



SAP BTP Data-to-Value

SAP Analytics Cloud Story

Design with Explorer for

Bookshop Sales 360

Bonus Exercise

October 2021

1	<i>Create BI Story with Live data.....</i>	3
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1 Disclaimer

The information shared in this document is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. All functionality presented here is subject to change and may be changed by SAP at any time for any reason without notice.

2 OBJECTIVE

The objective of this exercise is to design a story by starting from exploring the live data from DWC, which is a view(V_BL_Book_Sales) in DWC exposed for external consumption rather than a perspective of consumption model. This exercise show different options of modeling, result in different approaches of story design.

3 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

4 Prerequisite

This bonus exercise requires view V_BL_Book_Sales which is created in [DV200_Exercise06_Bonus_Exercise](#). You should completed [DV200_Exercise06_Bonus_Exercise](#) first before this exercise

5 Environment access

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

- SAP Analytics Cloud (SAC)

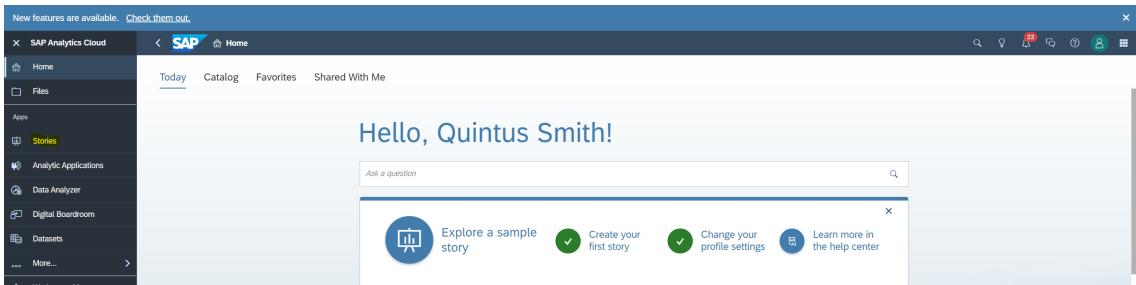
For the Bootcamp participants, please use the SAC tenant provided by SAP with your assigned user id and password.

- 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.

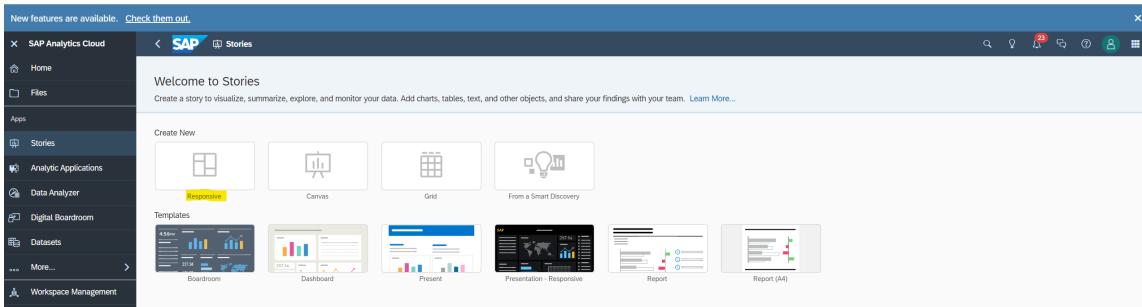
6 Create Story with Live data to DWC View

6.1 Story Page with Live Data connection

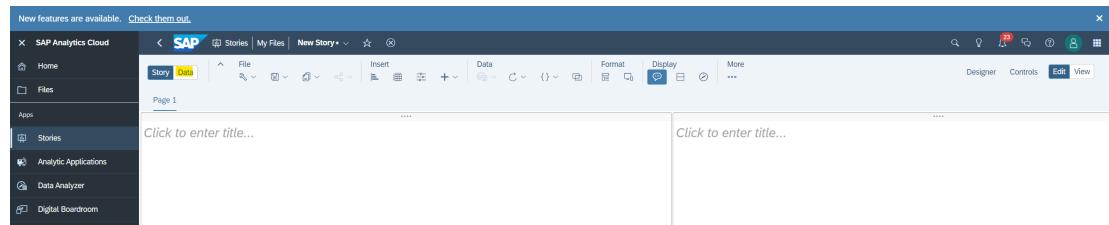
1. Go to left hand main menu and navigate down to the **Stories**



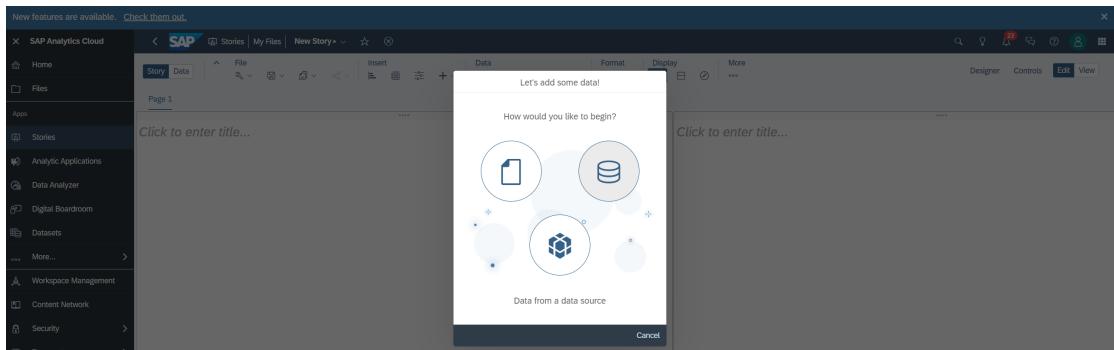
2. Select **Responsive** to start our stories Page



