



PARTNER

## DV307 Exercises01-SAP Analytics Cloud Story Design with DWC Live Data

This exercise document will guide you step by step on the process building a Bookshop Sales 360 story in SAC with Live data from DWC.

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## OBJECTIVE

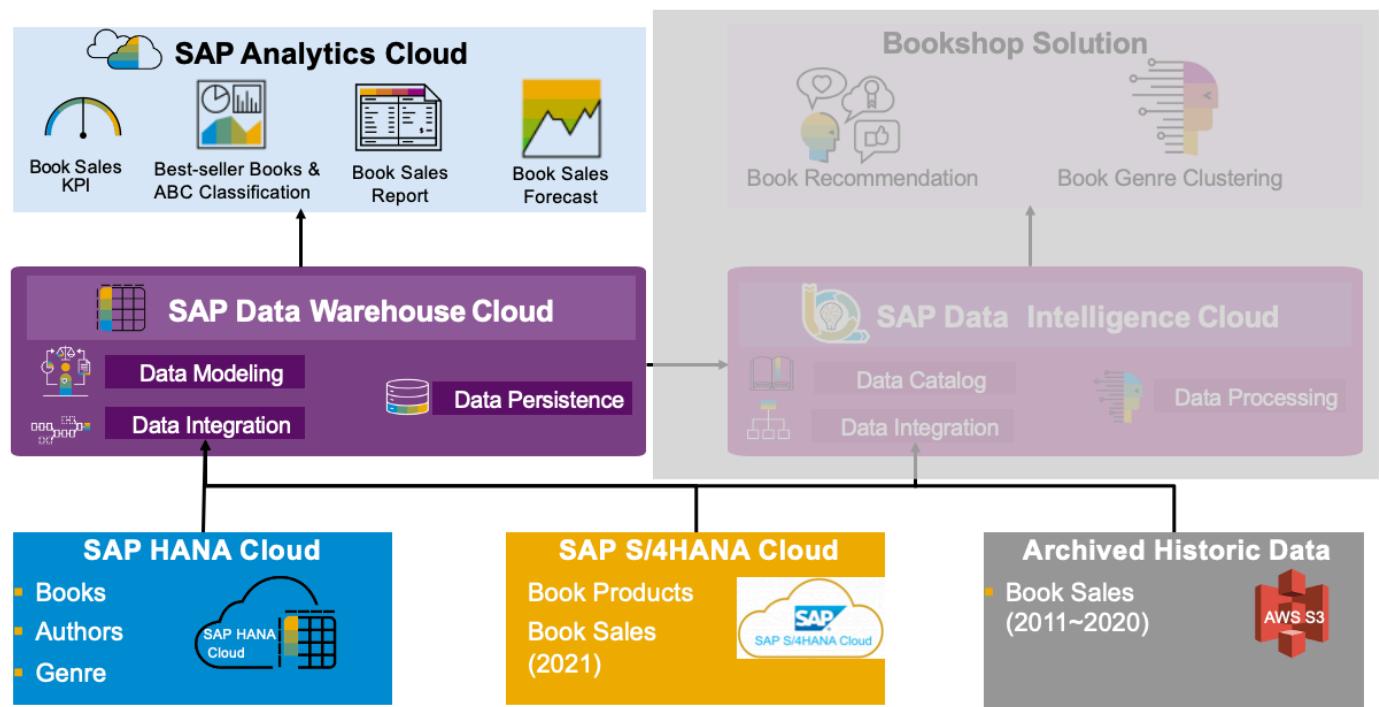
The objective of this exercise is to give you an overview of how to design a story with SAP Analytics Cloud

## SCENARIO

Now that we have a Live connection set to DWC, we will consume the live data from DWC to build informative story pages for a sales manager including

- Sales Overview page:
  - Sales KPI of Current Quarter
  - Monthly Sales Trend since 2020
  - Best-selling books drill down by authors and calendar month
- Sales Report page:
  - Monthly book sales report

## Storyline about a bookshop for Data-to-Value workshop



## ENVIRONMENT ACCESS

The demo environments we will use for the hand-on exercise will be:

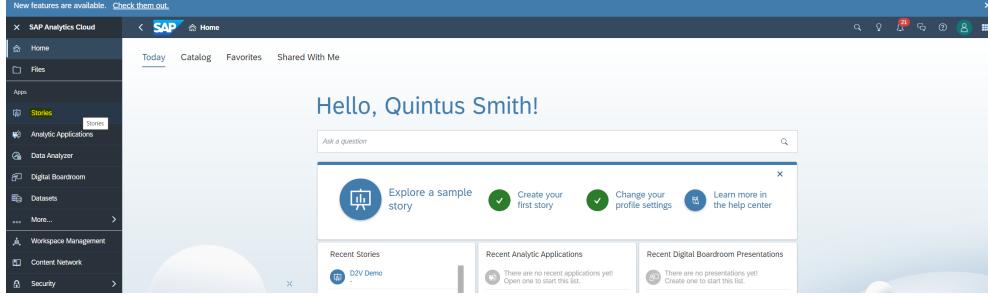
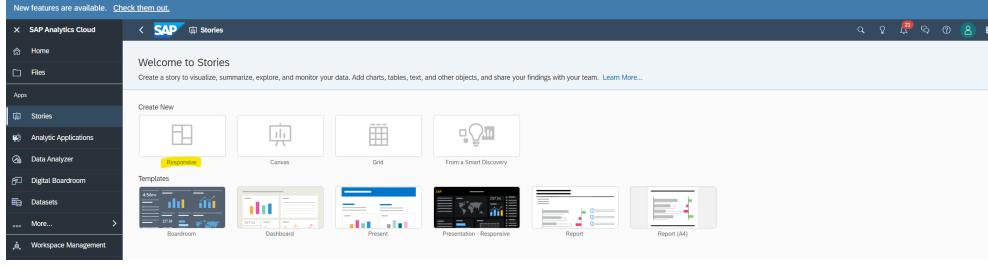
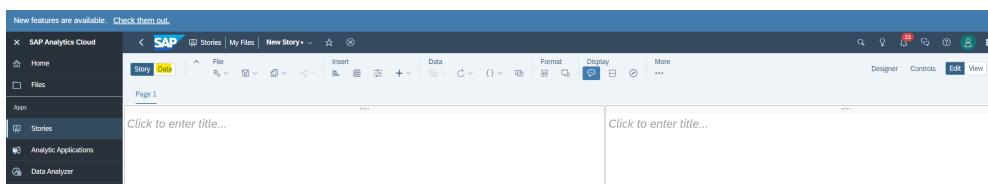
- SAP Analytics Cloud (SAC)

