

Import Data From SurveyCTO

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DevResults integrates fully with **SurveyCTO**, a mobile data collection tool. Surveys in SurveyCTO can be imported to DevResults as a data table. In this article:

- **Tips for designing your SurveyCTO survey**
- **Create a DevResults data table and import SurveyCTO data**
- **Refresh an existing DevResults data table with SurveyCTO data**
- **Set up automatic import of data from SurveyCTO to DevResults**
- **Edit information in a SurveyCTO-linked DevResults data table**
- **Data validation when importing data to DevResults from SurveyCTO**

Note: To enable the SurveyCTO integration, a site owner must go to **Administration > Settings** and enable **SurveyCTO integration** from the list of available features.

Features

You may turn off features that won't be needed by this program.

- ☒ Awarding Organizations
- ☒ Calendar
- ☒ Checklists
- ☐ Data Table Row Locking
- ☒ Discussions
- ☒ Document Library
- ☒ Form Library
- ☐ IATI
- ☒ Partner Dashboards
- ☒ Performance
- ☒ Photo Library
- ☒ Relational Data Tables
- ☐ SurveyCTO Integration

Financial

- ☒ Finance
- ☐ Budget (legacy)
- ☐ Multiple Funding Sources

Tips for designing your SurveyCTO survey

Whether or not you've already created your SurveyCTO surveys, please reach out to us at help@devresults.com to chat about the design. We can provide you with an automatically-generated file that contains the multiple choice answers to your survey questions so that all you need to do is upload it to SurveyCTO and link it to your questions. This means that:

1. It **saves you time** creating the survey.
2. Most importantly, this is the best way to make sure that **what you import from SurveyCTO will match your indicator's geographic and demographic disaggregations in DevResults**. Multiple choice answers in SurveyCTO must match your disaggregation categories in DevResults in order to be imported, and we have a simple way to ensure that they match, and to keep things synced as you change or expand your program information.
3. If you're **collecting new location information via SurveyCTO**, we can help with a shortcut to add those new places to DevResults, which is also key to keeping things synced between the systems.

Create a DevResults data table and import SurveyCTO data

From any page on DevResults, go to **Program Info > Data Tables**.

Click **(+) New Data Table**, name the table, and select **Import from SurveyCTO**. Then click **Next**.

Sample Organization
DevResults

Quick search...

Data **Program Info** Tools Administration

Home > Program Info > Data Definitions > Data Tables

12 of 12 data tables shown

Tag
Column
Column Data Type
Number
Activity
Disaggregation
Geographic Disaggregation
Has:

Create New Data Table

Name:

Data Source:
☐ Design the table manually
☐ Upload an example
☒ Import from SurveyCTO
☐ Custom Query

Open	Name	Count	Description
Open	Crop Sales	8,512	Date, Farmer, Crop Type, \$ value of sal...
Open	Schools	128	School ID, School Location, Urban/Rur...
Open	Classrooms	829	Classroom ID, School ID, Grade, Well-s...
Open	Teachers	1,356	Teacher ID, Classroom ID, Sex, # years ...
Open	Certifications	2,044	Certification Type, Teacher ID, Certifica...
Open	Cohorts	100	Cohort ID, Intervention Type, Duration ...
Open	Responses	5	Response, Ordinal Value
Open	Metadata	1,129	Activity, Activity Status, Primary Organi...
Open	Malaria Survey	6	SubmissionDate, Activity, ParticipantID...
	12 data tables		

DevResults

You will now be prompted to enter information on the SurveyCTO form you would like to connect to.

You will need to enter the **Server** name (this is the prefix to your SurveyCTO URL), the **Form ID** (the name of the SurveyCTO form you want to link to), as well as your **SurveyCTO email and password**. If you're unsure about any of these fields, please refer to [SurveyCTO's documentation](#) and then reach out to us at help@devresults.com.

Create New Data Table

Server

Form ID

Email

Password
* DevResults will not store your password
[Need help connecting to SurveyCTO?](#)

Once you've entered this information, click **Next**.

You can now configure the titles and types of columns you want to import, de-select fields you don't want to import, and choose to either create the table and import data or create the table without importing data.

