

DIGITAL LITERACY: EXCEL AND EVERGREEN 184761

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Look at Evergreen Reports as more than numbers. Use that data to analyze, see trends, and put it in larger contexts.

Today's Objectives

At the end of the session, you'll know

- Best practices for loading Evergreen reports data into Excel
- Using Count reports for overviews
- Using List reports for details
- Using Pivot tables to summarize data
- Tips and hints



Best Practices

Evergreen Reports Data in Excel

Evergreen Essentials

Template Search

Pivot Columns

Calculate grouping subtotals

Template Search

Limit Field to Name by default Limit Folder to

- Circulation (WEST)
- Collections (WEST)
- Patrons (WEST)

Limit output to 10 V Start Prev Next

name Count Patrons by Library

and Permission

Group/Profile

Count Patrons by Library

and Profile By Year

Count Patrons by Library,

Profile, & Age Divisions

Select All None

WLS Shared Report Templates (WEST)

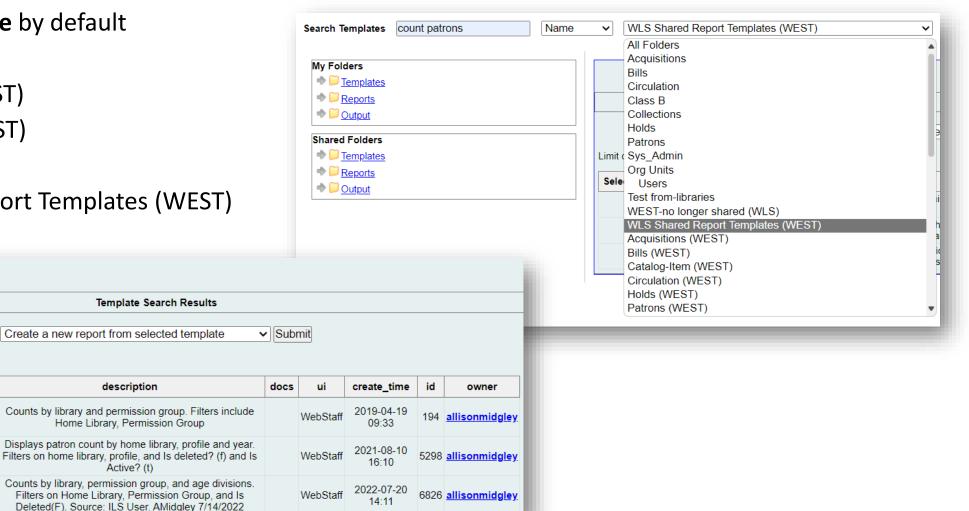
Template Search Results

Create a new report from selected template

description

Home Library, Permission Group

Active? (t)



Pivot Columns

In Count report setup, choose the Pivot Label Column entry that you want to display in columns

Count Patrons by Library and Permissic	User Params	Permission Group	Dobbs Ferry Pu	Hastings-on-Hu	Irvington Public	Warner Library
allisonmidgley	PUR A	ADULT	5384	0	4154	
Counts by library and permission group.	S_NOR NOR	CONTRACT1	3	1	0	3
	S_RYE	CONTRACT3	1	0	6	0
Count Rivertown Libs patro	Add Del	COURTESY	7	37	21	2
	WNR	GUEST	211	22	2	80
	DOB	HOMEBOUND	1	0	4	0
	HAS	INTERNET ONLY	2	0	0	1
lome Library	IRV	JUVENILE	1109	456	396	2569
Permission Group	Unique Mgmt) STAFF	44	26	23	56
	Users	TEEN	545	17	0	806
Select One (optional) 🗸	Volunteers Westchester_Staff_Clien	TEMP	22	13	6	38
- Select One (optional)		Users	21	0	1	1
Home Library	Add Del ADULT	ADULT NEW	0	10	0	1
Permission Group	ADULT NEW	JUV NEW	0	6	0	0
	API	5 SENIOR	0	1	1	0
	Acquisitions	Online Access	0	0	16	0

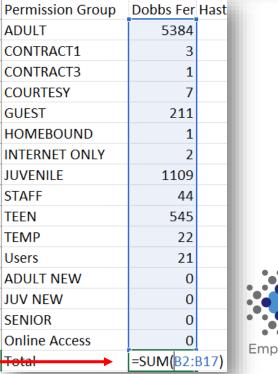
Calculate grouping subtotals

- In the Output setup, choose Calculate grouping subtotals to get a snapshot view of totals
- In Excel, recalculate these as autosums or sums