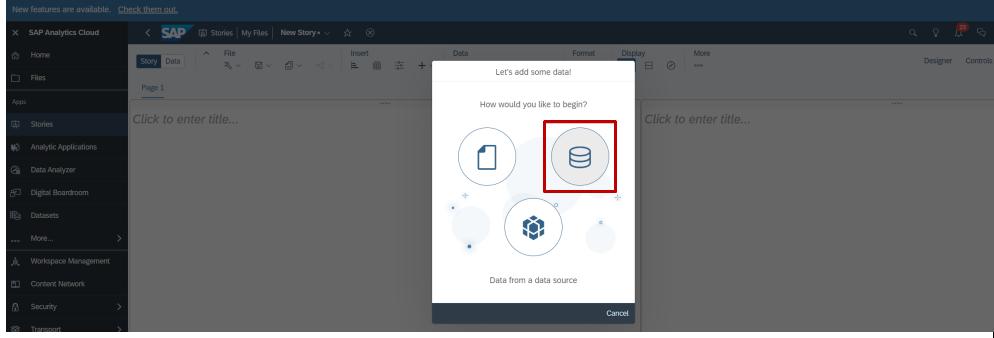
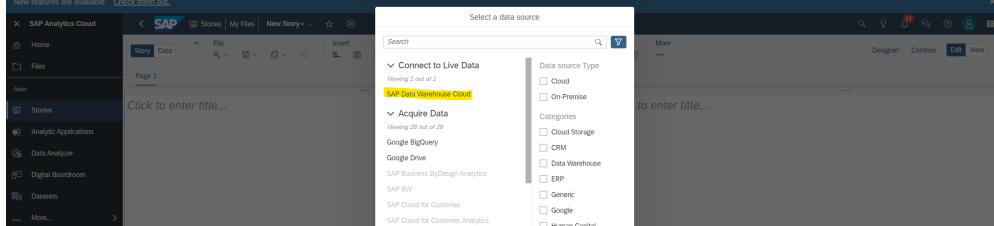
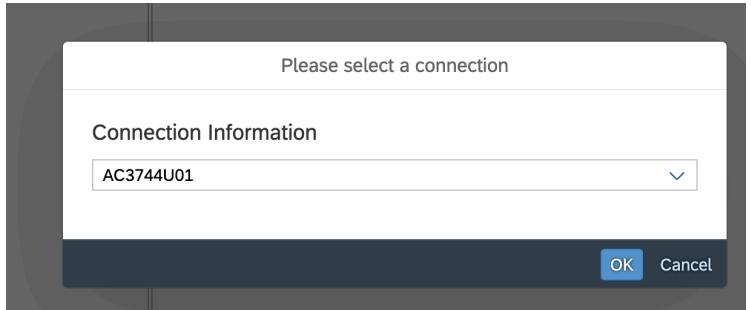
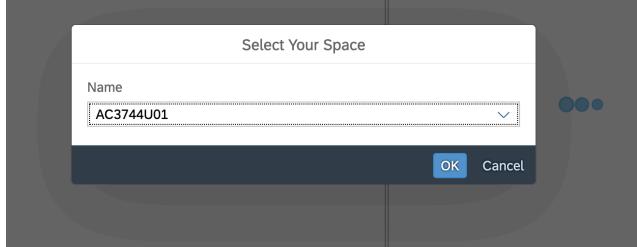
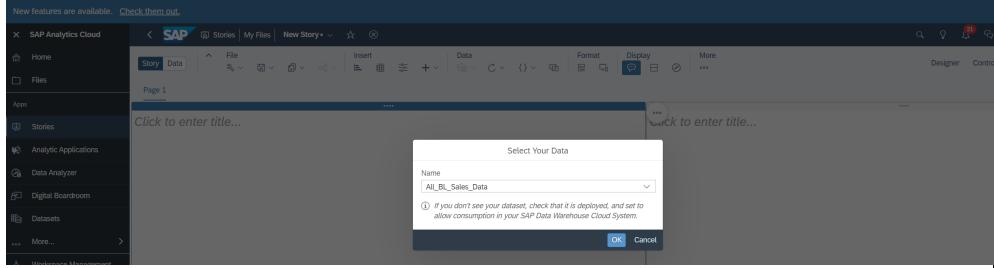
For the Bootcamp participants, please use the SAC tenant provided by SAP with your assigned user id and password.

