

Exporting Data from REDCap

February 2023 Grand Rounds

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THE OHIO STATE
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COLLEGE OF MEDICINE

REDCap Services

<https://u.osu.edu/redcap/>



- Grand Rounds
 - 2nd Tuesday of each month @ 11am
- Monthly Trainings
 - 4th Wednesday of each month @ 12pm
 - New Hire, Design 1, Design 2- Basic, Design 2- Advanced, Data Entry & Program Management, eConsent
- Office Hours
 - Mondays 11am-1pm & Wednesdays 1pm-3pm
 - Drop-in through Zoom link (on website)
- Thursday Consults
 - Form Reviews, Initial Consult, Troubleshooting, eConsent
 - Scheduled: link on website

Agenda

Exporting from REDCap

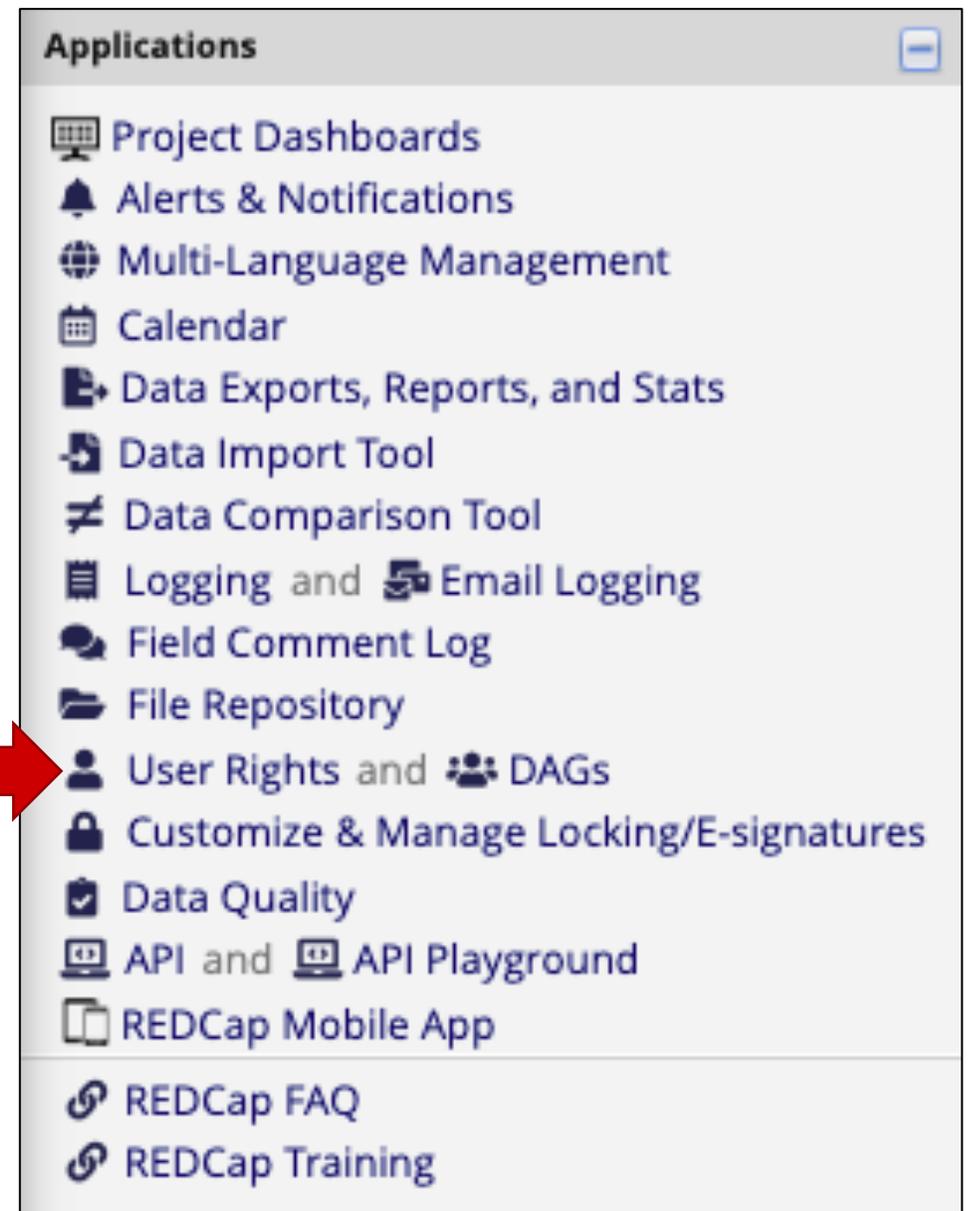
- Overview
- Options
- Reports
- Statistics packages
 - SPSS
 - R
 - SAS
 - Tableau



