



EDUNET FOUNDATION-Class Exercise Notebook

3.4 Practical- Explore the Inbuilt Best Run Juice Data source

To create the story, we need to use some data sources, Let's used inbuild sample Best Run Juice data source as of now.

Step-1: Home Page

1. Go to the SAC home page.
2. Click on **Files** option under the Navigation Bar.

The screenshot shows the SAP Home page. On the left, there is a vertical navigation bar with various icons. The 'Files' icon, which is a folder with a document inside, is highlighted with a red arrow pointing to it. Above the navigation bar, there are links for 'Today', 'Catalog', 'Favorites', and 'Shared With Me'. At the top right, there is a message 'Trial ends in 14 days' and a 'Buy Now' button. Below the navigation bar, the main content area displays a greeting 'Hello, AMOL!', a search bar, and several cards. One card shows 'Recent Stories' with items like 'SAP_FI_GEN_FINPERFORMANCE' and 'SAP_FI_GEN_FINANCE'. Another card shows 'Recent Analytic Applications' with 'Performance Analysis Tool' and 'System Overview'. A third card displays a large green number '28.47' with the text 'Sample numeric point chart' and 'Gross margin %'.

Step-2: Selection of the Directory

1. Click on **Samples** option.



The screenshot shows the SAP FIORI Launchpad interface. On the left, there is a sidebar with various icons and sections: Home, Views, Favorites, Featured Files, System, and Deleted Files. The 'My Files' section is currently selected. In the main area, there is a table with columns: Name, Description, Type, Owner, Created On, Changed By, and Cl. There are four entries: 'Input Forms' (Folder), 'Public' (Folder), 'SAC Content' (Folder), and 'Samples' (Folder). The 'Samples' row is highlighted with a red border.

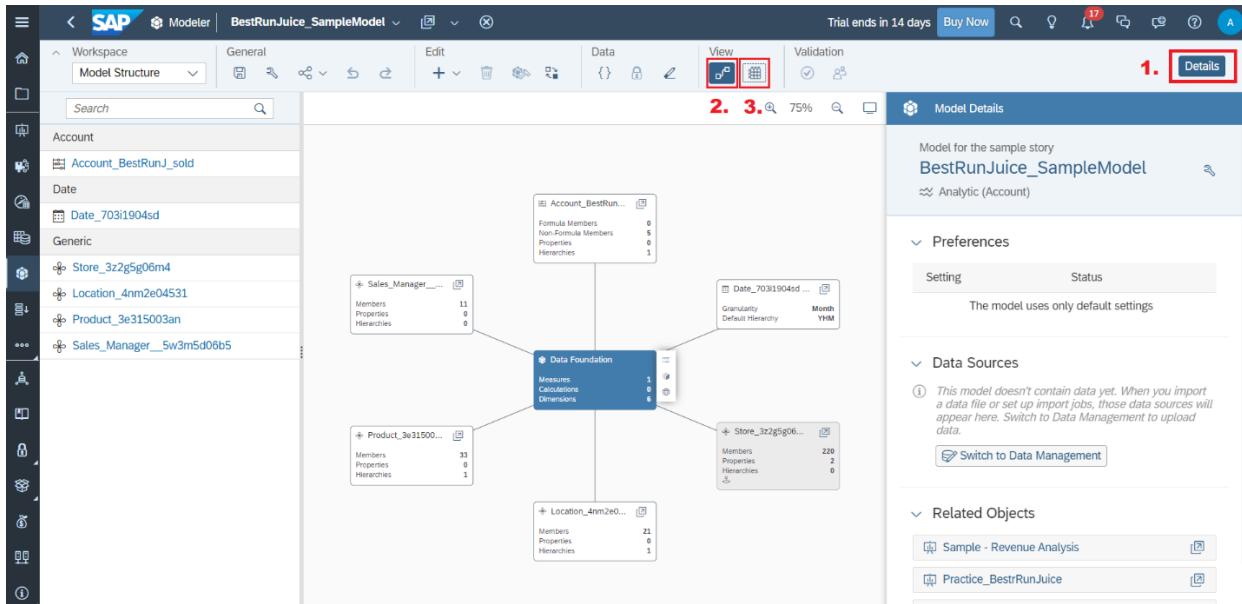
2. Click on BestRunJuice_sample model.

The screenshot shows the SAP FIORI Launchpad interface, similar to the previous one but with the 'Samples' folder expanded. The 'Samples' folder now contains several items, including 'BestRunJuice_SampleModel', 'Boardroom', 'Dashboard', 'Planned_Events_Sample', 'Present', 'Presentation - Responsive', 'Report', 'Report (A4)', and 'Sample - Revenue Analysis'. The 'BestRunJuice_SampleModel' item is highlighted with a red border.

Step-3: Display the data in Tabular Format

1. Clicked on **Details** option to get the information about the model details clicked on number **1.** as shown in fig.
2. Model structure is visible now in workspace. To toggle the model structure clicked on number **2.** as shown in fig.

3. Now to see the data in tabular format clicked on number **3.** as shown in fig.



Step-4: Exploring the dataset

1. All the details about the model are displayed on left hand side at number **1.**
There are different terms like Account, Date and Generic. Now, let's look at each dimension type in a little more detail.
 - a. **Account:** A dimension with financial accounts. There is only one account in each model should be select.
 - b. **Date:** A built in dimension that define the start and end dated of model's timeline and specifies the granularity of time used in the model (years, quarters, month, weeks, or days)
 - c. **Generic:** A dimension that define the secondary data like location, product, stores etc. Multiple hierarchy can be added.
2. There is total 2,71,300 rows are available in the model.
3. All the detailed information about each column is shown with green colour box.



Account	Date	Store	Location	Product	Sales Manager	Values
Account_BestRunJ_sold	201401	ST60	CT1	PD1	SM1	222.3061294
Date	201401	ST56	CT1	PD1	SM1	232.8921356
Date_703i1904sd	201401	ST94	CT1	PD1	SM1	1048.0146101
Generic	201401	ST73	CT1	PD1	SM2	603.4023513
Store_3z2g5g06m4	201401	ST102	CT1	PD1	SM3	87.3345508
Location_4nm2e04531	201401	ST58	CT1	PD1	SM3	381.0962219
Product_3e315003an	201401	ST68	CT1	PD1	SM4	182.6086063
Sales_Manager_5w3m5d06b5	201401	ST65	CT1	PD1	SM8	138.9413309
	201401	ST108	CT1	PD1	SM9	285.8221664
	201401	ST56	CT1	PD10	SM1	24650.3365985
	201401	ST94	CT1	PD10	SM1	68835.2490955
	201401	ST75	CT1	PD10	SM10	111002.3548114
	201401	ST70	CT1	PD10	SM3	50468.1513801
	201401	ST68	CT1	PD10	SM4	51267.9198992
	201401	ST106	CT1	PD10	SM5	992.8160927
	201401	ST62	CT1	PD10	SM5	19093.3243017

Step-5: Detailing of features

1. To explore more about the Account clicked on the **Account_BestRunJ_sold** option.

Account	Date	Store	Location	Product	Sales Manager	Values
Account_BestRunJ_sold	201401	ST60	CT1	PD1	SM1	222.3061294
Date	201401	ST56	CT1	PD1	SM1	232.8921356
Date_703i1904sd	201401	ST94	CT1	PD1	SM1	1048.0146101
Generic	201401	ST73	CT1	PD1	SM2	603.4023513
Store_3z2g5g06m4	201401	ST102	CT1	PD1	SM3	87.3345508
Location_4nm2e04531	201401	ST58	CT1	PD1	SM3	381.0962219
Product_3e315003an	201401	ST68	CT1	PD1	SM4	182.6086063
Sales_Manager_5w3m5d06b5	201401	ST65	CT1	PD1	SM8	138.9413309
	201401	ST108	CT1	PD1	SM9	285.8221664
	201401	ST56	CT1	PD10	SM1	24650.3365985
	201401	ST94	CT1	PD10	SM1	68835.2490955
	201401	ST75	CT1	PD10	SM10	111002.3548114
	201401	ST70	CT1	PD10	SM3	50468.1513801
	201401	ST68	CT1	PD10	SM4	51267.9198992
	201401	ST106	CT1	PD10	SM5	992.8160927
	201401	ST62	CT1	PD10	SM5	19093.3243017

2. There is total 5 unique dimensions are available i.e., Discount, Gross Margin, Original Sales Price, fixed Price and Quantity sold referred the fig. Similarly, you can explore for rest of the dimensions.

