

# 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.

The screenshot displays the DevResults interface for defining an indicator. The top navigation bar includes 'Data', 'Program Info', 'Tools', 'Administration', and 'Bookmarks'. The main header shows the indicator name '# teachers in urban schools' (RT-01) and tabs for 'Definition', 'Targets & Data', 'Reports', 'Forms', and 'Documents'. The 'Definition' tab is active, showing the 'Data Source' section with three radio buttons: 'Enter indicator results directly', 'Populate from a data table' (selected), and 'Calculate from a formula'. Below this, the 'Data Table' dropdown is set to 'Teacher Records', and the 'Calculation' dropdown is set to 'Count All'. The 'Geography Column' and 'Date Column' dropdowns are both set to 'No geography column selected' and 'No date column selected' respectively, with warning icons. The 'Filters' dropdown is set to 'Add a new filter...'. The 'Reference' section shows the 'Name' as '# teachers in urban schools', 'Code' as 'RT-01', and 'Reference #' as 'Table: Teachers'. The 'Definition' section has a text area for 'Indicator definition.'. The 'Classification' section shows 'Results Framework' as 'E/RT.1 All test cases pass', 'Sector(s)' as 'Education', and 'Tags' as 'Relational'. The bottom bar includes 'Delete this indicator' and 'Done' buttons.

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 Organization  
DevResults

Quick search...   25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # teachers in urban schools

**RT-01 # teachers in urban schools**

Definition Targets & Data Reports Forms Documents History

**Data Source**

Data Source ☐ Enter indicator results directly  
☒ Populate from a data table  
☐ Calculate from a formula

Data Table Teacher Records  
[View Table Data](#)

Calculation Count All

Geography Column   
 Country  
 School: School Location

Date Column   
 Data will be associated with dates from this column.  
 No date column selected

Filters

**Reference**

Name # teachers in urban schools

Code RT-01

Reference # Table: Teachers

Active? ☒ Indicator is active

**Definition**

Indicator definition.

**Classification**

Results Framework E/RT.1 All test cases pass  
 Add a result...

Sector(s) Education  
 Add a sector...

Tags Relational  
 Add a tag...

DevResults Delete this 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.

Example Organization  
DevResults

Quick search...   25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # teachers in urban schools

**RT-01 # teachers in urban schools**

Definition Targets & Data Reports Forms Documents History

☒ Calculate from a formula

Data Table Teacher Records  
[View Table Data](#)

Calculation Count All

Geography Column School: School Location  
 Data will be associated with places from this column.

Date Column Start date of school year  
 Data will be associated with dates from this column.

Filters

**Characteristics**

Indicator Type   
 # years as teacher  
 # years post-training  
 Assessment date  
 Country  
 School: # classroom  
 School: School ID  
 School: School Location  
 School: School's partner NGO  
 School: Urban/Rural  
 Sex  
 Percentage  
 Rate per

**Reference**

Code RT-01

Reference # Table: Teachers

Active? ☒ Indicator is active

**Definition**

Indicator definition.

**Classification**

Results Framework E/RT.1 All test cases pass  
 Add a result...

Sector(s) Education  
 Add a sector...

Tags Relational  
 Add a tag...

**Justification**

DevResults Delete this indicator Done

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

Example Organization  
DevResults

Quick search... [?] Help 25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # teachers in urban schools

## RT-01 # teachers in urban schools

Definition Targets & Data Reports Forms Documents

Calculate from a formula

Data Table: Teacher Records  
View Table Data

Calculation: Count All

Geography Column: School: School Location  
Data will be associated with places from this column.

Date Column: Start date of school year  
Data will be associated with dates from this column.

Filters: School: Urban/Rural = Urban  
Add a new filter...

Characteristics

Indicator Type: ☒ Sum  
☐ Average  
☐ Yes/No

Number format: ☒ Whole number  
☐ Decimal

Code: RT-01

Reference #: Table: Teachers

Active? ☒ Indicator is active

Definition

Indicator definition.