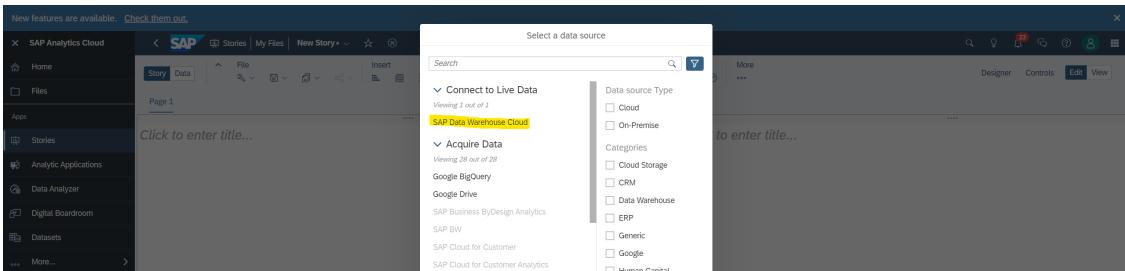
3. Click on **Data** tab to start with selecting data to work with



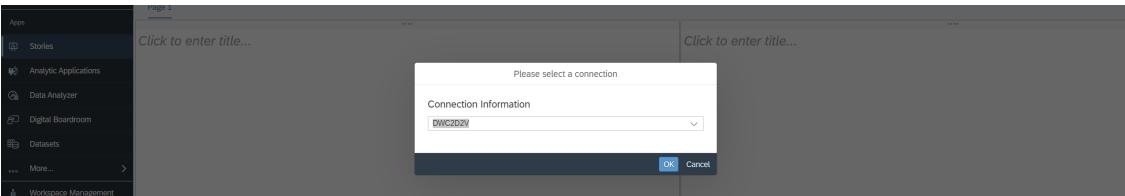
4. Select **Data** from a data source



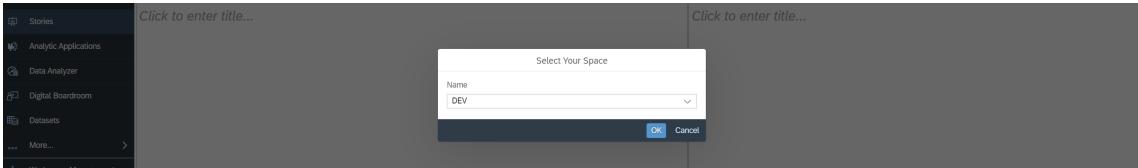
5. Select Live Connect to live data → **SAP Data Warehouse Cloud**



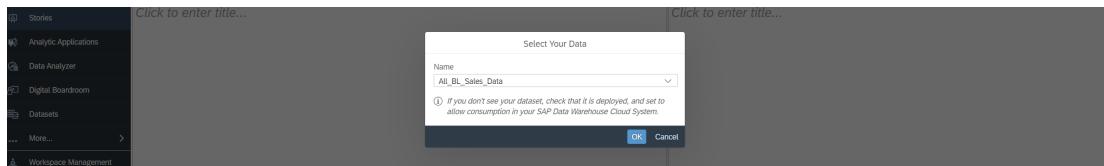
- In the dropdown select your connection to DWC. You can use the connection that was pre-configured for you in the environment (SAPDWC)



- Select your space defined in DWC (D2VUXXXX)



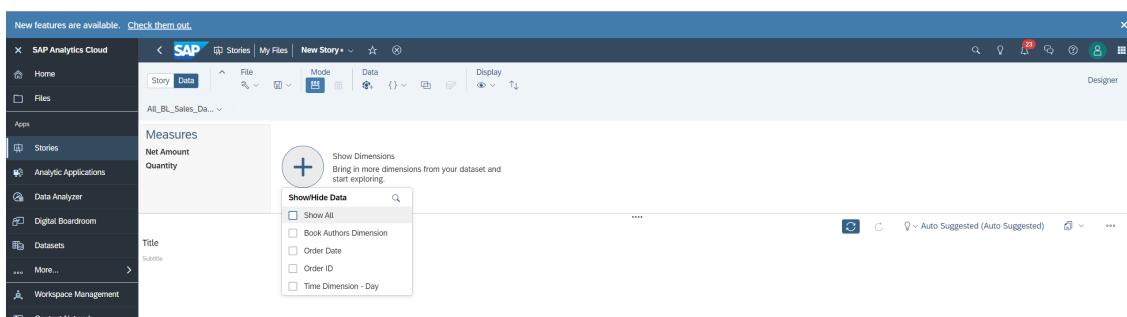
- Select your data from DWC you would like to use (V_BL_Sales_Data)



6.2 Creating KPI and Quarterly Report (Live Data)

- Under Data click on the show dimensions icon

Select show all



- Select the two measures to create a simple KPI

Net Amount, Quantity

The screenshot shows the SAP Analytics Cloud interface. On the left, the navigation bar includes Home, Files, Apps (Stories, Analytic Applications, Data Analyzer, Digital Dashboard, Datasets, More...), Workspace Management, Content Network, Security, Transport, Connections, and System. The main area displays a Data view titled 'V_BL_Sales_Data...'. A table with columns like Measures, Author ID, AUTHOR_NAME, Book Description, Book Title, book_ID, Calendar Month, Calendar Quarter, and Calend. Below the table are two large KPI numbers: 8,485,360.000000000 and 287,906.