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Member ID	Description	Aggregation Type	Account Type	Formula	Hierarchy
Discount	Discount				<root>
Gross_Margin	Gross Margin				<root>
Original_Sales_Price	Original Sales Price				<root>
Price_fixed_	Price (fixed)				<root>
Quantity_sold	Quantity sold				<root>

Now you got idea about the data source, let's start with 2nd lab.



3.5 Practical - Get Started with Optimized Story Design

Step-1: Homepage

1. Go to the SAC trail account
2. A simple way to create a story is to use the **Navigation bar** and select **Stories**.

The screenshot shows the SAP Home page. On the left is the SAP navigation bar with icons for Home, Today, Catalog, Favorites, and Shared With Me. A red arrow points to the 'Today' icon. The main content area features a large 'Hello, AMOL!' greeting. Below it is a search bar with 'Ask a question' placeholder text and a magnifying glass icon. The page is divided into several sections: 'Recent Stories' (listing items like 'SAP_FI_GEN_FINPERFORMANCE' and 'SAP_FI_GEN_FINANCE'), 'Recent Analytic Applications' (listing 'Performance Analysis Tool' and 'System Overview'), and a large green box displaying a 'Sample numeric point chart' with the value '28.47' and 'Gross margin %'. At the bottom left, there's a 'Sample bar chart' with 'Gross Margin USD'.

Step-2: Directory to create Story

1. Click on **Responsive** option



Welcome to Stories

Create a story to visualize, summarize, explore, and monitor your data. Add charts, tables, text, and other objects, and share your findings with your team. [Learn More...](#)

Stories Bookmarks Custom Widgets

Create New

- Responsive (highlighted)
- Canvas
- Grid
- From a Smart Discovery

Templates

- Presentation - Responsive
- Report
- Dashboard
- Report (A4)
- Present

Recent Files (19)

Name	Description	Created By	Created On	Changed By	Changed On
SAP_FI_GEN_FINPERFORMANCE	SAP Finance: General - Financial Performance	AMOL	Mar 29, 2023 18:...	AMOL	Mar 29, 2023...
... / SAP_Content / SAP_FI_Finance					

2. Select Optimized Design Experience

Select Design Mode Type

What design mode would you like to use?

Optimized Design Experience

The Optimized Design mode provides an improved experience when designing dashboards. This mode has some useful new features, but it does not include all the features that are currently supported in the Classic Design mode.

[Learn More](#)

Classic Design Experience

The Classic Design mode provides all the existing features and functionality you may have already used in SAP Analytics Cloud.

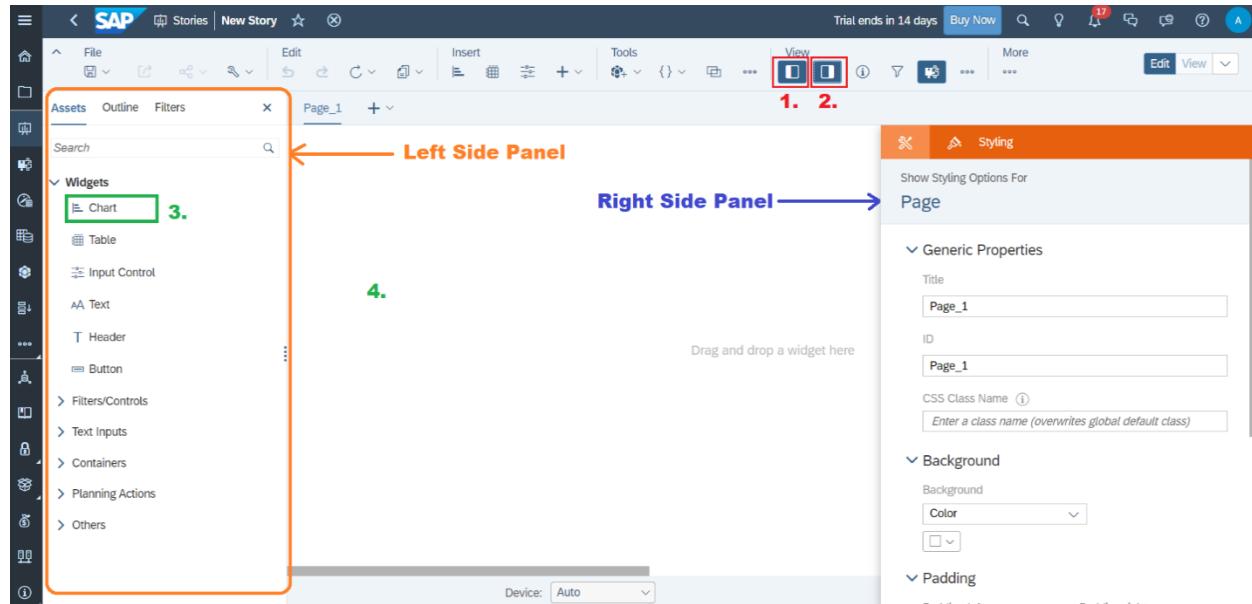
[Create](#) [Cancel](#)

Congratulations!!!, you have successfully created story. Now it's time to insert different charts. Let's begin with the 3rd Lab.

3.6 Practical - Get Started with Bar Chart and it's styling

Step-1: User Interface of stories

After selecting **Optimized Design Experience** Option User Interface will look fig show below:



There are two panels available i.e., left-side and right-side panel.

1. To toggle left side panel, click on number **1.** shown in fig
2. To toggle right side panel, click on number **2.** shown in fig
3. Drag the **Chart** option
4. Drop that Chart in workspace at number **4.**

Step-2: Directory for selecting Model

1. Click on **Samples** Option.



The screenshot shows the SAP Fiori Launchpad interface. A central dialog box titled "Select Dataset or Model" is open. On the left, there's a sidebar with "Assets", "Outline", and "Filters". Under "Widgets", "Chart" is selected. The main area shows "My Files" with a list of items: "Public", "SAC Content", and "Samples". The "Samples" item is highlighted with a red border. At the bottom right of the dialog is a "Cancel" button.

2. Click on **BestRunJuice_Sample Model**.

This screenshot is similar to the one above, showing the "Select Dataset or Model" dialog. The "Samples" folder is expanded, revealing two items: "BestRunJuice_Sample Model" and "Planned_Events_Sam...". The "BestRunJuice_Sample Model" item is highlighted with a red border. The "Cancel" button is visible at the bottom right.

Step-3: Plotting Bar Chart

On the left side panel, drag and drop the chart option on the workspace. Then from left hand pop up will appear called as Builder, if it is not appeared then toggle on right side panel. Let's select the option as per following steps:

1. Select the **Bar column** Option under the Currently Selected Chart.
2. Select the chart orientation as **Vertical**.
3. Click on the **Add Account** option and select **Gross Margin**. Any option can be select under the account, but we selected Gross Margin as of now.

