Using Drill Down within Alma Analytics Reports

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Assumptions

 This presentation assumes you are familiar with creating reports/analyses in Alma/Primo Analytics.

About us

• William Paterson University

- public mid-size (9,000+ students) four-year university in northern New Jersey, USA
- We were a Voyager (Endeavor/Ex Libris) site since 2003
- In the summer of 2019, we went live with Alma and Primo (Ex Libris)



Where we are using drill down.

...at the moment, where we are using some drill down functionality:

- Current inventory counts
- Monthly addition / deletion counts
- Targeted monthly collection development report for liaison librarians (selectors)

Contents

- Reporting before Alma
- Creating a drill down report
- Link a drill down report to the source report
- Adding links to Primo

Reporting before Alma

- With Voyager, we had full SQL access to the data.
- We wrote numerous web pages/scripts in Cold Fusion and/or Perl to query Voyager's Oracle database management system.
- Data was sent through either:
 - scheduled email reports
 - on-demand web forms
- Reports were either in HTML or Excel.

Circulation by Location and Item Type - MONTHLY Report from Jul 01, 2018 to Jul 31, 2018 - 663

Item Perm Location || (MFHD Location / Item Temp Location / Item Type) || Number of Charges 2ndFloor

	ResDesk / / T- Book		1
	2ndFloor / ResDesk / T- Book		6
	2ndFloor / / T- Book		206
	2ndFloor / / T- BookDisk		7
	2ndFloor / / T- Score		6
		226	N722
CMC			
onno.	CMC / / T- Juvenile		90
	CMC / / T- TeachAid		17
	CMC / / T- Textbook		7
		114	
HobartHall			
	HobartHall / / E- HobartEquipment		207
	HobartHall / / E- Laptop		1
	HobartHall / / T- Book		1
		209	
II I Book			
1220 0011	III Book / / T- III -Book		31
	ieebook / <u> iee book</u>	31	
LendServ		51	
Londoon	47 / / M- AudioCD		1
	47 / ResDesk / M- DVD		3
	47 / / M- DVD		10
	417/10/00	14	10
McNaughton		14	
Mendaughton	McNaughton // T. Book McNaughton		G
	menaughten / / book-menaughten	6	0
		1	

What we mean by 'drill down'

The ability to click on a particular result in a source report to retrieve more specific results in a target report (drilled down).

What we mean by 'drill down'

- Using drill-downs, one report can feed into another
- One way to make large reports into more manageable chunks
- Involves two or more reports that are linked together



Two Steps

- 1. First, create the target (drill down) report.
- 2. Second, link the drill down report to the source report.

1. Steps to create a drill down report

- a) Create a report that takes same columns from the report you wish to drill down from.
- b) Add columns you wish to see in the drill down report.
- c) Use "is prompted" in the filters for the columns duplicated from the source report.

Comparing the filters between the original and the drill down report

Serials Monthly

Subjec	Y <i>g.P</i> 2002	
E-Inventory	Selected Columns	
Portfolio	Portfolio	Portfolio Activation Date
Portfolio Activ	📒 No. of Portfolio (In Repository) 🔯	Portfolio Activation Fiscal Year 🧔
Portfolio Crea		
🕨 🚞 Portfolio Modi		
🕨 🚞 Portfolio Libra	4	
🕨 🚞 Portfolio Licer	▲ Filters	
🕨 🚞 Portfolio PO L	T "Bibliographic Details" "Bibliographic	nhic Level" IN ('i' 's')
🕨 🚞 Portfolio PO L	AND Suppressed From Discovery is en	qual to / is in No
Portfolio PO L	AND Bibliographic Lifecycle is equal to	/ is in In Repository
Portfolio URL	AND Portfolio Activation Fiscal Year is	in Not Available greater than or equal to FY-2022
	AND Lifecycle is equal to / is in In Per	ository