Overview

Exporting Rights

- Ability to Export
 - Level of export rights
- Ability to obtain API token
 - Export into apps
 - Export into Tableau
- Ability to add/ edit reports
 - Also controlled on report-level



Overview

User Rights

Privileges for Viewing and Exporting Data

Data Viewing Rights pertain to a user's ability to view or edit data on pages in the project (e.g., data entry forms, reports). Users with 'No Access' Data Viewing Rights for a given instrument will not be able to view that instrument for any record, nor will they be able to view fields from that instrument on a report. Data Export Rights pertain to a user's ability to export data from the project, whether through the Data Exports page, API, Mobile App, or in PDFs of instruments containing record data. Note: Data Viewing Rights and Data Export Rights are completely separate and do not impact one another.

	Data Viewing Rights				Data Export Rights			
	No Access (Hidden)	Read Only	View & Edit	Edit survey responses	No Access	De-Identified*	Remove All Identifier Fields	Full Data Set
Time Period	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
EDC (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
DSEC (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
RISE (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
RIDE (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
RUED (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
EDC- Year (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>



API

[What is the REDCap API?](#)



API Export



API Import/Update



Add/Edit/Organize Reports

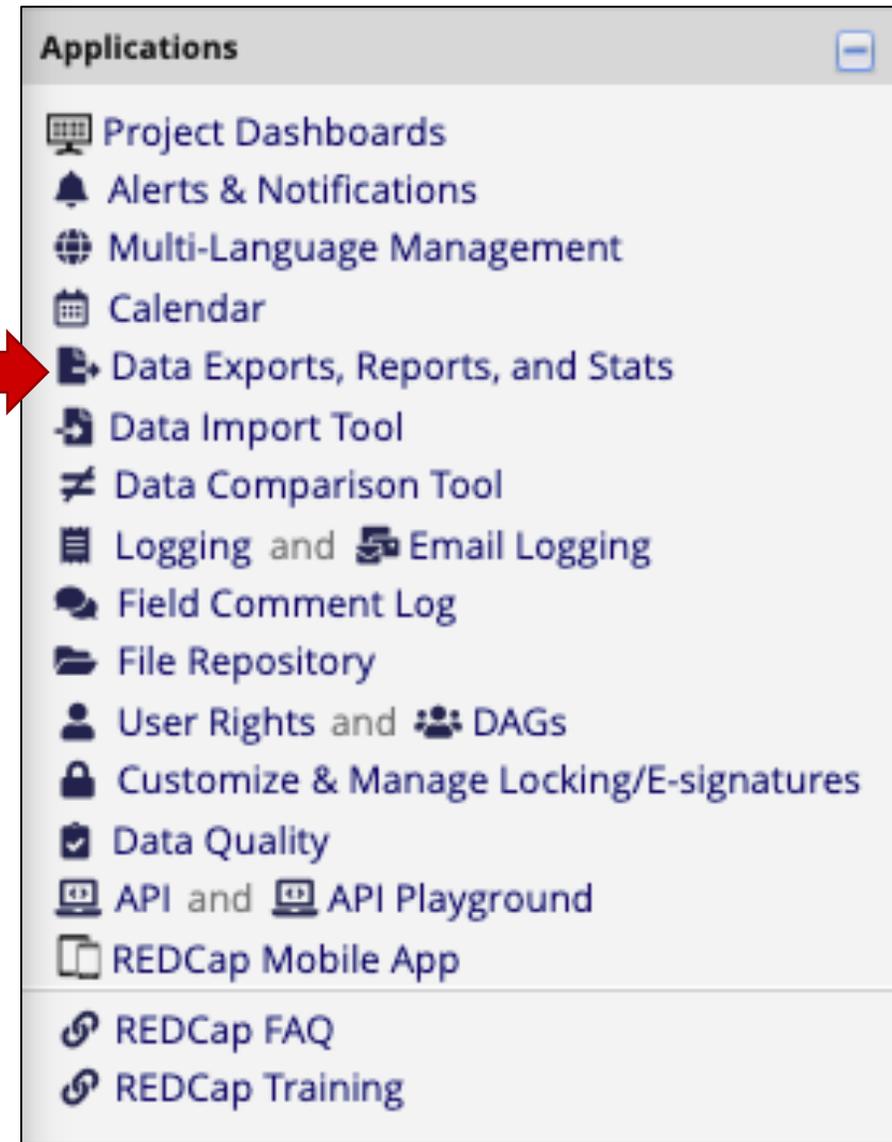
Also allows user to view ALL reports (but not necessarily all data in the reports)