- Under the dimension we want to know about the gross margin on the product, since **Product** is selected.

The screenshot shows the SAP Fiori Launchpad interface. On the left, there's a sidebar with 'Assets', 'Outline', and 'Filters'. In the center, there's a page titled 'Page_1'. On the right, the 'Builder' view is open for a chart named 'BestRunJuice_Sa...'. The 'Currently Selected Chart' dropdown is set to 'Bar/Column'. The 'Chart Orientation' dropdown is set to 'Horizontal'. Under 'Accounts', there's a note: '+ At least 1 Account required'. Under 'Dimensions', there's a note: '+ Add Dimension'. Under 'Color', there's a note: '+ Add Dimension/Account' with a color palette. A 'Filters' section is also present. The main area shows a placeholder for a chart with the title 'Title'.

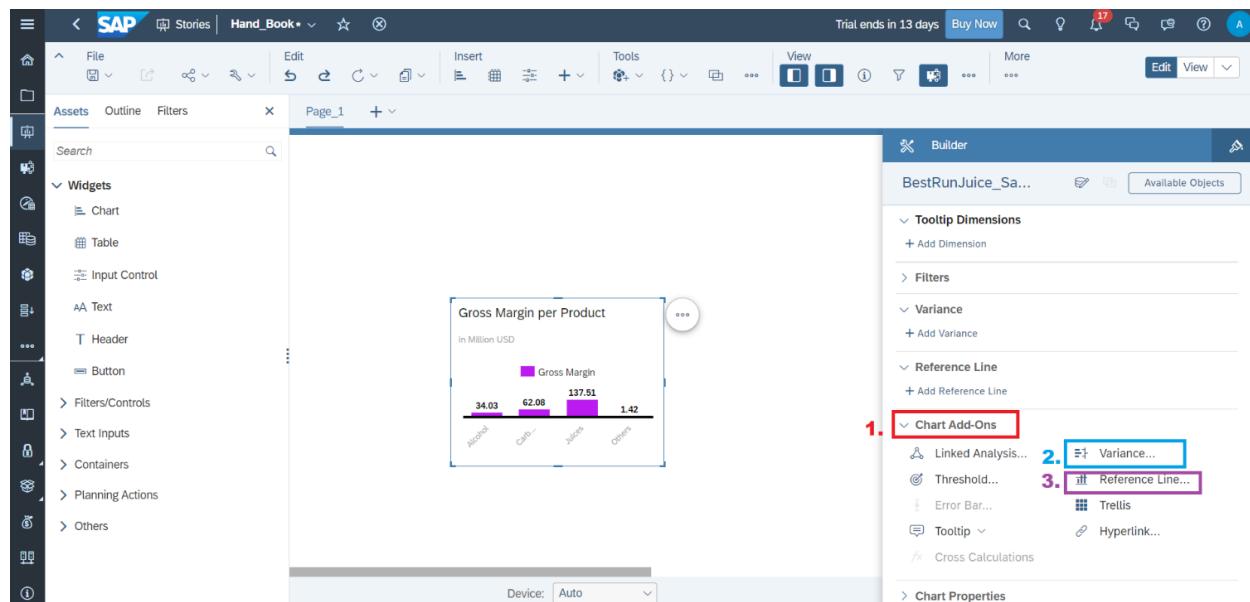
The screenshot shows the SAP Fiori Launchpad interface again. The 'Builder' view is still open, but now it shows a completed bar chart titled 'Gross Margin per Product' with the subtitle 'In Million USD'. The chart has four bars representing different products: Alcohol (34.03), Cappuccino (62.08), Juices (137.51), and Omelet (1.42). The 'Dimensions' section in the builder now lists 'Product'.

- After selecting all the required option very beautiful bar char is plot on page. It's very clear from the bar chart that high gross margin is on the Juices, refer the fig.

Step-4: Explore Chart Adds-on

Let's explore more about the Chart Adds-on option.

1. Click on **Chart Adds-on** option.
2. Let's explore Variance
3. Let's explore the Reference line

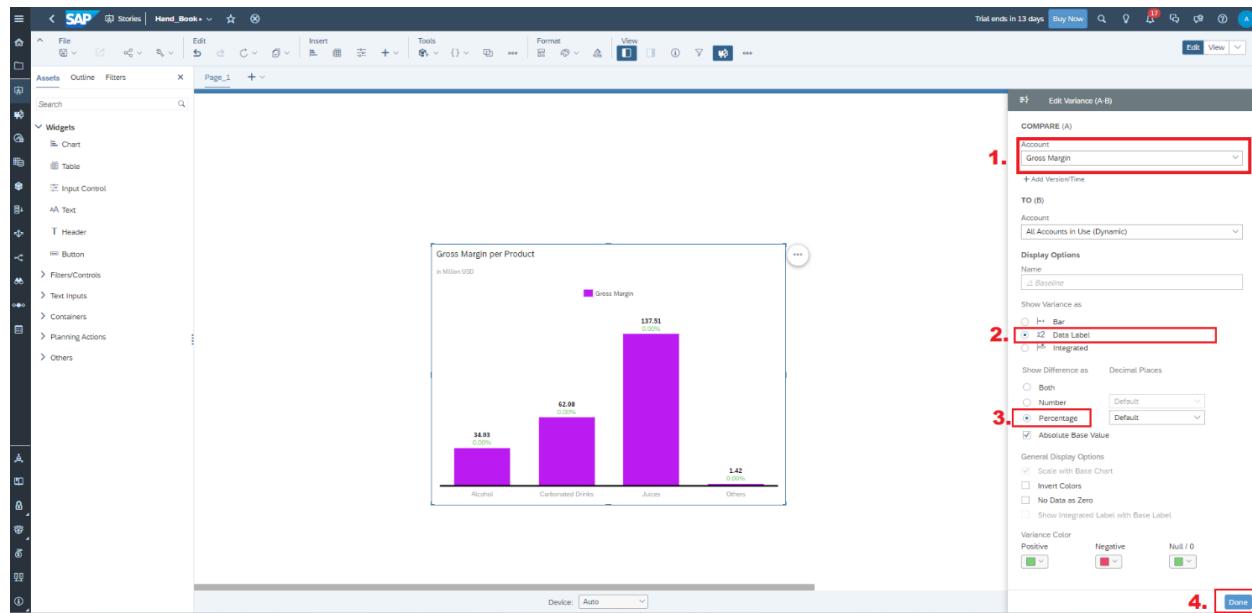


Step-5: Explore Variance

Click on the **Variance** Option. Next, select the appropriate options as follows:

1. Select the **Gross Margin** under the Account Section.
2. Choose **Data Label** option.
3. Choose **Percentage** option.
4. Click on **Done**

After this, you will see the green colour label appeared on the top of each bar in percentage.



Step-6: Explore Reference Line

Now Let's discuss about the reference line.

1. Click on **Dynamic** Button under Type.
2. Select **Gross Margin** under Account section.
3. Select the **Average excl. Null** Option under the Aggregation section.
4. Click on **Done**

See In the Bar Chart Reference line is appear. The significance of this line is to get the insights that how the data is deviated from the mean. In this chart Gross Margin for the Juices is above the average.