	А	В	С	D	E	F
1	Permission Group		Dobbs Fer	Hastings-o	Irvington F	Warner Lil
2	ADULT	0	5384	5651	4154	11135
3	CONTRACT1	0	3	1	0	3
4	CONTRACT3	0	1	0	6	0
5	COURTESY	0	7	37	21	2
6	GUEST	0	211	22	2	80
7	HOMEBOUND	0	1	0	4	0
8	INTERNET ONLY	0	2	0	0	1
9	JUVENILE	0	1109	456	396	2569
10	STAFF	0	44	26	23	56
11	TEEN	0	545	17	0	806
12	TEMP	0	22	13	6	38
13	Users	0	21	0	1	1
14	ADULT NEW	0	0	10	0	1
15	JUV NEW	0	0	6	0	0
16	SENIOR	0	0	1	1	0
17	Online Access	0	0	0	16	0
18		33067	7403	6264	4662	14738

Output Options Excel Output

- CSV Output
- ■Calculate grouping subtotals
- HTML Output
 - Bar Charts
 - ₀ □Line Charts





Excel Essentials

Barcode IDs

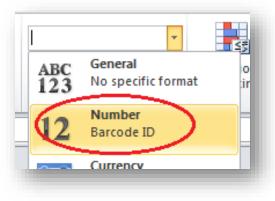
Transpose rows and columns

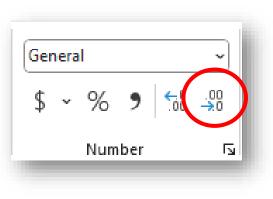
Barcode ID Essentials

In Excel output, barcode IDs must be reformatted to display as 14-digit numbers

- 1. Select the barcode column
- 2. In the *Numbers format dropdown*, choose Number Numbers will display with decimals
- 3. Use the decrease decimal button to remove the decimals

You can also complete 2 – 3 with a right-click and the *Format Cells...* menu.

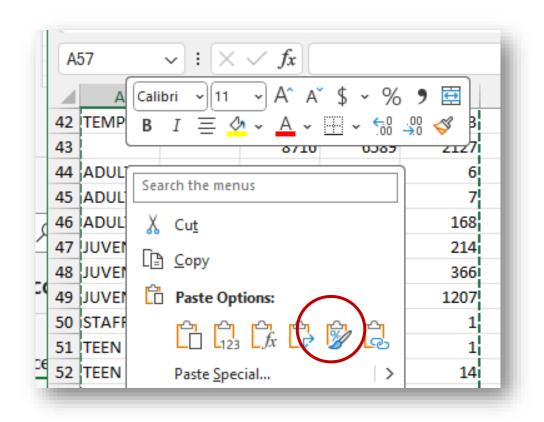






Transpose rows and columns

- 1. Copy Data
- 2. Move to an empty cell where you want the data
- 3. Right click to Paste
- 4. Choose Transpose





Count Reports

• Patrons

• Collections

Patron Report Templates

Search terms in **Bold** in the Name field

- Users by Profile Count by Year Created
- Users by Profile Total Count
- Count Users by Profile and Expiration Year
- Count Patrons by Library, Profile, & Age Divisions

Profile Group		2004	2008	2010	2011	2012	2013	2014	2016	2017	2018	2019	2020	2021	2022	2023	2024	
ADULT	6361	1	3	1	4	10	2	7	4	10	14	36	57	351	437	477	1222	
CONTRACT1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
COURTESY	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
GUEST	19	0	0	0	3	1	1	0	0	0	0	0	13	0	0	0	1	
INTERNET ONLY	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
InstanceAdmin	2	0	0	Prof	ile Gr	oup		2	023	2	024	2	025	20	026	20	027	20
JUVENILE	1964	0	0	ADU	LT				477	1	222	1	502	1	268	9	955	
Library Circulation	31	0	0		TRAC RTES				0		0 1		0		0 0		3 1	
SIP2	2	0	0	GUE	ST				0		1		0		0		0	
STAFF	53	0	0	INTE	RNET	ONLY	Y		0		0		1		0		0	
TEEN	313	0	0	Insta	anceA	dmin	1		0		2		0		0		0	
				JUVE	INILE				42		274		573	-	722	1	13	
				Libra	ary Ci	rculat	ion		1		0		0		0		0	
				SIP2					0		0		0		0		0	
				STAF	F				2		9		17		11		10	
				TEEN	l l				14		55		44		93		45	
				TEM	Р				10		23		0		0		0	
									0		0		0		0		0	
									0		0		0		0		0	
									546	1	587	2	137	20	094	11	27	