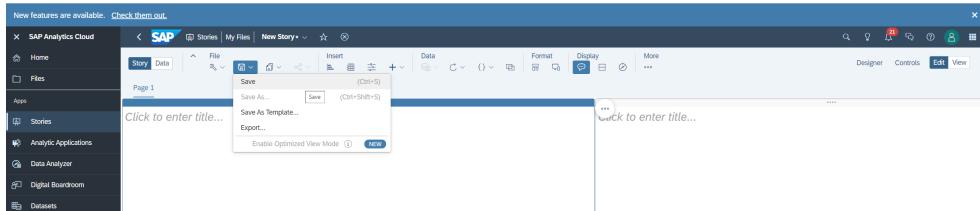
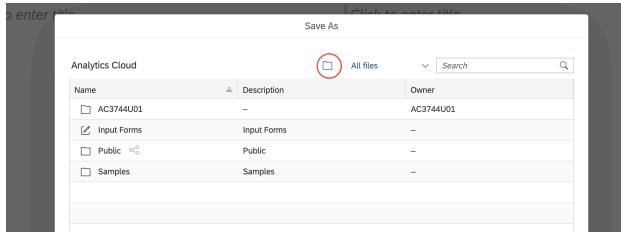
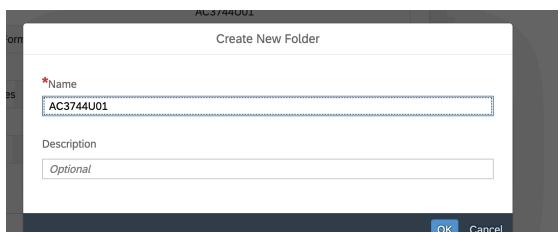
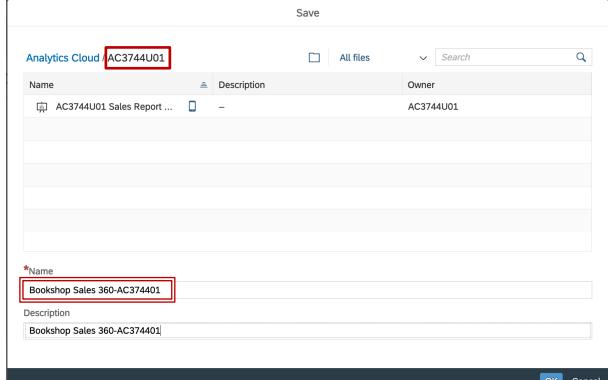
- The SAC tenant URL is available in the dedicated Microsoft Teams > General (Channel) > System Access
- Your assigned user id and password are communicated individually via email.

## STEP 1 – CREATE A STORY PAGE WITH LIVE CONNECTION TO DWC

We will go through the process on how we start a new responsive page and add the dataset from the Live connection.

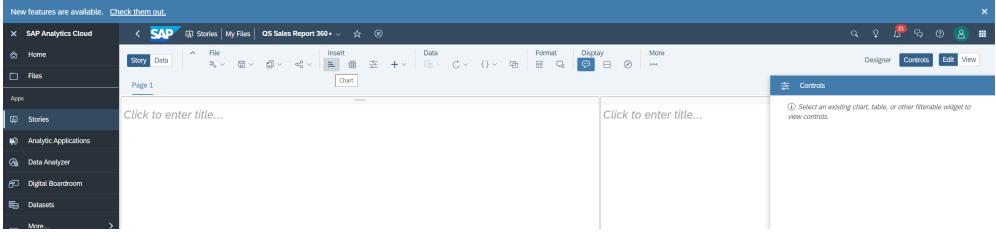
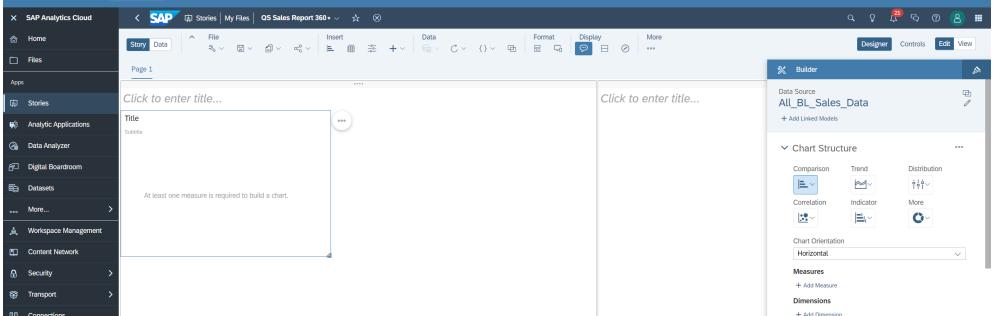
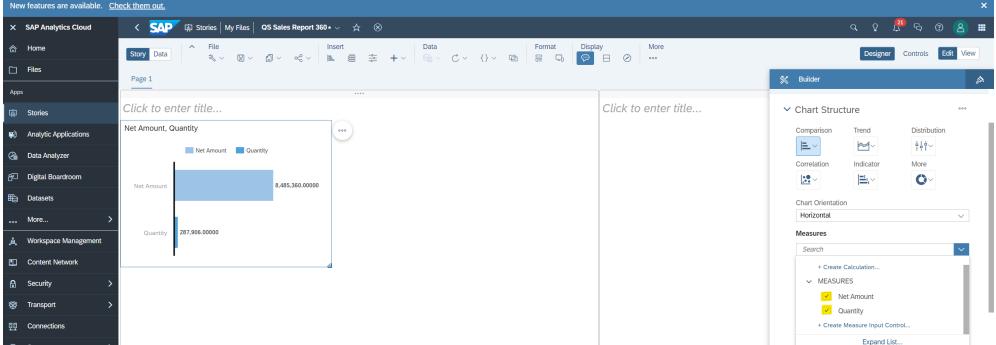
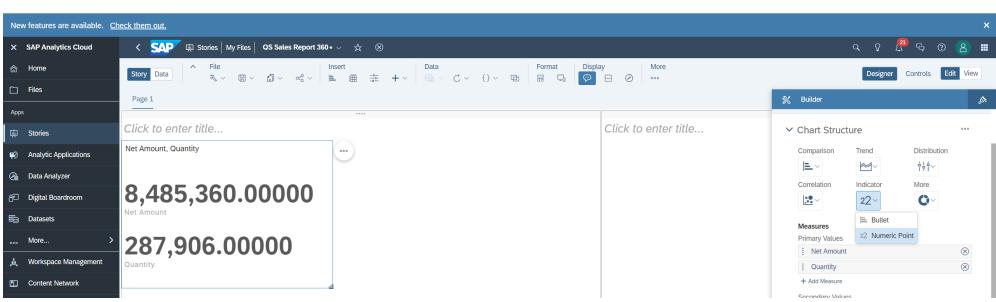
Steps	Screenshots
1. Start at the Home Page of the SAC	
2. Click on left side main menu and navigate to Stories	
3. Under Create New select Responsive Page	
4. Click on Data tab to start with selecting data to work with	

