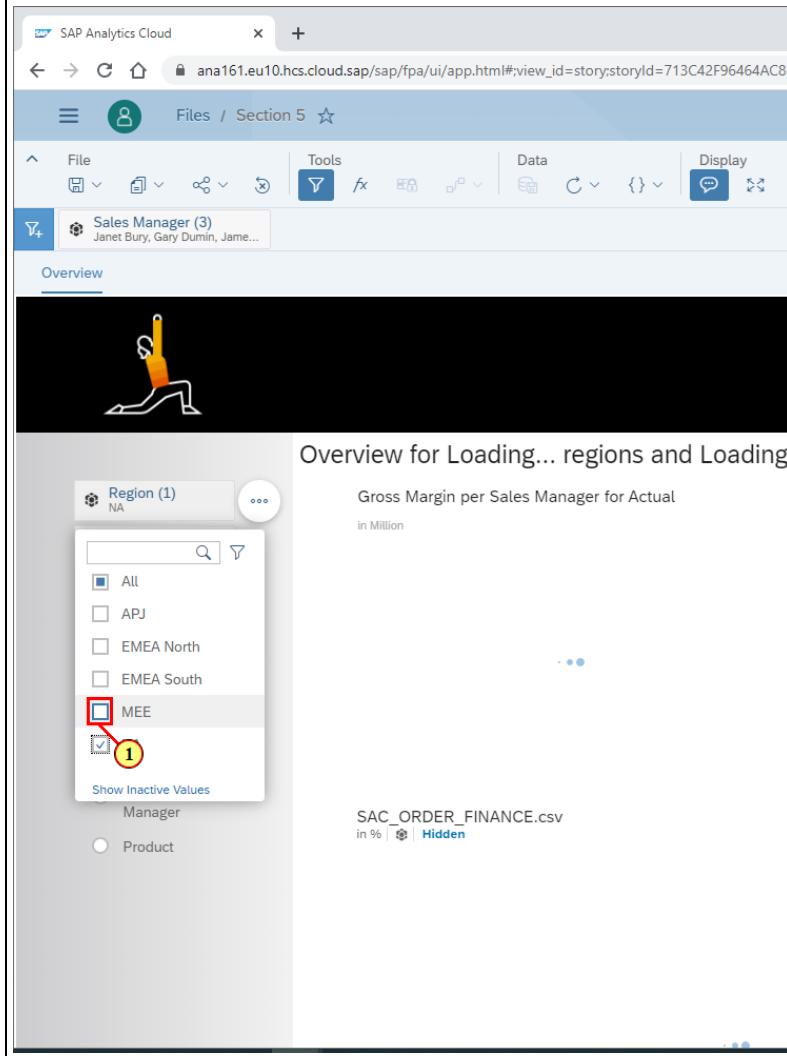
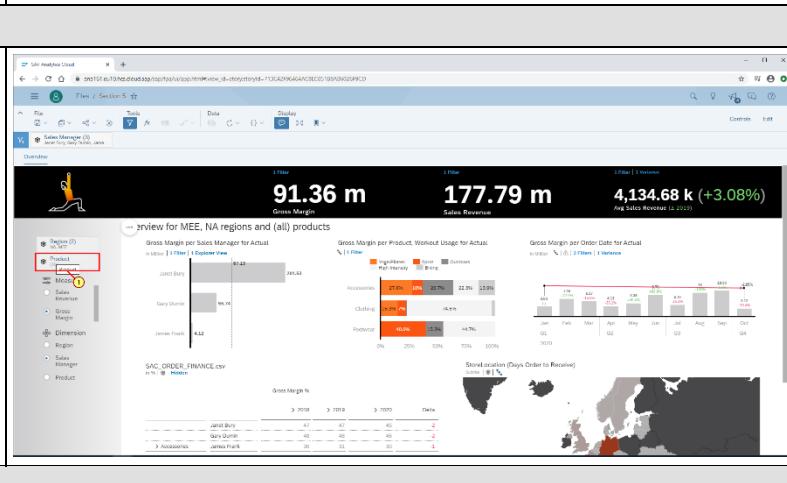
Explanation	Screenshot
(1) We're now going to customize the story filter. To do this, click on Sales Manager	 A screenshot of the SAP Analytics Cloud interface. The browser address bar shows the URL: ana161.eu10.hcs.cloud.sap/sap/fpa/ui/app.html#/view_id=story;storyId=. The main interface has a blue header with the text 'Files / Section 5'. Below the header is a toolbar with various icons. A dropdown menu is open, showing the 'Sales Manager' option, which is highlighted with a red box and a yellow circle containing the number '1'.

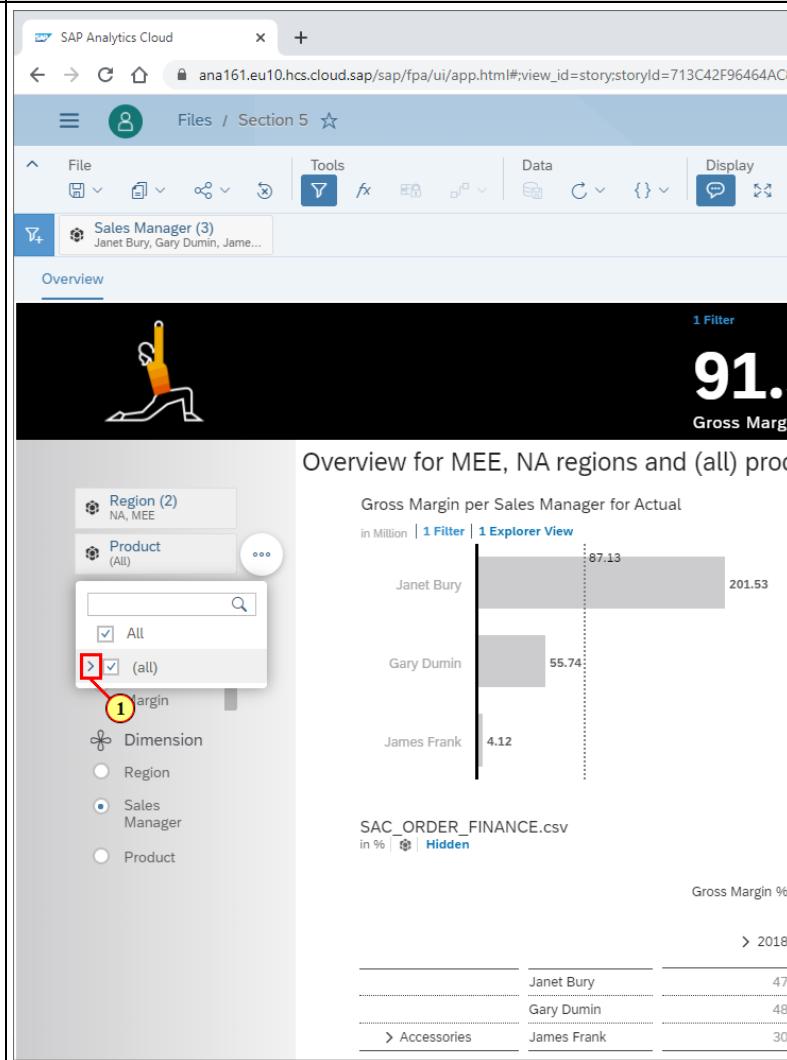
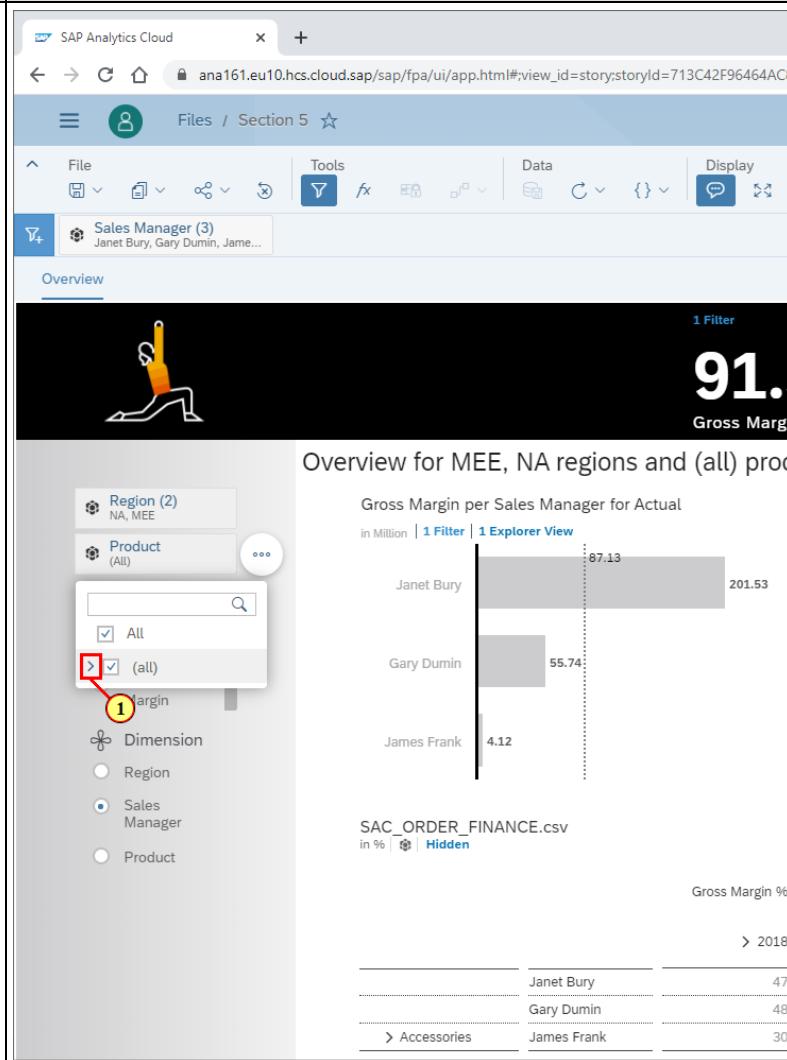
Explanation	Screenshot																								
<p>(1) Click <b>All</b> to deselect all</p>	 <p>The screenshot shows a SAP Analytics Cloud interface. A context menu is open, listing several names: All, Janet Bury, Gary Dumin, James Frank, Lois Wood, John Minker, and Nancy Miller. The 'All' option has a checked checkbox and is highlighted with a red box. A yellow circle with the number '1' is placed over the 'All' option. Below the list are buttons for 'Paste Filter Values', 'Settings', and 'View Controls...'. To the right of the menu, there's a chart titled 'Gross Margin per Sales Manager' showing gross margin in million for various sales managers, and a table below it.</p> <table border="1"> <caption>Gross Margin per Sales Manager</caption> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin (in Million)</th> </tr> </thead> <tbody> <tr><td>Kiran Raj</td><td>101</td></tr> <tr><td>David Carl</td><td>85.09</td></tr> <tr><td>Gabriel Walton</td><td>78.53</td></tr> <tr><td>Janet Bury</td><td>76.94</td></tr> <tr><td>John Minker</td><td>11.36</td></tr> <tr><td>Nancy Miller</td><td></td></tr> <tr><td>Lois Wood</td><td></td></tr> <tr><td>Lia Armand</td><td></td></tr> <tr><td>Ed Young</td><td></td></tr> <tr><td>Gary Dumin</td><td></td></tr> <tr><td>James Frank</td><td></td></tr> </tbody> </table> <p><b>SAC_ORDER_FINANCE.csv</b> in %      <a href="#">Hidden</a></p>	Sales Manager	Gross Margin (in Million)	Kiran Raj	101	David Carl	85.09	Gabriel Walton	78.53	Janet Bury	76.94	John Minker	11.36	Nancy Miller		Lois Wood		Lia Armand		Ed Young		Gary Dumin		James Frank	
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Explanation	Screenshot
(1) Select 3 managers - <b>Janet Bury, Gary Dumin and James Frank</b>	 <p>The screenshot shows the SAP Analytics Cloud interface. A filter dialog is open, listing managers: All, Janet Bury, Gary Dumin, James Frank, Lois Wood, John Minker, and Nancy Miller. The managers Janet Bury, Gary Dumin, and James Frank are selected, indicated by checked checkboxes. A yellow circle with the number '1' is highlighting the 'Gary Dumin' entry in the list.</p>

