

Link Data Tables

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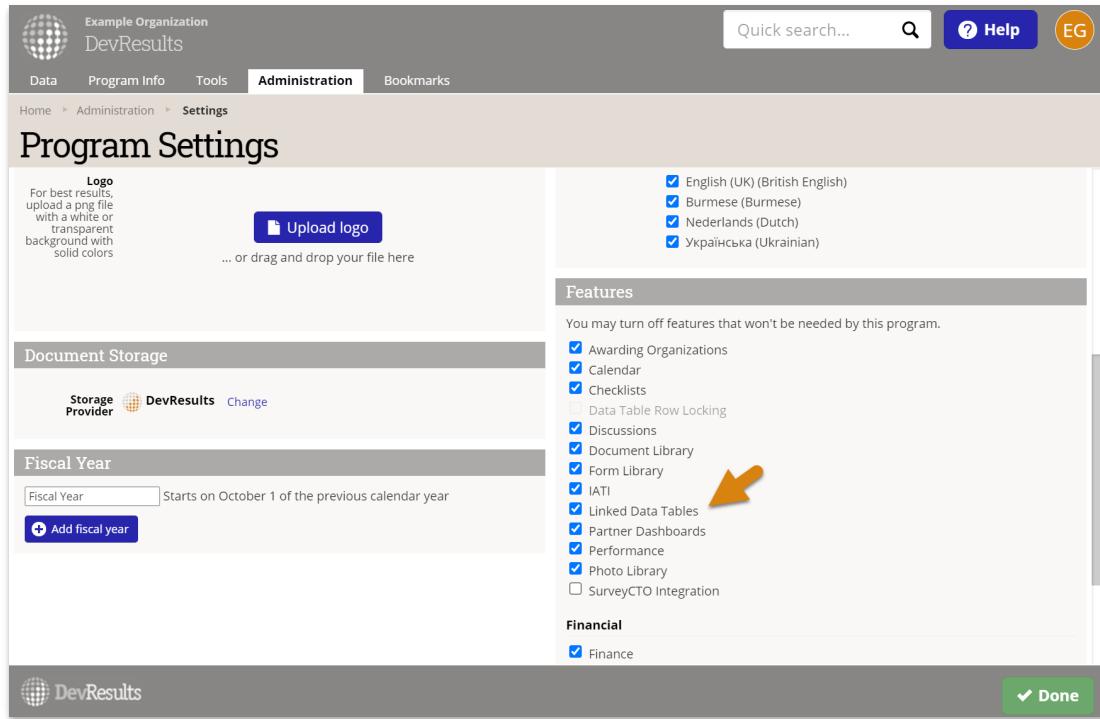
Linked data tables allow you to connect one or more tables by information common to both. For example, you can have one table of schools that contains all the categorical information about each school (location, size, level, urban v rural, etc.) and a separate table of all teachers. To disaggregate teachers by the information about their schools (e.g. # teachers in urban settings) you can link teachers to their schools without having to repeat a school's categorical information for each teacher. Another term for this method of organizing information is *relational data*; the data is related by a shared column. This page includes:

- How to define the **Lookup Key**, the shared column between tables
- How to **Link Tables**
- How to **Add Data** to linked tables

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

Lookup Key

First, make sure you have enabled the **Linked Data Tables** feature under **Administration > Settings**.



The screenshot shows the 'Program Settings' page in the DevResults software. At the top, there is a navigation bar with 'Example Organization' and 'DevResults' branding, along with 'Data', 'Program Info', 'Tools', 'Administration' (which is selected), and 'Bookmarks'. A 'Quick search...' bar and a 'Help' button are also present. The main content area is titled 'Program Settings'. It includes sections for 'Logo' (with a placeholder for a logo file), 'Document Storage' (with a 'Storage Provider' dropdown set to 'DevResults'), and 'Fiscal Year' (with a 'Starts on October 1 of the previous calendar year' note and a '+ Add fiscal year' button). On the right side, there is a 'Features' section with a list of checkboxes. An orange arrow points to the 'Linked Data Tables' checkbox, which is checked. Other checked features include 'Awarding Organizations', 'Calendar', 'Checklists', 'Discussions', 'Document Library', 'Form Library', 'IATI', 'Partner Dashboards', 'Performance', 'Photo Library', and 'SurveyCTO Integration'. The 'Financial' section is also visible, with 'Finance' checked. At the bottom right, there is a green 'Done' button.

To link tables, find the **Lookup Key** section in the **Design** tab of the table that contains the information you'd like to pull into a different table. In our example, we want to add a **Lookup Key** to the **Schools** table so that we can pull information about schools into our **Teachers** table.

The Lookup Key serves two functions:

1. It produces a unique value for each row in a table that is used to link each row of a table to a row in another table.
2. You can configure it to display information in a different table in a specific format.

