# Data Source: Populate from a Linked Data Table

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Once you've **linked data tables** to one another, you can design indicators that pull results directly from those tables. The options to design indicators from linked tables are exactly the same as when you **populate from a single data table**. Please refer to that article for detailed instructions on the various data table calculation options.

This article walks through the expanded options when populating from a linked data table and covers:

- Choosing geography and date columns
- Choosing filters
- Choosing disaggregations
- Choosing calculations

Note: Currently, linked tables are incompatible with the row locking feature.

#### Choosing geography and date column

Begin on the indicator's definition page. For data source, select **populate from a data table** and choose the linked table that contains information for this indicator.

Example Organ DevResu			Quick search	٩	? Help	2
Data Program Info						
Home   Results  Indic	ators 🕑 # teachers in urban schools					+
RT-01 # tea	chers in urban schools					
Definition Targets	& Data Reports Forms Documents					ð History
Data Source		Reference				
Data Source	Enter indicator results directly     Populate from a data table	Name	# teachers in urban schools			
	Calculate from a formula	Code	RT-01			
Data Table	Teacher Records   View Table Data	Reference #	Table: Teachers			
Calculation	Count All	Active?	<ul> <li>Indicator is active</li> </ul>			
Geography Column	Select a geography column	Definition				
	Data will be associated with places from this column.	Indicator defini	ition.			
		Classificatio	n			
Date Column	Select a date column					
	Data will be associated with dates from this column.	Results Framework	E/RT.1 All test cases pass			
	A No date column selected		+ Add a result			
		Sector(s)	Seducation			
Filters	Add a new filter		+ Add a sector			
		Tags	Relational			
DevResults				Delete this	indicator	• Done

In this example, we are linking to a table of information on teachers. This table is pulling information from an **additional tables** that contain information on the school each teacher works in.

Next, select the calculation. You can either **count all** rows, **count unique sets** of columns, or get a **sum** or **average** of a column of numeric data. Additional configuration options will depend on which calculation type you use. This example shows the **count all** configuration.

When populating from linked tables, you can choose geography and date columns from any of the tables available (in this case, we can choose a geography column from the "School" table). DevResults will show you the table and column names for all available geography and date columns.

Example Orga DevResu	nization Its	Quick search Q	Help	20	
Data Program Info	Tools Administration Bookmarks				
Home > Results > India	ators 🕑 # teachers in urban schools				
RT-01 # tea	chers in urban schools				
Definition Target	s & Data Reports Forms Documents				ð History
Data Source		Reference			
Data Source	Enter indicator results directly	Name	# teachers in urban schools		
	Populate from a data table				
	Calculate from a formula	Code	RT-01		
Data Table	Teacher Records	Poforonco #			
	View Table Data	Kelefence #	Table: Teachers		
Calculation	Count All	Active?	<ul> <li>Indicator is active</li> </ul>		
Geography Column	belect a geography column	Definition			
	Country	Indicator defini	ition.		
	School: School Location				
		Classificatio	n		
Date Column	Select a date column				
	Data will be associated with dates from this column.	Results Framework	E/RT.1 All test cases pass		
	A No date column selected		+ Add a result		
		Sector(s)	Education		
Filters	Add a new filter		+ Add a sector		
		Tags	Relational		
DevResults			T Delete t	nis indicator	• Done

## **Choosing filters**

Similarly, you can choose to exclude rows from your calculation by applying one or more filters based on information from any of the tables available. In this case, we are choosing to only include rows where teachers are in urban schools. The column in question is in the "School" table.

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Data Program Inf						
Home 🔸 Results 🔺 Indi	ators 🕑 # teachers in urban schools					
RT-01 # tea	chers in urban schools					
Definition Target	s & Data Reports Forms Documents					ð History
	<ul> <li>Calculate from a formula</li> </ul>	Code	RT-01			
Data Table	Teacher Records					
	View Table Data	Reference #	Table: Teachers			
Calculation	Count All	Active?	Indicator is active			
Geography Column	School: School Location	Definition				
	Data will be associated with places from this column.	Indicator definit	tion.			
Date Column	Start date of school year					
	Data will be associated with dates from this column.	Classificatio	n			
Filters	Add a new filter	Results Framework	E/RT.1 All test cases pass			
	# years as teacher		+ Add a result			
Characteristics	Assessment date	Sector(s)	Education			
	Country		+ Add a sector			
Indicator Type	School: # classroom					
	School: School ID	Tags	Relational			
Number format	School: School's partner NGO		+ Add a tag			
	School: Urban/Rural					
	Parte per	Justification	1			
		· · · ·				
DevResults				1 Delete this	s indicator	Done

Once you've selected a column, you can choose the value with which rows will be included or excluded:

Example Orga DevResu	nization Its		Quick search	٩	🛛 Help	25
Data Program Info	Tools Administration Bookmarks					
Home 🕞 Results 🕞 Indi	ators 🕑 # teachers in urban schools					
RT-01 # tea	chers in urban schools					
Definition Target	s & Data Reports Forms Documents					👌 History
	Calculate from a formula	Code	RT-01			
Data Table	Teacher Records					
	View Table Data	Reference #	Table: Teachers			
Calculation	Count All	Active?	<ul> <li>Indicator is active</li> </ul>			
Geography Column	School: School Location	Definition				
	Data will be associated with places from this column.	Indicator definit	ion.			
Date Column	Start date of school year					
	Data will be associated with dates from this column.	Classification	n			
Filters	School: Urban/Rural = V Urban V	Results	F/RT 1 All test cases pass			
	Urban	Framework	+ Add a result			
	Add a new filter					
		Sector(s)	Education			
Characteristics			T root a sector in			
Indicator Type	Sum	Tags	Selational			
	Average     Yes/No		+ Add a tag			
				_	_	
Number format	Whole number     Decimal	Justification				
DevResults			l	Delete this	indicator	Done

#### **Choosing disaggregations**

When populating from a linked table, users can also specify disaggregations from any available table. In the example below, the indicator is being disaggregated by 'Sex', which is from the "Teacher Records" table and "Intervention Type" which is from the "School" Table

Once a disaggregation has been added, you can click on the data column. DevResults will show you the columns from all available tables that match the disaggregation you selected.