Overview

Exporting Module

- Easily view reports
- View plots of descriptive statistics
- Export to multiple statistics packages
- Export entire dataset, custom selections, or reports



Overview

Exporting Module

1. All Records
2. All Records from selected instruments or events
3. All Records from generated reports

Data Exports, Reports, and Stats [VIDEO: How to use Data Exports, Reports, and Stats](#)

[+ Create New Report](#) [My Reports & Exports](#) [Other Export Options](#)

This module allows you to easily view reports of your data, inspect plots and descriptive statistics of your data, as well as export your data to Microsoft Excel, SAS, Stata, R, or SPSS for analysis (if you have such privileges). If you wish to export your *entire* data set or view it as a report, then Report A is the best and quickest way. However, if you want to view or export data from only specific instruments (or events) on the fly, then Report B is the best choice. You may also create your own custom reports below (if you have such privileges) in which you can filter the report to specific fields, records, or events using a vast array of filtering tools to make sure you get the exact data you want. Once you have created a report, you may view it as a webpage, export it out of REDCap in a specified format (Excel, SAS, Stata, SPSS, R), or view the plots and descriptive statistics for that report.

My Reports & Exports

	Report name	View/Export Options	Management Options
1	A All data (all records and fields)	View Report Export Data Stats & Charts	
2	B Selected instruments and/or events (all records)	Make custom selections	
	1 consult numbers	View Report Export Data Stats & Charts	Edit Copy Delete
	2 EDC Data	View Report Export Data Stats & Charts	Edit Copy Delete
	+ Create New Report		

Overview

Exporting Module Options

Choose export format

-  CSV / Microsoft Excel (raw data)
-  CSV / Microsoft Excel (labels)
-  SPSS Statistical Software
-  SAS Statistical Software
-  R Statistical Software
-  Stata Statistical Software
-  CDISC ODM (XML)

De-identification options (optional)

The options below allow you to limit the amount of sensitive information that you are exporting out of the project. Check all that apply.

Known Identifiers:

- Remove All Identifier Fields (tagged in Data Dictionary)
- Hash the Record ID field (converts record name to an unrecognizable value)

Free-form text:

- Remove unvalidated Text fields (i.e. Text fields other than dates, numbers, etc.)
- Remove Notes/Essay box fields

Date and datetime fields:

- Remove all date and datetime fields
— OR —
- Shift all dates by value between 0 and 364 days (shifted amount determined by algorithm for each record)
[What is date shifting?](#)
 - Also shift all survey completion timestamps by value between 0 and 364 days (shifted amount determined by algorithm for each record)

[Deselect all options](#)

Advanced data formatting options

Export blank values for gray Form Status?
All Form Status fields with a gray status icon can be exported either as a blank value or as "0" (Incomplete). Hint: Blank values are recommended if the data will be imported back into REDCap, in which this preserves the gray status icons for all the imported records.