To begin entering a Lookup Key, click in the text box and add a bracket. This will give you a dropdown menu of all columns in your table. You can continue typing the name of the column or click on the column name to select it.

In the following example, we've created a unique Lookup Key by combining School ID and School Location. The Lookup Key in this case is [School ID][School Location].

If we were to link a row in this table with a row in a different table, a row where School ID is "123" and School Location is "Washington DC" will now display as "123Washington DC".

To configure the Lookup Key in a specific format, users can add spaces and special characters between column names. In the example below, we've made the Lookup Key and display more readable by adding a comma between the School ID and School Location.

Example Organization
DevResults

Quick search... 25

Data Program Info Tools Administration Bookmarks

Home > Results > Data Tables > Schools

Schools

Data Design

Columns

Column	Type
\$ School ID	Unique ID
\$ School Location	Geography: Location
\$ Urban/Rural	Disaggregation: Urban vs Rural
\$ # classroom	Number: Whole
\$ School's partner NGO	Activity

Lookup Key

Configure how rows from this table are shown in other tables.

Lookup key is required for this table to be referenced by other tables and must produce a unique value for each row in the table. [Learn more](#)

[School ID], [School Location]

Definition

Table Name: Schools

Linked Indicators

This data table is not linked to any indicators.

+ Add an indicator mapping

Permissions

Define what access partner users have to this table

No Access

Created by Leslie Sage (15 Aug 2018)

NOTE: If a Lookup Key cannot produce a unique values for all rows, you will receive an error message asking you to add additional columns to the Key until each value is unique. Similarly, if data is being added to the table that will render the Lookup Key not unique, you will be prompted to fix the duplicate data.

Linking Existing Data Tables

To link a data table to another, navigate to the data table you want to link. In this example, we'll be connecting the **School** table to a table of **Teacher Records**.

Example Organization
DevResults

Data Program Info Tools Administration Bookmarks

Home > Results > Data Tables

Search data tables

Name	# Rows	Columns
Beneficiaries	1	Date, Activity, Location, Beneficiary ID, Age, Sex, Ethnicity, Service Type, Is eligible?, Describe in your own words any positive outcome of the service you provided.
Certifications	2,043	Teacher, Certification Partner, Certification Location, Certification Date
Classrooms	828	Classroom ID, School ID, Grade, Well supplied?
Cohorts	100	Cohort ID, Intervention Type, Duration of intervention per cohort (hours)
Crop Sales	8,520	Date, End of Quarter, Farmer, Crop Type, \$ value of sale (USD), # kg crop sold, USD per kg
Farmers	1,064	Activity, Farmer ID, Sex, Ethnicity, Farm Location, Land Type
Organizations	1,646	Contract Start Date with Organization, End of Fiscal Year, Activity, Prefecture, Organization Name, Organization Type, Is organization a CSO?, Did organization receive any funding from the government?
Schools	128	School ID, School Location, Urban/Rural, # classroom, School's partner NGO
Teacher Records	0	Sex, # years as teacher, # years post-training, Assessment date, Start date of school year, Country
Teachers	987	Teacher ID, Classroom ID, Sex, # years as teacher, # years post-training, Assessment Score, Assessment date, Start date of school year, Cohort, Country
Teachers post-training	2	Teacher ID, Duration
Training Table	6,650	Date, Last Day of RP, Activity, Location, Trainee ID, Sex, Age, Training Topic, Training Type, Initial Test Score, Final Test Score, Points Improved, Commendation

New Data Table

Click on the **Design** tab.

Example Organization
DevResults

Data Program Info Tools Administration Bookmarks

Home > Results > Data Tables > Teacher Records

Teacher Records

Data Design

Search

0 rows

No data has been added to this data table. [Add a row](#) or [import data](#) to get started.

Created by Nitika Bhakar (23 May 2019)

This table already has several columns added, including the # years as a teacher, # years post-training, when the school year started, and where they are based. To pull in information about their school from the Schools table, click on **(+ Add new column**

Example Organization
DevResults

Data Program Info Tools Administration Bookmarks

Home > Results > Data Tables > Teacher Records

Teacher Records

Data Design

Columns

Add new column 

Column	Type
Sex	Disaggregation: Sex
# years as teacher	Disaggregation: Duration
# years post-training	Other Text
Assessment date	Date
Start date of school year	Date
Country	Geography: Guinea

Definition

Table Name: Teacher Records

Linked Indicators

This data table is not linked to any indicators.

Permissions

Define what access partner users have to this table

No Access

DevResults

Created by Ritika Bhakar (23 May 2019) [Delete this data table](#) 

In the popup, you can specify what the column should be called. Click on the dropdown for **Type** and select Table. You can now click on the Table dropdown and select which data table you would like to connect.