11. Go to copy and select to **Copy to Page 1**

The screenshot shows the SAP Analytics Cloud interface with the same Data view. The context menu for the KPI '8,485,360.00000000' is open, showing options: Copy, Copy to New Responsive Page, Copy to New Canvas Page, and Copy to Page 1. The 'Copy to Page 1' option is highlighted.

12. Click on the KPI in the story and next click on **Designer** on top right

The screenshot shows the SAP Analytics Cloud interface in Story mode. The left sidebar shows the same navigation as before. The main area contains the two KPIs from the previous step. In the top right corner, there is a 'Designer' button.

13. Click on the **Add Filters** option in the right-side menu

The screenshot shows the SAP Analytics Cloud interface in Story mode with the 'Builder' panel open on the right. The 'Filters' section is highlighted in the Builder panel.

14. In drop down menu select the **order date (Range)**

The screenshot shows the SAP Analytics Cloud interface. On the left, the navigation bar includes 'Home', 'Files', 'Stories', 'Analytic Applications', 'Data Analyzer', 'Digital Dashboard', 'Datasets', and 'Workspace Management'. The main area displays two large numerical values: '8,485,360.00000000' and '287,906'. To the right is a 'Builder' panel with sections for 'Measures' (Primary Values: net_amount, quantity), 'Filters' (order_date (Range)), and 'Properties'.

15. Change Granularity to Quarterly, select look back to 1, and turn on the Include range to Current Period. Then select OK

The screenshot shows the SAP Analytics Cloud interface with a 'Set Date Range for order_date' dialog box open. The dialog allows setting a range from 'Jul 1, 2021 - Oct 8, 2021'. It includes options for 'Dynamic' or 'Fixed' range type, 'Current Date' selection, and a dropdown for 'Range Type' set to 'Quarterly'. The 'Look Back' field is set to '1'. The 'Include Range up to Current Period' checkbox is checked. The 'OK' button is visible at the bottom right.

16. Go back to data tab and next let's build a top 15 books sales report.

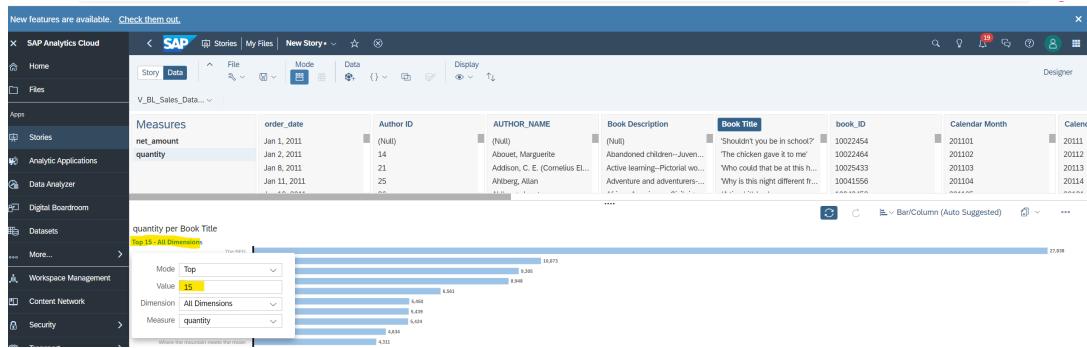
The screenshot shows the SAP Analytics Cloud interface with the 'Data' tab selected. A table titled 'V_BL_Sales_Data...' is displayed, showing columns for Measures (order_date, net_amount, quantity), Dimensions (Author ID, AUTHOR_NAME, Book Description, Book Title, book_ID, Calendar Month, Calend), and a chart below the table.

17. Select the measure: Quantity and the dimension: Book Title

The screenshot shows the SAP Analytics Cloud interface with the 'Data' tab selected. A bar chart titled 'Top N (AUTO)' is displayed, showing the top 15 book titles by quantity. The chart includes labels for each bar: 'The BFG', 'Inkheart', 'The mouse of bernes', 'The little prince', 'Dry - Tales of childhood', 'The princess and the Goblin', 'The secret garden', 'Don't let the pagem eat your book', 'Clock, click, cross - cross that type', 'Shall we be in school?', 'The chicken gave it to me!', 'Who could that be at this...', 'Adventure and adventures...', and 'Why is this night different...'. The chart has a legend indicating 'Book Title'.