Create New Data Table

Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?
CompletionDate	SubmissionDate	starttime	endtime	username	duration	enumerator_team	enumerator	enumerator	province	district	gps_location	consent	comment	respondent_name
Date	Date	Date	Date	Other Text	Number	Other Text	Other Text	Other Text	Other Text	Other Text	Other Text	Number	Other Text	Other
Whole														
Dec 2, 2016 9:07:15 AM	Feb 4, 2017 8:11:19 AM	Dec 2, 2016 9:03:00 AM	Dec 2, 2016 9:07:15 AM	eastern_team	255	eastern	Johannah_Moyo	Manicaland	Mutare		-18.984626 32.380355 0.0 0.0	1		Sheline Godfrey
Dec 2, 2016 9:40:28 AM	Feb 4, 2017 8:11:50 AM	Dec 2, 2016 9:35:00 AM	Dec 2, 2016 9:40:28 AM	eastern_team	328	eastern	Johannah_Moyo	Manicaland	Mutare		-18.844907 32.617282 0.0 0.0	1		Unathi Emerald
Dec 2, 2016 9:43:06 AM	Feb 4, 2017 8:11:21 AM	Dec 2, 2016 9:41:00 AM	Dec 2, 2016 9:43:06 AM	eastern_team	126	eastern	Mercy_Wadzani	Manicaland	Mutare		-18.871599 32.57812 0.0 0.0	0		
Dec 2, 2016 9:50:28 AM	Feb 4, 2017 8:11:19 AM	Dec 2, 2016 9:45:00 AM	Dec 2, 2016 9:50:28 AM	eastern_team	328	eastern	Rejoice_Simeikilos	Manicaland	Chimanimani		-19.791929 32.003911 0.0 0.0	1		Wadzani John
Dec 2, 2016 9:51:31 AM	Feb 4, 2017 8:11:49 AM	Dec 2, 2016 9:48:00 AM	Dec 2, 2016 9:51:31 AM	eastern_team	391	eastern	Rejoice_Simeikilos	Manicaland	Chimanimani		-19.798137 32.00040 0.0 0.0	1		Rade Parai
Dec 2, 2016 9:52:41 AM	Feb 4, 2017 8:11:42 AM	Dec 2, 2016 9:48:00 AM	Dec 2, 2016 9:52:41 AM	eastern_team	281	eastern	Rejoice_Simeikilos	Manicaland	Chimanimani		-19.800363 32.079166 0.0 0.0	1		Tea Wellington
Dec 2, 2016 9:52:58 AM	Feb 4, 2017 8:11:35 AM	Dec 2, 2016 9:49:00 AM	Dec 2, 2016 9:52:58 AM	eastern_team	258	eastern	Precious_Rutendo	Manicaland	Chimanimani		-19.812784 32.859427 0.0 0.0	1		Sheena Tendai
Dec 2, 2016 10:00:50 AM	Feb 4, 2017 8:11:17 AM	Dec 2, 2016 9:55:00 AM	Dec 2, 2016 10:00:50 AM	eastern_team	350	eastern	Mercy_Wadzani	Manicaland	Mutare		-18.865121 32.596851 0.0 0.0	1		Ronald Makin
Dec 2, 2016 10:12:13 AM	Feb 4, 2017 8:11:39 AM	Dec 2, 2016 10:10:00 AM	Dec 2, 2016 10:12:13 AM	eastern_team	133	eastern	Rejoice_Simeikilos	Manicaland	Chimanimani		-19.805764 32.863996 0.0 0.0	0		
Dec 2, 2016 10:17:45 AM	Feb 4, 2017 8:11:26 AM	Dec 2, 2016 10:12:00 AM	Dec 2, 2016 10:17:45 AM	eastern_team	345	eastern	Precious_Rutendo	Manicaland	Chimanimani		-19.808852 32.858767 0.0 0.0	1		Chibi Tawanda
Dec 2, 2016 10:19:25 AM	Feb 4, 2017 8:11:25 AM	Dec 2, 2016 10:16:00 AM	Dec 2, 2016 10:19:25 AM	eastern_team	205	eastern	Mercy_Wadzani	Manicaland	Mutare		-18.863436 32.594645 0.0 0.0	1		Nakai Anesu
Dec 2, 2016 10:20:58 AM	Feb 4, 2017 8:11:46 AM	Dec 2, 2016 10:20:58 AM	Dec 2, 2016 10:20:58 AM	eastern_team	238	eastern	Mercy_Wadzani	Manicaland	Mutare		-18.871985 32.580137 0.0 0.0	1		Prosper Nyamude
Dec 2, 2016 10:39:37 AM	Feb 4, 2017 8:11:32 AM	Dec 2, 2016 10:36:00 AM	Dec 2, 2016 10:39:37 AM	eastern_team	217	eastern	Johannah_Moyo	Manicaland	Mutare		-18.854806 32.619137 0.0 0.0	1		Shovy Nu Luk
Dec 2, 2016 10:49:37 AM	Feb 4, 2017 8:11:51 AM	Dec 2, 2016 10:48:00 AM	Dec 2, 2016 10:49:37 AM	eastern_team	97	eastern	Rejoice_Simeikilos	Manicaland	Chimanimani		-19.806031 32.862802 0.0 0.0	0		
Dec 2, 2016 10:51:12 AM	Feb 4, 2017 8:11:41 AM	Dec 2, 2016 10:48:00 AM	Dec 2, 2016 10:51:12 AM	eastern_team	132	eastern	Precious_Rutendo	Manicaland	Chimanimani		-19.797994 32.87509 0.0 0.0	0		