The screenshot shows the SAP Fiori Launchpad interface. On the left, there's a sidebar with various widget options like Chart, Table, Input Control, etc. In the center, there's a bar chart titled "Gross Margin per Product" with data for Alcohol, Carbonated Dr., Juices, and Others. A red arrow points from the "Done" button in the dialog to the chart area. The dialog itself is titled "Create Reference Line" and contains the following steps:

- Type: Dynamic (highlighted with a red box)
- Account: Gross Margin (highlighted with a red box)
- Aggregation: Average excl. NULL (highlighted with a red box)
- Done (highlighted with a red box)

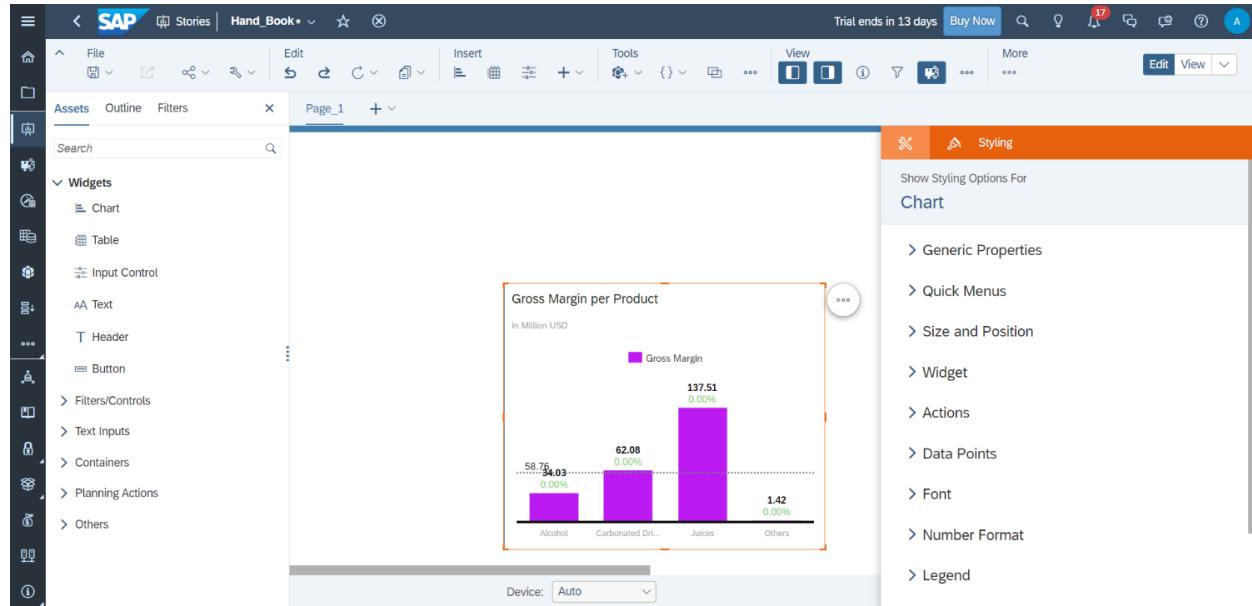
Step-7: Styling of Charts

- Now let's look at the styling part. For styling click on the brush icon shown in the fig.

The screenshot shows the SAP Fiori Launchpad interface with the "Builder" dialog open. The "Builder" tab is highlighted with a red box. The dialog contains the following sections:

- Currently Selected Chart:** Bar/Column
- Chart Orientation:** Vertical
- Accounts:** Gross Margin (highlighted with a red box)
- Dimensions:** Product
- Color:** Accounts (highlighted with a red box)

- There are different styling options available like Generic properties, Quick Menus, Size and Position and so on.



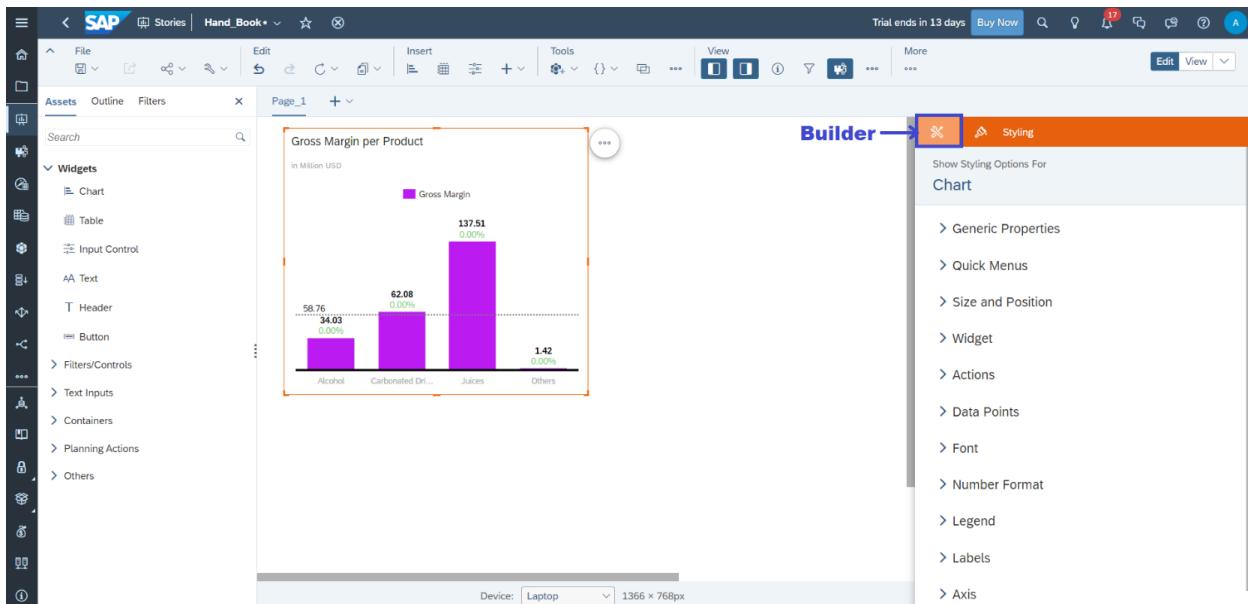
It's very simple to customize the styles as per requirement like Font, Number format, Legend etc. To save the story press **Ctrl+S**.

Now let's take look at the creating line chart.

3.7 Practical - Get Started with Line Chart

Step-1: Back to Builder

1. Click on the **Builder** option.



Step-2: Plotting of Line Chart

Now to create line chart refer the fig. And follow the following steps:

1. First select the bar chart then copy the Bar chart by pressing **Ctrl+C** or right click and select **Copy** option.
2. Then paste the chart at number **2.** by pressing **Ctrl+V**.
3. Select the **Line** Option under Currently Selected chart.

Now you will see line chart, even you don't have to add reference line. Keep the rest of the thing as it is. If you want to see gross margin per product as per the year and month, in that case need to change the dimensions.