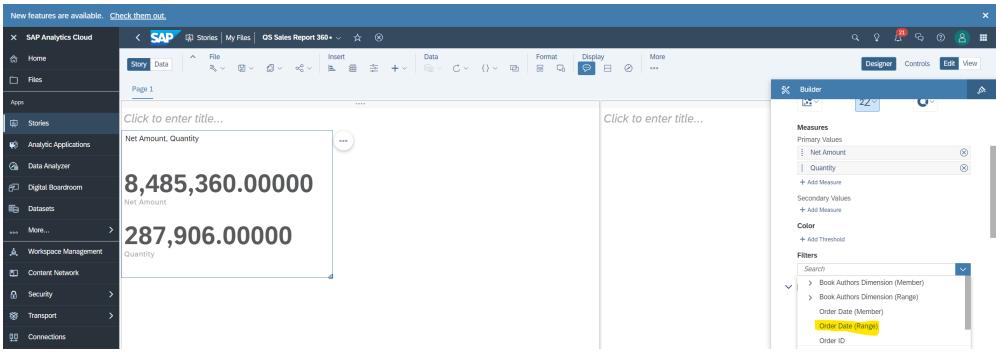
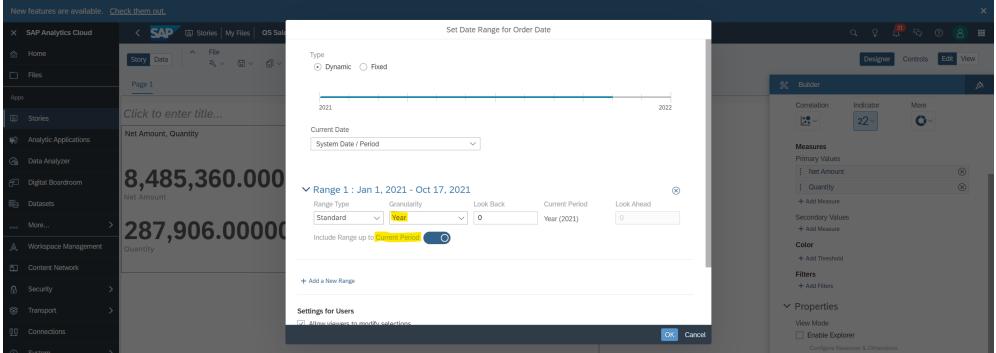
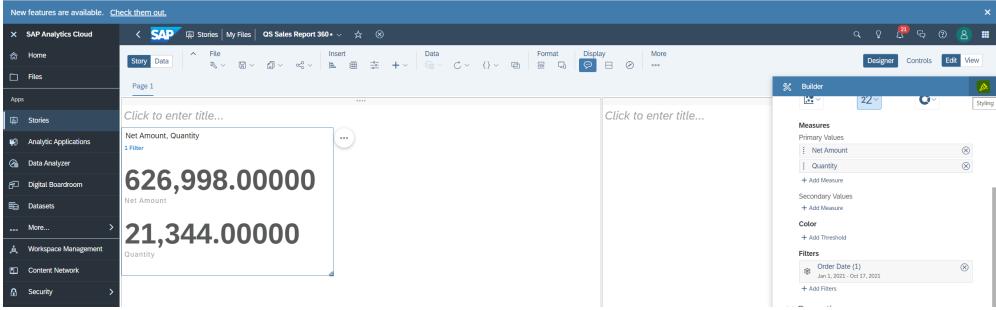
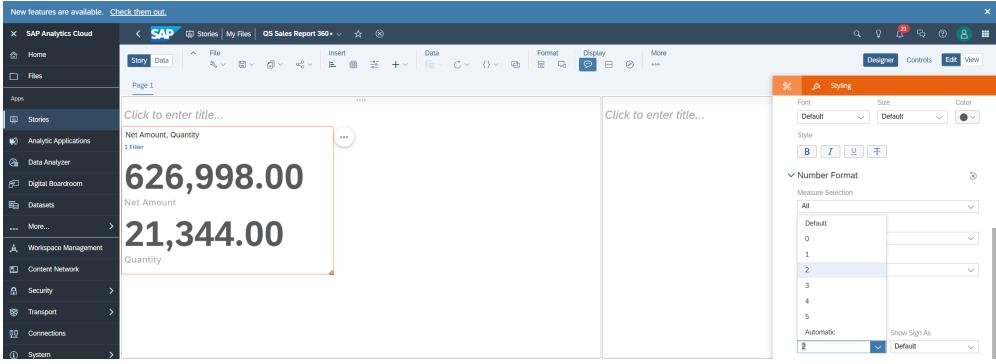
Steps	Screenshots
<p>5. Select Data from a data source</p>	
<p>6. Select Live Connect to live data → SAP Data Warehouse Cloud</p>	
<p>7. In the dropdown select the connection (<b>DWC_&lt;USER_ID&gt;</b>) which you have created at previous Exercise DV305_Exercie01</p>	
<p>8. Select your space (same as your user id) in DWC</p>	
<p>Select the name as <b>All_BL_Sales_Order_Data</b>, which is the perspective of BL Book Sales Consumption Model we have built in previous DWC modeling exercise DV200_Exercise05.</p>	

