

An Introduction to Alma Analytics Data Visualization (DV)

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	Agenda	
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- Introduction
- Accessing DV and creating a workbook
- Displaying and filtering data
- Accessing a saved DV workbook
- Using multiple visualizations in the same workbook
- Some examples





### Introduction

- In this presentation we will show a general introduction to OAS (Oracle Analytics Server) Data Visualization, specifically how it is used with Alma in the framework of Alma Analytics.
- The general introduction will be done by actually using the data visualization.
- See also blogs about specific Data Visualization functionality at <u>https://developers.exlibrisgroup.com/blog/?tag=data-visualizationdv</u>



### Introduction

- First we will create a data visualization workbook and save it, and then access it.
- Next we will add an additional visualization in the same "canvas" of the same workbook, using two different methods. Along the way we will show how different visualizations may be accessed and changed.
- Finally, we will show a few examples of other data visualization workbooks.



### Introduction

- This current presentation gives a high level overview.
- For more additional "Deep Dive" Data Visualization topics see also
- YouTube videos at <u>YouTube videos about OAS (Oracle Analytics Server)</u> and DV (Data Visualization)
- Developer Network blog posts at: <u>Blogs about DV (Data Visualization)</u>





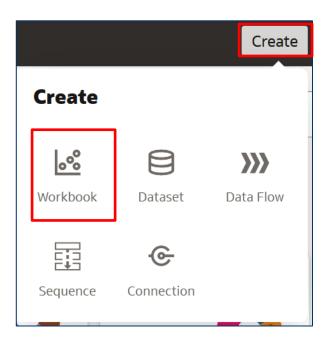


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- Data Visualization is accessed from the Analytics menu of Alma:

Create Analysis Access Analytics Access Data Visualization Access Analytics (Primo) Access Data Visualization (Primo)

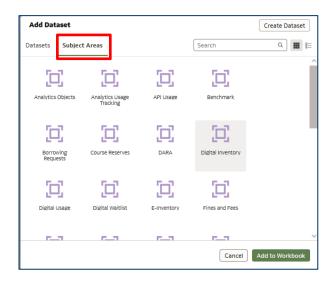


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- The Oracle Business Intelligence home page will open in a new tab and from there you can create a new workbook:





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- When creating a workbook an Alma Analytics subject area may be chosen:







• After adding a subject area, the following appears:

←	🛃 New Workbook		Data Visualize Present	<b>2</b>	× 🕼	□ -	⊿	₿▼ (	ŀ
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►	Fulfillment								
	Loan Details								
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	Other Classifications	Select Visualization to View Details	Drop Visualizations or Data Here						
	Item Location at tim…								
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►	Patron Details								
►	🗋 Borrower Details								
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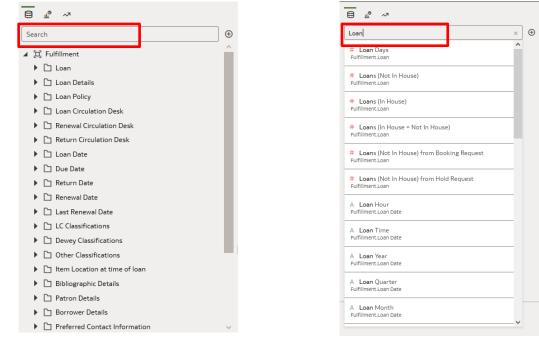
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- To display and filter data:
- Drag fields from the subject area on the left to the canvas on the right to display them.
- Drag fields from the subject area on the left to the filter section on the top to filter them (this can also be done by other methods such as right clicking fields and choosing "Create filter").



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- From within the data elements section of the navigation pane it is possible to search for fields:







- On the next slide we are using the "Fulfillment" subject area and
- Drag to the canvas the "Number of loans (not in house") and the "LC Classifications Group 1"
- Drag to the upper "Filters" section the "Loan Year" and "Number of loans (not in house)"
- Filter by "Loan Year" = 2022 and "Number of loans (not in house)" >= 100
- In the initial results we will right click the "LC Classifications Group 1" which is "Unknown" and choose "remove selected".