Classification

Results Framework: E/RT.1 All test cases pass  
+ Add a result...

Sector(s): Education  
+ Add a sector...

Tags: Relational  
+ Add a tag...

Justification

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 Organization  
DevResults

Quick search... [?] Help 25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # teachers in urban schools

## RT-01 # teachers in urban schools

Definition Targets & Data Reports Forms Documents

Unit: Individuals Edit standard units

Periods Results are: ☒ Incremental (since last result)  
Targets are: ☒ Incremental (since last target)  
☐ Cumulative (over the life of the project)

Baselines ☐ Indicator has baseline values

Disaggregation

Disaggregations	Disaggregation	Categories	Data column	Disable
+	Sex	Male, Female	Sex	<input type="checkbox"/>
+	Intervention Type	Intervention A, Intervention B	Select a disaggregation column...	<input type="checkbox"/>
			School: Intervention Type	

Add a disaggregation...

☐ Results are cross-disaggregated ☒ Results are parallel disaggregated

Reporting Level Results are reported by: ☒ Location  
☐ Prefecture  
☐ Region  
☐ Guinea

Activities Is this indicator reported on by specific activities?

Sources

Who will provide this data to us?

Acquisition Frequency

When and how often will the data be collected?

Data Quality

Limitations

What are the known limitations and significance (if any) of this data?

Quality Notes

Enter details regarding data quality assessment(s) that have been or will be conducted (if any).

Data Analysis, Review, and Reporting

Analysis

How will the data be analyzed, and by who?

Review

How will the data be reviewed, and by who?

Delete this indicator Done

**Note:** To report results separately for each project, a project column has to be added to the linked table. Currently, indicators cannot pull information from project 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 Organization  
DevResults

Quick search...   25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # average hours per teacher disaggregated by cohort type and grade level

**RT-08 # average hours per teacher disaggregated by cohort type and grade level**

Definition Targets & Data Reports Forms Documents

**Data Source**

Data Source ☐ Enter indicator results directly  
☒ Populate from a data table  
☐ Calculate from a formula

Data Table Teachers

Calculation Count All   
Count Unique Sets  
Sum  
Average

Geography Column  this column.

Date Column Start date of school year  
Data will be associated with dates from this column.

Filters Add a new filter...

**Reference**

Name # average hours per teacher disaggregated by cohort type and grade level

Code RT-08

Reference # Table: Teachers

Active? ☒ Indicator is active

**Definition**

Tests use of disags from parent + multiple parent tables (+ location & activity from grandparent table)  
[Average]

**Classification**

Results Framework E/RT.1 All test cases pass

Sector(s) Education

**Characteristics**

Indicator Type ☐ Sum  
☒ Average  
☐ Yes/No

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

Example Organization  
DevResults

Quick search...   25

Data Program Info Tools Administration Bookmarks

Home > Results > Indicators > # average hours per teacher disaggregated by cohort type and grade level

**RT-08 # average hours per teacher disaggregated by cohort type and grade level**

Definition Targets & Data Reports Forms Documents

**Data Source**

Data Source ☐ Enter indicator results directly  
☒ Populate from a data table  
☐ Calculate from a formula

Data Table Teachers

Calculation Average of  
Select a calculation column...  
Assessment Score  
Classroom ID, School ID, # classroom  
Cohort: Duration of intervention per cohort (hours)

Geography Column  this column.

Date Column Start date of school year  
Data will be associated with dates from this column.

Filters Add a new filter...

**Reference**

Name # average hours per teacher disaggregated by cohort type and grade level

Code RT-08

Reference # Table: Teachers

Active? ☒ Indicator is active

**Definition**

Indicator definition.

**Classification**

Results Framework E/RT.1 All test cases pass

Sector(s) Education

Tags Relational

**Characteristics**

Indicator Type ☐ Sum  
☒ Average

Didn't answer your question? Please email us at [help@devresults.com](mailto:help@devresults.com).

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