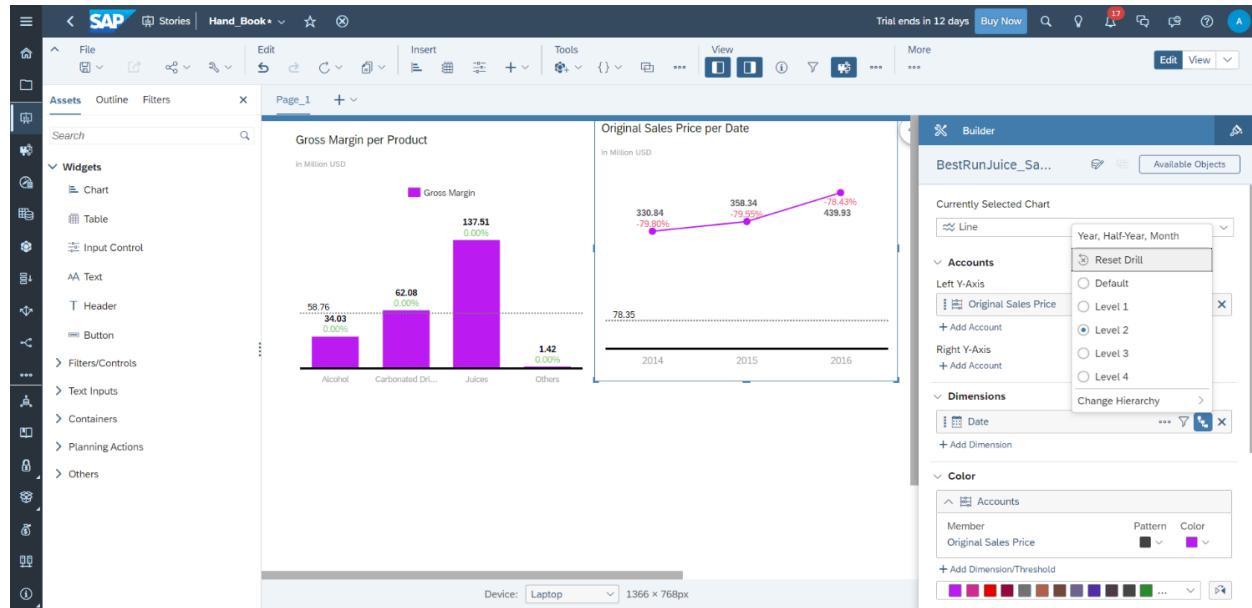
The screenshot shows the SAP Fiori Launchpad interface. On the left, there's a sidebar with various widget options like Chart, Table, Input Control, etc. Two charts are displayed on the main screen: a bar chart titled 'Gross Margin per Product' and a line chart with the same title. The line chart's legend entry 'Line' is highlighted with a red box. In the bottom right corner, the 'Builder' panel is open, showing the configuration for the currently selected chart. The 'Dimensions' section has 'Product' selected under 'Accounts'. A red box highlights the 'Line' entry in the 'Currently Selected Chart' dropdown.

Step-3: Change Hierarchy for Date

1. Select the **Date** option under dimensions
2. Click on the blue icon at number **2**.
3. There is total 4 levels by which we can change the hierarchy as of now select Level 2.

This screenshot shows the SAP Fiori Launchpad interface with the 'Builder' panel open. The 'Dimensions' section is highlighted with a red box. Under 'Dimensions', 'Date' is selected. To the right, there's a 'Hierarchy' section with four radio buttons: 'Default', 'Level 1', 'Level 2' (which is selected and highlighted with a red box), and 'Level 3'. A red box also highlights the 'Level 2' radio button. Other sections visible include 'Accounts' (with 'Original Sales Price' selected), 'Color' (with 'Original Sales Price' selected), and 'Filters' (with 'Actual' selected).

4. See you have crated the line chart yearly. Now you can customize the dimensions as per your requirements.



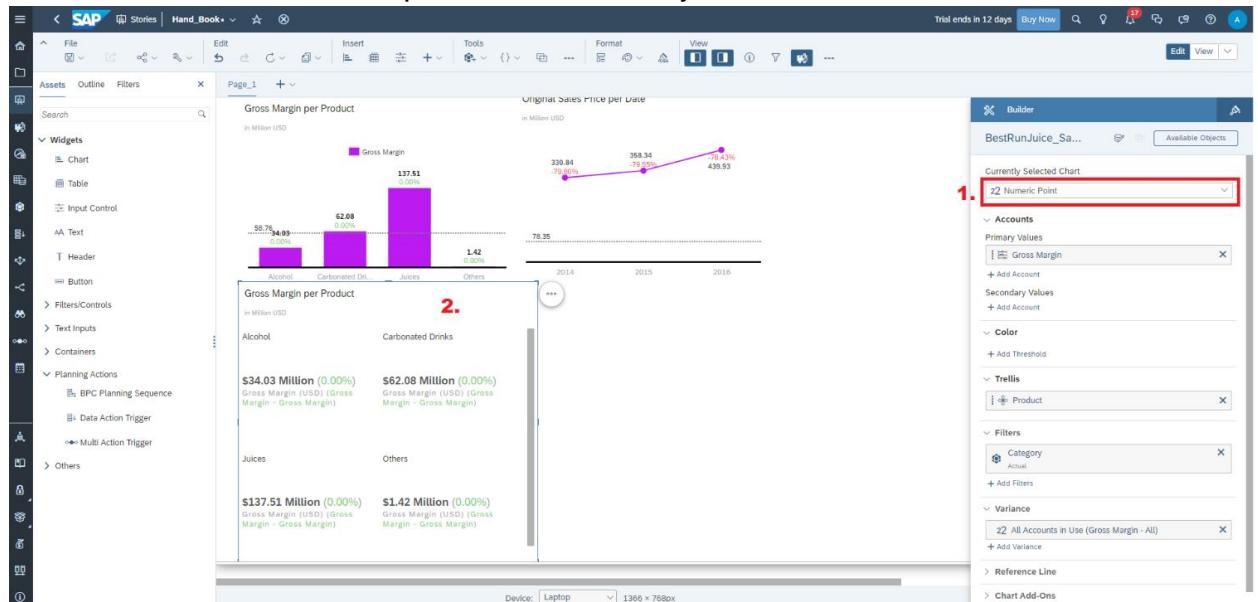
Now let's take look at Numeric Point.

3.8 Practical - Get Started with Numeric Point

Numeric Point means to get the things in numeric format.

Copy the bar chart and paste below that of bar chart.

1. Select the **Numeric Point** option under currently selected chart.



2. See we are getting all the details of bar chart in numeric format.

Now Let's take look at the different corelation charts.

3.9 Practical - Get Started with Correlation Charts

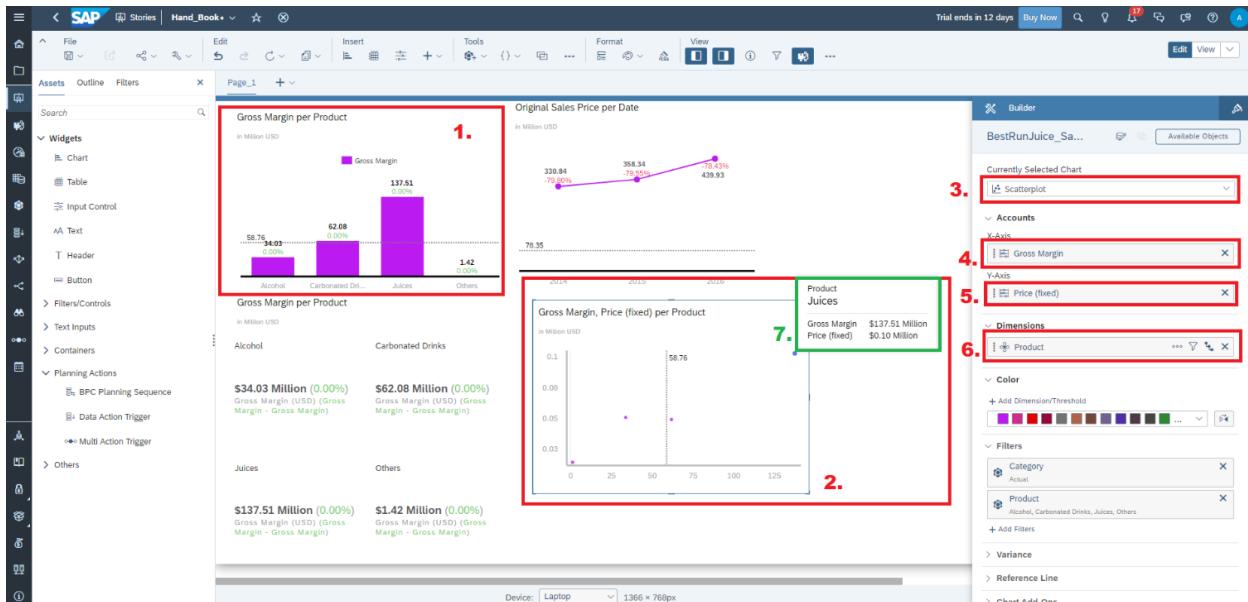
Step-1: Plotting of Scatterplot

Refer the figure and follow the steps:

1. Copy bar graph by pressing **Ctrl+C**
2. Paste it at number **2**.
3. Select scatterplot under the currently selected chart
4. Select the Gross Margin under X-Axis
5. Select the Price under Y- Axis
6. Select **Product** option under Dimensions

7. Move your cursor on one data point refer number 7. it will give idea about the Product, Gross Margin and Price.

Similarly, you can play around different dimensions and the accounts.