### • Here are the filters on top

Loan YearLoans (Not In House)2022≥ 100		
Pivot   Loans (Not In House) by Group1		
III Columns	Group1	Loans (Not In House)
	American literature	389.00
Rows	Christian Denominations	289.00
A Group1	Christianity	169.00
# Values	Doctrinal Theology	132.00
# Loans (Not In	English literature	197.00
	Fiction and juvenile belles lettres	368.00
② Color	Law of the United States	797.00
Ŀ <sup>⊐</sup> Size	Literature (General)	567.00
	Music	277.00
📩 Shape	Recreation. Leisure	103.00
Tooltip	The Bible	169.00
	United States	150.00
√ Filters	Unknown	10,212.00

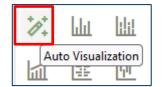


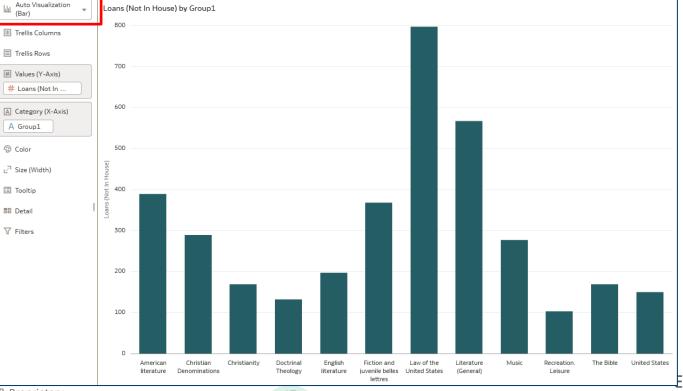
• In the initial results we will right click the "LC Classifications Group 1" which is "Unknown" and choose "remove selected".

Group1		Loans (Not In House)				
American liter	ature	389.00				
Christian Den	ominations	289.00				
Christianity		169.00				
Doctrinal The	ology	132.00				
English literat	ure	197.00				
Fiction and ju	venile belles lettres	368.00				
Law of the Un	ited States	797.00				
Literature (Ge	neral)	567.00				
Music		277.00				
Recreation. Le	eisure	103.00				
The Bible		169.00				
United Sta	Keep Selected	).00				
Unknown	Remove Selected	1.00				
	Sort By	•				
	Drill to Attribute,	/Hierarchy				
	Use as Filter					



• If we choose "Auto Visualization" then (in this case) the DV will choose for us a bar graph





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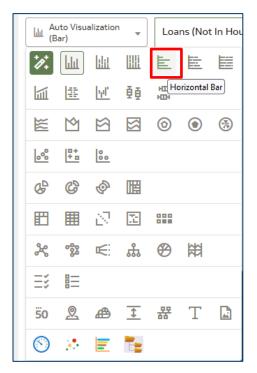
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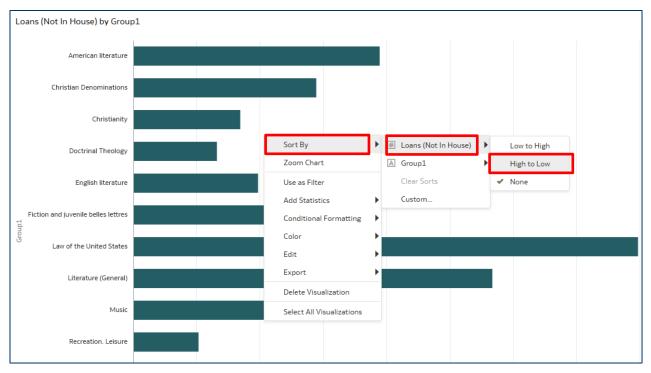


• We can click the visualization (where now it states "Auto Visualization (Bar))" and choose a different visualization. Here we choose Horizontal Bar.





• The values can be sorted as desired by right clicking and choosing "sort". We will sort the LC Classification Group 1 by loans high to low.

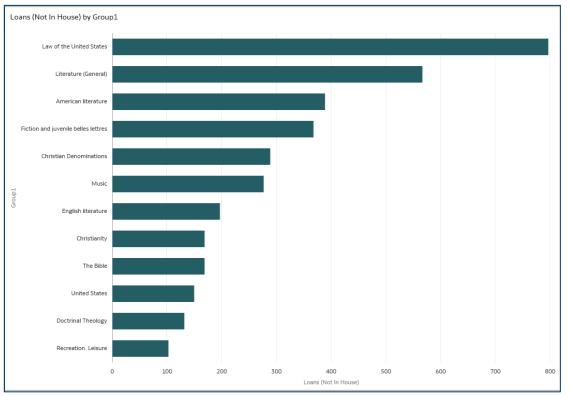




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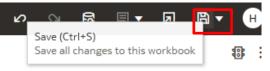
### • The data is now sorted:





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• Save the workbook via the "Save" button on the top right:



Save Workboo	k					
	Name	Loans 2022 by LC Group 1				
Des	scription					
All > My Folders			Q	Sort by	Туре 🔻	