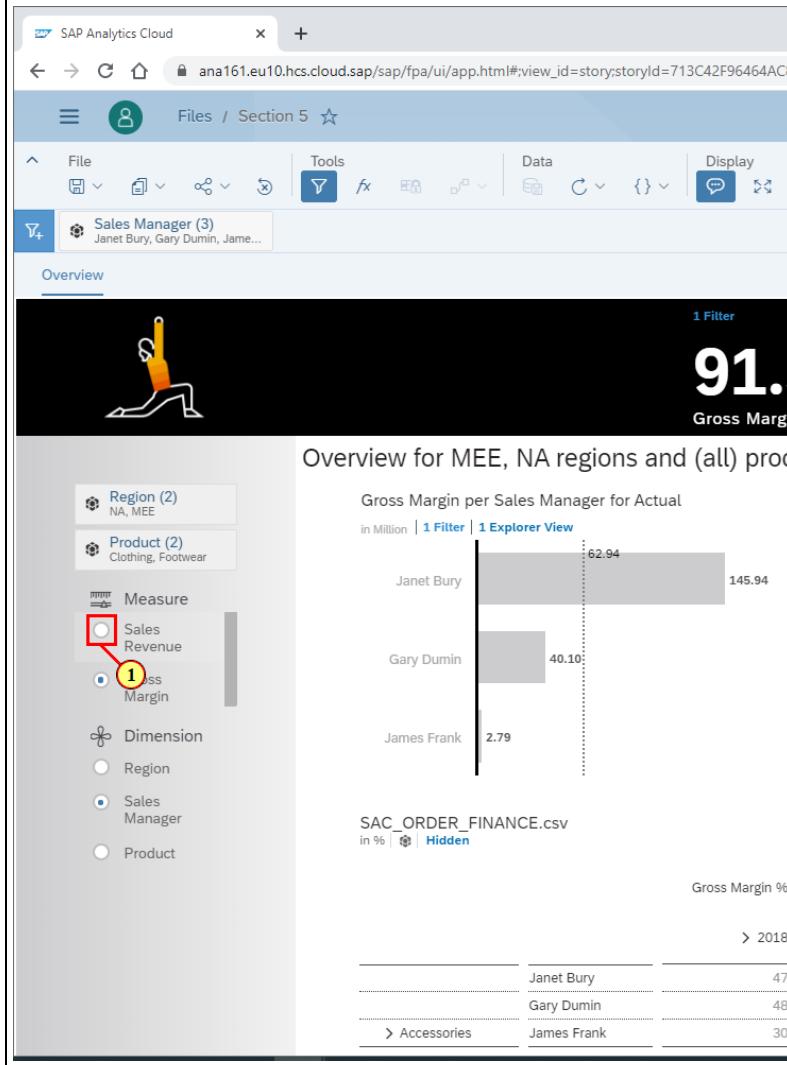
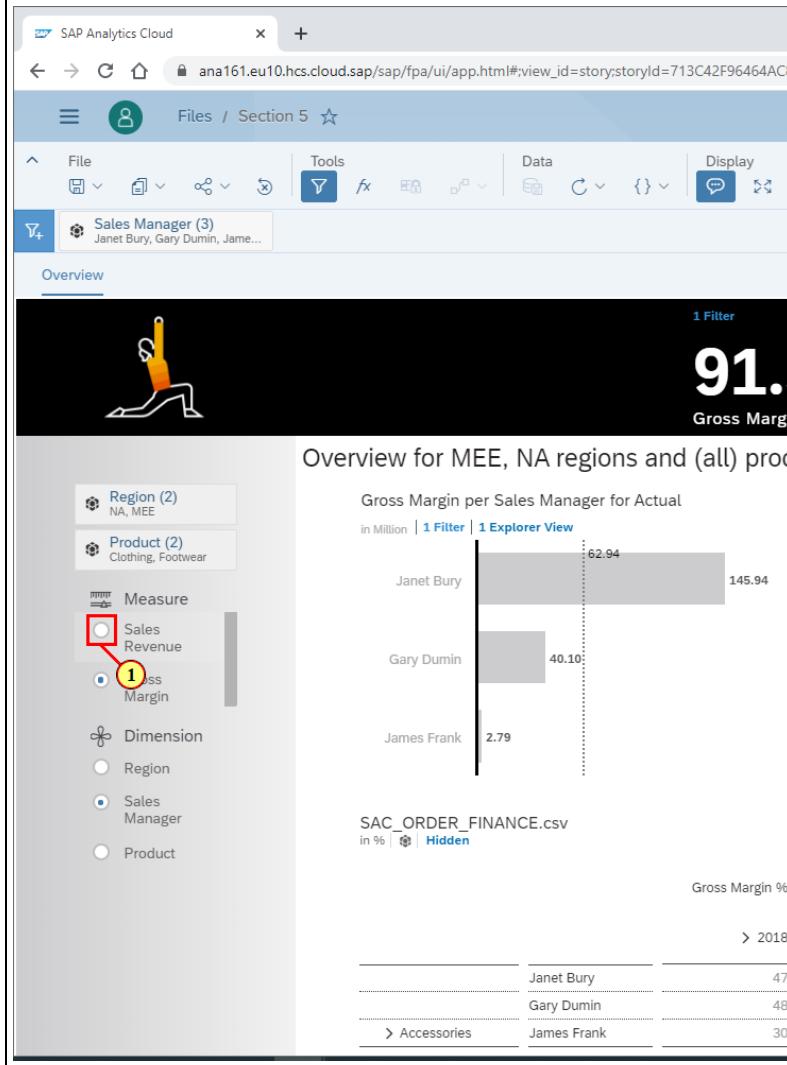
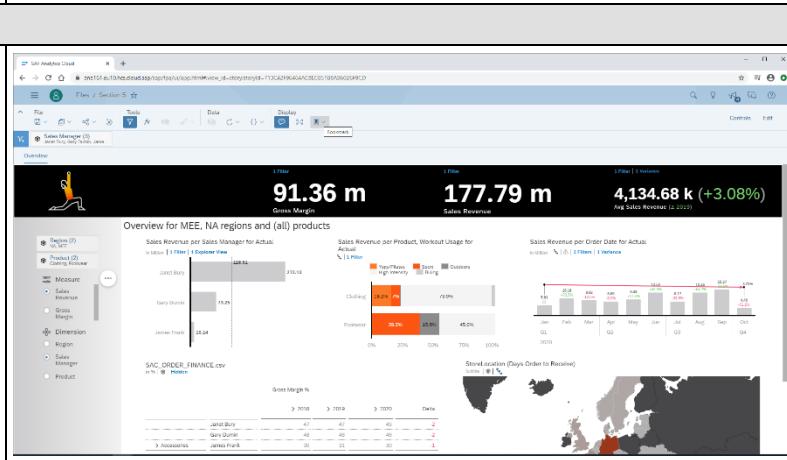
SAP Analytics Cloud - Google Chrome

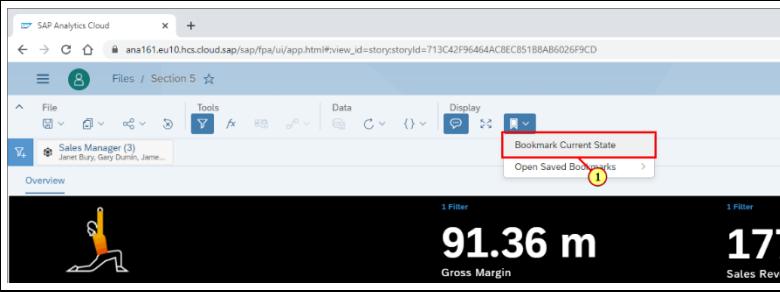
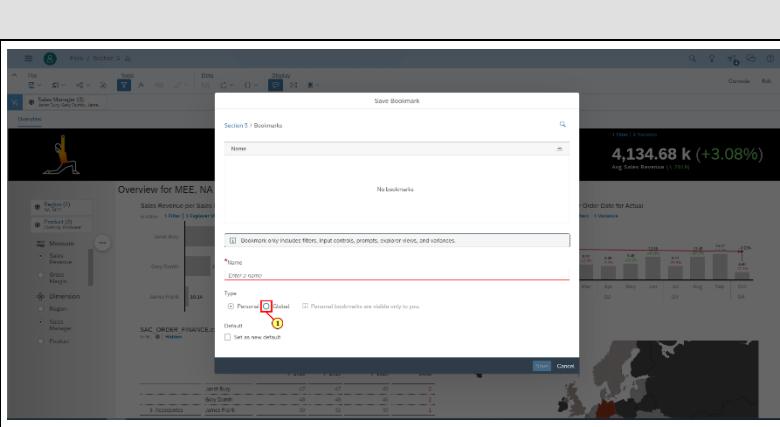
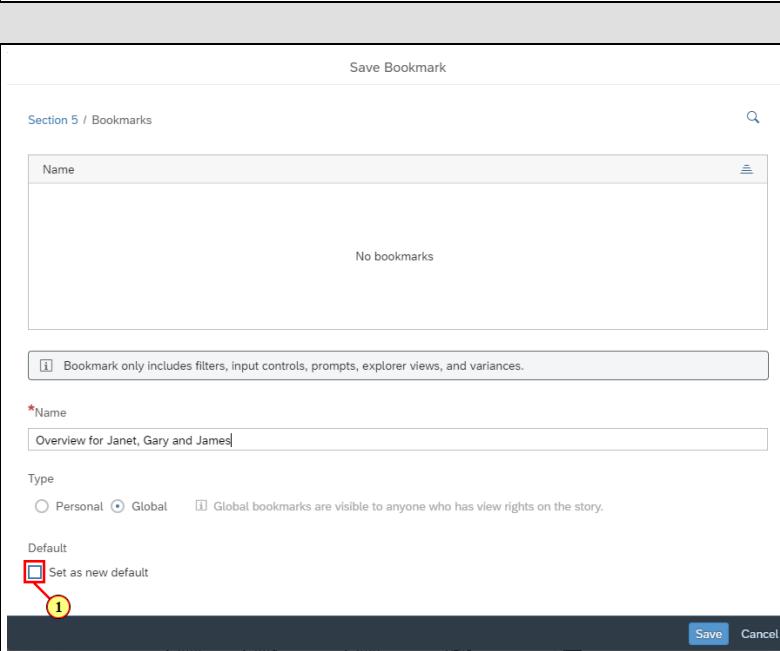
Explanation	Screenshot
(1) Next, update the <b>Region</b> input control by clicking here	
SAP Analytics Cloud - Google Chrome	

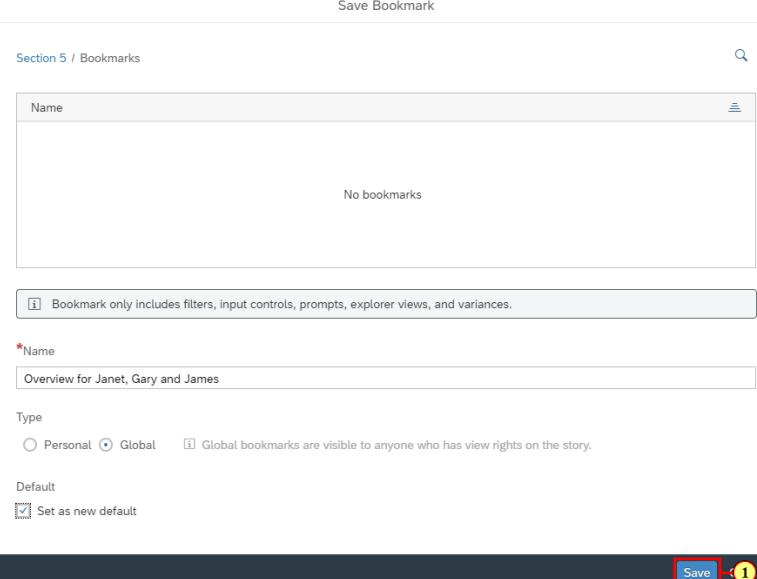
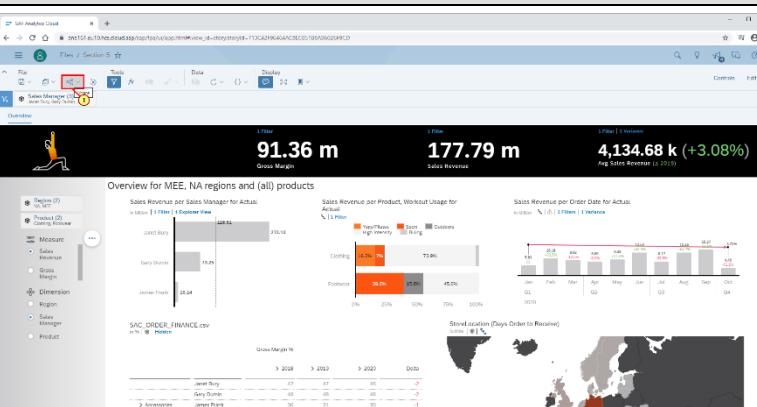
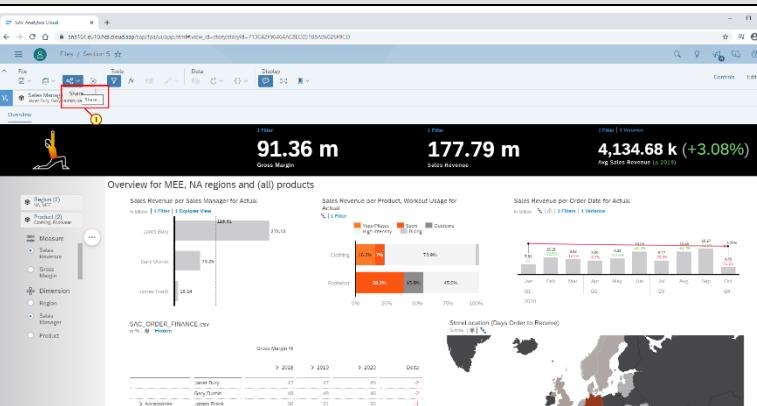
Explanation	Screenshot
(1) Select two regions: NA and MEE	 <p>SAP Analytics Cloud - Google Chrome</p> <p>Overview for Loading... regions and Loading...</p> <p>Gross Margin per Sales Manager for Actual in Million</p> <p>SAC_ORDER_FINANCE.csv in %   Hidden</p> <p>Manager Product</p> <p>Region (1) NA</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> All</li> <li><input type="checkbox"/> APJ</li> <li><input type="checkbox"/> EMEA North</li> <li><input type="checkbox"/> EMEA South</li> <li><input checked="" type="checkbox"/> MEE</li> </ul> <p>Show Inactive Values</p>
(1) Update the Product Input control next by clicking Product	 <p>SAP Analytics Cloud - Google Chrome</p> <p>Overview for MEE, NA regions and (all) products</p> <p>91.36 m Gross Margin</p> <p>177.79 m Sales Revenue</p> <p>4,134.68 k (+3.08%) Avg Sales Revenue (Δ 2019)</p> <p>Product Manager</p> <p>Dimension</p> <p>Region</p> <p>Sales Manager</p> <p>Gross Margin</p> <p>Accessories Clothing Footwear</p> <p>SAC_ORDER_FINANCE.csv in %   Hidden</p> <p>Storage location (Days Order to Receive)</p>