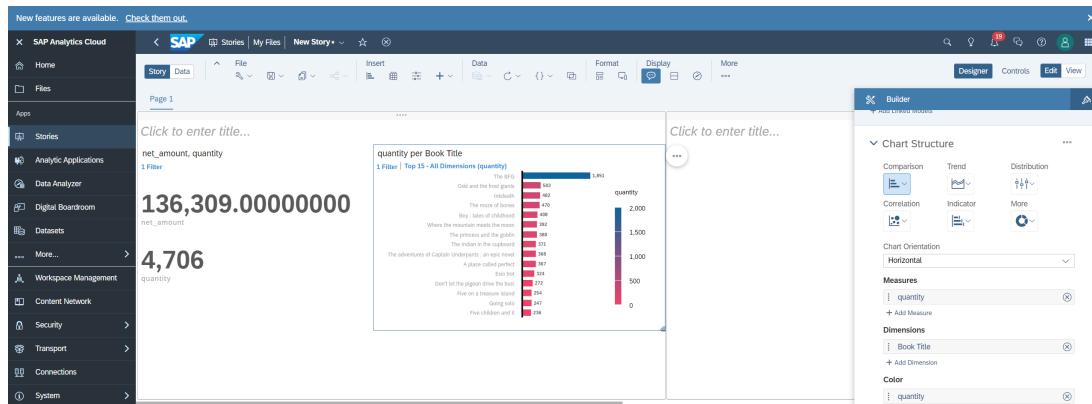
18. Next click on the TOP N on left of the generated graph

Change the Value 15 and hit enter



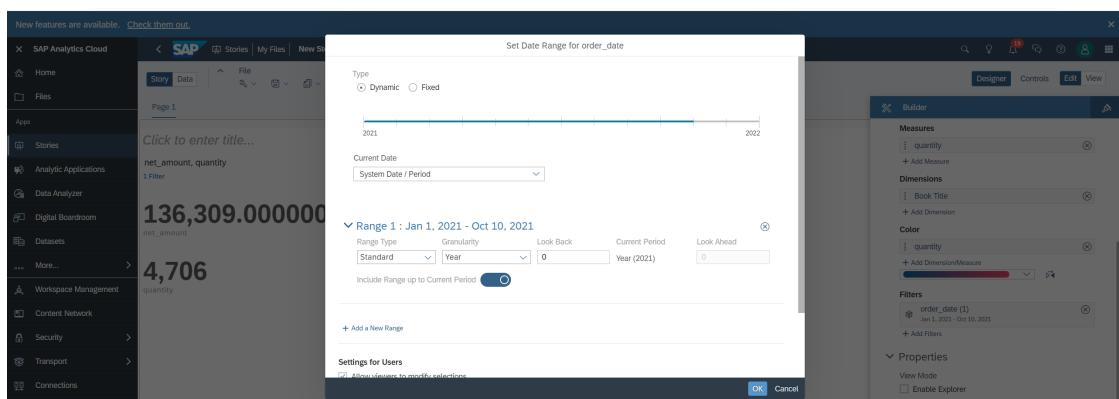
19. Copy report to Page 1

20. Change Chart Structure type to Heat Map then back to Bar to add stacked effects on the report



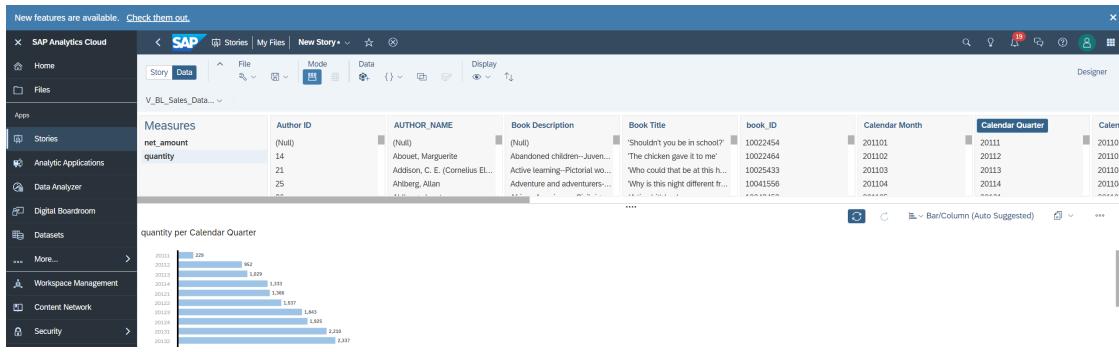
NOTE: It may loose the measure field with some changes so click on the add Measure to add Quantity back to the chart

