

MODIFYING EVERGREEN REPORT TEMPLATES

Pinpoint, View, and Analyze Data Points To Get the Information You Need



Empowering libraries. Empowering communities.

Today's Objectives

At the end of the session, you'll know

- How to change a report without changing the template
- How to rearrange or remove columns or filters
- How to change and add filters
- How to add data points to the template
- Starting from scratch
- How to turn what you want to know into a template
- How to modify an existing template to set up a recurring report

Essentials to turn what you want to know into a template

- Write out what you want
 - Ask the question or write out a statement
 - Sketch a table that shows the columns and rows you expect to see
 - Decide how you need to limit the data
- Find an existing template with similar fields so you can modify it
 - Search; Limit to Name or Description (Descriptions include key terms)
 - Browse shared subfolders. Start with templates created by WLS staff
 - Send an email to me at support@wlsmail.org for suggestions
- Start from the Create a new Template for this folder link in a subfolder

Essential Questions

Can I

- change the report definition instead of the template to get the results I want?
- remove or rearrange columns?
- change the WAY date information displays?
- change a filter operator to find and display different information?
- add a data point to the display?
- get completely different information than is in an existing template?

The Work Table and Sample List Output

Work Table						
What output do I want? I need	d a list of juvenile users u	with date of birth so I c	an update their profi	ile to teen		
Columns You Want Barcode, name, profile, DOB, last checkout date						
What Are the Limits?	My library patrons	r, profile, DOB, checkout	in last year			
Similar Existing Template	List users with dat	e of birth v2				
Fields to Add						
Fields to Remove	Address columns, p	hone				
Filters to Add	Last checkout date	, DOB				
Filters to Modify - How?		Sample Outpu	t	1		
Filters to Remove		First Name	Last Name	Barcode	Profile	Last Checkout Date

The Work Table and Sample "Count" Output

Work Table											
What output do I want? I need	d a list of juvenile users with date of	birth so I can update t	heir	profile to	teen						
Columns You Want	Barcode, name, profile, DOB, la	st checkout date									
What Are the Limits?	My library patrons, profile, DOL	B, checkout in last year	i								
Similar Existing Template	List users with date of birth v2	:									
Fields to Add		Back to output index									
Fields to Remove	Address columns, phone	Shelving Location		2022-11	2022-12	2023-01	2023-02	2023-03	2023-04	2023-05	
Filters to Add	Last checkout date, DOB	Audiobook	0	0	0	0	0	0	0	0	
	Cast checkout uate, DOD	Business & Finance	0	0	0	0	0	0	0	0	
Filters to Modify - How?		Fiction	0	0	0	0	0	0	0	0	
Filters to Remove		Job Information Center	0	0	0	0	0	0	0	0	
		New Book	0	0	0	0	0	0	0	0	
		New Nonfiction	0	0	0	0	0	0	0	2	1
		Nonfiction	0	2	3	3	2	0	4	2	T
		Reference	0	0	0	0	0	0	0	0	T
		Spanish Language	0	0	0	0	0	0	0	0	+

The Work Table

What output do I want?	
Columns You Want	Want a true table?
What Are the Limits?	Add Rows You Want to the list
Similar Existing Template	
Fields to Add	
Fields to Remove	
Filters to Add	
Filters to Modify - How?	
Filters to Remove	

Search For the Right Template

Search for term in Name field and the folder

- Evergreen.reports
- WLS Shared Report Templates
- Collections (WEST), Circulation (WEST), etc.