Example Orga DevResu						Quick search Q 2 Help 2				
Data Program Info										
Home 🔸 Results 🔸 Indi	ators	🛌 # teachers in ur	ban schools							
RT-01 # tea	ch	ers in u	ırban scho	ols						
Definition Target	s & Dat	a Reports	Forms Documents			Ŏ History				
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Periode	Decult		т	avante avai		Who will provide this data to us?				
renous	In	s are. cremental (since las	t result) (	Incremental (since last target)     Cumulative (over the life of the pro	olect)	Acquisition Frequency				
Baselines	Cumulative (over the life of the project)      Baselines Indicator has baseline values				When and how often will the data be collected?					
						Data Quality				
Disaggregation						Unitedan				
Disaggregations		Disaggregation	Categories	Data column	Disable					
	:	Sex	Male, Female	Sex 💌		What are the known limitations and significance (if any) of this data?				
	× 1	Intervention Type	Intervention & Intervention	Select a disaggregation column		Quality Notes				
		intervention type		School: Intervention Type		Enter details regarding data quality assessment(s) that have been or will be conducted				
	Add	a disaggregation		•	gregations	(if any).				
	🔍 Re	sults are cross-dis	aggregated (	<ul> <li>Results are parallel disaggregate</li> </ul>	ed	Data Analysis, Review, and Reporting				
Reporting Level	Pocult	s are reported by:				Analysis				
toporting seren	<ul> <li>Lo</li> </ul>	cation				How will the data be analyzed, and by who?				
	O Pr	efecture								
	G	gion Jinea				Review				
Activities	le thie	indicator reported	on by specific activities?			How will the data be reviewed, and by who?				
Activities		intercorreponted	on an appendix occurities:							
DevResults						Delete this indicator     Vone				

**Note:** To report results separately for each activity, an activity column has to be added to the linked table. Currently, indicators cannot pull information from activity columns in all available tables.

## **Choosing calculations**

You can now choose to calculate results based on a numeric column in any available data table.

Select the calculation type:

Example Orga DevResu		Your change was saved		Quick search Q 🧿 Help 23
Data Program Info	o Tools Administration Bookmarks			
Home ► Results ► India	cators 🕒 # average hours per teacher disaggregated by cohort typ	e and grade level	_	*
RI-08 # av	erage hours per teacher d	isaggregated by	cohort	type and grade level
Definition Target	s & Data Reports Forms Documents			& History
Data Source			Reference	
Data Source	<ul> <li>Enter indicator results directly</li> </ul>		Name	# average hours per teacher disaggregated by cohort type and gra
	<ul> <li>Populate from a data table</li> <li>Calculate from a formula</li> </ul>		Code	DT 00
Data Table	Teachers	τ.	couc	R1-06
	View Table Data		Reference #	Table: Teachers
Calculation	Count All		Active?	Indicator is active
	Count All Count Unique Sets		D 5 11	
Geography Column	Sum Average	•	Definition	
Data Calumn			fests use of dis grandparent tal	ags from parent + multiple parent tables (+ location & activity from ble)
Date column	Start date of school year Data will be associated with dates from this column	•	[Average]	
Filters				
The state of the s	Add a new inter	•	Classificatio	n
Characteristics			Results Framework	E/RT.1 All test cases pass
	-			+ Add a result
Indicator Type	Sum     Average		Sector(s)	Seducation
	O Yes/No			+ Add a sector
()) DevResults				Delete this indicator

You can then select a column. Similar to geography columns and date columns, DevResults will show you all available numeric columns.

Example Orga DevResu	nization Its		Quick search	٩	🕐 Help	2
Data Program Info						
Home 🔸 Results 🔺 India	ators 🕑 # average hours per teacher disaggregated by cohort type and grade level					
RT-08 # av	erage hours per teacher disaggregated by	cohort	type and grade	eleve	el	
Definition Target	s & Data Reports Forms Documents					ð History
Data Source		Reference				
Data Source	Enter indicator results directly     Populate from a data table	Name	# average hours per teacher disagg	regated by c	ohort type and	gre
	Calculate from a formula	Code	RT-08			
Data Table	Teachers   View Table Data	Reference #	Table: Teachers			
Calculation	Average • of	Active?	Indicator is active			
	Select a calculation column	Definition				
Geography Column	Assessment Score Classroom ID: School ID: # classroom Classroot ID: School ID: # classroot	Indicator defini	ition.			
	Data win de associated wint places non cuis countri.	Classificatio	מר			
Date Column	Start date of school year	Classificatio				
	Data will be associated with dates from this column.	Results Framework	<ul> <li>E/RT.1 All test cases pass</li> <li>Add a result</li> </ul>			
Filters	Add a new filter					
		Sector(s)	Education			
Characteristics			T Add a sector			
Indicator Type	Sum	Tags	Relational			
DevResults				🗓 Delete this i	ndicator	Done

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