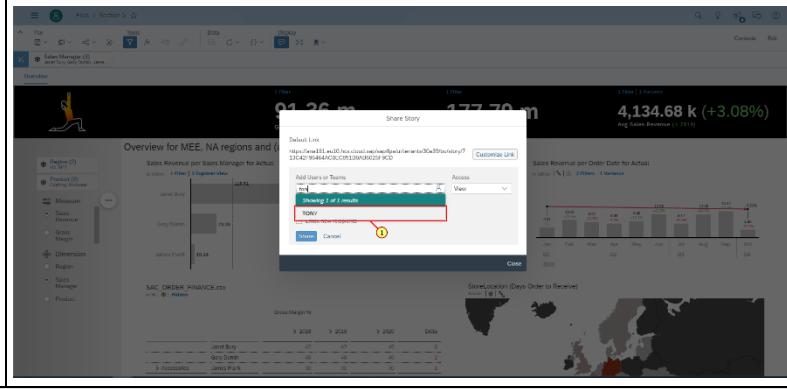
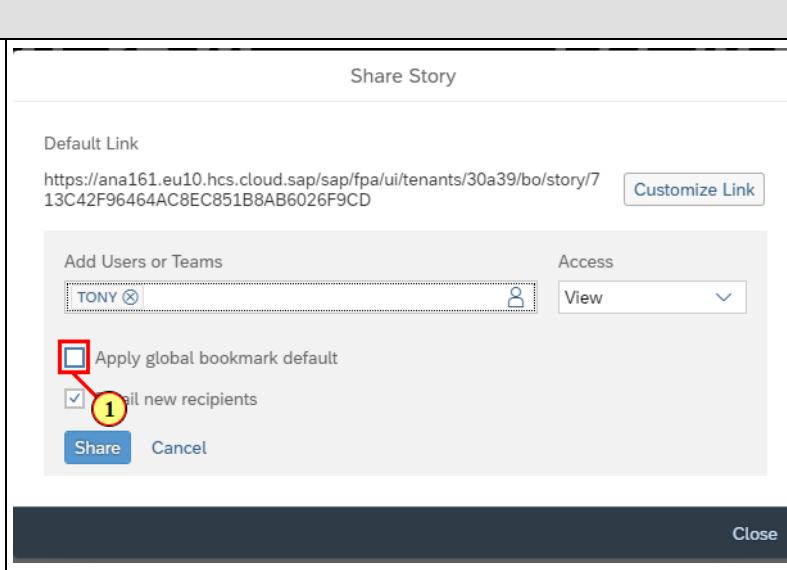
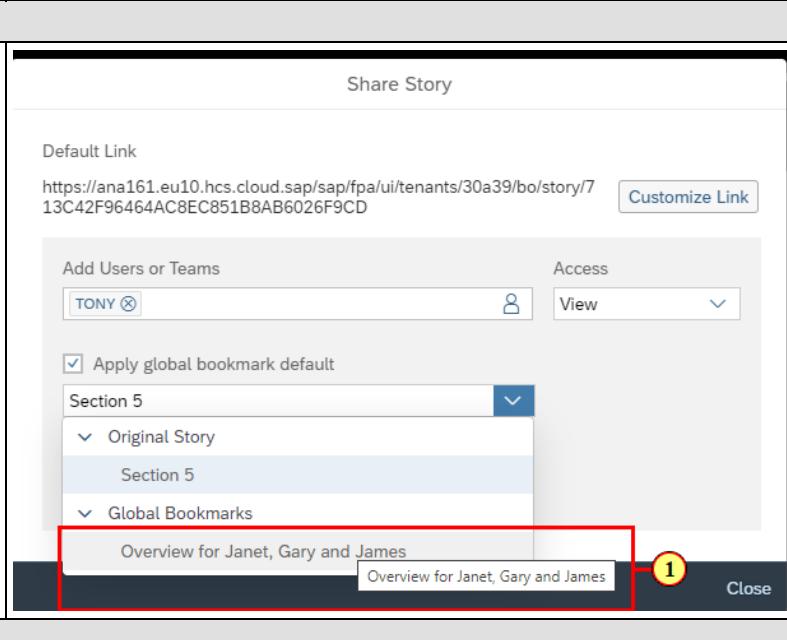
Explanation	Screenshot																		
<p>(1) Expand the menu</p> 	 <p>SAP Analytics Cloud - Google Chrome</p> <p><b>Overview</b></p> <p><b>Gross Margin per Sales Manager for Actual</b> in Million   <b>1 Filter</b>   <b>1 Explorer View</b></p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr> <td>Janet Bury</td> <td>87.13</td> </tr> <tr> <td>Gary Durnin</td> <td>55.74</td> </tr> <tr> <td>James Frank</td> <td>4.12</td> </tr> </tbody> </table> <p><b>SAC_ORDER_FINANCE.csv</b> in %   <b>Hidden</b></p> <table border="1"> <thead> <tr> <th>Category</th> <th>Gross Margin %</th> </tr> </thead> <tbody> <tr> <td>Janet Bury</td> <td>47</td> </tr> <tr> <td>Gary Durnin</td> <td>48</td> </tr> <tr> <td>Accessories</td> <td>30</td> </tr> <tr> <td>James Frank</td> <td></td> </tr> </tbody> </table> <p><b>&gt; 2018</b></p>	Sales Manager	Gross Margin	Janet Bury	87.13	Gary Durnin	55.74	James Frank	4.12	Category	Gross Margin %	Janet Bury	47	Gary Durnin	48	Accessories	30	James Frank	
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<p>(1) Deselect Accessories so only Clothing and Footwear remain</p>	<p>Overview for MEE, NA regions and (all) products</p> <p>Gross Margin per Sales Manager for Actual in Million   1 Filter   1 Explorer View</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Gross Margin %</th> </tr> </thead> <tbody> <tr> <td>Janet Bury</td> <td>47</td> </tr> <tr> <td>Gary Dumin</td> <td>48</td> </tr> <tr> <td>Accessories</td> <td>James Frank</td> <td>30</td> </tr> <tr> <td>Footwear</td> <td>James Frank</td> <td>30</td> </tr> </tbody> </table> <p>INANCIAL.csv</p> <p>Gross Margin %</p> <p>&gt; 2018</p> <p>Janet Bury Gary Dumin Accessories Footwear</p> <p>Region (2) NA, MEE</p> <p>Product (All)</p> <p>All (all) Accessories Clothing Footwear</p>	Sales Manager	Gross Margin %	Janet Bury	47	Gary Dumin	48	Accessories	James Frank	30	Footwear	James Frank	30
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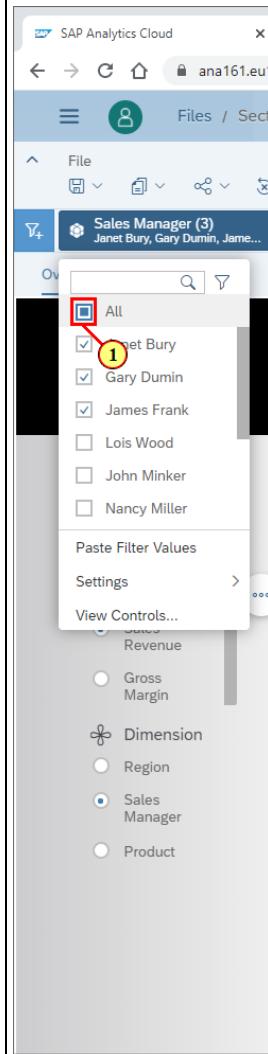
Explanation	Screenshot
<p>(1) Next, switch measure to <b>Sales Revenue</b>.</p> 	
<p>Quality Check! Does your dashboard look like this?</p> 	

Explanation	Screenshot
 <p>Now let's add the bookmark. To do so, Select <b>Bookmark Current State</b> from the Bookmark tab</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <b>Global</b> to make this a global Bookmark.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click the checkmark to set this bookmark as the new default.</p>	

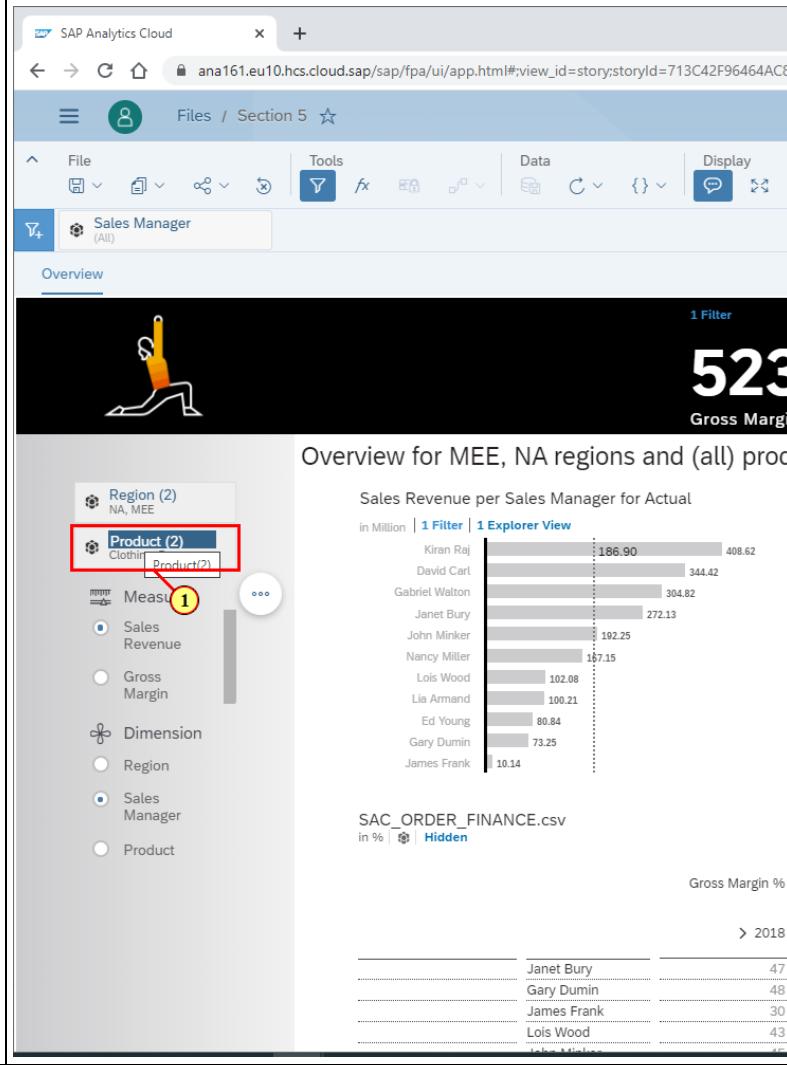
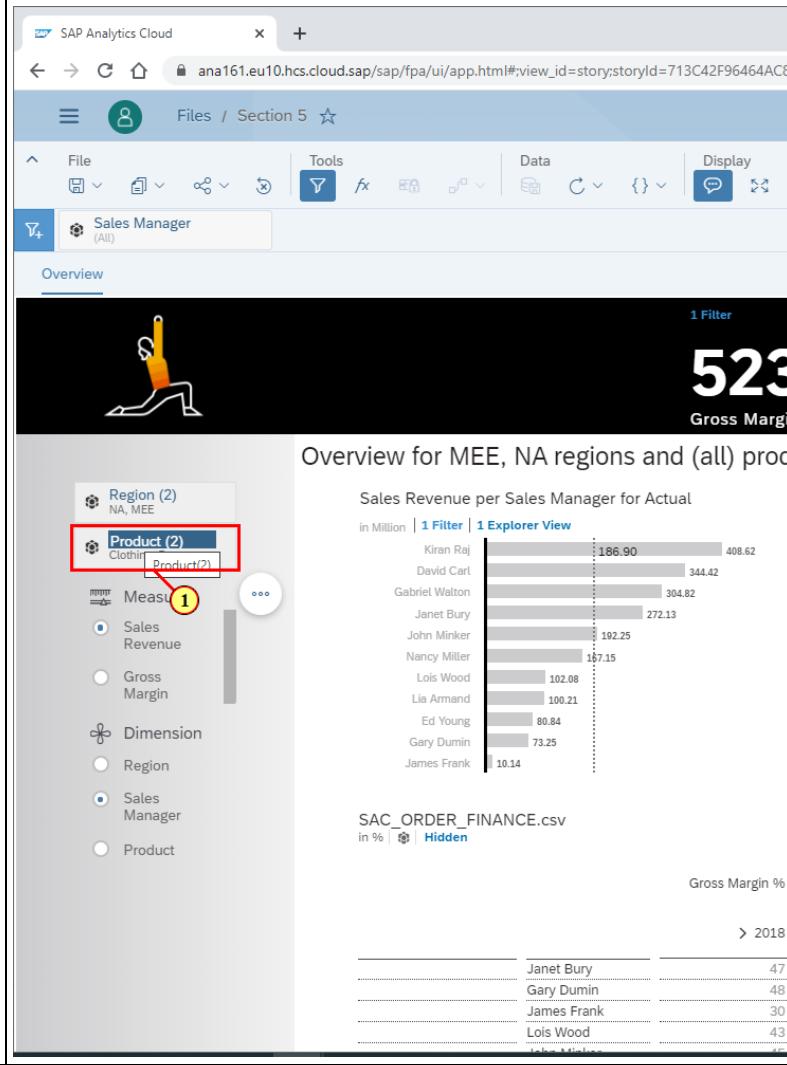
Explanation	Screenshot																												
(1) Click <b>Save</b>	 <p>Save Bookmark</p> <p>Section 5 / Bookmarks</p> <p>Name</p> <p>No bookmarks</p> <p>Bookmark only includes filters, input controls, prompts, explorer views, and variances.</p> <p>*Name Overview for Janet, Gary and James</p> <p>Type <input type="radio"/> Personal <input checked="" type="radio"/> Global <small>Global bookmarks are visible to anyone who has view rights on the story.</small></p> <p>Default <input type="checkbox"/> Set as new default</p> <p><b>Save</b> <span style="border: 1px solid red; padding: 2px;">1</span></p>																												
(1) We're now going to share the story with our colleague Tony. To do so, enter the share menu	 <p>SAP Analytics Cloud - Google Chrome</p> <p>91.36 m 177.79 m 4,134.68 k (+3.08%)</p> <p>Overview for MEE, NA regions and (all) products</p> <p>Sales Revenue per Sales Manager for Actuals</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Actuals</th> </tr> </thead> <tbody> <tr> <td>Janet Fury</td> <td>10.54</td> </tr> <tr> <td>Gary Duran</td> <td>7.81</td> </tr> <tr> <td>James Frank</td> <td>18.14</td> </tr> </tbody> </table> <p>SAC_ORDER_FINANCE.csv</p> <p>Gross Margin %</p> <table border="1"> <thead> <tr> <th>Year</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> </tr> </thead> <tbody> <tr> <td>Janet Fury</td> <td>27</td> <td>47</td> <td>45</td> <td>29</td> </tr> <tr> <td>Gary Duran</td> <td>48</td> <td>45</td> <td>45</td> <td>29</td> </tr> <tr> <td>James Frank</td> <td>30</td> <td>31</td> <td>35</td> <td>1</td> </tr> </tbody> </table> <p>Share</p>	Sales Manager	Actuals	Janet Fury	10.54	Gary Duran	7.81	James Frank	18.14	Year	2018	2019	2020	2021	Janet Fury	27	47	45	29	Gary Duran	48	45	45	29	James Frank	30	31	35	1
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Explanation	Screenshot
(1) Start typing in Tony, and select the result.	 A screenshot of the SAP Analytics Cloud interface. A search dialog box is open in the center, showing the results for "Tony". The results list "TONY" with a yellow circle around it. Other options like "New bookmark" and "Cancel" are also visible. In the background, there are several dashboard cards showing sales revenue and store location data.
SAP Analytics Cloud - Google Chrome	 A screenshot of the "Share Story" dialog. It shows a "Default Link" field with the URL "https://ana161.eu10.hcs.cloud.sap/fpa/ui/tenants/30a39/bo/story/713C42F96464AC8EC851B8AB6026F9CD". Below it is a "Add Users or Teams" input field containing "TONY" with a yellow circle around it. There are "Access" dropdown menus set to "View". Two checkboxes are present: "Apply global bookmark default" (unchecked) and "Email new recipients" (checked with a yellow circle around it). Buttons for "Share" and "Cancel" are at the bottom.
SAP Analytics Cloud - Google Chrome	 A screenshot of the same "Share Story" dialog. The "Add Users or Teams" field still contains "TONY". The "Access" dropdown is set to "View". The "Apply global bookmark default" checkbox is checked. A dropdown menu is open under "Section 5", showing "Original Story" and "Global Bookmarks". Under "Global Bookmarks", a list item "Overview for Janet, Gary and James" is highlighted with a red rectangle and a yellow circle around it. The "Share" button is visible at the bottom right.