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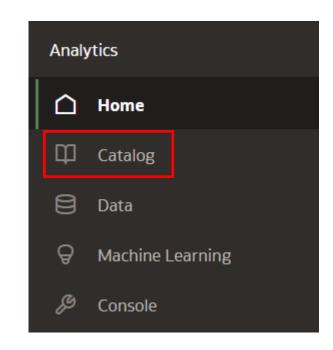
- The workbook can then later be accessed from the Data Visualization home page (which is accessed as we saw from within Alma choosing "Data Visualization" from the Alma menu).
- There are multiple ways to access and open the saved workbook. One way is:
- Click the three lines on top left
- Choose "Catalog"
- Navigate to where the workbook was saved
- Right click the workbook and choose "open"



**ORACLE** Analytics



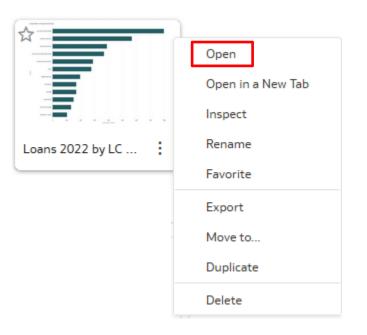
Click the three lines on top left and choose "Catalog"







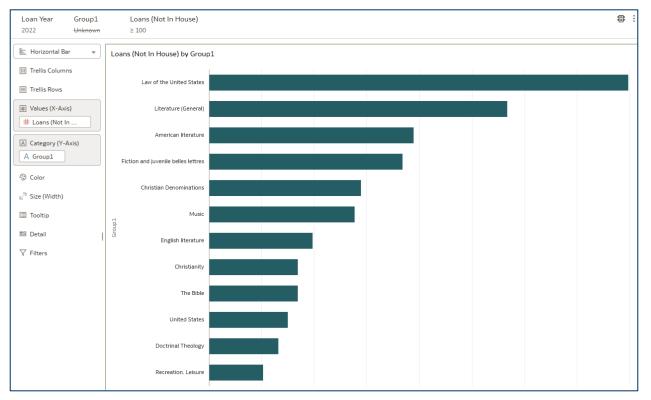
- Navigate to where the workbook was saved
- Right click the workbook and choose "open"







### • The workbook opens

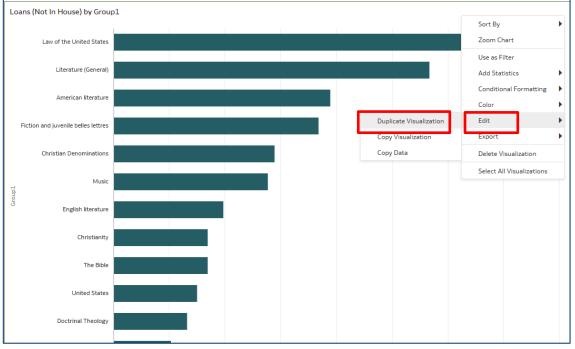








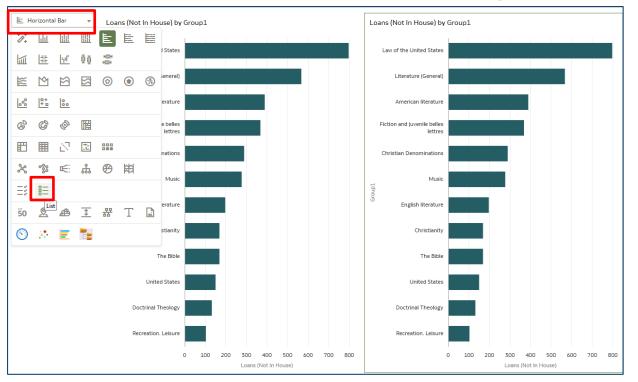
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- It is possible to have two different visualizations based on the same data on the same canvas. To do so first duplicate the visualization. "Menu (on top right of visualization) > Edit > Duplicate Visualization".







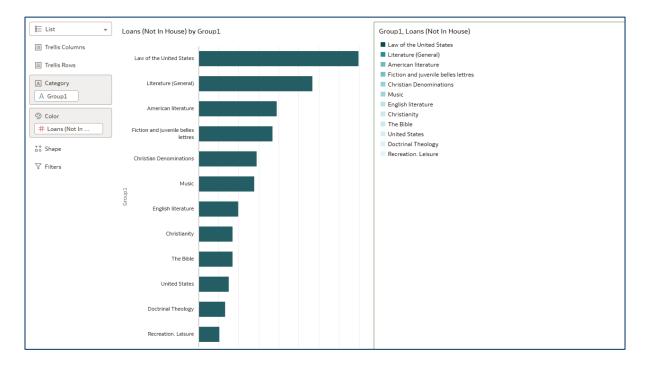
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- Now we have two identical visualizations and will change one of them to a list