Collection Report Templates

- Count Annual Circulation by Owning Library, Checkout Library and Shelving Location
- **Count Circulation** by Owning Library, Shelving Location, and Date Range
- Annual Circ Count By Owning Library Shelving Location, Month, & **Dewey** Tens

Search terms in **Bold** in the Name field



Circulation Report Templates

- Count Annual Circulation by Owning Library, Checkout Library and Shelving Location
- **Count Circulation** by Owning Library, Shelving Location, and Date Range
- Annual Circ Count By Owning Library Shelving Location, Month, & **Dewey** Tens

Search terms in **Bold** in the Name field



List Reports

• Patrons

• Collections

Patron Report Templates

Search terms in **Bold** in the Name field

- List Patrons After a Last Checkout Date by Library & Profile Group
- List Patrons by Library Created in Previous Month
- Patrons by Statistical Category
- Patron Email List
- List Patrons With **No Email** Addresses
- List Patrons with **Outstanding Balances** by Home Library Between \$ and \$\$ with Item information



Collection Report Templates

Search terms in **Bold** in the Name field

- Item List by Call Number With Circ For a Date Range
- List Titles Used In House
- List Titles With Annual Circ by **Owning** Library (most popular titles, what you own)
- List Titles With Circ by Checkout Library and Date Range (most popular titles, checked out at your library



Pivot Tables

- Choosing Data
- Choosing Data Points
- Choosing Values

Pivot Tables – Choosing Data

- Select nothing to include all the data 1.
- Select a data range from the sheet 2.
 - Include all columns and rows that have data fields you may want to use
 - Consider making multiple tables. It's often easier for viewers to understand a couple data points in a few tables than more data points in one table.
- Choose Insert > Pivot Table 3
- Choose where you want to put the table 4.

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		Α	В	С	D	E	F	G	Н	1
	1	Name	Shelving Location		Title	Author	Barcode	Status	Last Circ Date	
	2	Warner Li		FICTION GRISHAM			310331521399			024
	3	Warner Li		FICTION MILLER		Miller, Sarah.	310331522367			023
	4	Warner Li		FICTION ORWELL		Orwell, George	310331515691			016
	5	Warner Li		FICTION WILLIS		Willis, Deborah				023
	6	Warner Li		FICTION YOURCEN					No Circ Since Migrati	
	7	Warner Li		174.24 HANNIG		Hannig, Anita		98 Available Soor		022
	8	Warner Li		200 FRAZER	_	Frazer, James G				023
	9	Warner Li		241.4 LEWIS		Lewis, C. S. (Cliv			No Circ Since Migrati	
	10	Warner Li		299.94 ADLER	-	Adler, Margot.	310331522426		No Circ Since Migrat	
	11	Warner Li		510.1 HOFSTADTER						023
	12	Warner Li		614.518 BARRY	_	Barry, John M. 1				022
	13	Warner Li		786.4 G		sic's greatest hits				022
	14	Warner Li		791.45 HAYES	-	Hayes, Dade	310331522845			022
	15	Warner Li		940.545 P	-	Parkin, Simon	310331521362			021
	16	Warner Li		BEST 2023		American short s				024
	17	Warner Li		CD FICTION JOHAN			310331515484			019
	18	Warner Li		CHUNG		Chung, Bora 197		90 Checked out		024
	19	Warner Li		CLANCY		Bentley, Don	310331522936			023
	20	Warner Li	Fiction	DOSTOYEVSKY	The broth	Dostoyevsky, Fy				023
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								23 Available	No Circ Since Migrati	
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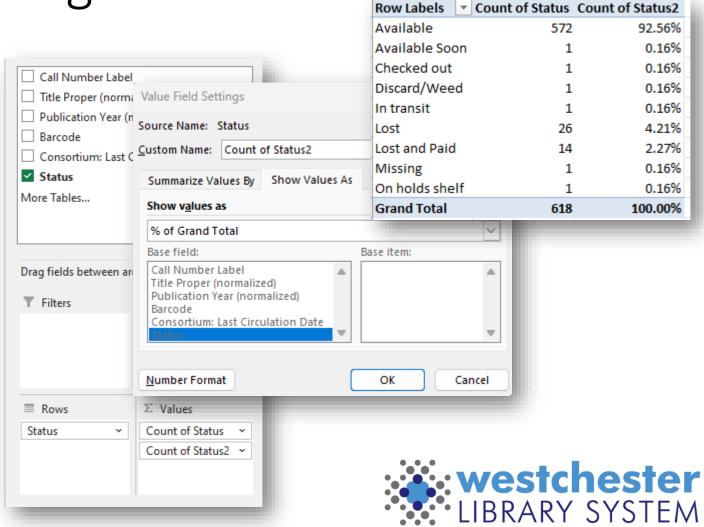
Pivot Tables – Choosing Data Points