Explanation	Screenshot
(1) Click <b>Share</b> .	<p>Share Story</p> <p>Default Link  <a href="https://ana161.eu10.hcs.cloud.sap/sap/fpa/ui/tenants/30a39/bo/story/713C42F96464AC8EC851B8AB6026F9CD?bookmarkId=54743084-1297-4195-b352-595711236522">https://ana161.eu10.hcs.cloud.sap/sap/fpa/ui/tenants/30a39/bo/story/713C42F96464AC8EC851B8AB6026F9CD?bookmarkId=54743084-1297-4195-b352-595711236522</a> <b>Customize Link</b></p> <p>Add Users or Teams      Access</p> <p>TONY  View </p> <p><input checked="" type="checkbox"/> Apply global bookmark default  <b>Overview for Janet, Gary and James</b> </p> <p><input checked="" type="checkbox"/> Email new recipients</p> <p><b>Share</b> Cancel</p> <p>1</p> <p>Close</p>
(1) Close this window.	<p>Share Story</p> <p>Default Link  <a href="https://ana161.eu10.hcs.cloud.sap/sap/fpa/ui/tenants/30a39/bo/story/713C42F96464AC8EC851B8AB6026F9CD?bookmarkId=54743084-1297-4195-b352-595711236522">https://ana161.eu10.hcs.cloud.sap/sap/fpa/ui/tenants/30a39/bo/story/713C42F96464AC8EC851B8AB6026F9CD?bookmarkId=54743084-1297-4195-b352-595711236522</a> <b>Customize Link</b></p> <p>Add Users or Teams      Access</p> <p> View </p> <p><input checked="" type="checkbox"/> Apply global bookmark default  <b>Overview for Janet, Gary and James</b> </p> <p><input checked="" type="checkbox"/> Email new recipients</p> <p><b>Share</b> Cancel</p> <p>&gt; Shared with 1 User    </p> <p>1 <b>Close</b></p>
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot													
<p>(1) Revert the story back to the original state by clicking All (ensure that all sales managers are not selected in the Story Filter).</p>	 <p>The screenshot shows a SAP Analytics Cloud interface. A dropdown menu is open from a story filter icon. The 'All' option is highlighted with a red box and a yellow circle containing the number 1. Other options like Janet Bury, Gary Dumin, and James Frank are checked. To the right of the dropdown, there's a chart titled 'Sales Revenue per Sales Manager for Actual' showing revenue in millions for three sales managers: Janet Bury, Gary Dumin, and James Frank. Below the chart is a table titled 'SAC_ORDER_FINANCE.csv' showing gross margin percentages for 2018.</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Sales Manager</th> <th>Gross Margin %</th> </tr> </thead> <tbody> <tr> <td rowspan="3">MEE</td> <td>Janet Bury</td> <td>47</td> </tr> <tr> <td>Gary Dumin</td> <td>48</td> </tr> <tr> <td>James Frank</td> <td>30</td> </tr> <tr> <td colspan="2">&gt; Accessories</td> <td>2018</td> </tr> </tbody> </table>	Region	Sales Manager	Gross Margin %	MEE	Janet Bury	47	Gary Dumin	48	James Frank	30	> Accessories		2018
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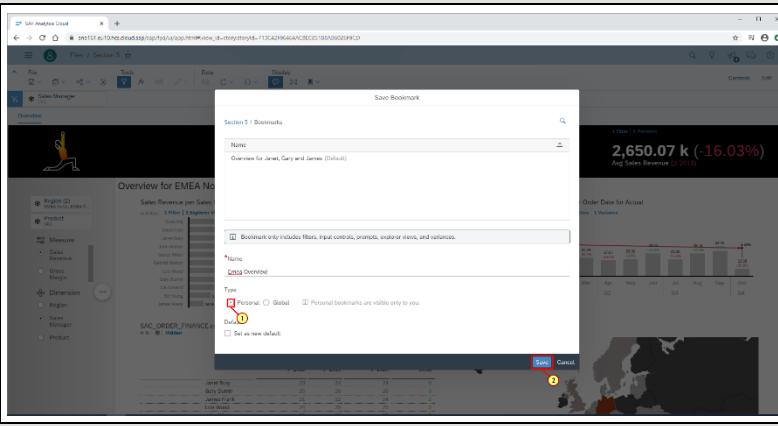
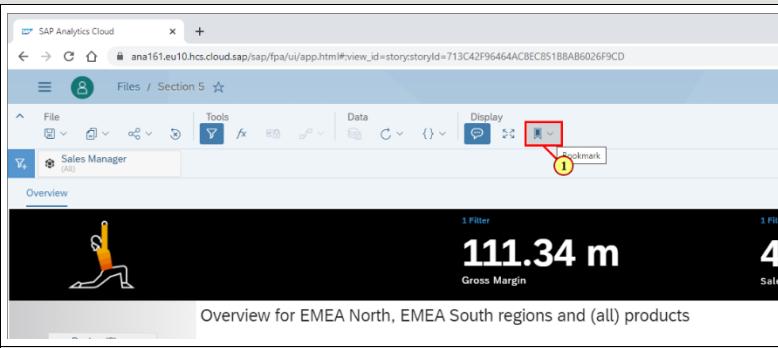
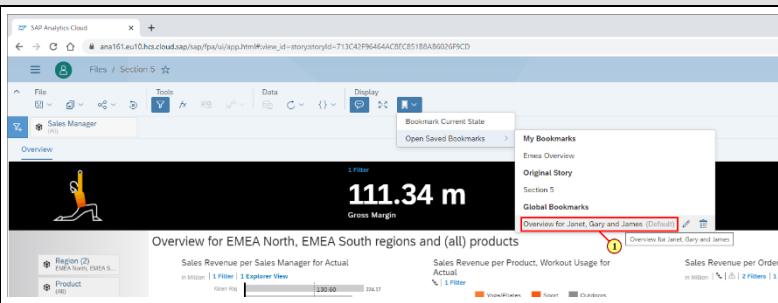
SAP Analytics Cloud - Google Chrome

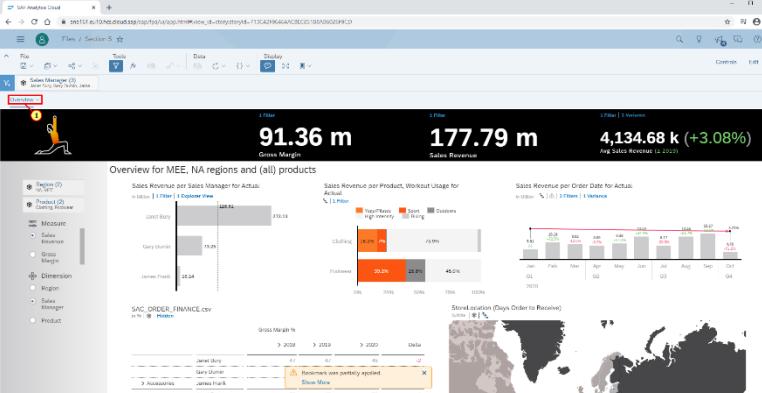
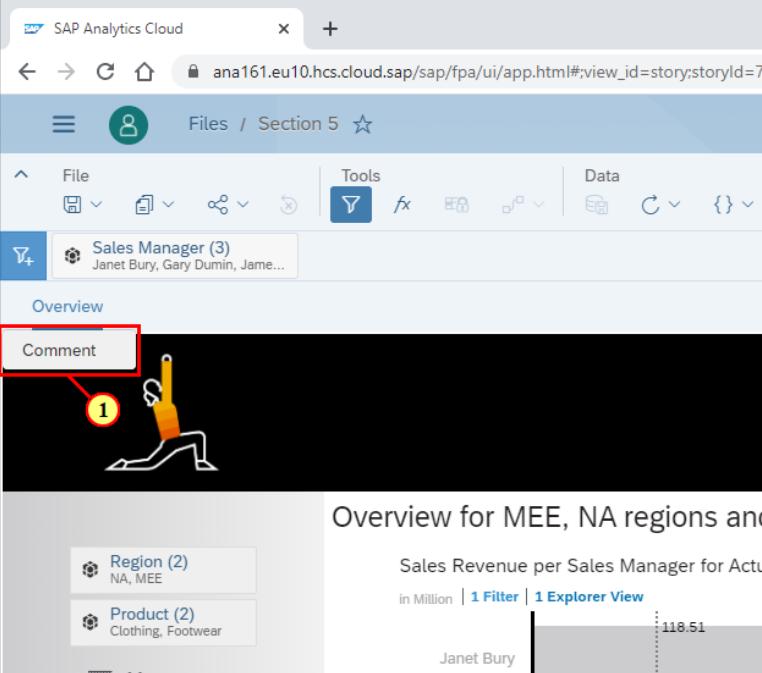
Explanation	Screenshot
<p>(1) Revert the Product Input control back to the original state by Clicking <b>Product</b>.</p> 	

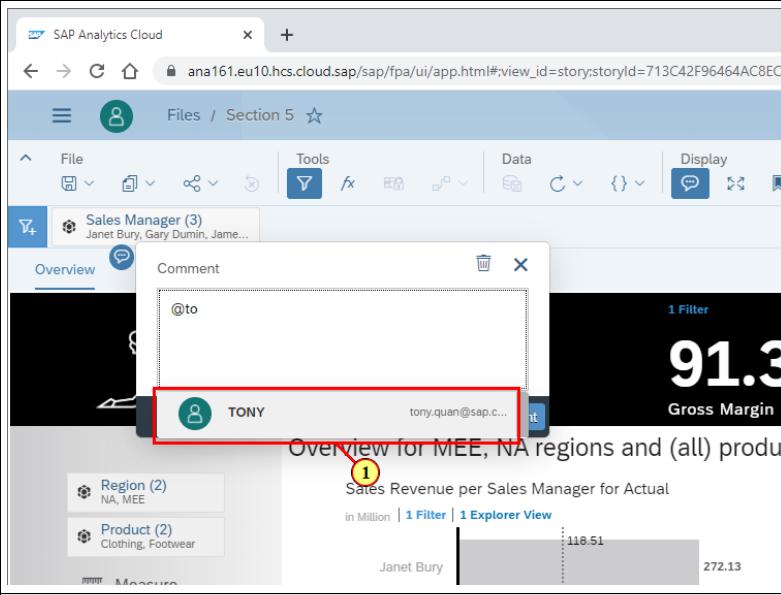
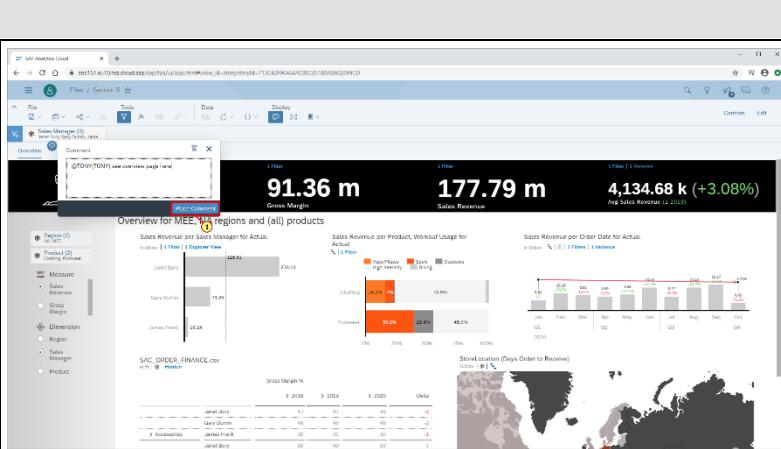
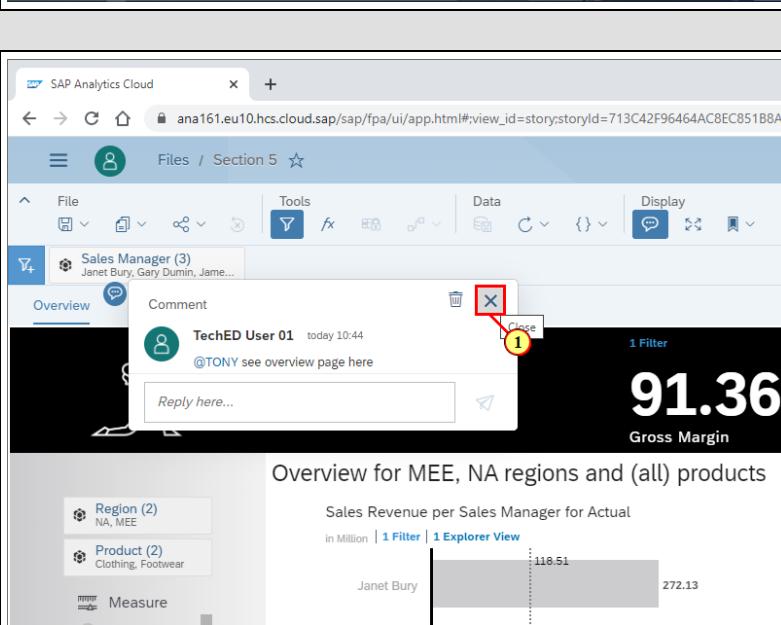
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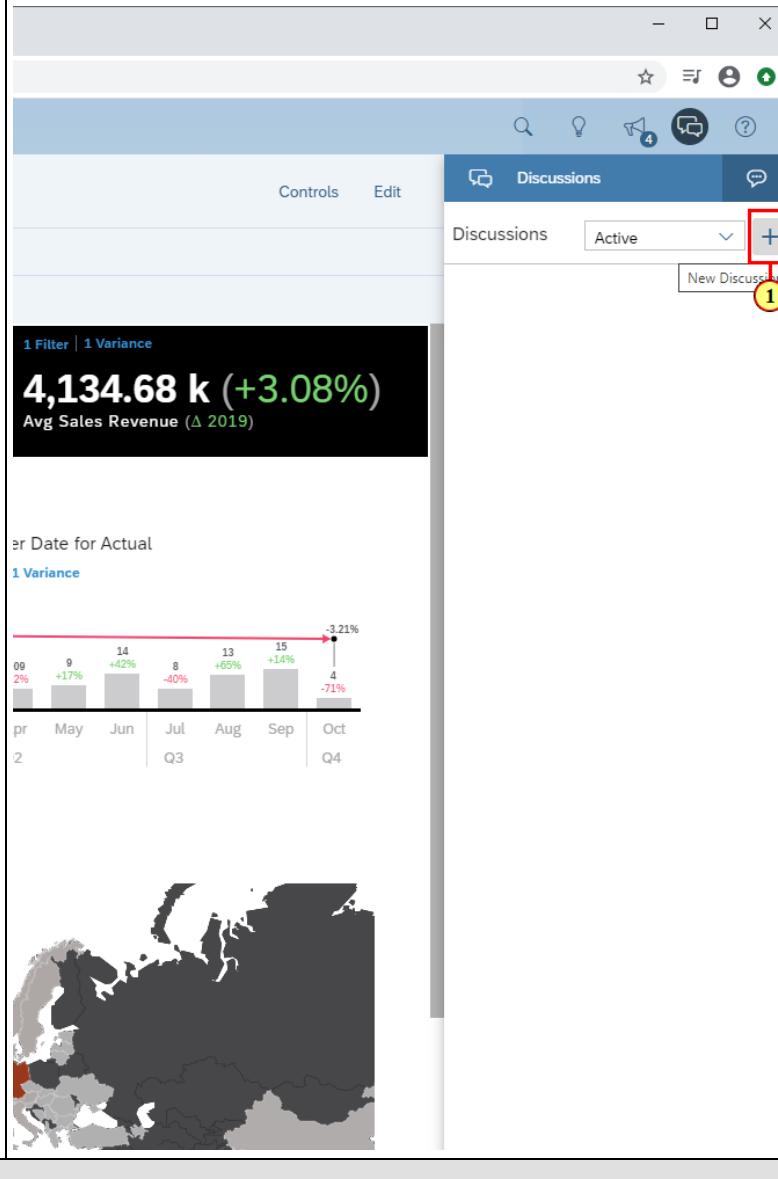
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(1) Update the Region to include EMEA North and EMEA South only	<p>Sales Revenue per Sales Manager for Actual in Million   1 Filter   1 Explorer View</p> <table border="1"> <thead> <tr> <th>Sales Manager</th> <th>Revenue (M)</th> <th>Revenue (M)</th> </tr> </thead> <tbody> <tr><td>Kiran Raj</td><td>130.60</td><td>224.17</td></tr> <tr><td>David Cart</td><td>202.52</td><td></td></tr> <tr><td>Janet Bury</td><td>192.70</td><td></td></tr> <tr><td>John Minker</td><td>161.63</td><td></td></tr> <tr><td>Nancy Miller</td><td>146.44</td><td></td></tr> <tr><td>Gabriel Walton</td><td>136.92</td><td></td></tr> <tr><td>Lois Wood</td><td>122.59</td><td></td></tr> <tr><td>Gary Dumin</td><td>88.27</td><td></td></tr> <tr><td>Lia Armand</td><td>74.02</td><td></td></tr> <tr><td>Ed Young</td><td>52.41</td><td></td></tr> <tr><td>James Frank</td><td>34.98</td><td></td></tr> </tbody> </table> <p>SAC_ORDER_FINANCE.csv in %   1 Filter   Hidden</p>	Sales Manager	Revenue (M)	Revenue (M)	Kiran Raj	130.60	224.17	David Cart	202.52		Janet Bury	192.70		John Minker	161.63		Nancy Miller	146.44		Gabriel Walton	136.92		Lois Wood	122.59		Gary Dumin	88.27		Lia Armand	74.02		Ed Young	52.41		James Frank	34.98	
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(1) Let's bookmark this updated state we've created.																																					
SAP Analytics Cloud - Google Chrome																																					