Example Organization
DevResults

Data Program Info Tools Administration

Home > Results > Data Tables > Teacher Records

Teacher Records

Data Design

Columns

Add new column

Add New Column

Name: School

Type: 

Table

Other Text Unique ID Date Number Yes/No Activity Geography Disaggregation

Lookup Key

Configure how rows from this table are shown in other tables.

Lookup key is required for this table to be referenced by other tables and must produce a unique value for each row in the table. [Learn more](#)

Enter the lookup key with column names in [brackets]

Permissions

Define what access partner users have to this table

No Access

DevResults

Created by Ritika Bhakar (23 May 2019) [Delete this data table](#) 

Click on **(+)** Add Column.

Teacher Records

Columns

Add new column

Column

Sex	Disaggregation: Sex
# years as teacher	Disaggregation: Duration
# years post-training	Other Text
Assessment date	Date
Start date of school year	Date
Country	Geography: Guinea

Lookup Key

Configure how rows from this table are shown in other tables.

Lookup key is required for this table to be referenced by other tables and must produce a unique value for each row in the table. [Learn more](#)

Enter the lookup key with column names in [brackets]

Permissions

Define what access partner users have to this table

No Access

Created by Ritika Bhakar (23 May 2019) [Delete this data table](#) [Done](#)

Note: Tables will not show up in the dropdown if a **Lookup Key** is not specified for that table. Tables will also now show up in the dropdown if you have not enabled the **Linked Data Tables** feature under **Administration > Settings**.

Once you've added the column, DevResults will display all columns available from related tables, including those currently available and ones that are pending.

Teacher Records

Columns

Add new column

Column

Sex	Disaggregation: Sex
# years as teacher	Disaggregation: Duration
# years post-training	Other Text
Assessment date	Date
Start date of school year	Date
Country	Geography: Guinea
School	Table: Schools

Definition

Table Name: Teacher Records

Linked Indicators

This data table is not linked to any indicators.

+ Add an indicator mapping

Columns available from related tables

Current Pending Changes

- Adding: School: School ID
- Adding: School: School Location
- Adding: School: Urban/Rural
- Adding: School: # classroom
- Adding: School: School's partner NGO

Lookup Key

Configure how rows from this table are shown in other tables.

Lookup key is required for this table to be referenced by other tables and must produce a unique value for each row in the table. [Learn more](#)

! A **Lookup key cannot be changed while there are unsaved column changes**

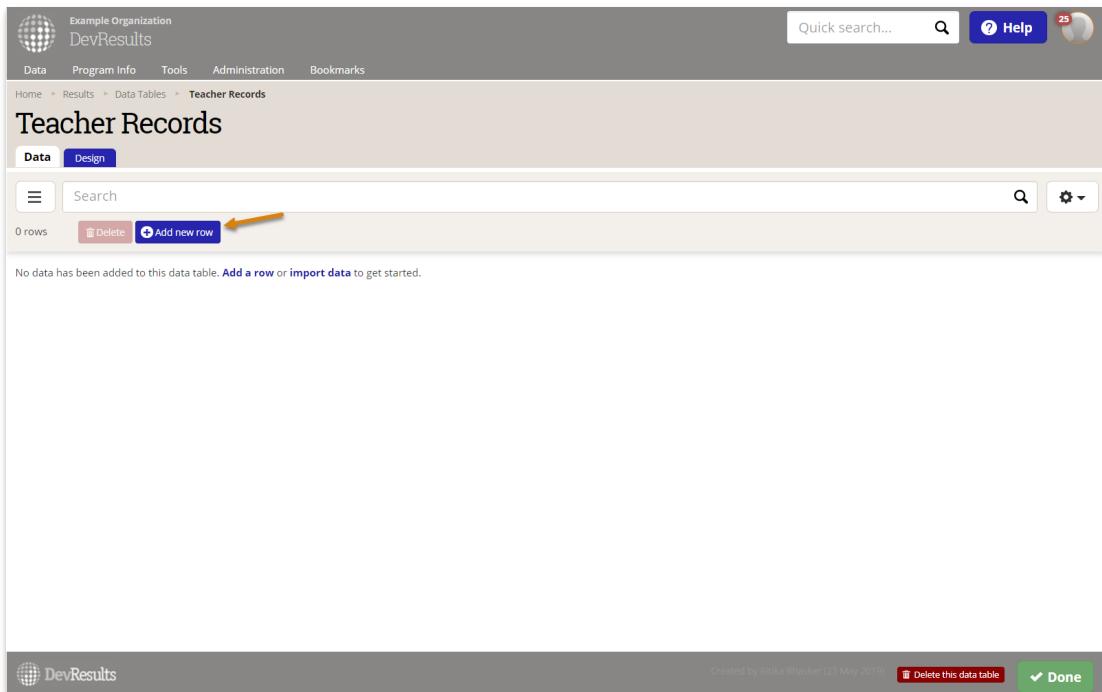
Created by Ritika Bhakar (23 May 2019) [Delete this data table](#) [Save changes](#)

Once you've reviewed the pending changes, click on **Save changes** to link the tables.