- Drag data fields to
 - Rows
 - Columns
 - Values
 - Filters
- The table is created based on the fields you include
- Fields can be "nested" to create sub-categories

PivotTable F		Choose fields to a	dd to report: 🔗	×		
Choose fields to add	to report:	Search		ρ		
Search		Call Number	Label			
Shelving Locatio	on	Title Proper (r	ormalized)	Row Labels 💌 Coun	t of Status	
Call Number			ear (normalized)	Available	572	
Title		Barcode		Available Soon	1	
Author Barcode		Consortium: I	ast Circulation Date	Checked out	1	
Status		✓ Status		Discard/Weed	1	
Last Circ Date		More Tables		In transit	1	
fore Tables				Lost	26	
				Lost and Paid	14	
				Missing	1	
		Drag fields betwe	en areas below:	On holds shelf	1	
)rag fields between	areas below:	T Filters	III Columns	Grand Total	618	
Y Filters	III Columns			diana rotai	010	
Rows	Σ Values	Rows	Σ Values			
		Status	Count of Status	<u>~</u>		
				•••• • • •	BRARY SYS	ste
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Pivot Tables – Choosing Values

- Count (the number of things) is the default value.
- Drag the same or another field to provide more detail or summarize in a different way.
- Click the value dropdown to
 - choose a calculation on the value, e.g. sum, Average, etc
 - display the value as other than a number, e.g. % of grand total



Empowering libraries. Empowering communities.

Top Tips

Before, During, and After

Tips & Hints - Before

Convert your question into Evergreen data fields that will tell you want you want to know

- Draw a quick visualization of the table display, including column headers and row names. Choose a template that includes them.
- Consider modifying a template to include the needed data fields or data transforms (e.g. change a timestamp or date to Year or Month+Year).



Tips & Hints - During

In Excel,

- Duplicate the tab with your data to create a working version and a master version so you can always revert to the original data
- Review the data. Sort it by several different columns and scan for inconsistencies.
 - Do you have what you need? Rerunning the report with different filters, choosing a different template, or modifying a template can save you more time than adding or removing data from the spreadsheet.
 - Is the data consistent? Remember that the more consistent the data is, the easier it will be to summarize and analyze it. Consider cleaning up the data in Evergreen instead of massaging the data in Excel to be more efficient and save yourself future time (see also After).



Tips & Hints - After

- Use the report for data cleanup. Sorting by each column allows you to see anomalies in Call number, Status, Circ Mod, etc.
- Set up recurring reports monthly, quarterly, or annually so you can easily update and/or recreate your data and analysis.

Shelving Location	Call Number
Fiction	FICTION GRISHAM
Fiction	FICTION MILLER
Fiction	FICTION ORWELL
Fiction	FICTION WILLIS
Fiction	FICTION YOURCEN
Fiction	174.24 HANNIG
Fiction	200 FRAZER
Fiction	241.4 LEWIS
Fiction	299.94 ADLER
Fiction	510.1 HOFSTADTER
Fiction	614.518 BARRY
Fiction	786.4 G
Fiction	791.45 HAYES
Fiction	940.545 P
Fiction	BEST 2023
Fiction	CD FICTION JOHAN
Fiction	CHUNG
Fiction	CLANCY
Fiction	DOSTOYEVSKY
Fiction	FIC ABBAS
Fiction	FIC ABDEL GAWAD
Fiction	FIC ANGEL-AJANI
Fiction	FIC BANNISTER
Fiction	FIC BANNISTER
Fiction	FIC BANNISTER
Fiction	FIC BAUERMEISTER
Fiction	FIC COLLINS



Help and Links

- Evergreen Reports and Excel
- Evergreen Reports on the IT Wiki
- Microsoft Overview of Pivot Tables and Charts

- Allison Midgley
- training@wlsmail.org
- support@wlsmail.org