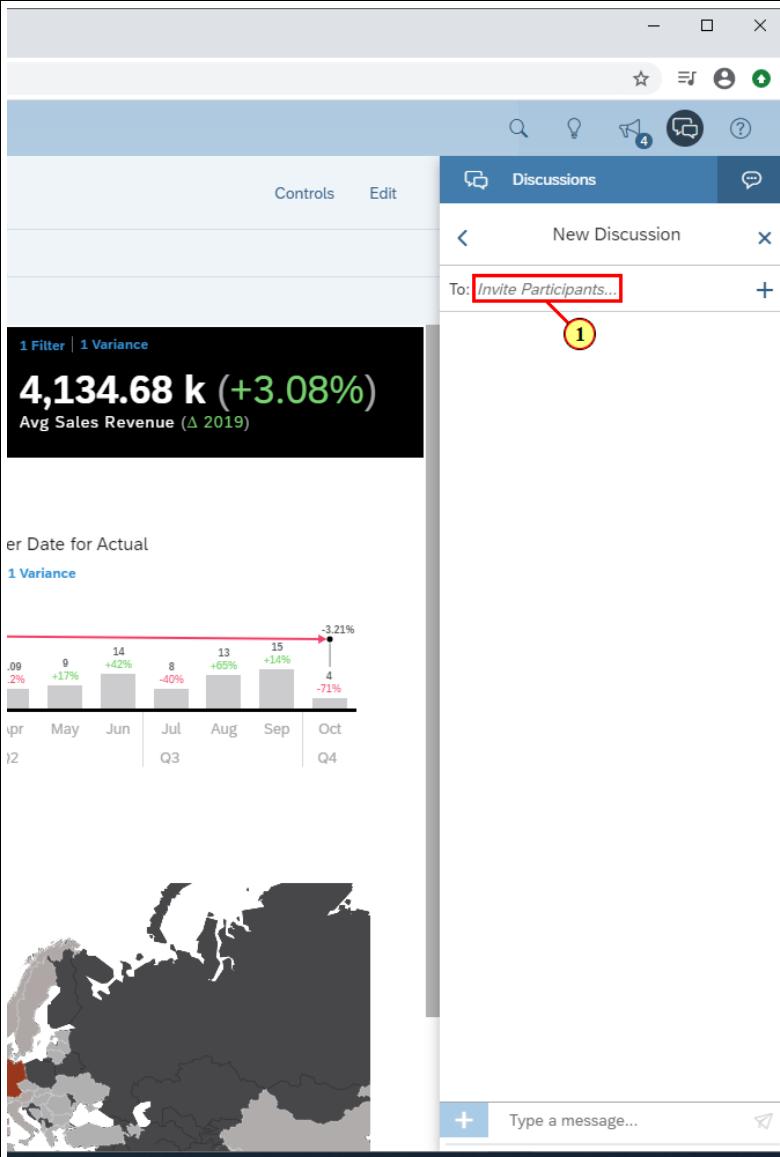
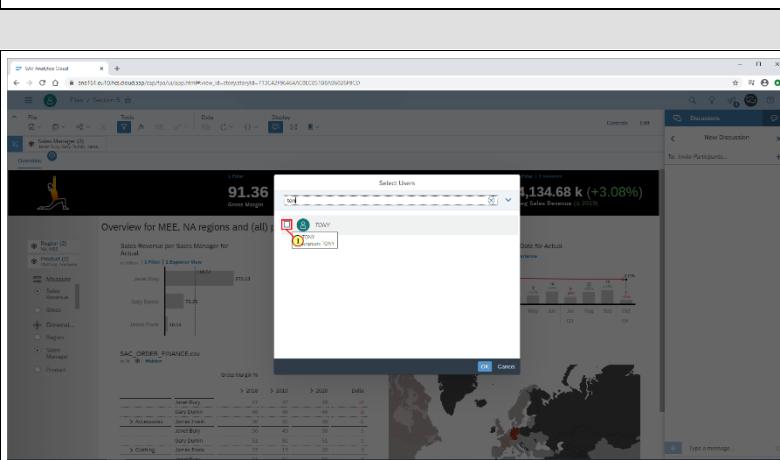
Explanation	Screenshot
(1) Click <b>Bookmark Current State</b>	
SAP Analytics Cloud - Google Chrome	
(1) Make this a personal bookmark. (2) Click <b>Save</b>	
SAP Analytics Cloud - Google Chrome	
(1) Let's go back to the previous state that was bookmarked. To do so, click <b>Bookmark</b>	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Overview for Janet, Gary and James (Default)</b> . Note the story filter has changed, and we're in the old state.	
SAP Analytics Cloud - Google Chrome	

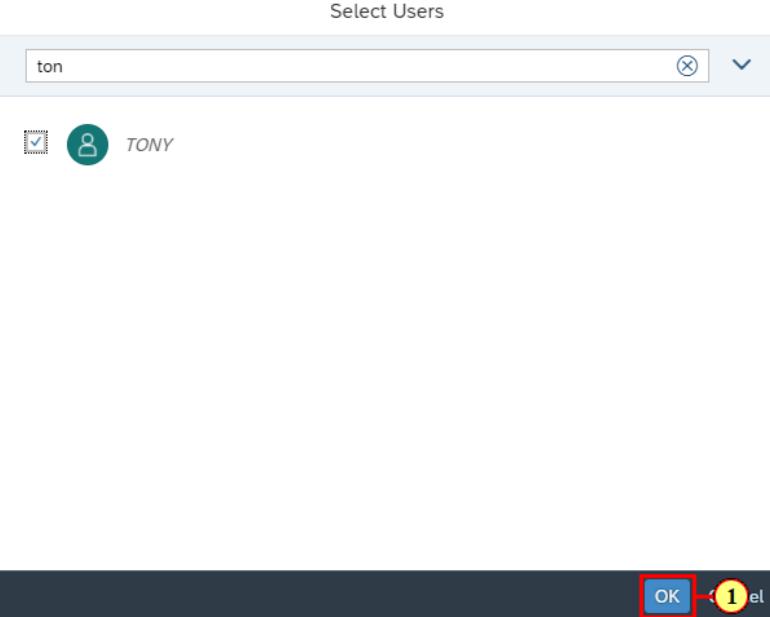
Explanation	Screenshot
<p>(1) Let's add a comment for our colleague Tony. To do so, click on the page name.</p>	
<p>SAP Analytics Cloud - Google Chrome</p> <p>(1) Click <u>Comment</u></p>	

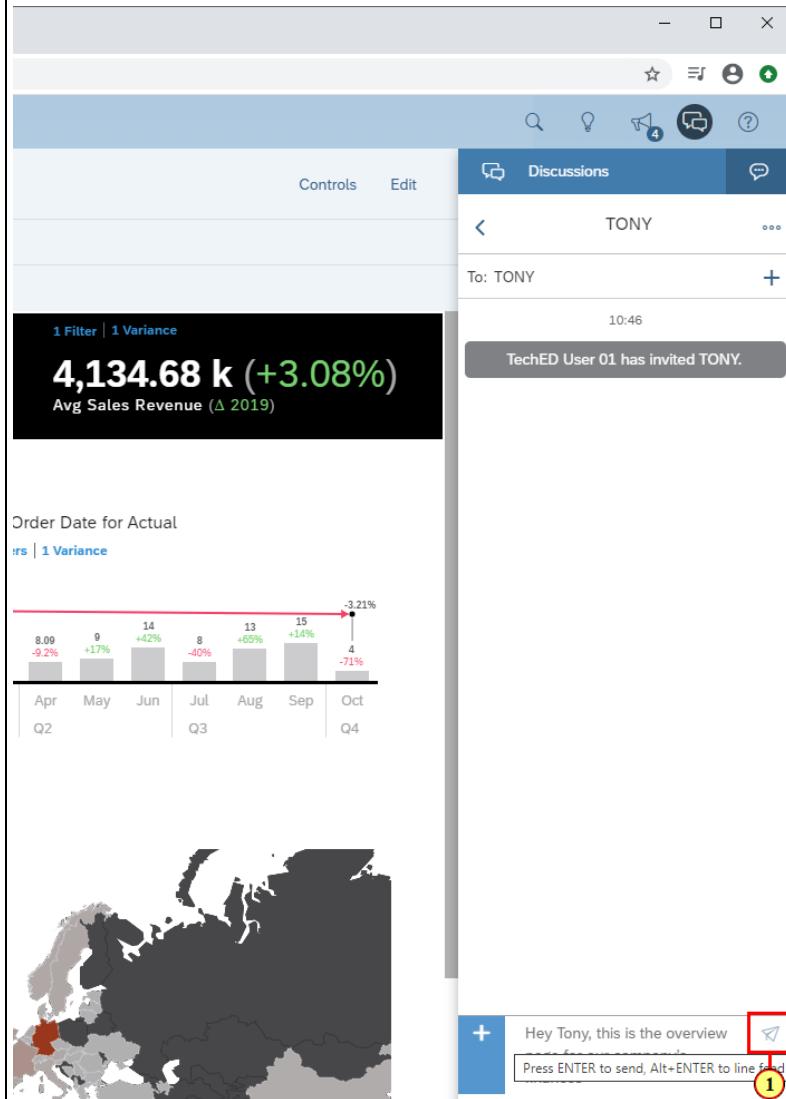
Explanation	Screenshot
<p>(1) Search for Tony by typing "@" before tony. Once the desired person shows up, click their name so they can be notified.</p>	
<p>(1) Enter the desired comment and click <u>Place Comment</u>.</p>	
<p>(1) Exit out of this menu by clicking .</p>	

Explanation	Screenshot
SAP Analytics Cloud - Google Chrome	<p>(1) We can do further actions to the comment we just created. To like the comment, click </p>
SAP Analytics Cloud - Google Chrome	<p>(1) Click </p>
SAP Analytics Cloud - Google Chrome	<p>(1) We can even start a discussion regarding a particular story. To do so, Click </p>

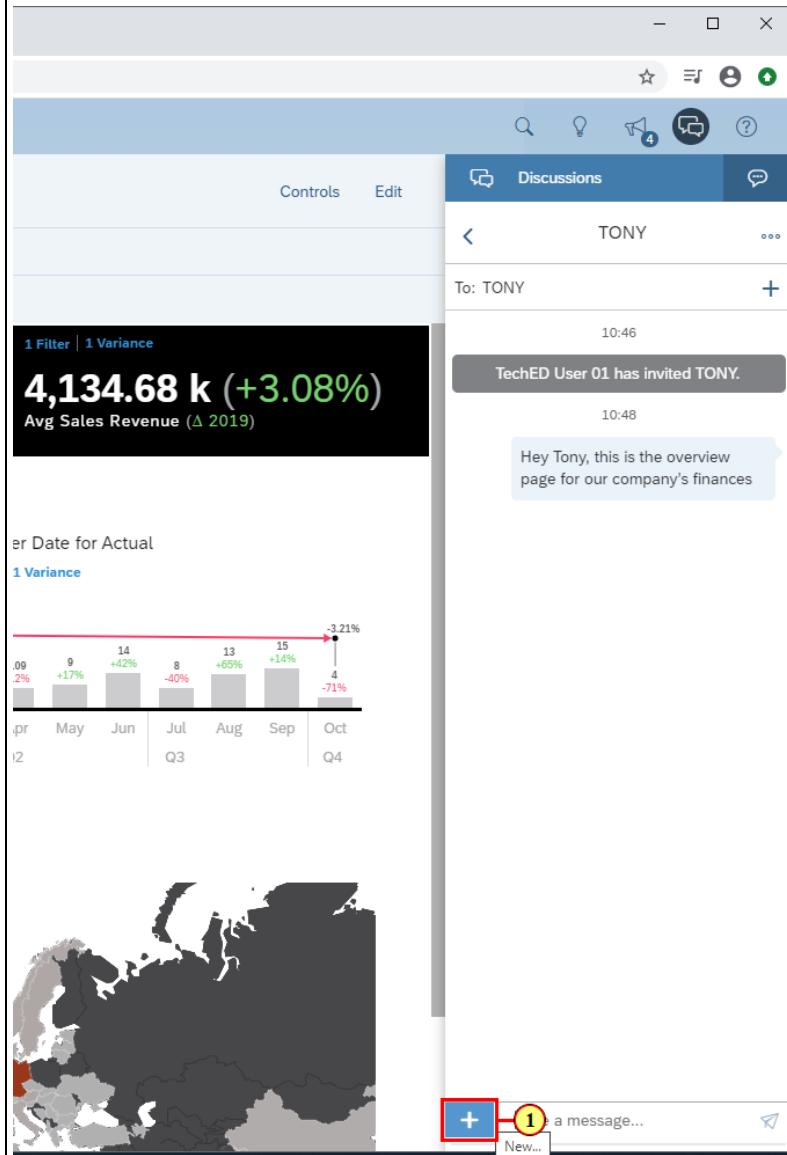
Explanation	Screenshot
(1) Click New Discussion 	 <p>The screenshot shows the SAP Analytics Cloud interface in Google Chrome. At the top, there's a toolbar with various icons. Below it is a navigation bar with 'Discussions' selected. A red box highlights the '+ New Discussion' button, which is also circled in yellow with the number '1'. Below this, a summary card displays '1 Filter   1 Variance' and '4,134.68 k (+3.08%) Avg Sales Revenue (Δ 2019)'. The main content area features a bar chart titled 'Variance by Date for Actual' with a '1 Variance' filter applied. The bars represent values for May through October, with percentages ranging from -71% to +65%. Below the chart is a map of Europe with different regions shaded in various tones of gray.</p>

Explanation	Screenshot
<p>(1) We're going to invite Tony to this discussion. To do so, Click <b>Invite Participants</b></p>	
<p>(1) Start typing Tony and select Tony when it shows up</p>	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click <b>OK</b> .	 <p>Select Users</p> <p>ton</p> <p><input checked="" type="checkbox"/>  TONY</p> <p>OK 1 el</p>

Explanation	Screenshot
<p>(1) Write a message and then press <b>ENTER</b> or click the <b>send</b> icon to send.</p>	 <p>The screenshot shows a SAP Analytics Cloud interface. In the foreground, there is a dashboard with a bar chart titled "Order Date for Actual" showing monthly sales revenue. The chart includes data for April (8.09, -9.2%), May (9, +17%), June (14, +42%), July (8, -40%), August (13, +65%), September (15, +14%), and October (4, -71%). A red arrow points to the October value. Below the chart is a map of Europe with a red highlighted area. In the background, an email window is open in a browser tab, showing a message to "TONY" with the subject "TechED User 01 has invited TONY." The message body contains the text "Hey Tony, this is the overview" and a red box highlights the send icon (an envelope icon). A yellow circle with the number "1" is overlaid on the bottom right corner of the message area.</p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
<p>(1) We now have to link a story to this discussion. To do so, click <b>New...</b> </p>	 <p>The screenshot shows a SAP Analytics Cloud dashboard with a bar chart titled 'Variance' comparing actual vs. budgeted values for different months. The chart includes data points like May (+17%), June (+42%), July (-40%), August (+65%), September (+14%), and October (-71%). Below the chart is a map of Europe. To the right, a Microsoft Teams 'Discussions' window is open for a channel named 'TONY'. A message from 'TechED User 01' has been sent at 10:48, and a reply from 'Hey Tony' is shown, stating: 'Hey Tony, this is the overview page for our company's finances'. A red box highlights the 'New...' button in the bottom right corner of the message input field.</p>

SAP Analytics Cloud - Google Chrome

Explanation	Screenshot
(1) Click <b>Link Story</b> .	<p>The screenshot shows a SAP Analytics Cloud interface. On the left, there's a chart titled "Avg Sales Revenue" showing a year-over-year variance of +3.08%. Below it is a bar chart for Q2 and Q3 showing actual values and variances. To the right is a map of Europe with a callout bubble pointing to it. A context menu is open over the map, with the "Link Story" option highlighted with a red box and a yellow circle containing the number 1.</p>
<b>⚠️ Quality Check!</b> This is what your screen should look like once you've linked the story.	<p>The screenshot shows a SAP Analytics Cloud dashboard with various charts and data tables. A warning icon is visible on the left. The sidebar on the left includes a "Link Story" button, which is highlighted with a red box.</p>
This is the end of the section! You've learned how to create global and personal bookmarks, how to share stories in bookmarked states, comment on pages (and tag people in comments) and start discussions.	<p>The screenshot shows a SAP Analytics Cloud dashboard with various charts and data tables. A warning icon is visible on the left.</p>

## Summary

You have completed the entire Collaboration and Bookmarking section!