Export gray Form Status fields with value of "0" ▼

Set CSV delimiter character
Set the delimiter used to separate values in the CSV data file (only valid for CSV Raw Data and CSV Labels export formats):

, (comma) - default ▼

Force all numbers into a specified decimal format?
You may choose to force all data values containing a decimal to have a specified decimal character (comma or period/full stop). This will be applied to all calculations and number-validated text values in the export file.

Use fields' native decimal format (default) ▼

NOTE: Your data formatting selections above will be remembered in the future and will be pre-selected upon your next export.

Options

De-identification options (optional)

- Remove tagged Identifiers
- Remove unvalidated text fields (not dates or numbers)
- Remove free-form text that may contain identifying details (e.g., physician notes)
- Remove date and time
- Shift dates

Identifier? No Yes

Does the field contain identifying information (e.g., name, SSN, address)?

De-identification options (optional)

The options below allow you to limit the amount of sensitive information that you are exporting out of the project. Check all that apply.

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[What is date shifting?](#)
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[Deselect all options](#)

Options

De-identify

	A	B	C	D	E	F	G	H	I	J
1	record_id	redcap_event_name	redcap_repeat_instrument	redcap_repeat_instance	last_name	first_name	dob	age	gender	preg
2	1	baseline_arm_1			Flintstone	Wilma		26	2	1
3	1	visit_1_arm_1	concomitant_medications	1						
4	1	visit_1_arm_1	concomitant_medications	2						
5	2	baseline_arm_1			Buckeye	Brutus	10/31/1965	52	1	
6	2	visit_2_arm_1	concomitant_medications	1						
7	3	baseline_arm_1			Hamilton	Alexander	1755-01-11	I'm dead		1
8	4	baseline_arm_1			Burr	Aaron	1756-02-06	262		1

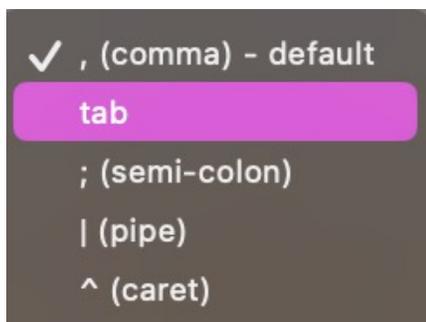
	A	B	C	D	E	F	G
1	record_id	redcap_event_name	redcap_repeat_instrument	redcap_repeat_instance	age	gender	preg
2	1	baseline_arm_1			26	2	1
3	1	visit_1_arm_1				2	0
4	1	visit_1_arm_1	concomitant_medications		1		
5	1	visit_1_arm_1	concomitant_medications		2		
6	2	baseline_arm_1			52	1	
7	2	visit_2_arm_1	concomitant_medications		1		
8	3	baseline_arm_1			I'm dead	1	
9	4	baseline_arm_1			262	1	



Options

Advanced Data Formatting Options

- Set to default options
 - Unopened forms ("gray" status) exported as "0", or Incomplete ("red")
 - Option to make it BLANK
 - Set to comma to separate values in CSV



- Number formats as native decimal
 - Period (full stop)
 - Commas

Advanced data formatting options

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Set the delimiter used to separate values in the CSV data file (only valid for CSV Raw Data and CSV Labels export formats):

, (comma) - default ▼

Force all numbers into a specified decimal format?

You may choose to force all data values containing a decimal to have a specified decimal character (comma or period/full stop). This will be applied to all calculations and number-validated text values in the export file.

Use fields' native decimal format (default) ▼

NOTE: Your data formatting selections above will be remembered in the future and will be pre-selected upon your next export.