Steps	Screenshots
<p>Note: If you have completed <u>DV200_Exercise06_Bonus_Exercise</u>, you may also find another dataset listed named V_BL_Book_Sales, which is <b>not</b> used here, but in another bonus exercise instead.</p>	
<p>9. Next, we will save and name our story Page</p> <p>10. Click on the save Icon and select Save</p>	
<p>11. Click on create New Folder</p>	
<p>12. Enter a name as <b>YOUR_USERID</b> for your own folder</p> <p>13. Select your folder you just created</p>	
<p>14. Enter Title for your Story as <b>Bookshop Sales 360-&lt;USER_ID&gt;</b></p> <p>15. Click on <b>OK</b> to save the story</p>	

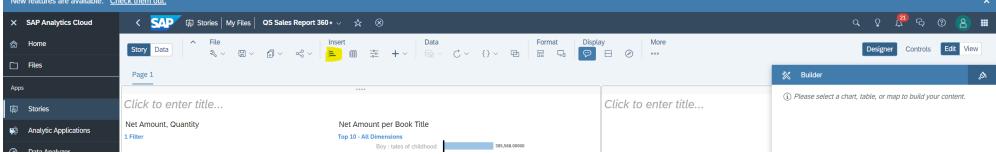
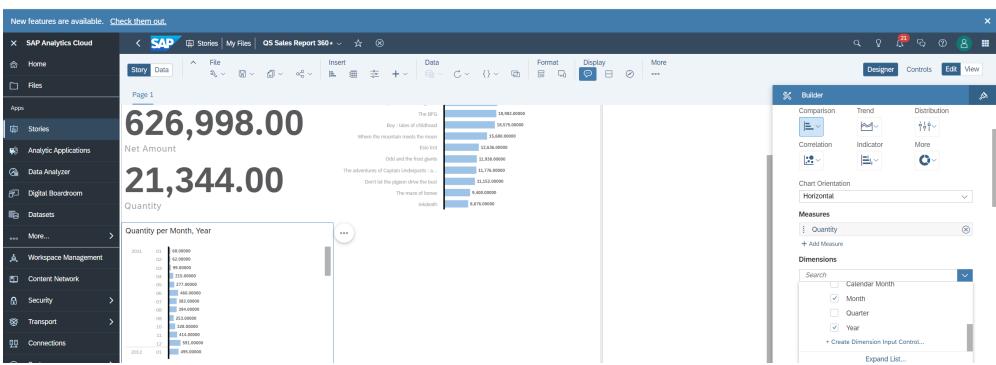
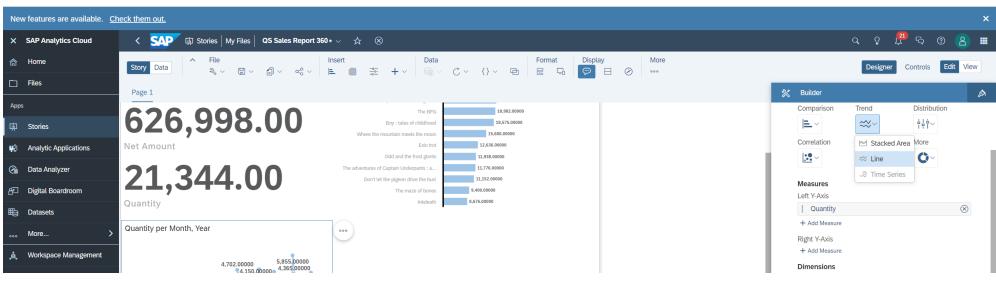
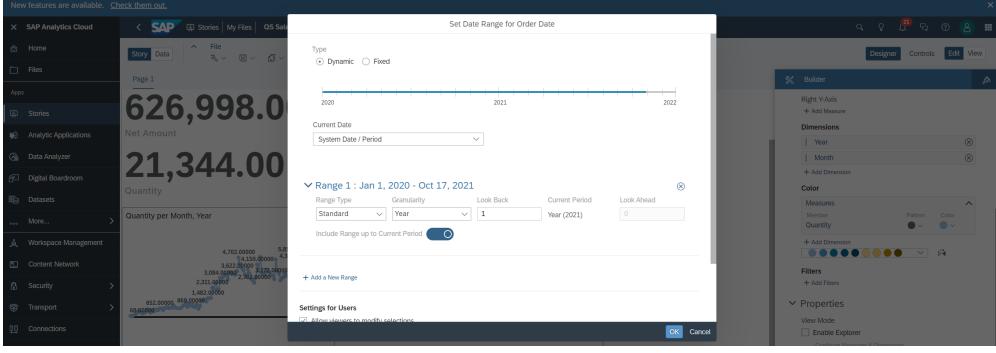
## STEP 2 – BUILD CHARTS AND GRAPHS IN THE STORY PAGE

Now that we have a story page created and have the data model from DWC selected, we next need to add Charts and Graphs to the page that would be relevant for the Sales Manager to view. We will show how to build a Sales Overview page and how to customize them to cater to the Sales Manager view

Steps	Screenshots
1. To start click on the <b>Chart</b> Icon under Insert to add a new chart to the page	
2. Highlight report and use the <b>Designer</b> menu on the Right to build your chart	
5. In the Designer Menu under Measure select <b>Net_Amount &amp; Quantity</b>	
6. Change the chart type by going to <b>Chart Structure</b> → <b>Indicator</b> → <b>Numeric Point</b> to create a KPI chart	