### You are now able to:

- Bookmark a Story to Capture a Version of the Story
- Share a Story and Collaborate with other SAP Analytic Cloud users
- Use Comments to Enhance Collaboration within a Story

### Related Sections:

There are no related sections to Collaboration and Bookmarking.

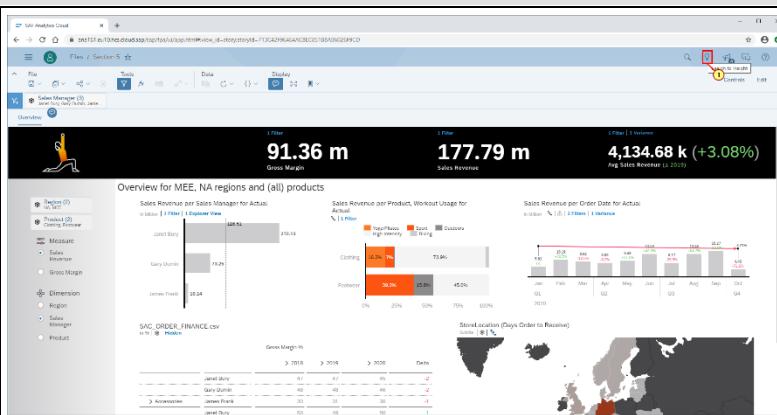
## Augmented Analytics: Smart Assist Features

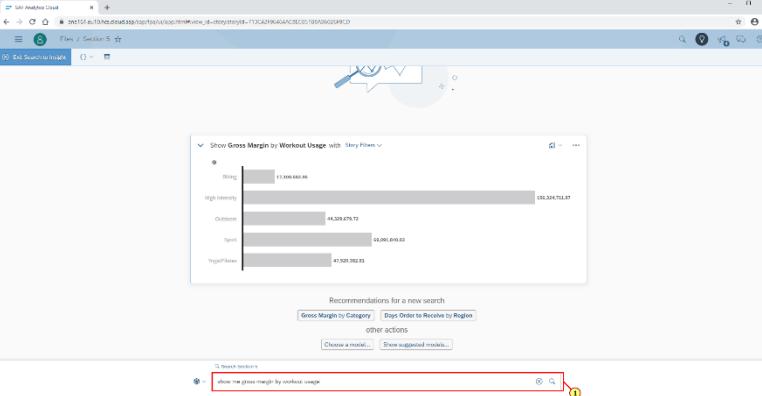
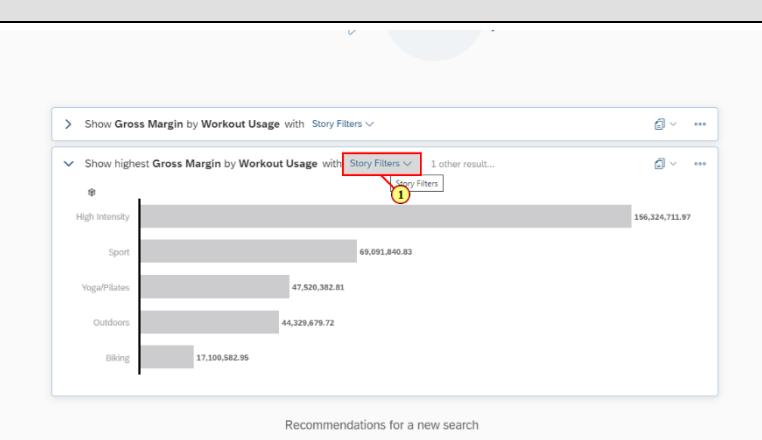
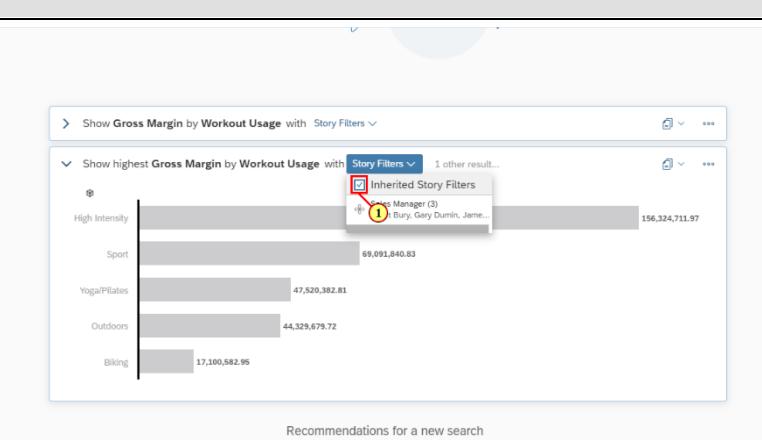
**Objective:** Use Natural Language Search (Search to Insight) to translate your questions into visualizations and understand how to run a Smart Discovery within SAP Analytics Cloud. Develop an understanding and purpose of the various pages that are created by Smart Discovery.

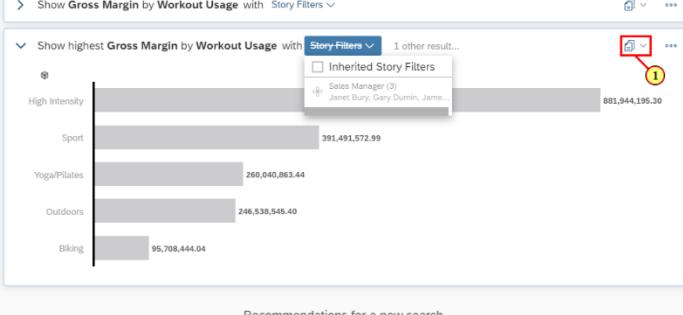
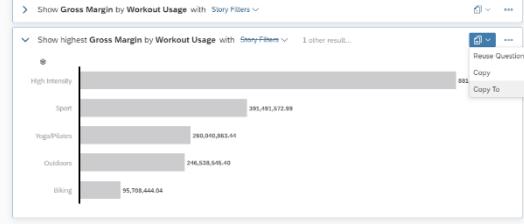
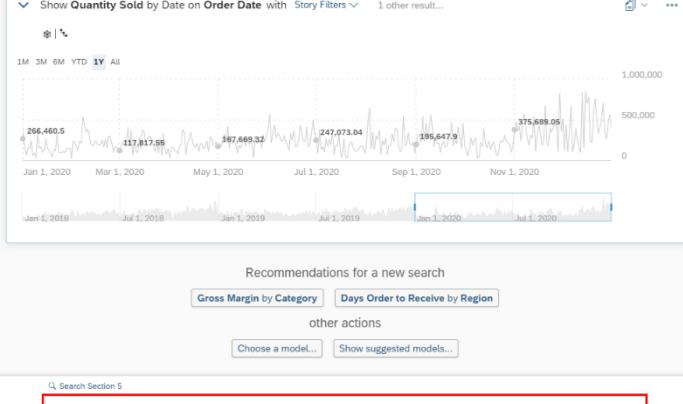
**Exercise Description:** You have quick questions about your finance and HR data and want to answer them using natural language search. Once SAP Analytics Cloud found the answer to your questions you want to use other smart features such smart insight, time series forecast and smart grouping to enhance the result. Once you create the visualization. Further you want to use Smart Discovery to have SAP Analytics cloud build an insightful story automatically for you.

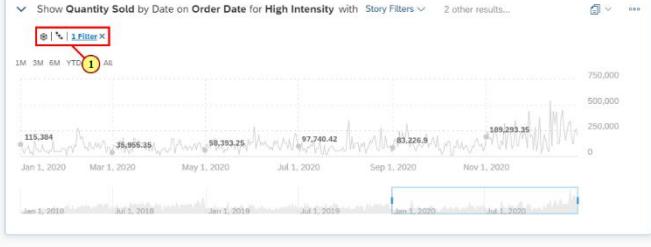
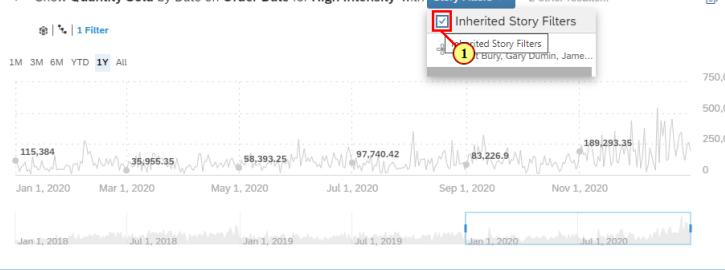
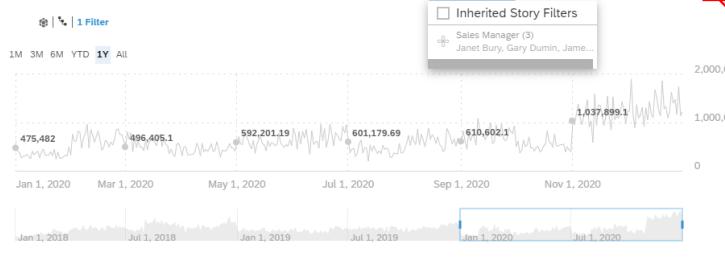
### Key Features:

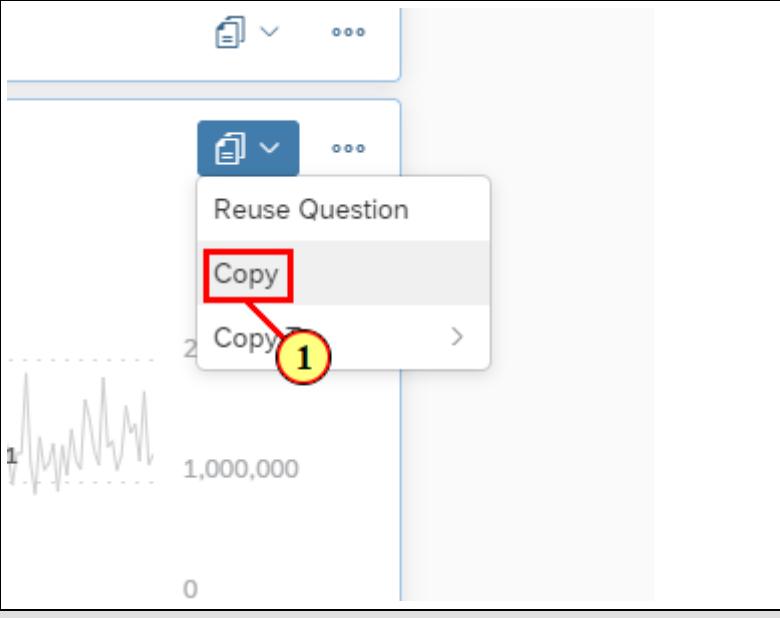
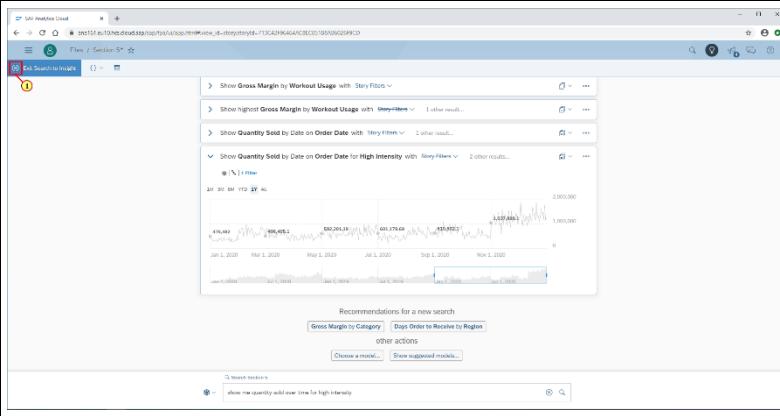
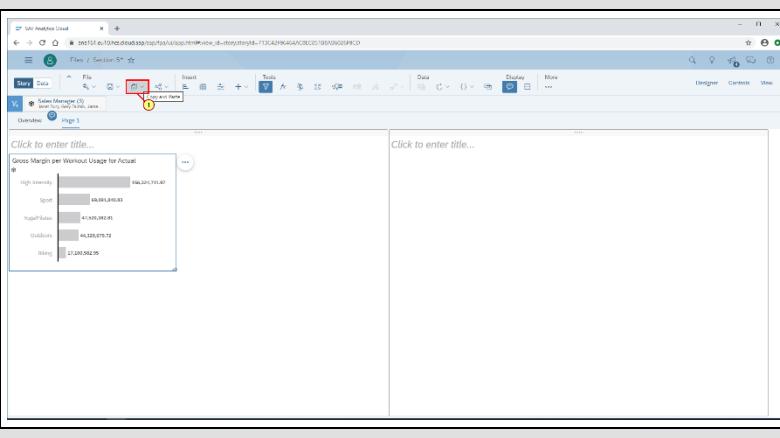
- Use Natural Language to Create Visualizations as you think them!
- Run a Smart Discovery
- Understand how Smart Insights can help you explain more of your data

Explanation	Screenshot
<b>SAP Analytics Cloud - Google Chrome</b>	
Welcome to the last section! In this section, we'll cover Search to Insight and Smart Insights and demonstrate how you can use these features to add meaningful information to your stories.  (1) To begin, click the Search to Insight button  .	