Browse the above folders

Contact me through the Help Desk

Edit an Existing Output to Get a Different Report

You can use one template to create different reports. When you set up a report, you create a report definition and an output. From an existing output, choose different filter options to create a different report

- Click the *output name*. At the right side of the pink box, click *Edit*.
- Example: Use the Copy Status v2 template to set up different reports for
 - Missing, Lost, Available soon
- Example: Use the Filter by Library, Shelving Location, and Circ Modifier template to
 - Set up a report of new movies
 - Set up a report to move new Fiction to Fiction
 - Set up a report to change Express to New

Column	Transform	Action	User Params
Call Number/Volume -> Call Number Label	Raw Data	Between	YA - And - YA Z
Call Number/Volume -> Owning Library	Raw Data	In list	S_NOR NOR S_RYE RYE Add Dei RYE
Copy/Shelving Location -> Location ID	Raw Data	In list	Westchester Reference YA Audiobooks & Movie YA Biography Add[Del] YA Biography YA College Info YA Express Item YA Fiction VA Graphic Book
Item -> Is Deleted	Raw Data	Equals	f

Report Definition Changes – Pivot Columns

Changing the Pivot Label Column changes the output display and ease of understanding.

Report Name:	WNR J circ 2021 Q3
Report Description:	
Report Columns:	Shelving Location Name Month Circ Count Circ ID
Pivot Label Column:	Shelving Location Name

Month Circ Count	Audiobook	Audiobook MP3	Available In Storage	Biography	Boardbook
2021- 07	142	1	0	82	88
2021- 08	138	0	2	70	98
2021- 09	122	0	0	77	73

Shelving Location Name	2021-07	2021-08	2021-09
Audiobook	142	138	122
Audiobook MP3	1	0	0
Available In Storage	0	2	0
Biography	82	70	77
Boardbook	88	98	73

Essential Terms

Term	Meaning/Use
Report Components	 Template - Identifies the source and type of information needed Report Definition - Identifies the specific information needed
	Output - The final product for that instance
Source	The dataset from which you can choose data pointsA template uses ONE source
	 Aged (privatized) data sources must be used to get historical circulation, hold, and other data
Source Path	 Lists available data points and Linked data Choose any data point that doesn't have a "link" icon To use a "link" data type, open the tree to the next level
Transform	Ways a datapoint can display or function in your outputMost data points use Raw Data

11

Essentials For Making Template Changes

The basic process

- 1. Select an existing template.
- 2. Clone the template (choose one of your folders)
- 3. In the template modification screen
 - 1. Rename must be unique version numbers can be helpful
 - 2. Edit Display Fields and/or Filters
 - 3. Write definition to match display and filters
 - 4. Save
- 4. Run test report
- 5. Re-modify as needed

Delete unneeded templates; reports and outputs will also be deleted

Changing existing display columns

Display Fields are

- Columns in list reports
- Can be columns or rows in count reports (using the Pivot Column menu)
- Can be easily remove or reorder report columns.

Right click a row to

- Remove it
- Move it up one row
- Move it down one row
- Change the Column Label (what displays in column header)
- Change the Transform (see slide 12)

#	Source Path	Column Label		Data Ty
1	Total Circulation Count, Including Legacy ->	Shelving Location		text
2	Total Circulation Count, Including Legacy ->	Call Number Label	Change C	olumn Label
3	Total Circulation Count, Including Legacy ->	Author (normalized)	Change C	olumn Documentation
4	Total Circulation Count, Including Legacy ->	Title Proper (normalized)	Change Tr	ransform
5	Total Circulation Count, Including Legacy ->	Publication Year (normalized)	Move Field	
6	Total Circulation Count, Including Legacy ->	Barcode		
7	Total Circulation Count, Including Legacy ->	Creation Date/Time	Move Field	d Down
8	Total Circulation Count, Including Legacy ->	Last Circulation Date	Remove F	ield
9	Total Circulation Count_Including Legacy ->	Total Circulation Count		int .

Example: remove columns from a weeding template

Add a display field – data points

Select a data point in the source path.

- As close to the top of the directory "tree" as possible.
- Select multiple data points to add at one time if they have the same transform.
- Selections are sticky. They will be added again if you don't deselect them.