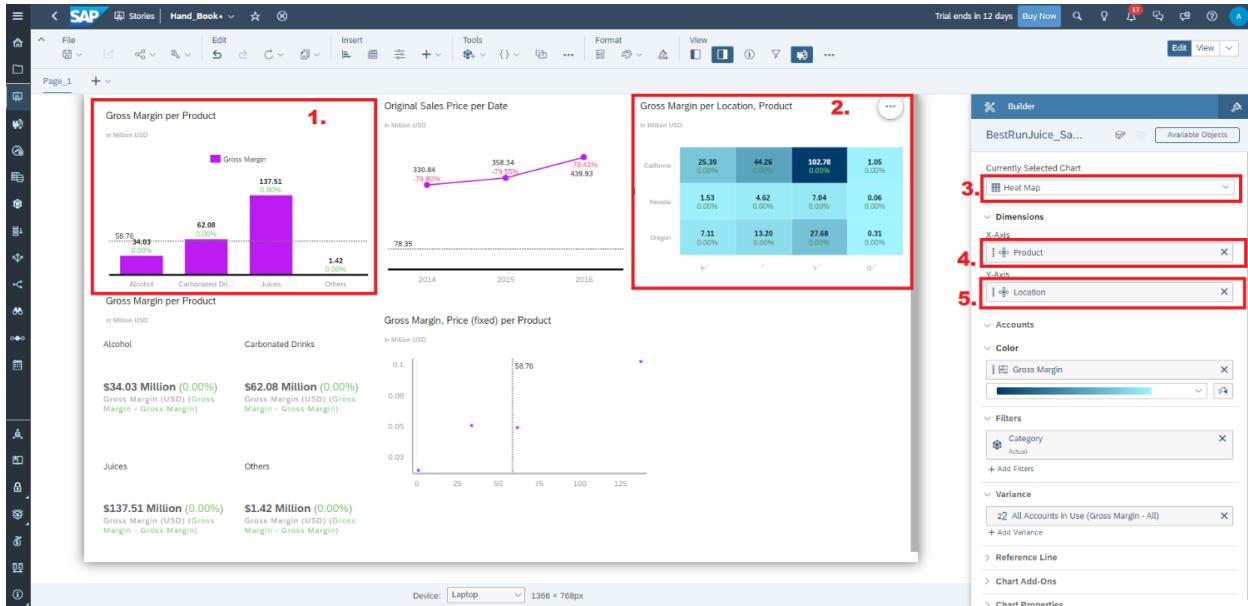
Now let's take a look at **Heat Map**.

Step-2: Plotting of Heat Map

Refer the figure and follow the steps:

1. Copy the bar chart
2. Paste chart at number 2.
3. Select the **Heat Map** option under the Currently Selected Chart
4. Select **Product** option under X-Axis
5. Select **Location** option under Y-Axis

See, you will get very beautiful chart. It gives the location correlation with the products.



Step-3: Plotting of Cluster Bubble

Refer the figure and follow the steps:

1. Copy the bar chart
2. Paste at number 2.
3. Select **Cluster Bubble** option under the Currently Selected Chart
4. Select the **Gross Margin** under Accounts.
5. Select the **Product** under Dimensions
6. Select the **Location** under the colour

It's very clear from the fig that California having the highest gross margin among the different states. Try to use different colour and different metrics.



The screenshot shows the SAP Story app interface with four charts displayed on the left and a builder panel on the right.

- Chart 1:** Gross Margin per Product (Bar Chart). A red box highlights the chart area. The legend indicates "Gross Margin". The chart shows values for Alcohol (\$34.03M), Carbonated Drinks (\$62.08M), Juices (\$137.51M), and Others (\$1.42M).
- Chart 2:** Original Sales Price per Date (Line Chart). The chart shows sales price in million USD from 2014 to 2016. Data points: 2014: \$330.84M, 2015: \$358.34M, 2016: \$439.93M.
- Chart 3:** Gross Margin per Location, Product (Table). The table shows gross margin in million USD for California, Nevada, and Oregon across different products.
- Chart 4:** Gross Margin, Price (fixed) per Product (Bubble Chart). The chart shows gross margin price (fixed) in million USD for Juices and Others. Data points: Juices (~\$58.76M), Others (~\$0.03M).

The builder panel on the right lists the selected chart as a Cluster Bubble chart and shows the configuration steps:

- Cluster Bubble
- Accounts
- Gross Margin
- Product
- Location
- Color

Now let's take look at how to add pages.

Step-3: Add Pages

- Click on down arrow at number 1.
- Select the Add Responsive Page

The screenshot shows the SAP Story app interface with the "Add Responsive Page" option highlighted in a red box. The responsive rule configuration panel on the right is visible.

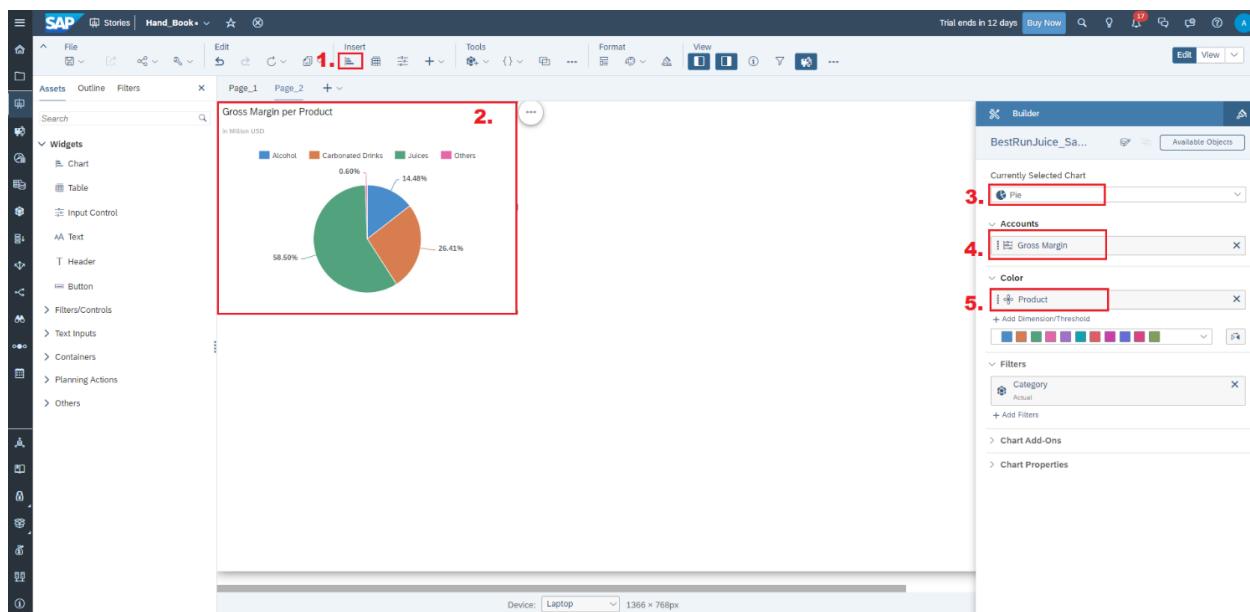
Responsive Rule Configuration:

- Device: Laptop
- When the screen width is less than or equal to: 1366 px
- Activate: OFF (radio button)
- Widget Position: Free
- Widget Size: Set the widget width, Set the widget height

3.10 Practical - Get Started with Pie chart, Geo Map and Box Plot

Step-1: Plotting of Pie Chart

1. Select chart Icon at number **1.** under insert menu
2. It will create empty chart
3. Select the **Pie** Option under the Currently Selected Chart
4. Select the **Gross Margin** under Accounts.
5. Select the **Product** under Colour

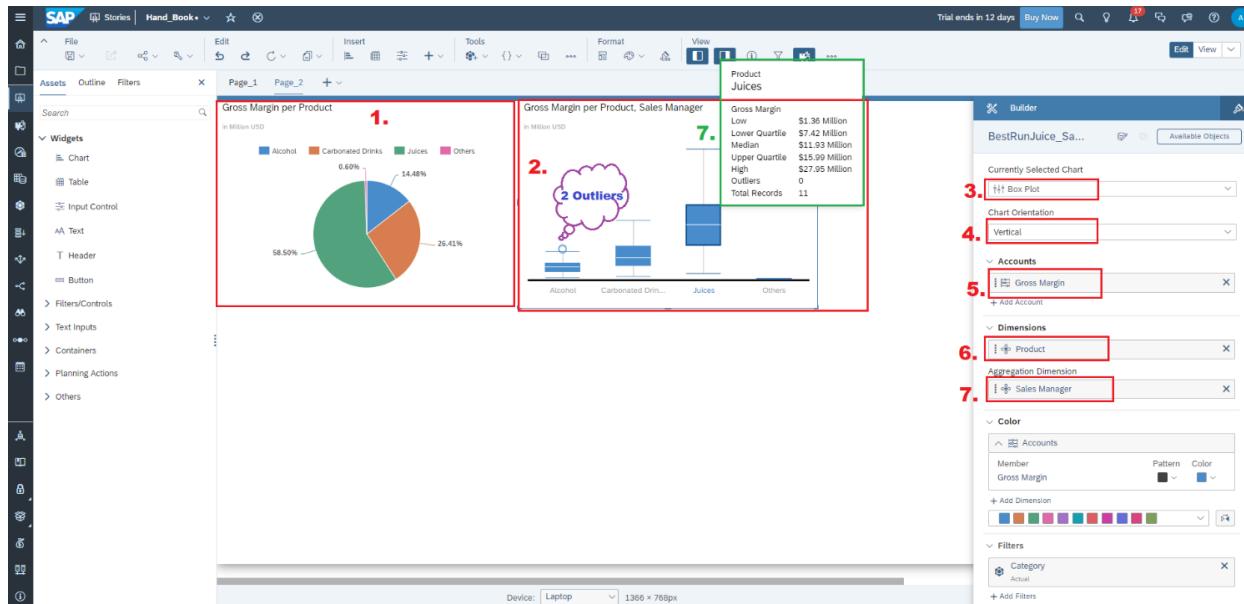


Step-2: Plotting of Box Plot

1. Copy the Pie chart
2. Paste at number **2.**
3. Select **Box Plot** option under the Currently Selected Chart
4. Select the **Vertical** option under Chart Orientation
5. Select the **Gross Margin** under Accounts
6. Select the **Product** under Dimensions

7. Select **Sales Manager** option under the Aggregation Dimension
8. Move the cursor on the one of the blue box and get all the statistical information

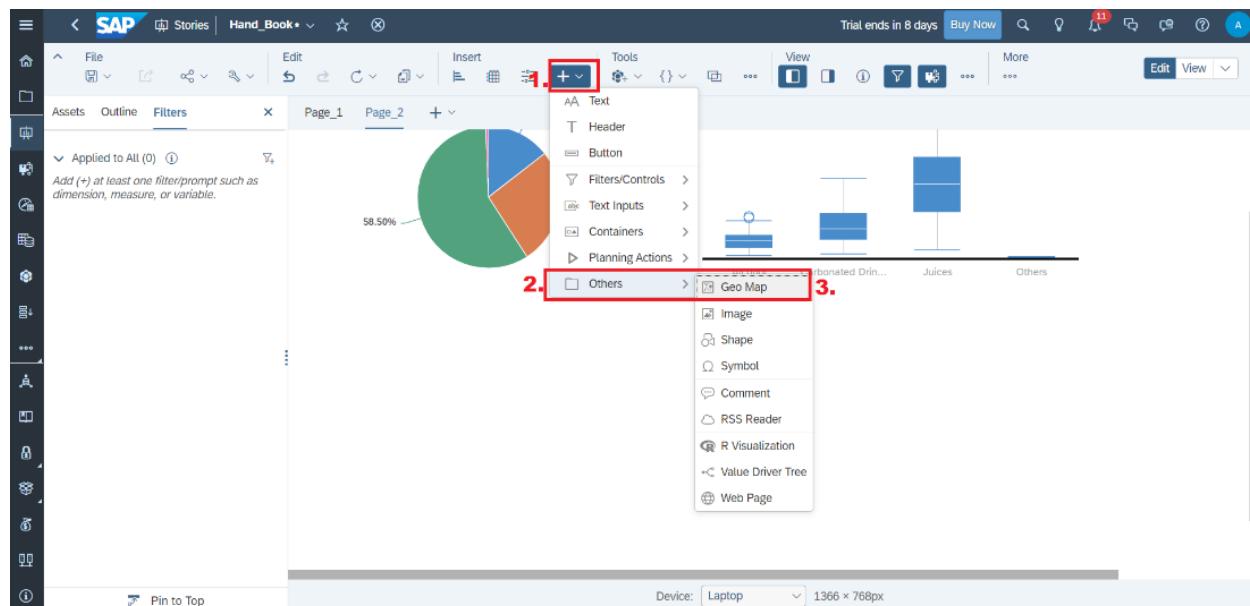
Box plot mainly used to get outliers, so there is total 2 outliers for alcohol.