Electronic Serials Drill Down

Criteria Results Prompts Advanc	ed
⊿ Subject Are ् †↓ ▼ ≫	
E-Inventory Total E-Inventory	Selected Columns
Portfolio Portfolio Activation Date	Portfolio
 Portfolio Creation Date Portfolio Modification Dat Portfolio Library Unit 	
 Portfolio License Portfolio PO Line 	✓ Filters ▼ "Bibliographic Details". "Bibliographic Level" IN ('i', 's')
Portfolio PO Line Approv Portfolio PO Line Creatio	AND Suppressed From Discovery is equal to / is in No AND Bibliographic Lifecycle is equal to / is in In Repository AND Availability is equal to / is in Available
Catalog	AND Resource Type is prompted AND Material Type is prompted AND Material Type is prompted AND Is Free is prompted
List All My Folders Shared Folders	AND Portfolio Activation Fiscal Year is prompted AND Portfolio Activation Month is prompted AND Lifecycle is prompted AND Electronic Collection Public Name is prompted

How "is prompted" works

Electronic Serials Monthly

				Title	Count MN	IS Id										
				FY-20	22											FY-
Bibliographic Details - Resource Type	Bibliographic Details - Material Type	Portfolio - Material Type	ls Free	July	August	September	October	November	December	January	February	March	April	May	June	Total
Journal	Journal	Journal	No	2	1	3	26	25	4	2	1	24	7	12	2	100
(Ceased publication) -			Yes		6	3	4	4	57	99	13	1	6	193	7	388
Electronic		Newspaper	No											2		2

- If one clicks on the number '26' under the 1st October column, one will retrieve a report of 26 records.
- The report of 26 titles is limited by the fiscal year, the month, the 'Is Free' is 'no', material types are 'Journal', and the resource type is 'Journal (Ceased publication)'.

Electronic Serials Monthly

				Title	Count MM	AS Id										
				FY-20	022											FY-
Bibliographic Details - Resource Type	Bibliographic Details - Material Type	Portfolio - Material Type	ls Free	July	August	September	October	November	December	January	February	March	April	May	June	2022 Total
Journal	Journal	Journal	No	2	1	3	26	25	4	2	1	24	7	12	2	100
(Ceased publication) -			Yes		6	3	4	4	57	99	13	1	6	193	7	388
Electronic		Newspaper	No											2		2
			Yes							18						18
		Unknown	Yes						1							1
		Wire	Yes							10						10
Journal -	Journal	Book	No	7			1	1	2					1		12

- If one clicks on the word 'Journal' in the 3rd column, one will retrieve a list of 488 records
- The report of 488 titles is limited by the two material types 'Journal', and the resource type is 'Journal (Ceased publication)'.

Electronic Serials Monthly



- If one clicks on the word 'Journal' in the 2nd column, one will retrieve a list of 519 records.
- The report of 519 titles is limited by the bibliographic material type 'Journal' and the resource type 'Journal (Ceased publication)'.

c. How to filter a column to "is prompted"

- i. Determine which columns need to be prompted.
- ii. For each column ,
 open the drop
 down menu and
 select filter.

Serials Drill Down

Criteria Results Prompts Advance	ed					
🛛 Subject Are 🔍 †↓ 🔻 »	T 3 2					
E-Inventory	✓ Selected Columns					
Portfolio	Portfolio			Bibliographic	Details	
Portfolio Activation Date	🚪 No. of Portfolio (In Repository) 🔯	📕 Portfolio - Material Typ	e 🔯	Title 🔯	MMS	Id 🔯
Portfolio Creation Date			î↓	Sort	Þ	
Portfolio Modification Dat			fx	Edit formula		
Portfolio Library Unit	4		XYZ	Column Prop	erties	_
Portfolio License	Filters		6	Filter		
Portfolio PO Line	T "Bibliographic Details" "Bibliograp	hic Level" IN ('i' 's')	X	Delete		-
Portfolio PO Line Approv	AND Suppressed From Discovery is ed	ual to / is in No			A-	
Portfolio PO Line Creatio	AND Bibliographic Lifecycle is equal to	/ is in In Repository		Save Column	AS	
Portfolio URL Information	AND Resource Type is prompted	apie				

- iii. Scoll down to the bottom to select
 "is prompted"
 under the Operator row.
- iv. Save your work and repeat for the remaining columns.