Add data

You can now navigate to the **Data** tab to begin adding data, including information stored in the "Schools" table.

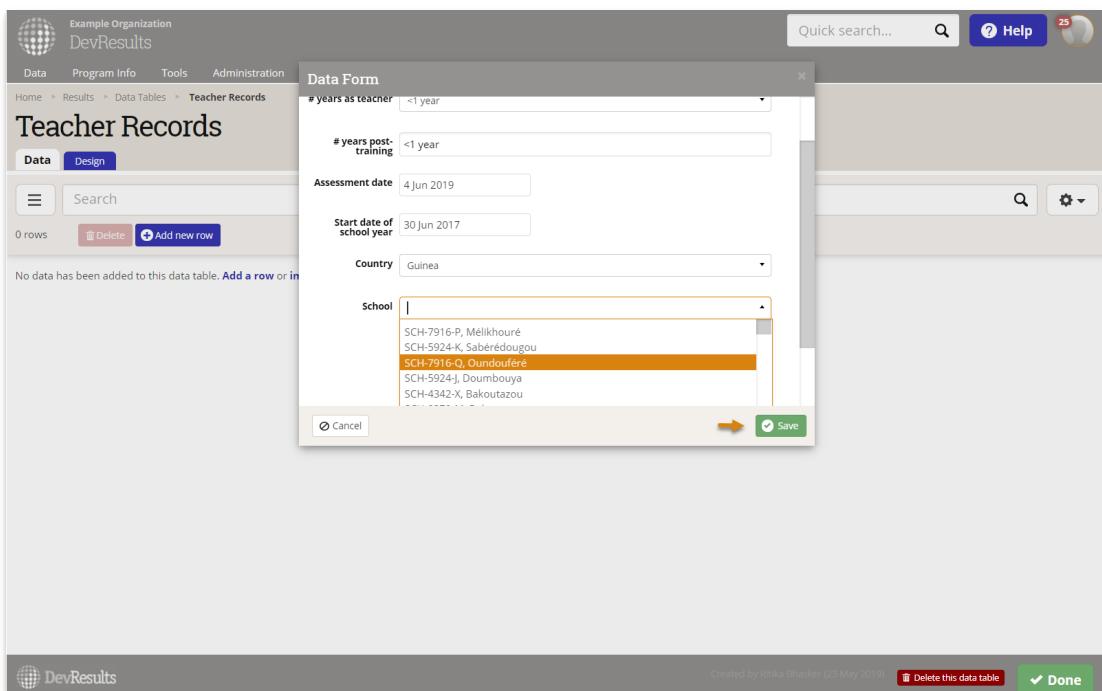
Click on **(+)** **Add new row**.



The screenshot shows the DevResults software interface. At the top, there is a navigation bar with the organization name "Example Organization" and the software name "DevResults". The "Data" tab is selected. Below the navigation bar, the page title is "Teacher Records". There is a "Data" tab and a "Design" tab. A search bar and a gear icon are also present. Below the search bar, there is a message: "No data has been added to this data table. [Add a row](#) or [import data](#) to get started." At the bottom of the table area, there are buttons for "Delete" and "Add new row". An orange arrow points to the "Add new row" button. The footer of the page shows the DevResults logo and some status information.

You'll notice that adding information to the new row remains the same.

When adding information from the "Schools" table (column: School) to a row, you can click on the dropdown and select the School ID and Location you want to include in that specific column.



The screenshot shows the DevResults software interface with the "Teacher Records" data table. A "Data Form" modal is open, showing fields for "Assessment date" (4 Jun 2019), "Start date of school year" (30 Jun 2017), and "Country" (Guinea). The "School" field is open, displaying a dropdown menu with a list of school IDs and locations. One item in the list, "SCH-7916-P, Mélikhouré", is highlighted with an orange background. At the bottom of the modal, there are "Cancel" and "Save" buttons, with an orange arrow pointing to the "Save" button.

Click **Save** to add the new row.

If you want to display the School ID and Location separately, you can do so by clicking on the gear icon on the top right corner of the table.

In the list of columns below, you can choose to display any columns in the table you linked to this one. In our example, we can choose to display **School: Urban/Rural**, **School: # classrooms**, etc. If we want to remove the Lookup Key from the table, we can uncheck the box next to it. In our example, that would be the **School** column.

TIP: If you are creating a new data table by uploading an example that links to another table, values in one of the columns in the data table should match the generated Lookup Key in the second data table. In the example above, we would have added **School** as a column, with all values in the column formatted as **School ID, School Location**

Once you've created a linked table, you can start [populating indicators with this data](#).

Didn't answer your question? Please email us at help@devresults.com.

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