21. Add Filter and select year and do current period then select OK

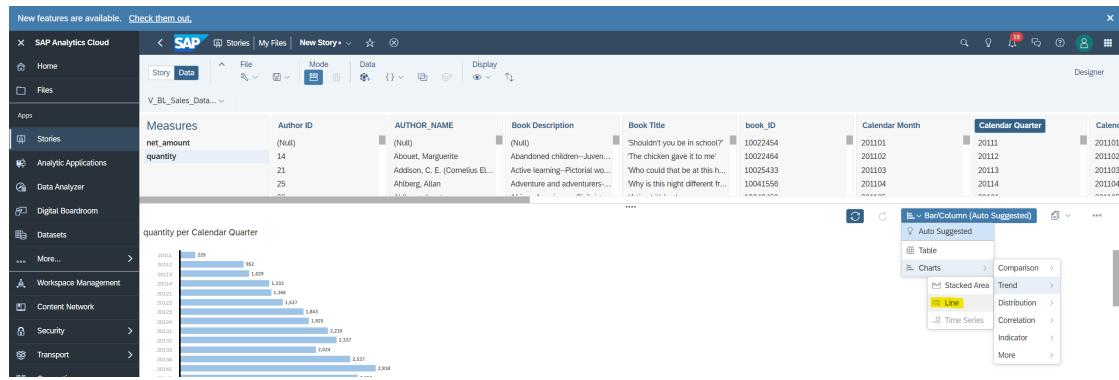


22. Go Back to data tab. Next build a time series chart

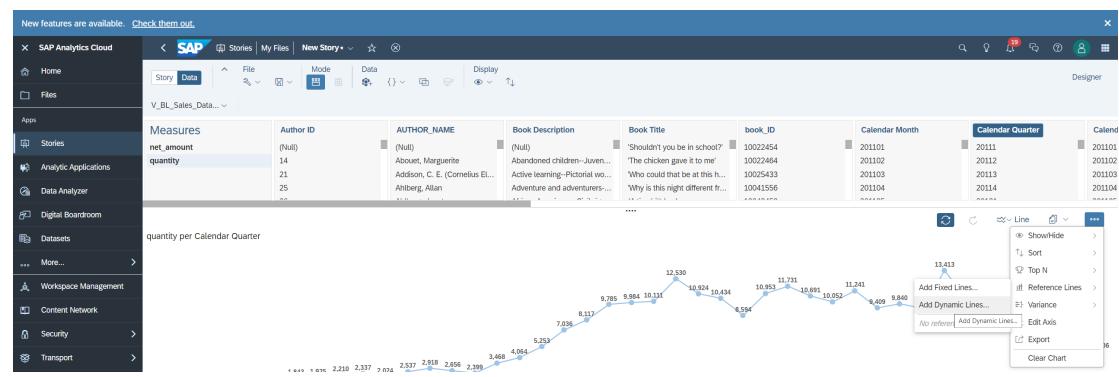
23. Select the Quantity and Calendar month



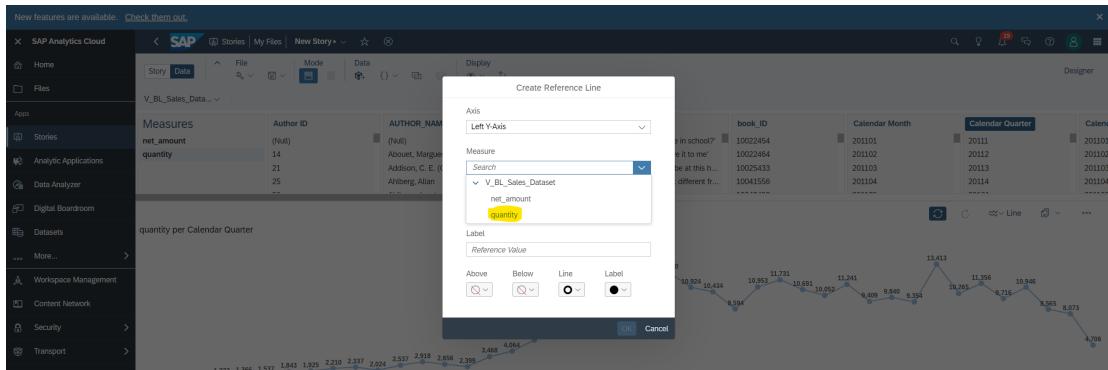
24. Next where you see auto suggest click on it, then select Chart → Trend → Line



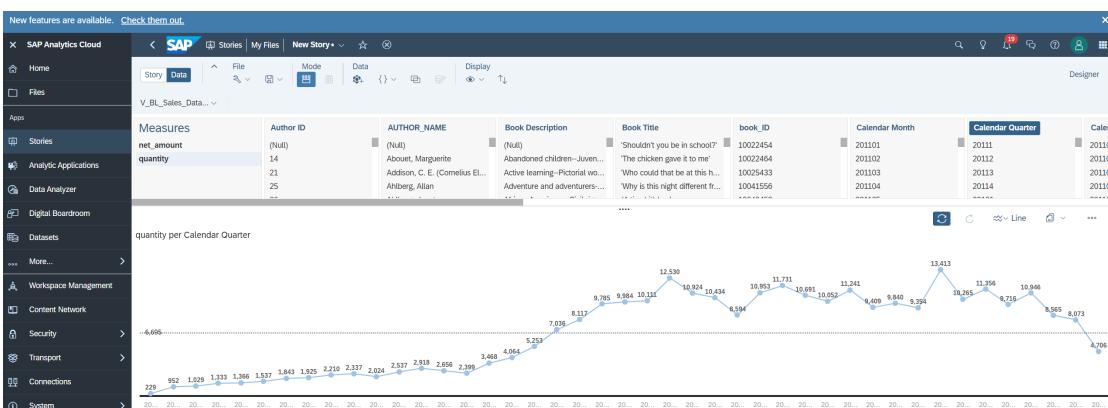
25. Next click on additional options (3 dots on right) → Reference Lines → Add Dynamic Lines