180 rows

☒ Create table and import this data
☐ Create table without importing the data

[Back](#) [Create Data Table](#)

Click **(+) Create Data Table** to complete the import process.

Refresh an existing DevResults data table with SurveyCTO data

DevResults offers a click-to-import option to pull data from SurveyCTO to DevResults. When new information has been collected on SurveyCTO, refresh the data table by clicking on the right-hand gear icon and clicking "Import from SurveyCTO."

Home > Program Info > Data Definitions > Data Tables > Household Survey

Household Survey

Data Design

Search

[Add new row](#) [Delete](#)

	Key Value	ExternalKeyVal
	1	uid:e992969-2463-4222-846a-91718f45e119

- Import History
- Download table
- Download 1 filtered item
- Download empty template
- Import from SurveyCTO**
- Import data

DevResults does not store external passwords, so you will be prompted to enter your SurveyCTO password once again.

You will then be asked to review the new and updated rows of information before you can complete the import. Click **Import data** once you've reviewed the new information.

Import Data

Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?
CompletionDate	SubmissionDate	starttime	endtime	username	duration	enumerator_team	enumerator	enumerator	province	district	gps_location	consent	comment	respondent_name
Date	Date	Date	Date	Other Text	Number	Other Text	Other Text	Other Text	Other Text	Other Text	Other Text	Number	Other Text	Other
Nov 20, 2019 9:19:09 PM	Nov 20, 2019 9:19:09 PM	Nov 20, 2019 9:18:20 PM	Nov 20, 2019 9:19:09 PM	jeff@devresults.com	49	eastern	Precious_Rutendo	Mashonaland_Central	Moire		38.8834355 -77.1003048 0.0 118.0	1		jden

Adding 1 row, updating no rows

[Back](#) [Import data](#)

Set up automatic import of data from SurveyCTO to DevResults

DevResults also offers a webhook-automated import option to pull data from SurveyCTO to DevResults.

1. In DevResults, **create an API key** that will be used by SurveyCTO to log into DevResults. The key should belong to a permission group that has **View & Edit** permissions for the **Data Table Manager** role; sometimes it makes sense to create a group just for the new API Key. Take note of the "API Key" field (you do not need the "API Secret" field).

Home > Administration > API Keys > My SurveyCTO API Key

My SurveyCTO API Key

API Key Details

Application Name My SurveyCTO API Key

API Key **F+EyN2zR+XSrx2jUfFc**

API Secret ***** [Reset API Secret](#)

Permissions

Group **Data Table Contributors**
Users that can add and edit data in all data tables

2. In SurveyCTO, **create webhooks** for each table that you'd like to automatically update.

- Point the webhook at the relevant API endpoint for each table. You can find the API endpoint at the bottom of the **Design** tab for each SurveyCTO-linked data table. The format for the API endpoint is:

```
https://{site}.devresults.com/api/dynamictables/{dynamicTableID}/webhook
```

- For each table, select the fields/columns that should be published to DevResults (some or all of the table).
- For each webhook, add authorization. Use a JSON text summary and call it **DevResultsApiToken**. The value that you send is the API Key value from the first step.

☐ Include hyperlink to submission details?

☒ Include text summary?

JSON element name for text summary:

DevResultsApiToken

JSON text:

F+EyN2zR+XSrx2jUfFc

Include \${fieldname} references to dynamically include field data in the text summary.