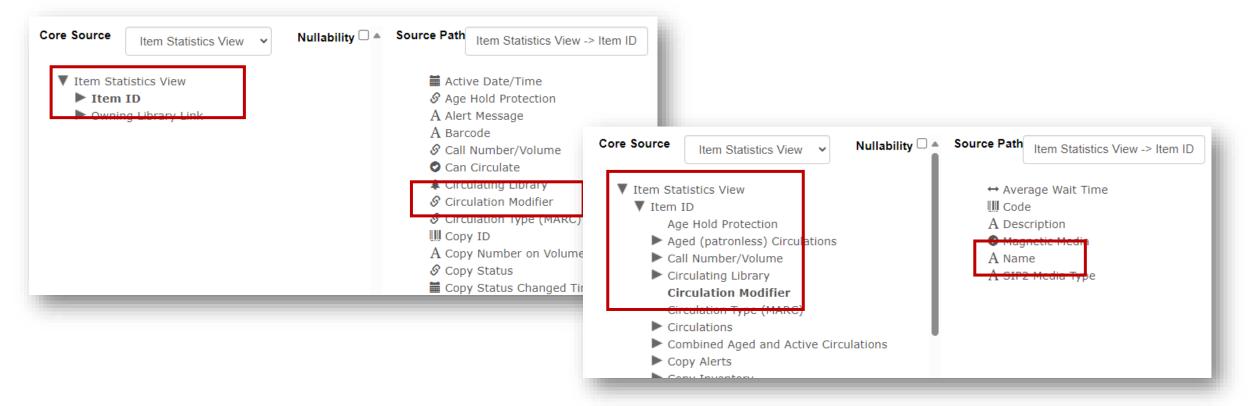
Total Circulation Count, Including Le V Nullability	□ ▲ S	Source Path	Total Circulation Count, Including Lega	cy -> Copy	fransform
 Total Circulation Count, Including Legacy Copy ID 		 Age Hold A Alert Me A Barcode Ø Call Nun ♥ Can Circu ♣ Circulati Ø Circulati Ø Circulati Ø Circulati IIII Copy ID A Copy Nu Ø Copy Station © Cost Ø Creating 	essage mber/Volume culate ing Library ion Modifier ion Type (MARC)) umber on Volume catus catus Changed Time g User n Date/Time		Raw Data First Value Last Value Count Count Distinct Min Max Day of Week Day of Week Day of Week Day of Week Day of Year Week of Year Wonth of Year Quarter of Year Hour of day Date Year Hioman Year

Add a display field – data points

Use Nullability to

- include null values, choose Child
- exclude null values, choose None

If you don't see the data point that you need or the data point has a link icon, open the "tree."



Paths to Often Used Data Points

Common title record fields

 Item > Call Number/Volume > Bib Record > Simple Record Extracts > Author, Title, Pub Date

Owning library 3-letter code in Item Source

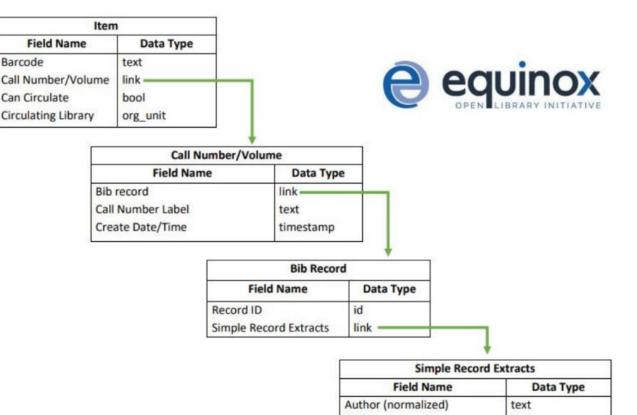
 Item > Call Number > Owning Library > Short (Policy) Name

Item Barcode in Item Statistics View (and others)