26. Click on the dropdown list and select data source and select quantity

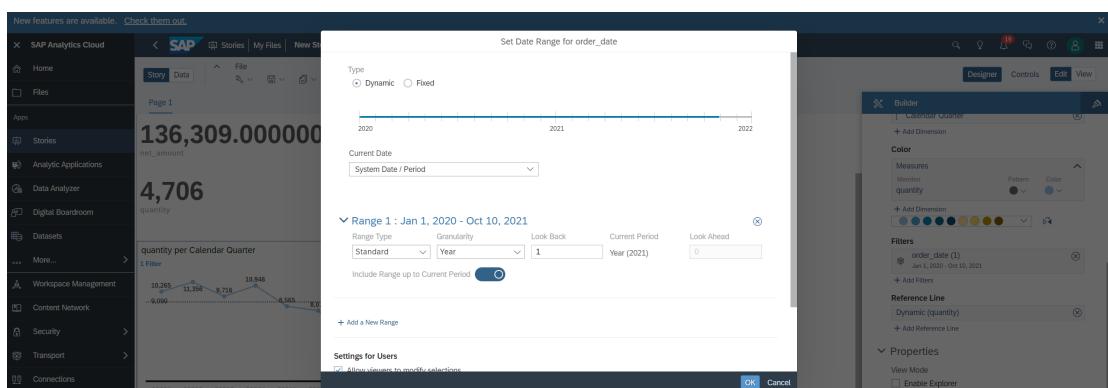


27. Finally click on ok to add the average line the time series chart

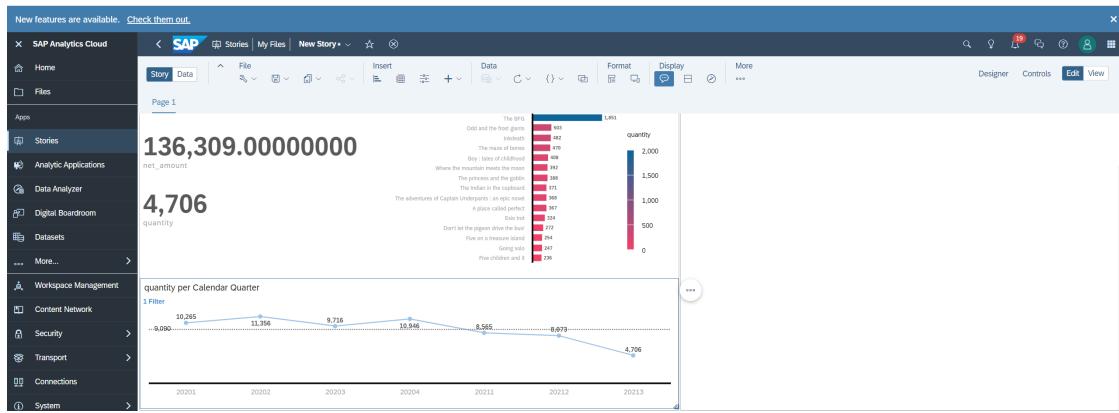


28. Copy to page 1

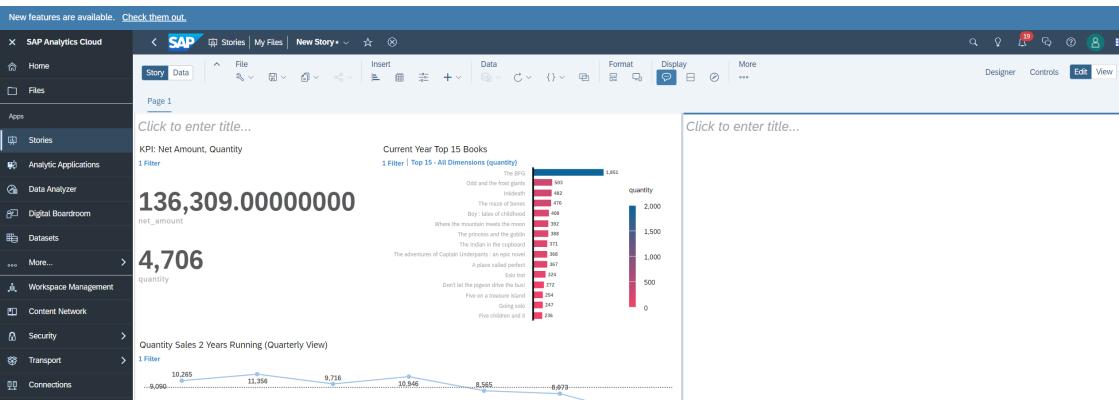
29. Add filter and again time period year with current period selected and looking back 1 year



30. Fit Chart to size as needed (Go to bottom right of chart to change size)



31. Can rename the Charts by double clicking on the chart names

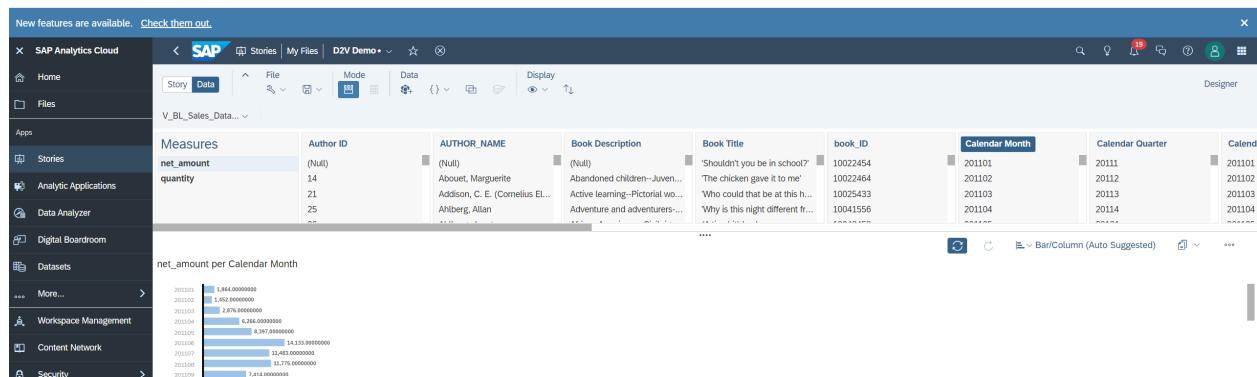


6.3 Creating Interactive Report

PLEASE NOTE: Make sure to save work regularly (For all to access save in Public or for own use create user folder and save to local user folder)