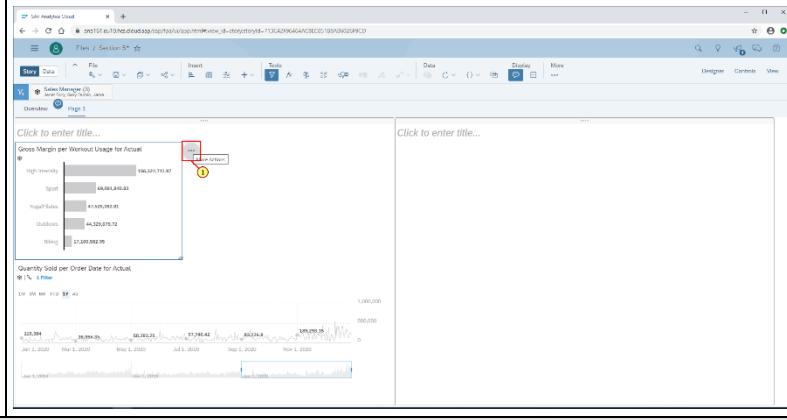
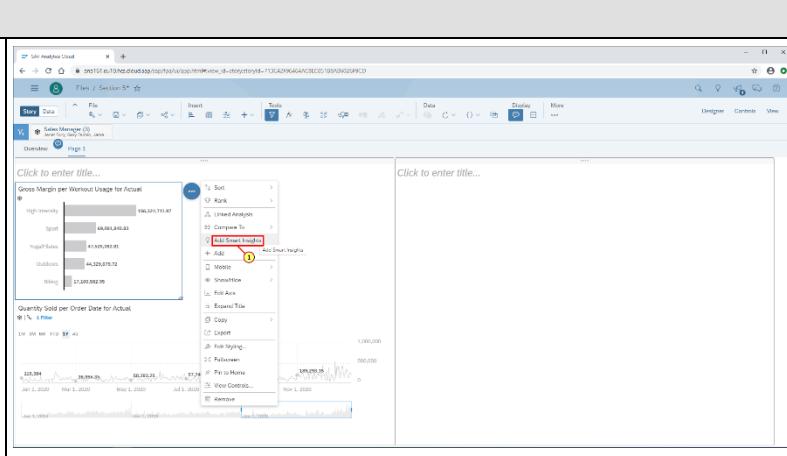
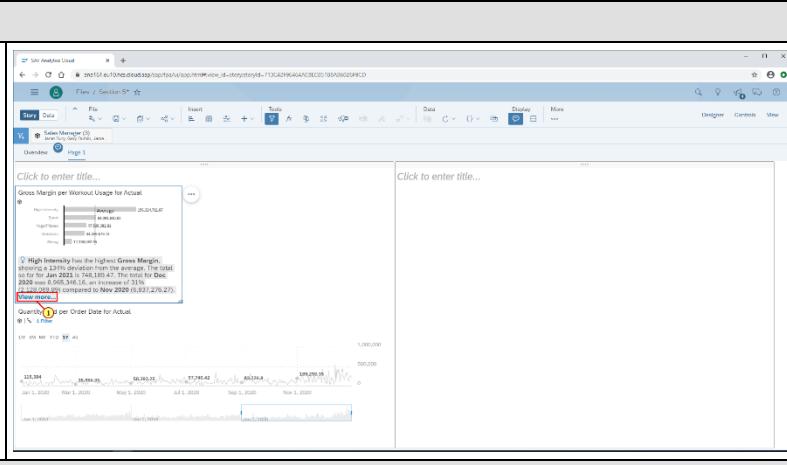
Explanation	Screenshot
(1) Type "show me gross margin by workout usage". Then update the message to "show me gross margin by workout usage highest first". This will sort the chart.	
SAP Analytics Cloud - Google Chrome	
(1) The smart insight automatically inherits the story filters. To change this, click <a href="#">Story Filters</a> .	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot												
(1) The chart will update. We want to copy this updated chart to a story page. To do so, click <b>Copy options</b>  .	 <p>Show Gross Margin by Workout Usage with Story Filters</p> <p>Show highest Gross Margin by Workout Usage with Story Filters 1 other result...</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>High Intensity</td><td>881,944,195.30</td></tr> <tr><td>Sport</td><td>391,491,572.99</td></tr> <tr><td>Yoga/Pilates</td><td>260,040,063.44</td></tr> <tr><td>Outdoors</td><td>246,538,545.40</td></tr> <tr><td>Biking</td><td>95,708,444.04</td></tr> </tbody> </table> <p>Recommendations for a new search</p> <p>Gross Margin by Category   Days Order to Receive by Region</p>	Category	Gross Margin	High Intensity	881,944,195.30	Sport	391,491,572.99	Yoga/Pilates	260,040,063.44	Outdoors	246,538,545.40	Biking	95,708,444.04
Category	Gross Margin												
High Intensity	881,944,195.30												
Sport	391,491,572.99												
Yoga/Pilates	260,040,063.44												
Outdoors	246,538,545.40												
Biking	95,708,444.04												
(1) Click <b>Copy to New Responsive Page</b> .	 <p>Show Gross Margin by Workout Usage with Story Filters</p> <p>Show highest Gross Margin by Workout Usage with Story Filters 1 other result...</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Gross Margin</th> </tr> </thead> <tbody> <tr><td>High Intensity</td><td>881,944,195.30</td></tr> <tr><td>Sport</td><td>391,491,572.99</td></tr> <tr><td>Yoga/Pilates</td><td>260,040,063.44</td></tr> <tr><td>Outdoors</td><td>246,538,545.40</td></tr> <tr><td>Biking</td><td>95,708,444.04</td></tr> </tbody> </table> <p>Recommendations for a new search</p> <p>Gross Margin by Category   Days Order to Receive by Region</p>	Category	Gross Margin	High Intensity	881,944,195.30	Sport	391,491,572.99	Yoga/Pilates	260,040,063.44	Outdoors	246,538,545.40	Biking	95,708,444.04
Category	Gross Margin												
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Yoga/Pilates	260,040,063.44												
Outdoors	246,538,545.40												
Biking	95,708,444.04												
(1) Start a new search. Type "show me quantity sold over time"	 <p>Show Quantity Sold by Date on Order Date with Story Filters 1 other result...</p> <p>1M 3M 6M YTD 1Y All</p> <p>206,480.5, 137,817.55, 267,669.32, 247,073.05, 195,647.9, 375,689.05</p> <p>Jan 1, 2020 Mar 1, 2020 May 1, 2020 Jul 1, 2020 Sep 1, 2020 Nov 1, 2020</p> <p>Jan 1, 2018 Jul 1, 2018 Jan 1, 2019 Jul 1, 2019 Jan 1, 2020 Jul 1, 2020</p> <p>Recommendations for a new search</p> <p>Gross Margin by Category   Days Order to Receive by Region</p> <p>other actions</p> <p>Choose a model... Show suggested models...</p> <p>Search Section 5</p> <p>show me quantity sold over time</p>												
SAP Analytics Cloud - Google Chrome													

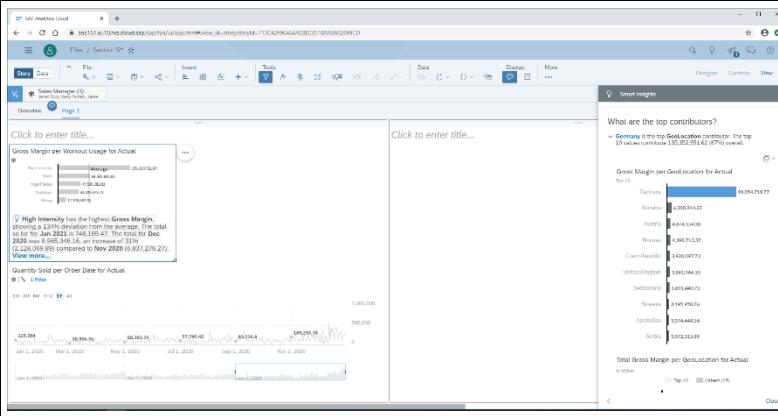
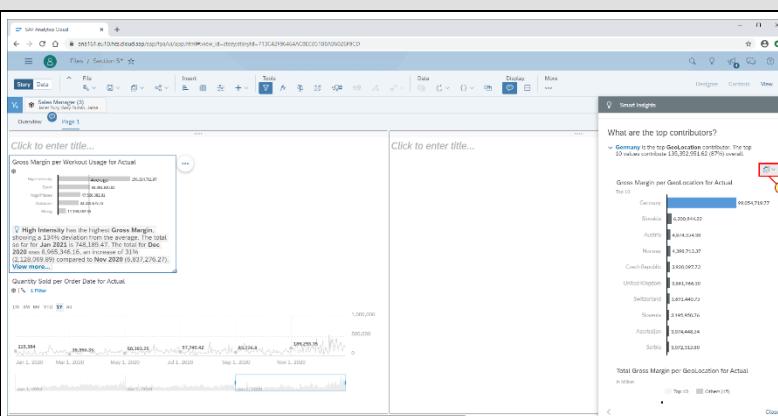
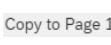
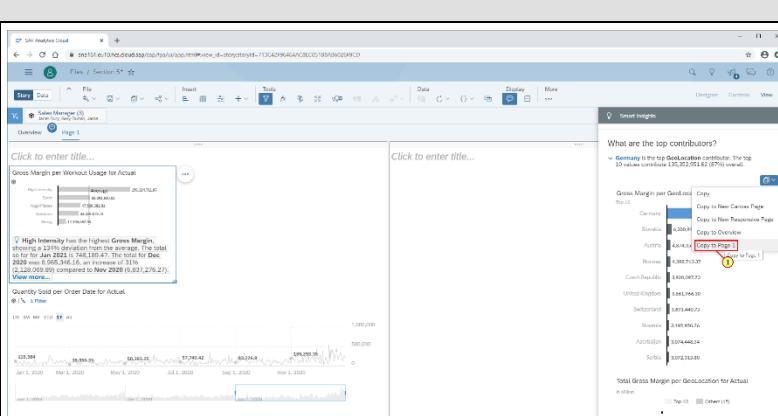
Explanation	Screenshot
(1) Note that similar to the last chart, this chart has also inherited the story filter. Let's remove it.	 <p>Recommendations for a new search  <input type="button" value="Gross Margin by Category"/> <input type="button" value="Days Order to Receive by Region"/>      other actions  <input type="button" value="Choose a model..."/> <input type="button" value="Show suggested models..."/></p> <p>Search Section 5  <input type="text" value="show me quantity sold over time for high intensity"/> <input type="button" value="X"/> <input type="button" value="Search"/></p>
SAP Analytics Cloud - Google Chrome  (1) Click <input type="button" value="Story Filters ▾"/> .	
(1) Uncheck Inherited Story Filters to remove the filter.	
(1) Let's copy this chart as well. Click <input type="button" value="Copy ▾"/> .	

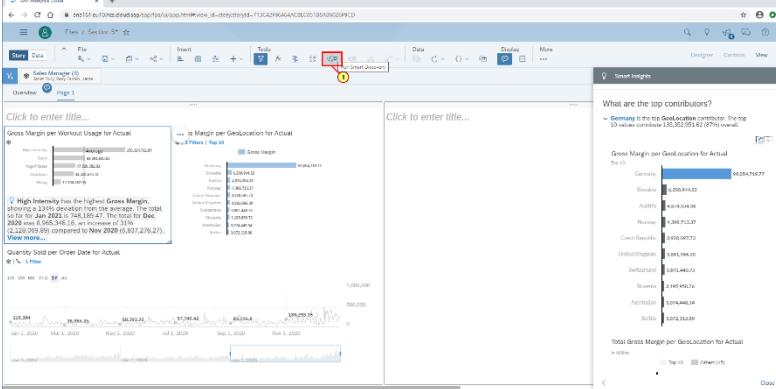
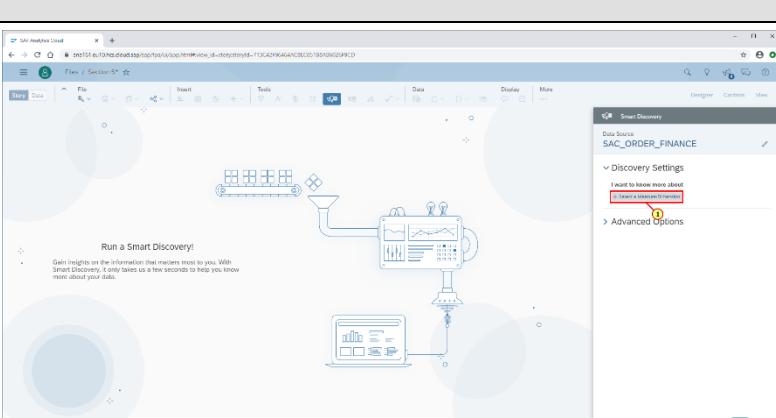
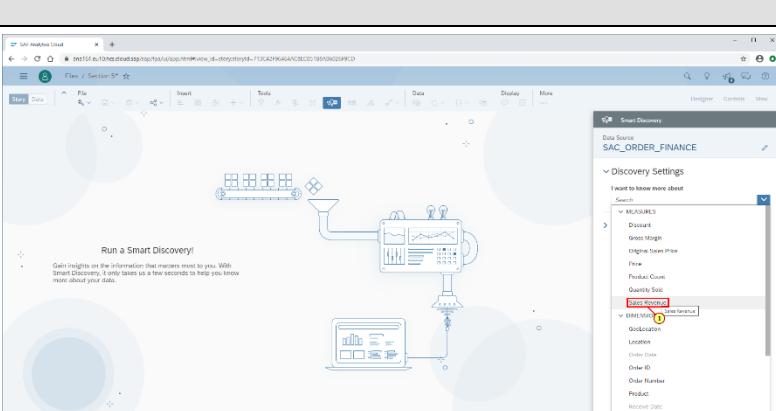
Explanation	Screenshot
(1) There is another way to copy charts. This time instead of <b>Copy To</b> , select <b>Copy</b> .	
SAP Analytics Cloud - Google Chrome	
(1) Exit Search to Insight by clicking  .	
SAP Analytics Cloud - Google Chrome	
(1) We're now taken to a new page, where the first chart we copied in Search to Insight is already visible. To paste the second chart we had copied click <b>Copy and Paste</b>  .	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click Paste (Ctrl+V)	<p>The screenshot shows the SAP Analytics Cloud ribbon with a context menu open. The 'Paste' option is highlighted with a red box and a yellow circle labeled '1'. Other options visible in the menu include 'Copy', 'Copy To', 'Duplicate', 'Paste Spec', and 'Paste' again.</p>
SAP Analytics Cloud - Google Chrome Quality Check! After pasting the chart, this is what your new page should look like	<p>Click to enter title... Gross Margin per Workout Usage for Actual  <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>      High Intensity: 44,381,810.83      Sprint: 44,381,810.83      High Pulse: 44,381,810.83      Endurance: 44,381,810.72      Total: 17,883,862.99</p> <p>Click to enter title... Quantity Sold per Order Date for Actual  <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>      Jan 1, 2020 Mar 1, 2020 May 1, 2020 Jul 1, 2020 Sep 1, 2020 Nov 1, 2020      125,384 20,980,295 56,183,295 97,741,442 85,264,4 329,295,9      1,000,000 500,000 0</p>
SAP Analytics Cloud - Google Chrome (1) Click here .	<p>Click to enter title... Gross Margin per Workout Usage for Actual  <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>      High Intensity: 44,381,810.83      Sprint: 44,381,810.83      High Pulse: 44,381,810.83      Endurance: 44,381,810.72      Total: 17,883,862.99</p> <p>Click to enter title... Quantity Sold per Order Date for Actual  <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>      Jan 1, 2020 Mar 1, 2020 May 1, 2020 Jul 1, 2020 Sep 1, 2020 Nov 1, 2020      125,384 20,980,295 56,183,295 97,741,442 85,264,4 329,295,9      1,000,000 500,000 0</p>
SAP Analytics Cloud - Google Chrome	