Steps	Screenshots
7. Next in Designer Menu, got to the add filters and select <b>Order Date (Range)</b>	
8. Select Granularity: Year	
9. Select switch to current period: On	
10. Select Ok to save settings	
11. In Designer Click on the Paint Brush icon to open <b>Styling</b>	
12. In The Styling Menu scroll down to <b>Number Format → Decimal Places</b> and select 2	

Steps	Screenshots
13. Click on chart Icon again to add new chart to your Pane	
14. We will next build a Top 10 Books Sales chart	
15. Add Measure Net Amount	
16. Add Dimension Book Title	
17. You will see it automatically adds a Top N filter	
18. In the Chart, click on the Top N in blue	
19. Change Value to 10	
20. Add filter: Order date Range	
21. Select Granularity: Year	
22. Select switch to current year: On	
23. Select Ok to save settings	

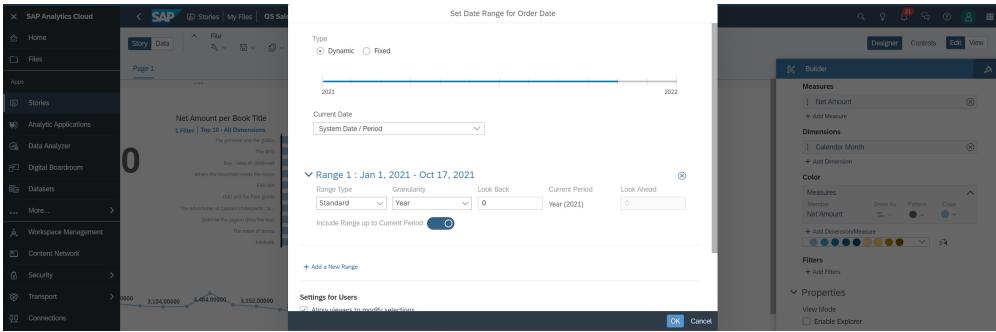
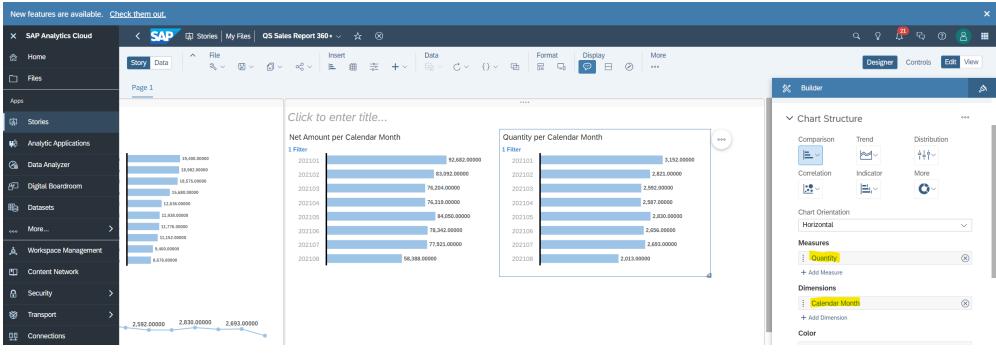
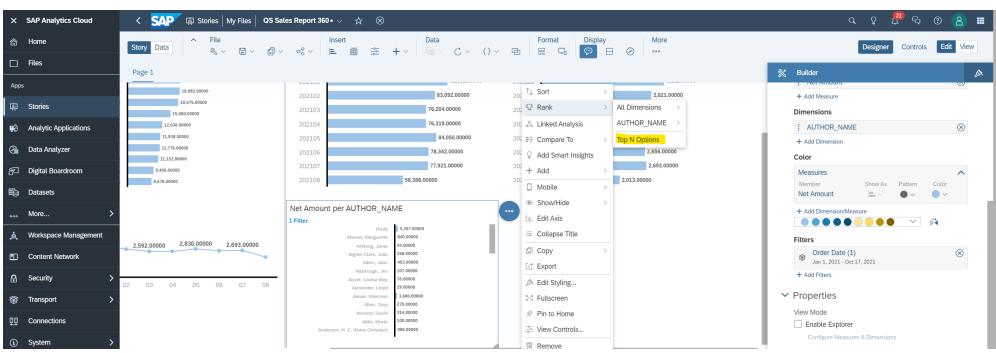
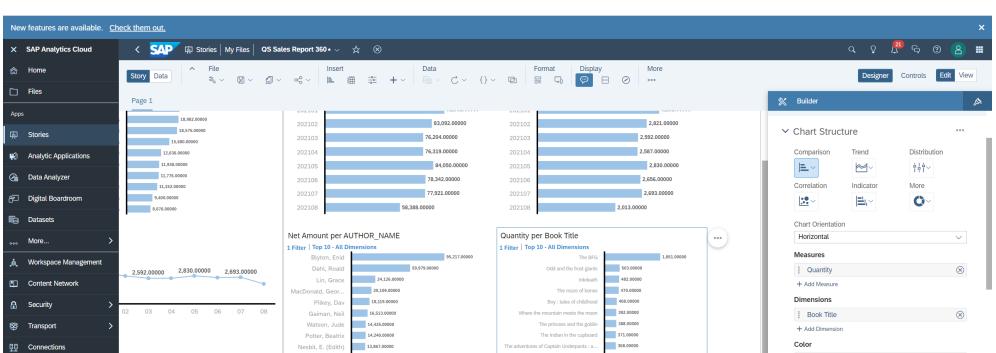
Steps	Screenshots
24. Click on Insert Chart Icon again	
25. Next, we will build a time series report to show Sales Over for past 2 years on a quarterly view	
26. Measure: <b>Quantity</b>	
27. Dimension: <b>Year (First)</b> <b>Month (Second)</b>	
28. Change the chart type under <b>Chart Structure</b> → <b>Trend</b> → <b>Line</b>	
29. Add filter: Order date (Range)	
30. Select Granularity: Year	
31. Look back: 1	
32. Select switch to current year: On	
33. Select Ok to save settings	