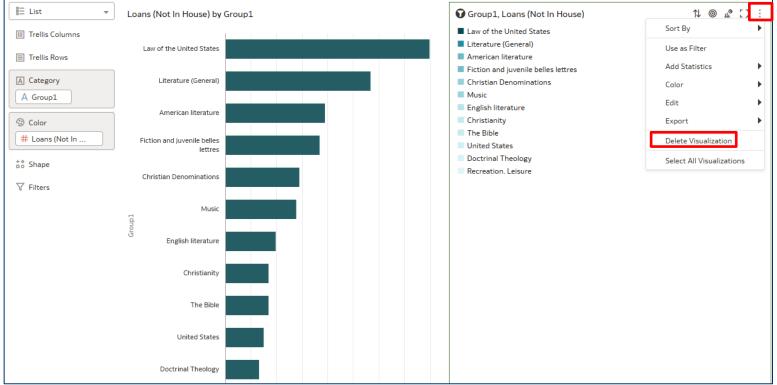
• Now we have two different visualizations with the same data on the same canvas. One is "Horizontal Bar" and one is a "List":







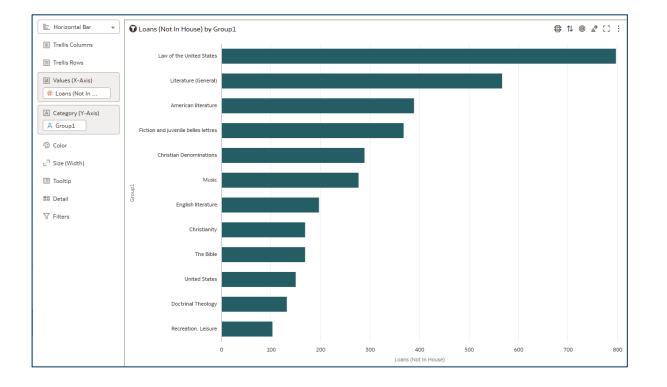
### • Now we will delete the "List" visualization:







• Now again we have one visualization on the canvas:







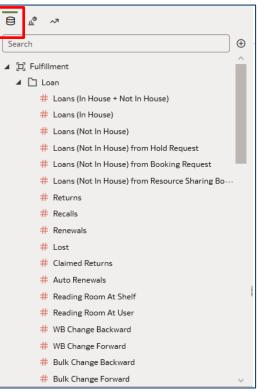
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 We can also have two visualizations on the same canvas with different data. Here we have clicked the "Visualizations" icon in the left pane and dragged in a new blank "Bar" visualization.



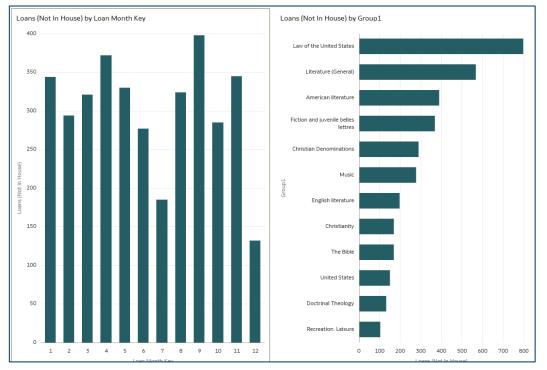


• With the new blank "Bar" visualization selected we can make a new visualization, for example with number of loans by month. First we select the "Data Elements" icon in the data panel.





And now we drag in to the "Bar" visualization the number of loans and loan month key. Now we
have two visualizations with different data in the same canvas. Note that in this case the filters
on the top apply to both visualizations in the same canvas.