2. How to link the drill down report to the source report

- a) Pick the column you wish to have linked to the target.
- b) Click on the gear to open up the drop down menu.
- c) Select column properties.

orites 🔻	Dashboards 🔻 Create	e 🔻 Open
		۵ ×
	Bibliographic Details	Portfolio
ree 🔯	Title Count MNIS Id 🔯	Portfolio
	↑↓ Sort <i>fx</i> Edit formula	
	Column Properties	÷
L	Filter	™ ¾ ≫
	🗙 Delete	
	Save Column As	

2d. Add an action link by clicking on the '+' sign

Style	Column Form	at Data Fo	rmat Conditional For	mat Interaction		
Col	umn Heading	3				
Pri	imary Interactio	on Default (D	orill) 🔻			
Valu	16					
Pri	mary Interaction	on Action Lin	ks	•		
Actio	n Links			+/	<	
	Link Text	Action	Show Link			
					\simeq	
)o not display in	a popup if or	nly one action link is av	ailable at runtime		
	nable on Totals					

2e. Add a link text. Click on the first icon in the Action row to open up the drop down menu.

r mary men	Delaur (L			
Value				P
Primary Intera	action Action Lin	ks 🔻	ition Month 🔅	I
Action Links		+/×		
Link Tex	t Action	Show Link New Action Link	0	×
		Link Text Titles		
		Action	* * =	*
🗌 Do not displa	iy in a popup if o	Show Link Always Conditionally		
Enable on To	tals		OK Canc	el
			Connect	

2f. Select Navigate to BI Content.

					Portfolio
Action Links	5	v		ition Month 🔅	📕 Is Free 🔯
		+/×			
ction	Show Lin	k			
	New Acti	on Link		0	×
	Link Text	Titles			
	Action			たなこ	
	Show Link	Always O Conditionally		A Navigate	e to BI Content
pup it on				🚿 Navigate	e to a Web Page
				券 Invoke a	Web Service
			OK Canad	养 Invoke a	a Java Method
			OK Cancel	券 Invoke a	Browser Script
				券 Invoke S	Server Script
				💰 Invoke a	an HTTP Request

2g. Select the desired drill down report.



2h. You can click OK to complete. But I prefer to use Options.



2i. Selecting 'Open in New Window', spares having to use the back button.

Invoke Action	
Customize the info	ormation displayed to the user when invoking the action.
Run Confirmation	Are you sure you want to invoke this action?
Dialog Title	Invoke Action
Action Help Text	Enter the values for action parameters and execute
Link URL	Label
Execute Button Text	Execute
Open In New Window	

A completed Action Link

style	Column Format	t Data Format Conditional F	ormat Interaction	
0.1				·)
COL	umn Heading			
Pri	imary Interaction	n Default (Drill) ▼		
Valu	le			
Pri	imary Interaction	n Action Links	•	
Actio	on Links			+/×
	Link Text	Action	Show Link	
	Titles	Electronic Serials Drill Down	Always Enabled	
				\times
)o not display in a	a popup if only one action link is	availab <mark>l</mark> e at runtime	
	Enable on Totals			

One can add more than one Action Link to a link on a report.