Steps	Screenshots
34. Go to bottom right of chart and click and drag to fill pane or desired size	

### STEP 3 – BUILD INTERACTIVE REPORT CHARTS

We have in our story overview of Book Sales but we want to have a bit of drill in capability to view how and what data is impacting my top sales and vice versa. We will build 4 charts that will be interactive

Steps	Screenshots
1. Click on Right view Pane	
2. Click on Insert Chart	
3. Add Measure: Net Amount	
4. Dimension: Calendar Month	

Steps	Screenshots
5. Add Filter: <b>Order Date(Range)</b>	
6. Select Current Period On	
7. Repeat Process And add following charts	
8. Repeat Process And add following charts	
9. Repeat Process And add following charts	

Steps	Screenshots
10. Next, click and highlight first chart	
11. Click on More Options	
12. Select Linked Analysis	
13. Select the Following Settings  Interactions apply to: Only Selected Widgets  Settings: check Filter on Data Point Selection Select Widgets from list: Select the other three widgets you have just created  Click on Apply to add the Link Analysis to the Chart	
14. Repeat this process for all other three created right pane charts	

Steps	Screenshots
<p>15. Click on any data column in the right side to verify has been correctly applied to all charts</p> <p>NOTE: Should see all 4 charts refresh with the relevant data point data only</p>	

## STEP 4 – ADD A NEW PAGE ABOUT BOOK SALES MONTHLY REPORT TO STORY

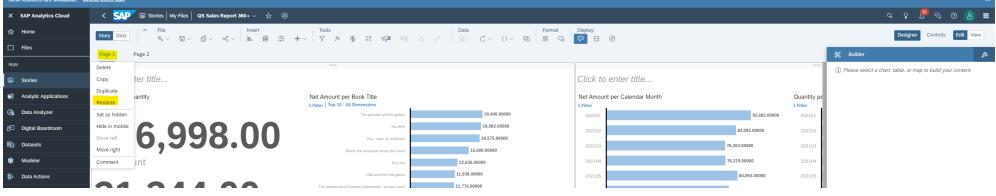
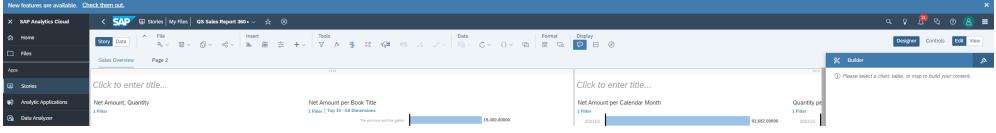
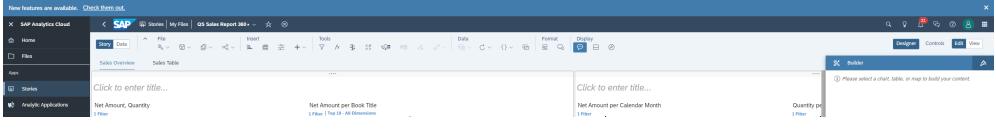
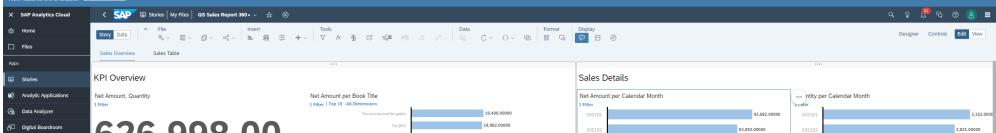
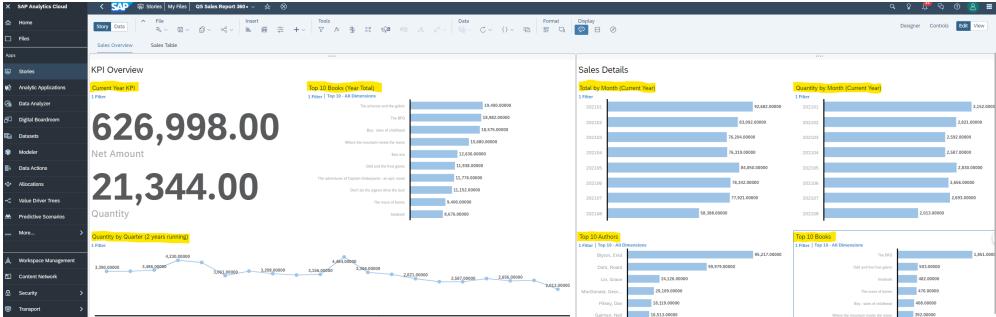
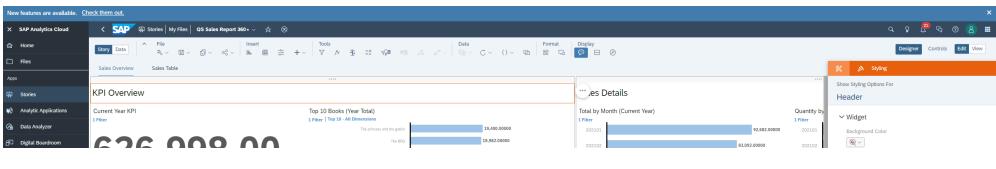
Now that we have build one story page, next we will look how to add additional pages about Book Sales Monthly Report to give the different levels of insight and perspective to the Sales Manager