 Item Statistics View > Item ID > Barcode Transform = Last Value

Current Patron Barcode in ILS User Source

 ILS User > Current Library Card > Barcode Transform = Last Value



ISBN

Title Proper (normalized)

text

text

Data types

	DATA TYPE	DESCRIPTION	EXAMPLE FIELDS
,	Timestamp	An exact date and time (YYYY-MM-DD HH:MM:SS)	Creation Date/Time
	Text	A field of text	Patron's Last Name
	Bool	True or false	Is Deleted
	Org_Unit	Organizational Unit – a number representing a library, library system, or consortium	Home Library
ļ	ID	A unique number assigned by the database to identify each record	Circ ID
	Money	A monetary amount	Billing Totals
	Int	Integer – a number	Remaining Renewals
	Interval	A period of time	Circulation Duration
?	Link	A link to another database table	Bib Record

Add display fields - transforms

- 1. Choose a data point.
- 2. Choose a transform.

Every piece of information exists as raw data. The raw data can be transformed to display and/or act differently.

The transform can be chosen

- When the data point is added
- After the data point is in the Display Fields list.

Transform

Raw Data First Value Last Value Count Count Distinct Min Max Substring Lower case Upper case First 5 characters (for US ZIP code) First contiguous non-space string

Date Raw Data First Value Last Value Count Count Distinct Min Max Day of Week Day of Month Day of Year Week of Year Month of Year Quarter of Year Hour of day Date Year + Month Year Hour Day Name Month Name Age Months ago Quarters ago

Changing transforms

You can change the transform to

- modify the data coming from the fields to be more readable
 - Example: Timestamp
 - Raw Data: YYYY-MM-DD HH:MM:SS (2017-04-06 22:14:15)
 - Transform: Display as Date, Day of the month, Day of the week, Year+Month, Year, etc
- Count data (e.g., total number of circulations or patrons added)
 - Count tallies totals, including duplicates
 - Example: Total number of circulations for month
 - Count Distinct tallies total number, but excludes duplicates
 - Example: Total number of titles that circulated in a month
- Display the last/maximum or first/minimum
 - Example: The last date a copy status changed

Common Transforms

- Raw Data
 - The data as it is in the database
 - The most commonly used option
 - Can be "transformed" to display in another way or with a different functions
- Count
 - Tallies totals, including duplicates
 - Example: Total number of patrons added
 - To count by a date interval, like a month or week, use correct date transform and include the ID datapoint for what you want to count
 (Example: circ by month add Circ ID and Checkout Date/Time Month)
- Count Distinct
 - Tallies total number, but excludes duplicates
 - Example: Total number of titles that circulated in a month
- Last Value or Max are the most recent instance
- First Value or Min are the first or oldest instance

Add Field

- 1. Click Add Field.
- Add fields in the order that you want them to display so you don't have to move them up or down

OR

- Right-click a column for options: change the column label, move up or down, change transform, remove, etc.
- 2. Move fields until the display the columns are in the order you'll want them

Changing Existing Filters

- Fields used to identify the information to include and exclude from the final output
- You can
 - Change the transform
 - Change the operator
 - Change the filter value
 - Remove the filter value
 - Remove Field (the filter)