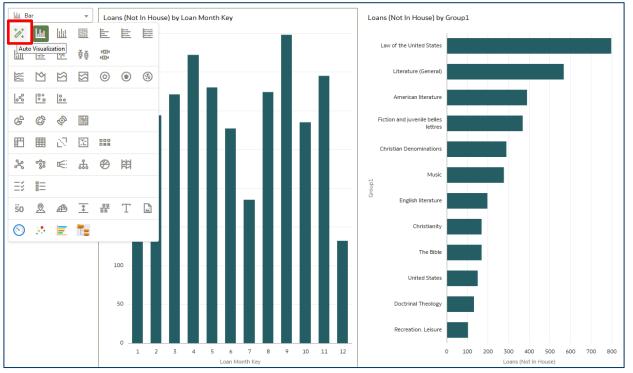


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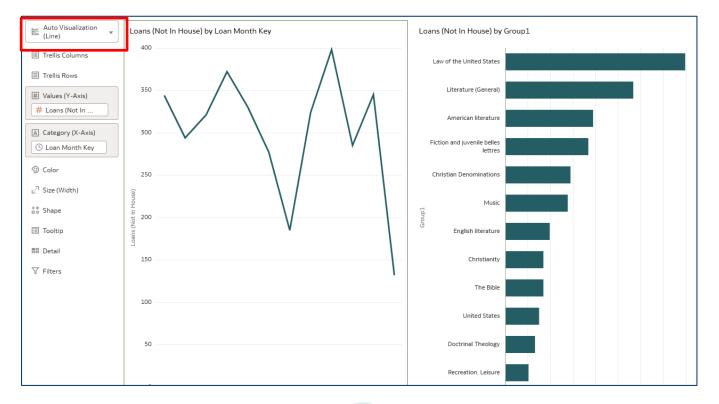


• Now instead of the "Bar" visualization on the left we will choose "Auto Visualization"





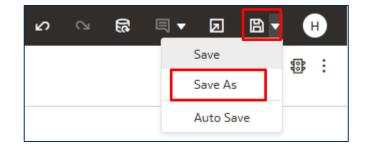
• This time the "Auto Visualization" chose a line graph

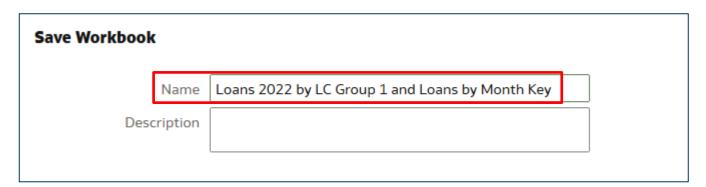






• And now we can save the workbook again, this time with a new name











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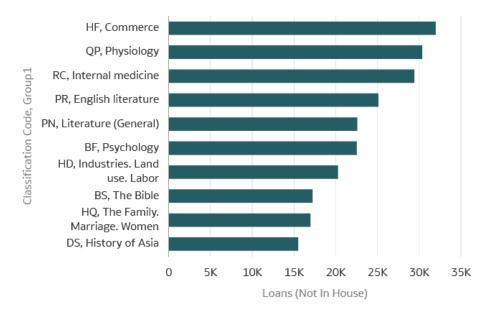


#### Top Ten LC Classifications by number of loans

#### Loans (Not In House), Classification Code, Group1

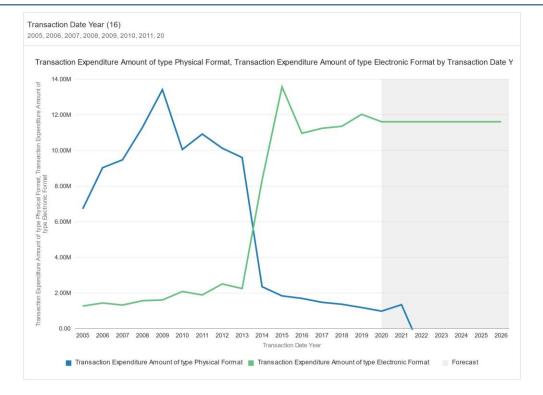
Loans (Not In House) 🔻	Classification Code	Group1
31,980.00	HF	Commerce
30,365.00	QP	Physiology
29,425.00	RC	Internal medicine
25,115.00	PR	English literature
22,584.00	PN	Literature (General)
22,519.00	BF	Psychology
20,275.00	HD	Industries. Land use. Labor
17,230.00	BS	The Bible
16,984.00	HQ	The Family. Marriage. Women
15,509.00	DS	History of Asia

#### Loans (Not In House) by Classification Code, Group1



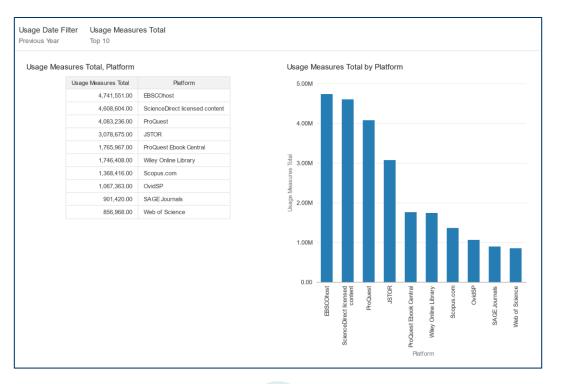


#### Physical and electronic expenditures with forecast





#### Top 10 platforms for COUNTER R5 usage in previous year





# Thank you!

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