Adding links to Primo

- Column Formula Customization
- Column properties
- Creating the link

Column Formula Customization

	Bibliographic Details
epository) 🏠 🔢 Portfolio - Material Typ	e 🕸 👔 Title 🕼 MMS Id 🥸 👔 MMS Id 😨 👔 Bibliographic Level
Edit Column Formula	
Column Formula Bins	
Folder Heading	Bibliographic Details
Column Heading	any.contains.MMS Id
	Custom Headings Contains HTML/JavaScript/CSS Markup
Aggregation Rule (Totals Row)	Default (None) 🔹
Available	Column Formula
Subject Areas	o 'any contains.' "Bibliographic Details"."MMS Id"
E-Inventory Final E-Inventory Portfolio Portfolio Portfolio Activation D	Date
	Edit Column Formula Edit Column Formula Column Formula Bins Folder Heading Column Heading Column Heading Aggregation Rule (Totals Row) Available Subject Areas Subject Areas Portfolio Portfolio Portfolio

Column Heading: any.contains.MMS Id

Column Formula:

'any.contains,' || "Bibliographic Details"."MMS Id"

Column Properties



Creating the link

Naviga Enter th	te to a Web Page ne URL you want this action to display.			
URL	search_scope=searchall_two&vid=01WILLIAMPAT_INST:WPUNJ&offset=0	Define Parameters		
Options		ок	Cance	
enable	on totals		_	
💰 Create Ne	w Action		0	
Naviga Enter th	te to a Web Page ne URL you want this action to display.			
URL	https://primo.wpunj.edu/discovery/search?query=any,contains,{MMSID}&tat	Define Para	meters	

Steps:

- 1. Search Primo (for any MMS ID) and grab the search results URL
- 2. Replace the part of the URL that contains the MMS ID that you searched for with: {MMSID}

3. In "Define Parameters," check/uncheck boxes and choose the 'any,contains' option for the "Value"

3 Create New Action						Action Options	
Navigate to a Web Pag Enter the URL you wan	e t this action to display.					Invoke Action	
URL https://primo.wg	ounj.edu/discovery/search?query=@{1}&	ab=@{2}&search_s Define Parameters				Customize the in	formation displayed to the user when invokin
Define Parameters	www.ere within the URL use the token @	(Name) where 'Name' is the value specified in the Nar	ne column be	low		Run Confirmation	Are you sure you want to invoke this acti
There is no limit to the number	of parameters that can be embedded.				+ ×	Dialog Title	Invoke Action
Name	Prompt	Value	Fixed	Hidden 🕢	Optional	Action Help Text	Enter the values for action parameters ar
1	query	any,contains,{MMSID}			o i		
2	tab	Everything				Link URL Execute Button Text	Execute
3	search_scope	searchall_two	2		•	Open In New Window	
4	vid	01WILLIAMPAT_INST:WPUNJ	2		2		
5	offset	₩ ▼ 0	2				
Options			<u> </u>		OK Capcal	In "Options," ch	eckbox to have Primo

Then you have the titles linked to Primo

ompound Layout												
Pivot Table												
									👔 Rows 1 - 500		annar.	
Bibliographic Details - Resource Type	Bibliographic Details - Material Type	Portfolio - Material Type	ls Free	Portfolio Access Type	PDA Name	License Status	License Name	Electronic Collection Public Name	Bibliographic Level	MMS Id	Title	
Journal (Ceased publication) - Electronic	Journal	Book	No	None	None			EBSCOhost American Antiquarian Society Historical Periodicals Collection: Series 1	EBSCOhost American Antiquarian Society Historical Periodicals Collection: Series 1	S	997377460005211	The Euterpeiad or, musical intelligencer : devoted to the diffusion of musical information and belies lettres
										Collection: Series 1		997377464105211
										997377469805211	The review	
								EBSCOhost	s	997372715605211	The collegian	
								American Antiquarian Society Historical	n ian al	997374912205211	The American museum of science, literature and the arts.	

References

Ex Libris Documentation

- ADVANCED ANALYTICS Technical Seminar 2018
 - <u>Covers 'action links' aka 'drill down'</u>
- How do I create a Pivot Table in Alma Analytics?
- How to create a link to Primo in an Alma Analytics report.pptx
- Analytics, Documentation
- Analytics, Best Practices and How-Tos
- Presentations and Documents Analytics

Other documentation

Oracle Business Intelligence Documentation

Oracle Business Intelligence Cloud Service

Harvard Wiki

• Analytics & Reporting, Harvard Wiki

Thank you



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