Options

Other Export Options

- Export XML
 - Metadata and Data

 Download metadata only (XML)

 Download metadata & data (XML)

Include the following in the XML file:

- Reports
- Alerts & Notifications
- Surveys and survey settings

Download a backup of this project. The entire project (all records, events, arms, instruments, fields, and project attributes) can be downloaded as a single XML file, which is in CDISC ODM format (ODM version 1.3.1). This XML file can be used to create a clone of the project (including its data, optionally) on this REDCap server or on another REDCap server (it can be uploaded on the Create New Project page). Because it is in CDISC ODM format, it can also be used to import the project into another ODM-compatible system.

NOTE: The exported XML file does *not* contain the project's logging history (audit trail), but if you wish to obtain it, you may freely download it any time at the top of the Logging page.

- PDF of instruments containing data
 - Can be extremely large
 - Copy stored in File Repository
- Tableau*
 - API token required

Data Exports, Reports, and Stats VIDEO: How to use Data Exports, Rep

[+ Create New Report](#) [My Reports & Exports](#) [Other Export Options](#)

Below are some additional export options that are available for your project. Instructions for each type of export are provided. You may click the corresponding icon on the right to download the file for each.

 **Export entire project as REDCap XML file (containing metadata & data)**

The entire project (all records, events, arms, instruments, fields, and project attributes) can be downloaded as a single XML file, which is in CDISC ODM format (ODM version 1.3.1). This XML file can be used to create a clone of the project (including its data, optionally) on this REDCap server or on another REDCap server (it can be uploaded on the Create New Project page). Because it is in CDISC ODM format, it can also be used to import the project into another ODM-compatible system.



 **PDF of data collection instruments containing saved data (all records)**

The data for all records in this project may be downloaded in a single PDF file. This file contains the actual page format as you would see it on the data entry page or survey and includes all data for all records for all data collection instruments. Click the icon to the right to begin downloading the file. Also, you may optionally click the Compact option to download a PDF that excludes fields that have no data saved and excludes unselected multiple choice options. (Note: Section headers and descriptive fields will still be included.)

Note: If your project has a large amount of fields/questions or records/responses, the resulting PDF file may be very large both in file size and in page length. Please be patient if the file takes time to download.

NOTICE: When downloading a PDF file containing data for all records, a copy of that downloaded PDF will be archived and stored in the File Repository.




 **Tableau Export: Extract all records into Tableau via the REDCap API**

This feature enables Tableau (v10.0+) users to connect Tableau to a REDCap project using an API token. Project data can be exported on demand and be available for use within Tableau to produce summaries and visualizations. Click the button to the right and follow the instructions to export your data into Tableau.

NOTICE: It is required to have an API token generated for the project in order to use this feature.

Why Tableau?

Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data in a very easily understandable format. Tableau helps create the data that can be understood by professionals at any level in an organization.

Tableau is a visual analytics engine that makes it easier to create interactive visual analytics in the form of dashboards. These dashboards make it easier for non-technical analysts and end users to convert data into understandable, interactive graphics.

[View export instructions](#)

Overview

Exporting Action

Choose export format

-  CSV / Microsoft Excel (raw data)
-  CSV / Microsoft Excel (labels)
-  SPSS Statistical Software
-  SAS Statistical Software
-  R Statistical Software
-  Stata Statistical Software
-  CDISC ODM (XML)

De-identification options (optional)

The options below allow you to limit the amount of sensitive information that you are exporting out of the project. Check all that apply.

Known Identifiers:

- Remove All Identifier Fields (tagged in Data Dictionary)
- Hash the Record ID field (converts record name to an unrecognizable value)

Free-form text:

- Remove unvalidated Text fields (i.e. Text fields other than dates, numbers, etc.)
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[Deselect all options](#)

Advanced data formatting options

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Export gray Form Status fields with value of "0" ▼

Set CSV delimiter character
Set the delimiter used to separate values in the CSV data file (only valid for CSV Raw Data and CSV Labels export formats):

, (comma) - default ▼

Force all numbers into a specified decimal format?
You may choose to force all data values containing a decimal to have a specified decimal character (comma or period/full stop). This will be applied to all calculations and number-validated text values in the export file.