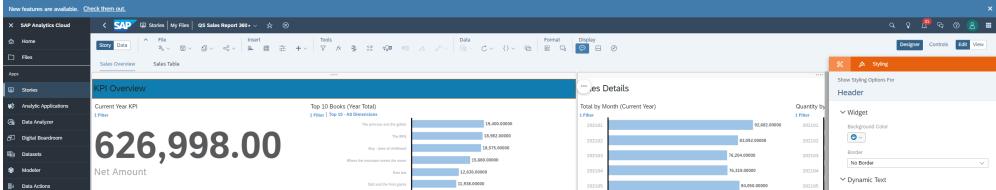
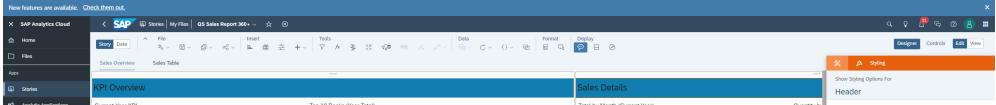
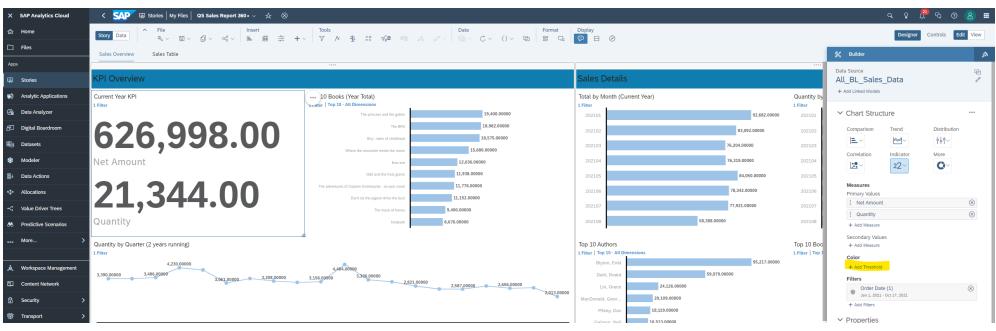
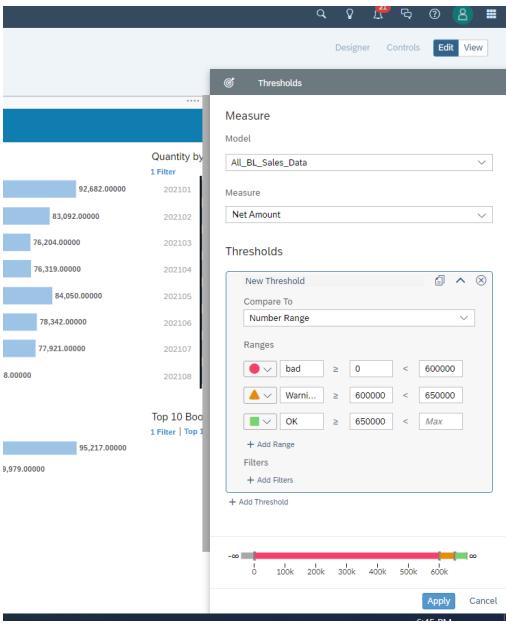
Steps	Screenshots
<p>1. Go to Top Bar where Page 1 is show.</p> <p>You will see a + icon appear</p> <p>2. Click on Plus and select <b>Responsive</b> to add another page to the Story</p>	
<p>We can modify the Page to our needs</p> <p>3. Select the Right Pane and <b>More options (3 Dots)</b></p> <p>4. Click on <b>Remove</b> to delete from the current Page</p>	

Steps	Screenshots
We are also able to add Tables to our stories	
5. Click on Insert Table	
6. First, We will add a filter to the Table to limit the data as chart can get large. Add filter current year and look back 1	
7. Add Row Dimensions: Year, Month, Author_Name, Publisher, and Book Title	
NOTE: Make sure you enter in the order as mentioned	
8. Click and Drag table to fill whole Screen	

## STEP 5 – LOOK AND FEEL: PERSONALIZE IT

Now that we have a story build, we can help make it bit more intuitive and personal by styling and cleaning up the story

Steps	Screenshots
<p>1. Go back to Page 1</p> <p>2. Click on drop down and select <b>Rename</b></p>	
<p>3. Name: <b>Sales Overview</b></p>	
<p>4. Repeat for Page 2 and rename to Sales Table</p>	
<p>5. In Sales Overview Page</p> <p>6. Add right Pane Header: <b>KPI Overview</b></p> <p>7. Add left Pane header: <b>Sales Details</b></p>	
<p><b>Rename Charts</b></p> <p>1. Double click on chart name to enter own Name for chart</p> <p>2. Rename charts as shown in screenshot</p>	
<p>8. Select Left Header</p> <p>9. Go to Designer and select Styler</p>	

Steps	Screenshots
10. Select Drop down for <b>Background Color</b> and change the color to Blue	
11. Do same for right Pane	
12. Select KPI chart	
13. Go to Designer	
14. Under Color Add Threshold	
15. Click on Create threshold	
16. Define Threshold Parameters as shown	
17. Click Apply	

Steps	Screenshots
18. Next Click on Time series report	
19. Go to more Options (3 Dots)	
20. Select add → Reference Line	
21. Select Type Dynamic	
22. Measure Quantity	
23. Change color below line to Light red	
Note: Under color options click more and change color of choice	
Congrats we have now successfully built a story that's been personalized and is insightful	
24. On Top right click on View to see how your Story Looks	

## EXPLORE AND STYLE

You can personalize the reports and customize page further by doing following:

- Style and add color to panes or whole page
- Style and add color to charts
- Change charts color schemes or change charts column colors

- Add reference lines and changing zone colors of Refence lines
- Change Chart Types to other formats to give bigger impact
- Add Input controls and Page Filters