32. Next we will add 4 quarterly reports to add to the right side Pane

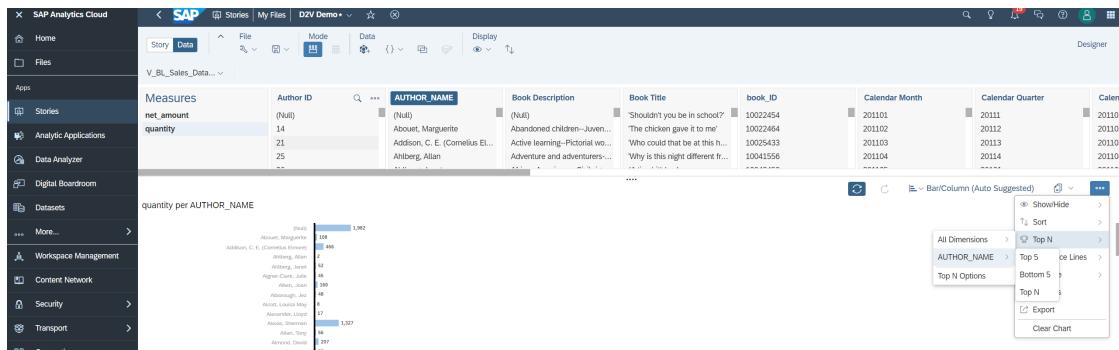
33. First go to data and select Net Amount and Calendar Month



34. Copy to Page 1

Note: May need to click and drag chart to right Pane

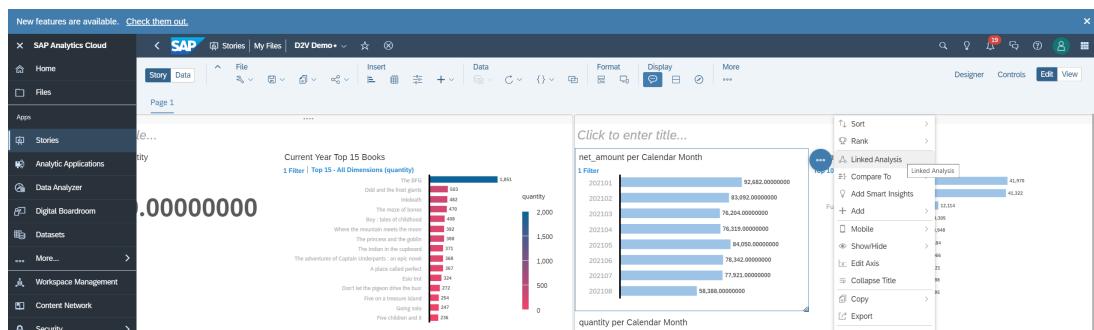
35. Add filter order date (range and do current year)
36. Go back to data and another report same as before with quantity (remove net amount) this time as the measure and copy to page 1
37. Again, add filter on the date range to current year
38. Next we will add Top 10 Author chart Go to the Data and this time select quantity and Author_Name. Click on the 3 dots for extra option and select the Top N → Author Name and change value to 10



39. Copy to Page 1 click and drag to Right Pane
40. Finally and fourth chart for Top Book Titles. Go back to data and select Quantity and Book Tile. And as previous report go to extra options, Add Top N and value 10
41. Copy to Page 1 click and drag to Right Pane
42. Next we will add a Link Analysis to make these 4 reports interactive to each other.