Use fields' native decimal format (default) ▼

NOTE: Your data formatting selections above will be remembered in the future and will be pre-selected upon your next export.



Export Data **Cancel**

Overview

Exporting Action

The screenshot displays the REDCap interface with a notification window open. The notification window has a green checkmark and the text: "Data export was successful!". Below this, it states: "The data export was successful, and your data is now ready to be downloaded. Click the download icon(s) below on the right to download your data file. If exporting to a specific statistical analysis package, you will additionally need to download the syntax file that is provided for that stats package. For more details, follow the instructions in the box below."

A yellow box contains a "Citation Notice": "Please cite The Ohio State University Center for Clinical and Translational Science grant support (**National Center for Advancing Translational Sciences, Grant UL1TR001070**) in publications relating to this project. Please also cite the REDCap project when publishing manuscripts (citation information and template methods language are [available here](#)).

Below the citation notice is a section for "SPSS Statistical Software". It includes the SPSS logo and text: "Download and save all 3 files on the right to a common location. First, double-click on the Pathway Mapper (.bat) file, which will run quickly and invisibly. (If you are not using a Windows operating system, such as Mac or Linux, please see the *Additional Instructions*.) Now double-click on the *.sps file, which will open SPSS. When the file is loaded and displayed, choose Run-->All from options. This action will launch the script that will automatically manipulate data fields with labels, option values, etc." A red arrow points from the text "choose Run-->All from options" to the "Pathway Mapper" download icon. To the right of the text are three download icons: "SPSS", "DATA CSV", and "Pathway Mapper". Below these icons is a "Send file?" link. A "Close" button is at the bottom right of the notification window.

The background interface shows a sidebar with navigation options like "Project Home", "Designer", "Data Collection", and "Applications". The main content area is titled "My Reports & Exports" and contains a table with the following data:

	Report name
A	All data (all records and fields)
B	Selected instruments and/or
1	consult numbers
2	EDC Data

At the bottom of the interface, a taskbar shows three open files: "spss_pathway_map....bat", "CCTSMonthlyMetri....csv", and "CCTSMonthlyMetri....sps". A red arrow points to the "spss_pathway_map....bat" file.