Step-3: Plotting of Geo Map

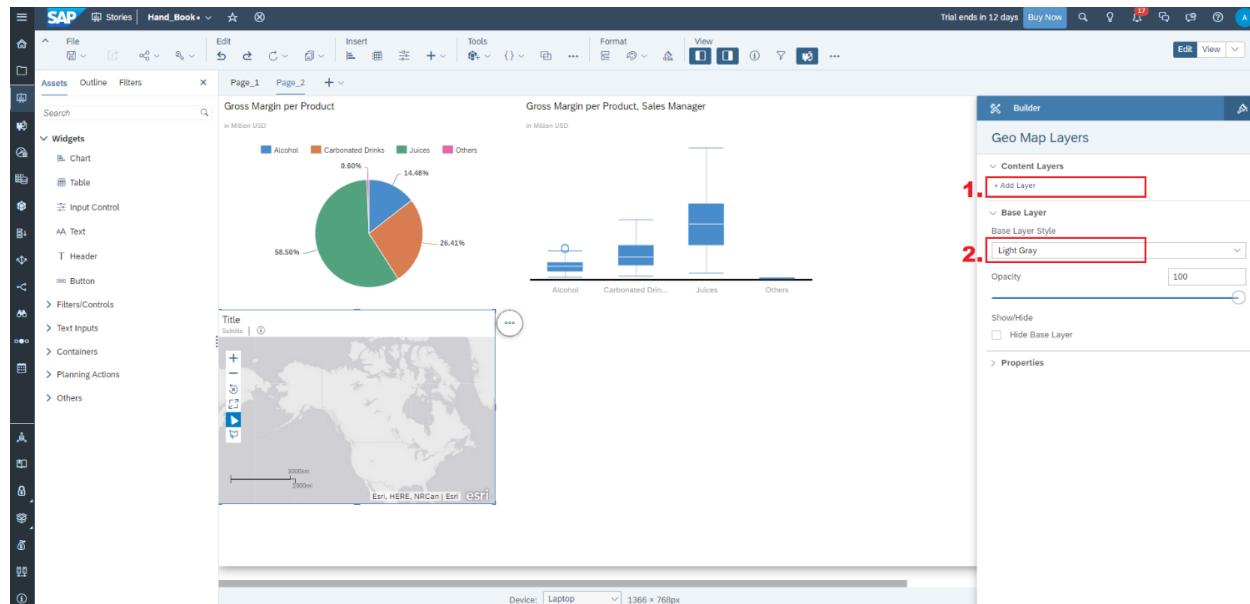
a. Locating Geo Map option

1. Select the down-arrow under the insert menu at number 1.
2. Select **Others**
3. Select **Geo Map**



b. Exploring Geo Map Layers

1. Select **Add Layer** option under Content Layers
2. Select **Light Gray** Option under the Base Layer



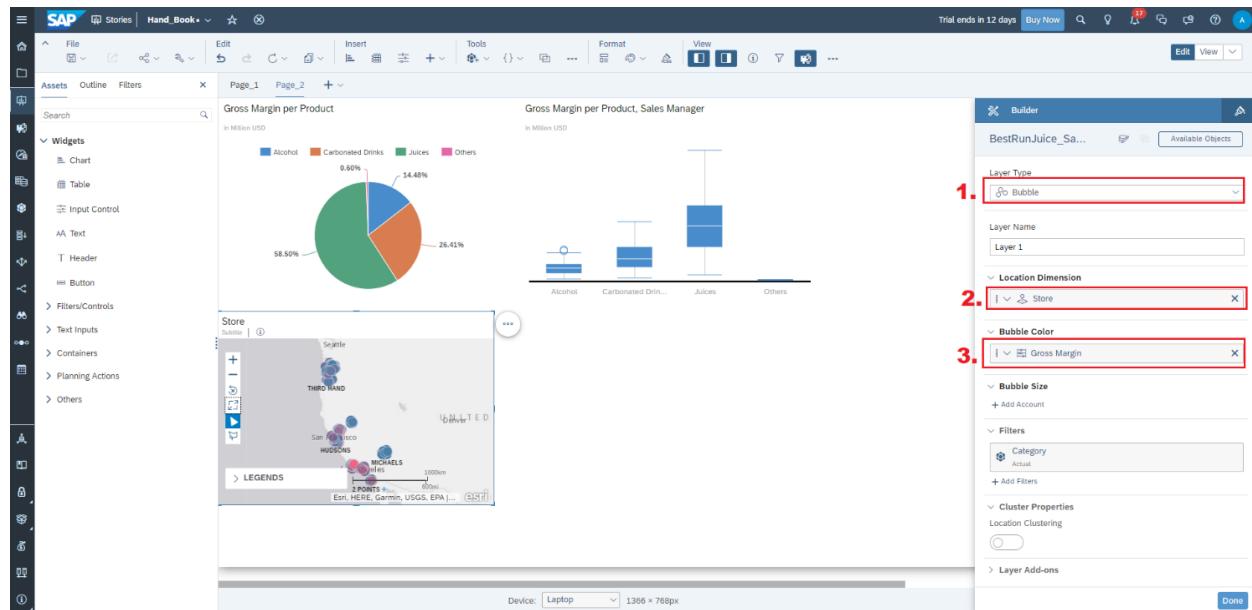
c. Selecting appropriate options

1. After selecting Add layer select **Bubble** Option under Layer Type



2. Select Store option under **Location Dimensions**
3. Select **Gross Margin** under Bubble Colour
4. Click on **Done** Option

You will get region wise details about the gross margin across the world.



Now let's start with the input control

3.11 Practical - Get Started with Input Control

Step-1: Locating Input Control

1. Click at number **1.** under Insert menu
2. Click on the **Dimensions**



1. **Input Control**

2.

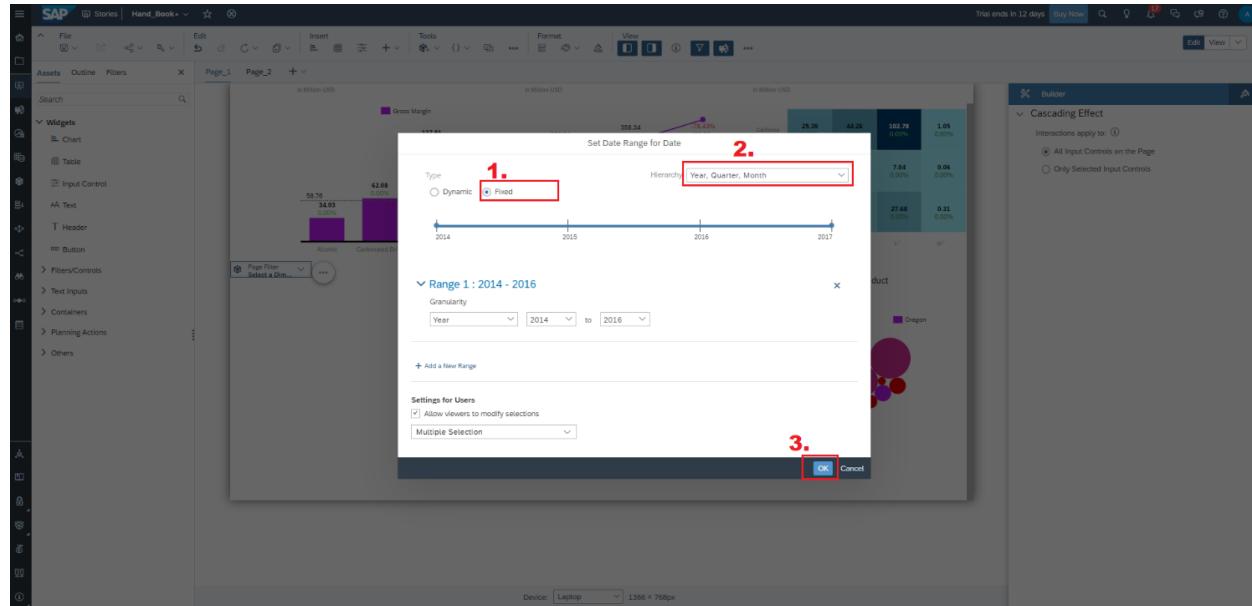
3. Click on Date and Select Filter by Range

Date

Filter by Range...

Step-2: Selecting appropriate options

1. Select **Fixed** option
2. Select **Year, Quarter and Month** option
3. Click on **OK**



Then expand the Date widget and now you can control the years. Similarly play around different dimensions.

3.12 Result

Now you got an idea how to plot the different charts, so you can try plotting of remaining chats and create amazing stories as per your requirements. Now Let's build a story from business point of view to get insights using Classic Design Approach for your better understanding. Wow! Let's get started with very interesting topic.