☐ Embed binary fields?
If not embedded, binary fields will be published as hyperlinks.

[Cancel](#) [Save](#)

Currently, SurveyCTO is not able to send any error messages if something is incorrect, so if the data does not import as expected, please reach out to us at help@devresults.com and we will investigate.

Edit information in a SurveyCTO-linked DevResults data table

You may add/import, edit, or delete data in a SurveyCTO-linked data table just as you would any other data table. You may also add, edit, delete, or reorder columns, though any changes you make will not automatically synchronize with SurveyCTO.

Note: Changes made to the data as well as the structure of a SurveyCTO-linked data table will not be replicated or automatically synchronized with the survey or data in SurveyCTO. Instead, you should only make changes in DevResults to reflect changes that you have already enacted in your SurveyCTO server. When adding a new column to a SurveyCTO-linked data table, be sure to list the name of the SurveyCTO field in the **External Field** column on the DevResults data table design tab.

Each row of SurveyCTO data in DevResults is associated with both a DevResults KeyValue and a SurveyCTO **ExternalKeyValue**. This ExternalKeyValue will let you identify the same row of data in DevResults and SurveyCTO.

ExternalKeyValue

You can look up specific rows in SurveyCTO by clicking on the **Monitor** tab, and selecting "**Look up by key**" for your form.

The screenshot shows the SurveyCTO web interface. At the top, there's a navigation bar with tabs: 1. Design, 2. Collect, 3. Monitor (selected), 4. Export, and a Configure gear icon. Below the navigation bar, there's a header for the selected form: 'Sample household listing form with sample data'. To the right of the header are several icons: Monitor form data, Review workflow, Purge form data, Look up by key (highlighted), and Advanced mode. Below the header, it says 'Form ID: hh_listing_2, Complete submissions: 180 (latest Nov. 18, 2019 at 11:56:18AM)'. The main content area is titled 'Look up by key' and contains instructions: 'If you have the unique key for one or more submissions (also called a "unique ID", "UUID", or "instance ID"), you can enter them here in order to view those submissions in full. Use the Monitor form data action instead to view all submissions, or if you don't know the unique key for the submissions you want to view.' Below the instructions is a section 'Submissions to look up:' with a text input field labeled 'Enter the unique key(s)'. A note below the input field says 'You can include multiple keys separated by commas, spaces, and/or line-breaks.' At the bottom of the section are two buttons: 'View submissions' and 'Close'.

Data validation when importing data to DevResults from SurveyCTO

Information imported from SurveyCTO must match the data type of the DevResults data table column it's being imported to.

Values imported to a:

- date column must be a date.
- yes/no column must be a 1 or 0.
- numeric column must be a compatible value (e.g. whole number, decimal, percentage).
- project column must match an existing DevResults project.
- geography column must match an existing DevResults geography.
- disaggregation column must match an existing DevResults disaggregation category.

Note: Data exported from SurveyCTO never contains spaces; spaces are replaced with underscores. DevResults does not distinguish between underscores and spaces for the purpose of data table imports, so the value "Conflict_resolution" from SurveyCTO will match the value "Conflict resolution" in DevResults.

With **click-to-import**, data validation errors show in the import modal and must be resolved before data can be imported.

- The click-to-import process pulls only the survey responses that are new since the last time the click-to-import process was used.
- Anything previously imported that was then changed/deleted in DevResults will not be edited/overwritten/re-

added in subsequent imports.

With **webhook-automated imports**, data validation errors show in the diagnostics tab.

- Once validation errors are resolved, no action is needed to import the data, because SurveyCTO will periodically re-try any failed webhook pushes. Eventually the data will be imported successfully and the diagnostics tab will turn green.
- Alternatively, you can use the click-to-import option to immediately refresh results. But note: The click-to-import option will try to import any new data since the last time the click-to-import option succeeded, not the last time a webhook-automated import succeeded.
 - No duplicates will be created, because the system uses the external key value to identify rows.
 - If rows were imported via webhook between click-to-import actions, then edited in DevResults, those rows would be overwritten to what's in SurveyCTO.
 - If rows were imported via webhook between click-to-import actions, then deleted in DevResults, they would need to be deleted from SurveyCTO (because DevResults cannot update a deleted data table row).

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

Related Articles