Go to additional options by clicking on the chart and then the 3 dots

Select Link analysis in the menu

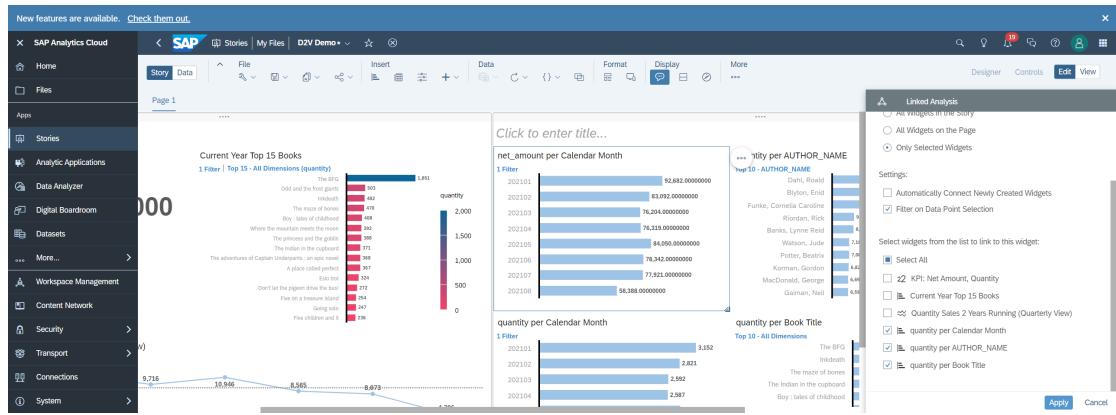


43. Select Option Interaction Apply to : Only selected widgets

Setting: Filter on Data Selection

Select the 3 other charts you just created

And then hit Apply



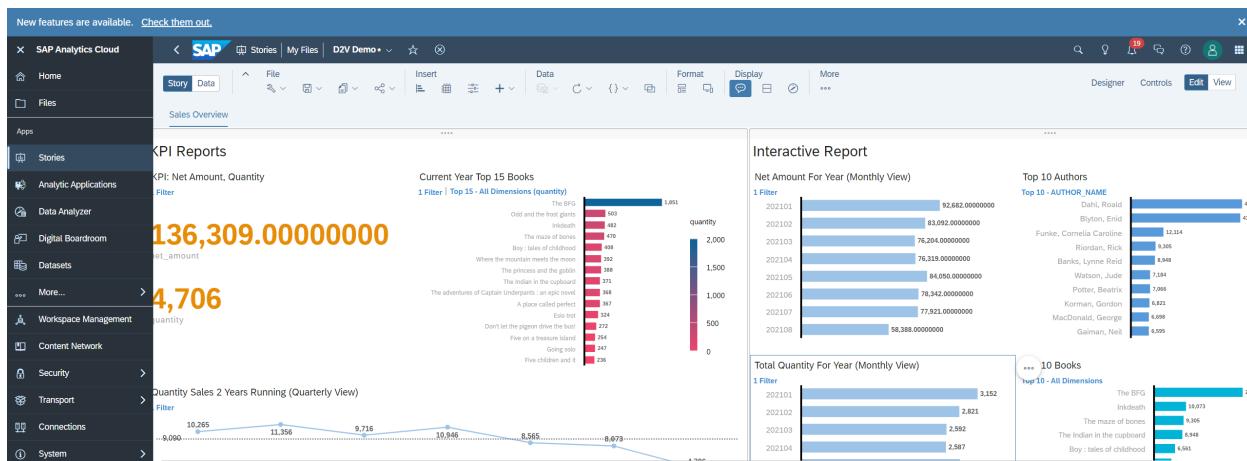
44. Complete for remaining 3 charts on the right Pane

45. Verify link is successful by click on any data column in any of the four charts

6.4 Finalize look and feel

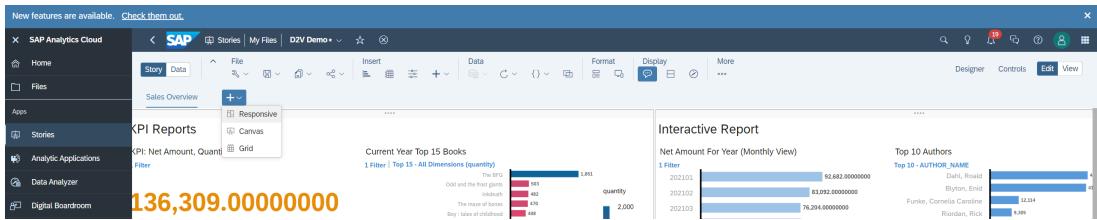
Optional but request at min to do Page and Pane Naming for easier identification for Badges

- Name the Panes (Left Pane KPI Reports, Right Pane Interactive Report)
- Name the Page1 (click on drop down menu and select rename) to Sales Overview
- Double click on chart to change chart Name
- Use Designer to add or change color of columns or data points
- Add Thresholds to help add comprehension and insightful color to the charts
- Click and Drag to fit table in working manner (easy to see and navigate)
- Go to Designer Style and change KPI and Measures to 2 decimal places



6.5 Add Pages to Your Story

46. Go to the Page 1 bar and will see Plus sign icon and in the dropdown, menu select Responsive



47. Here we can add another story page to use.

48. Let's add a final data overview to the new page

49. Change the Report type to Table

50. Go to Data and select following items : NET AMOUNT, QUANTITY, order_ID, order_date, Book_Title, Author_Name, Publisher

Measures	order_date	AUTHOR_NAME	Book Title	Calendar Month	Calendar Quarter	Author ID	Book Description	book_ID
net_amount	Jan 1, 2011	(Null)	'Shouldn't you be in school?'	201101	2011	(Null)	Abandoned children--Juven...	100224
quantity	Jan 2, 2011	Abouet, Marguerite	'The chicken gave it to me'	201102	20112	14	Active learning--Pictorial wo...	100254
	Jan 8, 2011	Addison, C. E., Cornelius El...	'Who could that be at this h...	201103	20113	21	Adventure and adventures--...	100415
	Jan 11, 2011	Ahlberg, Allan	'Why is this night different fr...	201104	20114	25		

A	B	C	D	E	F	G	H	I	J	K	L	M
1	Title						Measures	net_amount	quantity			
2												
3	order_date	order_ID	AUTHOR_NAME	Book Title	PUBLISHER							
4	Jan 1, 2011	126661	Dahl, Roald	The BFG	Puffin	10.00000000	1					
5		155195	Banks, Lynne Reid	The Indian in the cupboard	Collins	21.00000000	1					
6			Dahl, Roald	The BFG	Jonathan Cape	16.00000000	1					
7			Hodges, Margaret	Saint George and the dragon	Little, Brown	19.00000000	1					
8			Lewis, Naomi	Wild swans	Barefoot	43.00000000	1					

51. Copy to Page 1

52. Delete the right pane so can expand the table across whole screen

53. Size the table to fit whole pane now