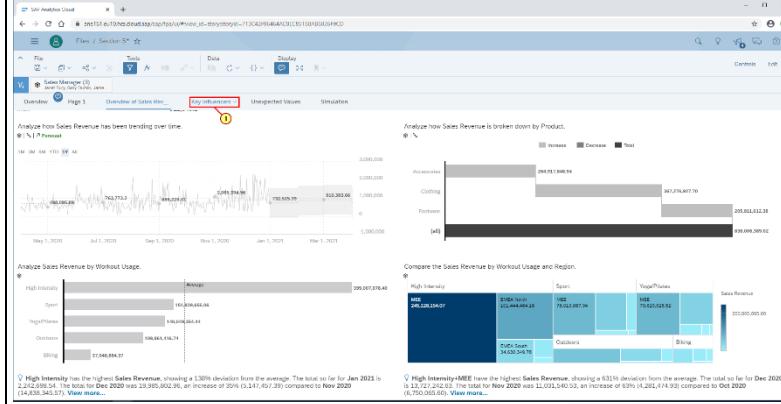
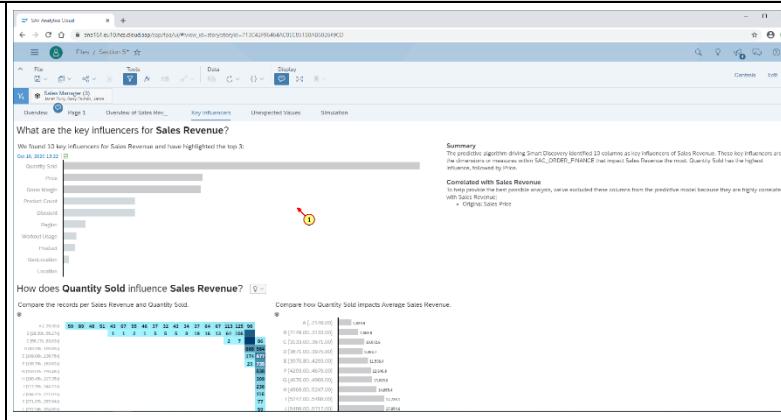
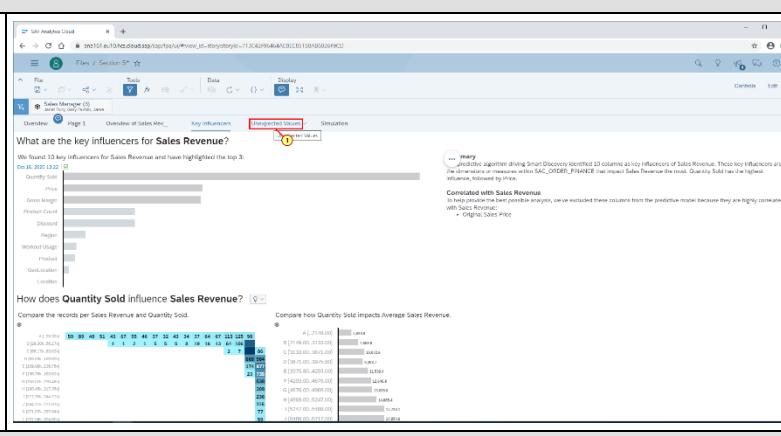
Explanation	Screenshot
(1) Click 	 A screenshot of the SAP Analytics Cloud interface. A context menu is open over a bar chart titled 'Gross Margin per Workout Usage for Actual'. The menu has 'Add Smart Insights' highlighted with a red box and a yellow circle. Other options in the menu include Sort, Unified Analytics, Compare To, Add, Model, Smoothing, Use As Axis, Copy, Export, Print, Reference, Go to Home, and Remove.
SAP Analytics Cloud - Google Chrome (1) Click Add Smart Insights.	 A screenshot of the SAP Analytics Cloud interface, identical to the previous one but with the 'Add Smart Insights' option now being clicked, as indicated by a mouse cursor on the menu item.
(1) Click View more... <a href="#">View more...</a>	 A screenshot of the SAP Analytics Cloud interface. The 'Add Smart Insights' menu is still open, and the 'View more...' link under the 'View more...' section of the chart's description is highlighted with a red box and a yellow circle. The description text reads: 'High Intensity has the highest Gross Margin, showing a 23% deviation from the average. The total us for Jan 2020 is 748,180.47. The total for Dec 2020 is 583,276.27. The total for Mar 2020 is 583,276.27 compared to Nov 2020 (583,276.27)'.
SAP Analytics Cloud - Google Chrome	

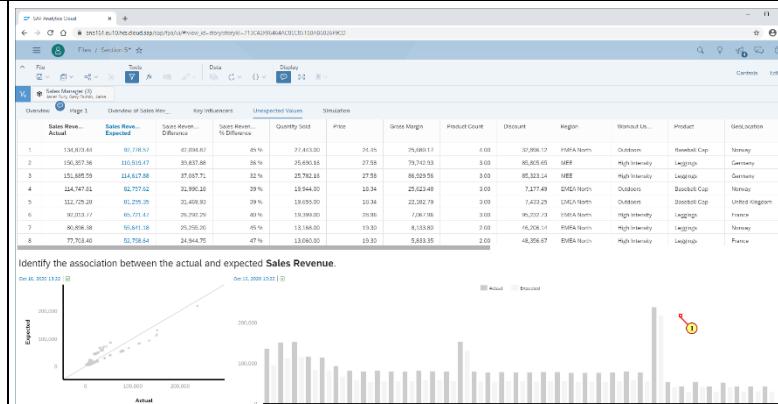
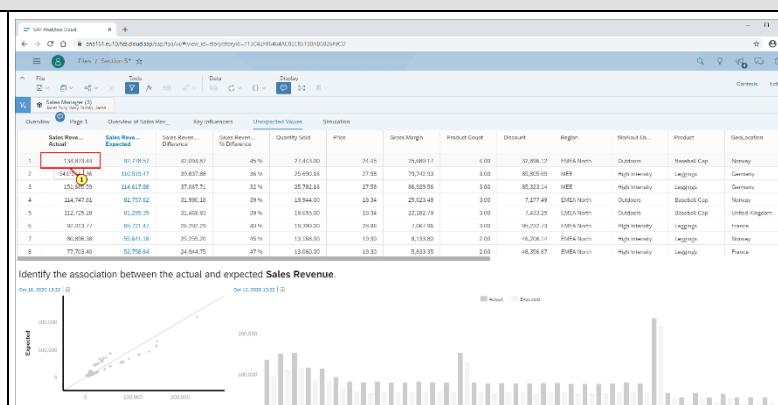
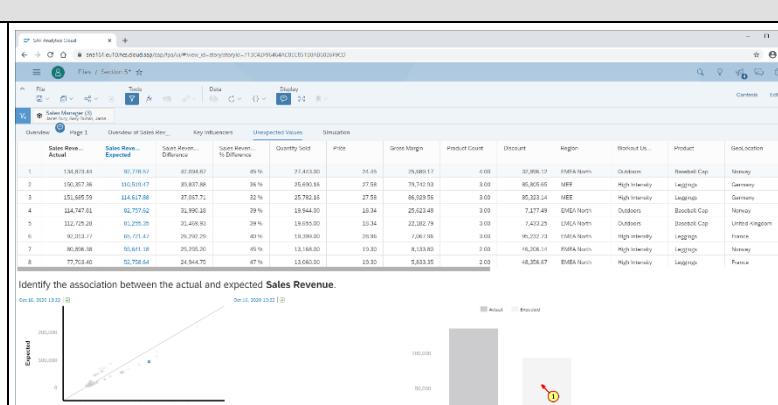
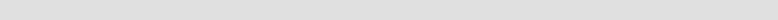
Explanation	Screenshot
(1) Click here .	
SAP Analytics Cloud - Google Chrome	
(1) Click > .	
SAP Analytics Cloud - Google Chrome	

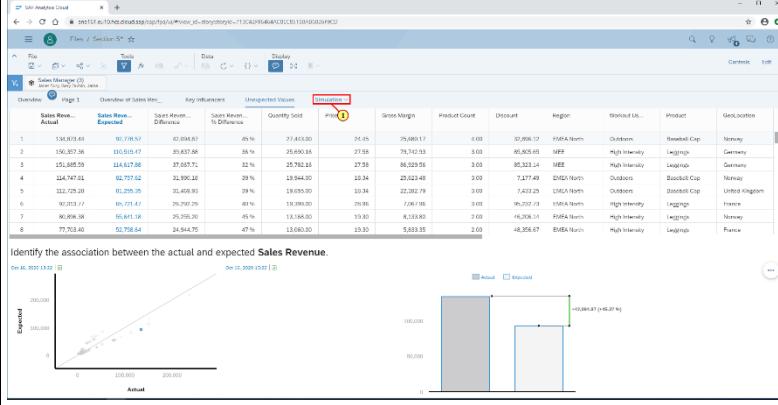
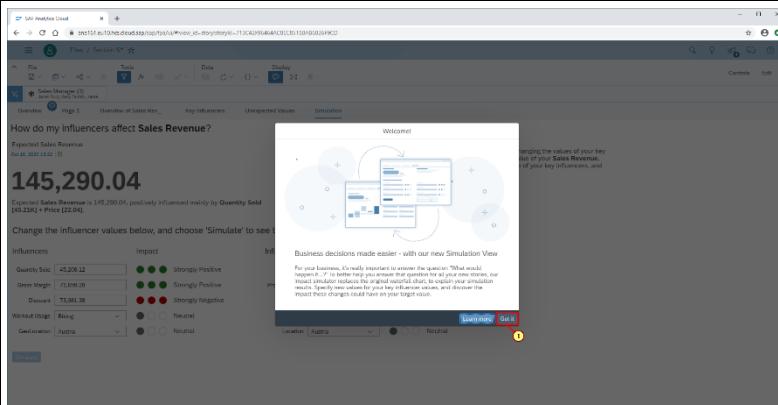
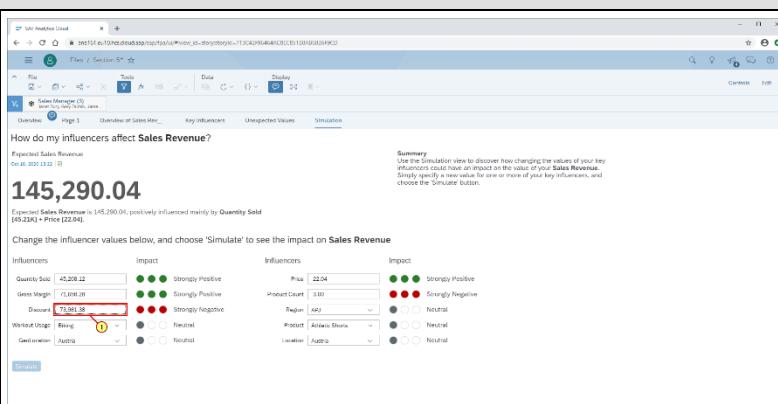
Explanation	Screenshot
	
SAP Analytics Cloud - Google Chrome	
(1) Click 	
SAP Analytics Cloud - Google Chrome	
(1) Click 	
SAP Analytics Cloud - Google Chrome	

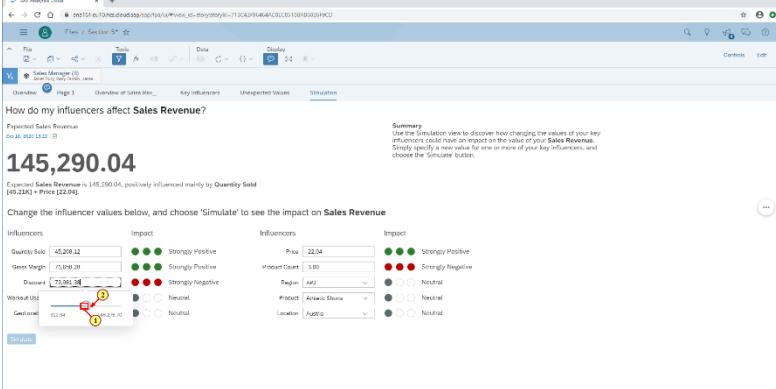
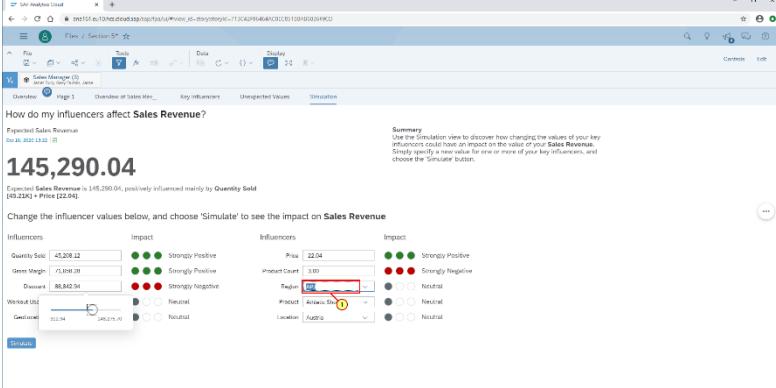
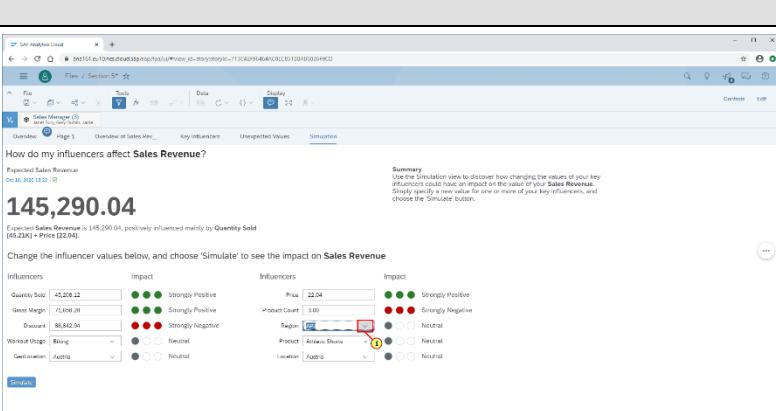
Explanation	Screenshot
(1) Click Run Smart Discovery 	
SAP Analytics Cloud - Google Chrome	
(1) Click Sales Revenue 	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click Run <b>Run</b> .	
SAP Analytics Cloud - Google Chrome (1) Click here .	
(1) Scroll Mouse wheel down to bring the screen to desired location	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Click <a href="#">Key Influencers</a> .	
(1) Click here .	
(1) Click <a href="#">Unexpected Values</a> .	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Scroll Mouse wheel down to bring the screen to desired location	 <p>The screenshot shows a table titled "Sales Manager (3) Sales Revenue - Actual vs Expected". A red arrow points to the mouse scroll wheel, indicating it should be used to scroll the page.</p>
(1) Click <span style="border: 1px solid black; padding: 2px;">134,873.44</span>	 <p>The screenshot shows the same table. A red box highlights the value "134,873.44" in the "Sales Rev. - Actual" column of the first row. A red arrow points to the click on this value.</p>
(1) Click here .	 <p>The screenshot shows the same table. A red box highlights the value "134,873.44" in the "Sales Rev. - Actual" column of the first row. A red arrow points to the click on this value.</p>
SAP Analytics Cloud - Google Chrome	 <p>The screenshot shows the same table. A red box highlights the value "134,873.44" in the "Sales Rev. - Actual" column of the first row. A red arrow points to the click on this value.</p>

Explanation	Screenshot
(1) Click <b>Simulation</b> .	
SAP Analytics Cloud - Google Chrome	
(1) Click <b>Got it</b> .	
SAP Analytics Cloud - Google Chrome	

Explanation	Screenshot
(1) Drag  .	 <p>145,290.04</p>
(2) Drop on .	
(1) The  field is filled out.	 <p>145,290.04</p>
(1) Click <b>Select Options</b>  .	 <p>145,290.04</p>

Explanation	Screenshot
(1) The field is filled out.	
(1) Click <b>Simulate</b> .	
138,663.38 -5%	

## Summary

You have completed the exercise!

You are now able to:

- Use Natural Language to Create Visualizations as you think them!
- Run a Smart Discovery
- Understand how Smart Insights can help you explain more of your data

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THE BEST RUN