1 Total Circulation Count, Includi Location ID id id In list Raw Data 2 Total Circulation Count, Includi Organizational Unit ID id org_unit In list Raw Data 3 Total Circulation Count, Includi Call Number Label label text Contains Matching substring (i Raw Data Change Column Documer 4 Total Circulation Count, Includi Is Deleted deleted bool Equals Raw Data Change Transform 5 Total Circulation Count, Includi Checkout Date/Time xact_start timestamp Less than or equal to Date Change Operator Change Filter Value Change Filter Value Change Filter Value Change Filter Value		Add Fields					M	•	Actions -	Rows 25 -	Page 1
2Total Circulation Count, Includi Organizational Unit IDidorg_unitIn listRaw Data3Total Circulation Count, Includi Call Number LabelIabeltextContains Matching substring (i Raw DataChange Column Documer4Total Circulation Count, Includi Is DeleteddeletedboolEqualsRaw DataChange Transform5Total Circulation Count, Includi Checkout Date/Timexact_starttimestampLess than or equal toDateChange Filter Value	#	Source Path	Name	Column	Data Type	Operator	Fi	ield Tra	nsform	Filte	r Value
3 Total Circulation Count, Includi Call Number Label Iabel text Contains Matching substring (i Raw Data Change Column Documer 4 Total Circulation Count, Includi Is Deleted deleted bool Equals Raw Data Change Transform 5 Total Circulation Count, Includi Checkout Date/Time xact_start timestamp Less than or equal to Date Change Operator Change Filter Value Change Filter Value Change Filter Value Change Filter Value	1	Total Circulation Count, Includi	Location ID	id	id	In list	Raw Data	a			
a Total Circulation Count, Includi Cair Number Laber haber text Contains Matching Substring (I Raw Data Change Transform 4 Total Circulation Count, Includi Is Deleted deleted bool Equals Raw Data Change Transform 5 Total Circulation Count, Includi Checkout Date/Time xact_start timestamp Less than or equal to Date Change Operator Change Filter Value	2	Total Circulation Count, Includi	Organizational Unit ID	id	org_unit	In list	Raw Data	а			
5 Total Circulation Count, Includi Checkout Date/Time xact_start timestamp Less than or equal to Date Change Operator Change Filter Value	3	Total Circulation Count, Includi	Call Number Label	label	text	Contains Matching substring (i	Raw Data	a	-		entation
Change Filter Value	4	Total Circulation Count, Includi	Is Deleted	deleted	bool	Equals	Raw Data	a	Change	Transform	
	5	Total Circulation Count, Includi	Checkout Date/Time	xact_start	timestamp	Less than or equal to	Date		Change	Operator	
									Change	Filter Value	
Remove Filter Value											
									Remove	Field	22

Filter essentials

- Common Filters
 - In most item templates, **include** the *"is deleted?"=F* filter
 - In most circ templates, **exclude** the "is deleted?" filter
 - In most patron templates, include the *"is Active?=T* filter
 - To create a list of options, choose the "ID" datapoint and use the "In List" operator
 - If a filter is added, it must be filled out when the report is run
- Common Operators: Between, Contains, In List (use ID datapoint), Is Null, Is not NULL
- Transform: data type must match what works with your operator

Changing filters

- 1. Right-click the filter.
- 2. Choose what you want to change.
- 3. Choose from the menu.
- Enter Filter values in the data format that matches the data transform in the column field. Multiple values are comma separated
 - Sample: List Patrons with fines BELOW a certain amount. Filter to find items for a date AFTER instead of a date BEFORE (change an operator)
 - Sample: Change the type of date filter from a monthly report to a date range. Change both:
 - the transform from Month+Year to Date
 - the operator from Equals to Between
- Enter a text filter value EXACTLY as it displays in Evergreen, case sensitive

Practice

- Weeding template that removes unneeded fields
- Patrons whose cards are expiring between two set dates. (Patron Name, card #, Date expire)
- Items in a shelving location by the number of Circs eg. Any item that has circ'd more that 30 times in Fiction regardless of age, last circ date, etc.
- A dynamic report that could run monthly by shelving location that includes circ counts. ex. shelving location bestseller and circs from the previous 30 days
- Report of patrons who will be deleted from the database because of lack of activity. Patron Name, Card number, contact info

Sample: Juvenile Patrons With DoBs and Alerts

- 1. Start with *List Patrons With Date of Birth v2*
- 2. Remove Display Fields: Mailing and Phone fields
- 3. Add Display Fields: Alerts, Notes Title, Notes Content (all raw data)
- 4. Add Filter: Last checkout date (Date)
- 5. Change operator: Greater than or equal to

Links and Resources

Help Links

- Evergreen Reports Essentials
- <u>Evergreen Reports Recurring Reports Training Slides 9-21-2022</u> (printable)
- Purchase Alert Reports
- Allison Midgley, Senior Technology Training Coordinator
- <a>support@wlsmail.org
- Amidgley@wlsmail.org



Empowering libraries. Empowering communities.