Reports in REDCap



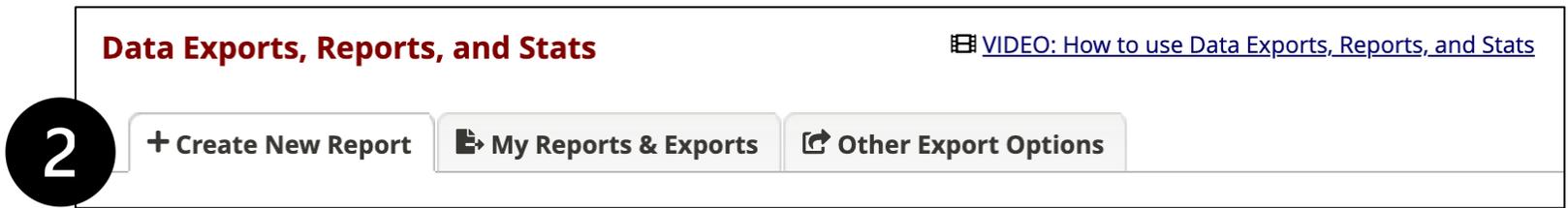
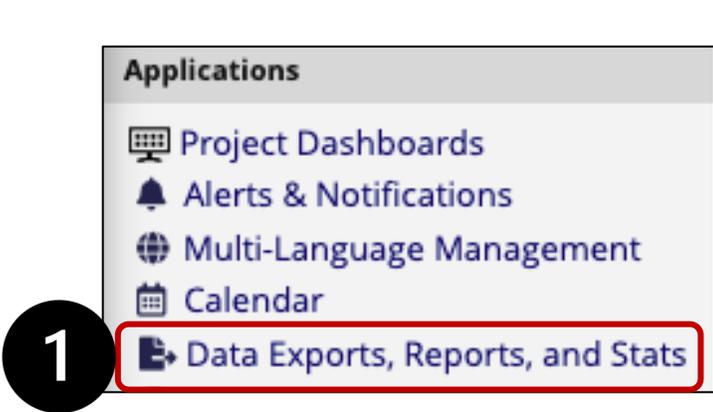
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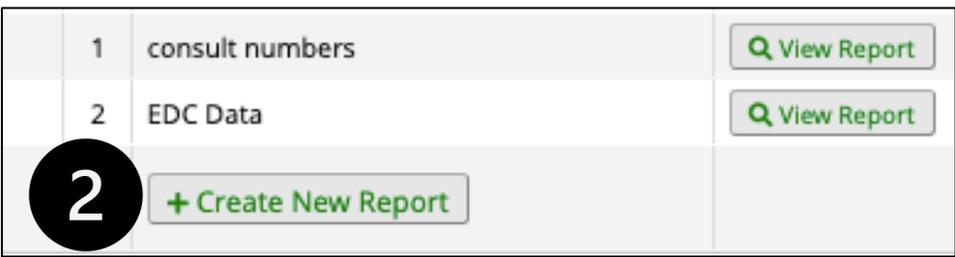
Reports

Building

- Create reports by selecting fields and variables from project
- Used to view a snapshot of data rather than an analytical tool
- Typically used for reports that you will run frequently



OR



Reports Building

Name of Report:

Set as "public": Enabling this feature below will auto-generate a public link for viewing the report without needing to log in to REDCap.
 Report is publicly viewable by anyone with the public link

Description (optional):
Displayed on page below report name

Paragraph

Rich Text Editor: Paragraph, Bold (B), Italic (I), Underline (U), Link, Bulleted List, Numbered List, Indent Left, Indent Right, Table, Table Cell, Table Row, Text Color, Background Color, Find, Source Code, Insert Image, Full Screen

Name the report

STEP 1

+ User Access: Choose who can edit and view this report

View Access: Choose who sees this report on their left-hand project menu [?](#)

All users - OR - **Custom user access** (Choose specific users, roles, or data access groups who will have access)

Edit Access: Choose who can edit, copy, or delete this report (requires user to have 'Add/Edit/Organize Reports' privileges)

All users - OR - **Custom user access** (Choose specific users, roles, or data access groups who will have access)

Step 1: Set user access

Reports

Building

Step 2: Select fields to include & set Additional report options

STEP 2

Fields to include in report + Quick Add Add all fields from selected instrument: -- choose instrument --

Field 1	<input id\""="" record="" type="text" value="record_id \"/>		Instrument: Combined Consent & HIPAA A...	
Field 2	<input type="text" value="Type variable name or field label"/>		Instrument:	

Additional report options (optional)

- Include the Data Access Group name for each record (if record is in a group)?
- Include the survey identifier field and survey timestamp field(s)?
- Combine checkbox options into single column of only the checked-off options (will be formatted as a text field when exported to stats packages)
- Include the repeating instance fields (`redcap_repeat_instrument`, `redcap_repeat_instance`) in the report and data export?
- Remove line breaks/carriage returns from all text data values (only applicable for CSV Raw and CSV Label data exports)

In the report header, display the field label, variable, or both (not applicable for exports)? Both

In the report's data, display the field label, raw data value, or both for multiple choice fields (not applicable for exports)? Both

Reports Building

Step 3:
Set filters (if any)
Example: filtering by location

Filter by events

Live filters (multiple choice fields only)

STEP 3

Show data for all events or repeating instruments for each record returned [? How to use filters and AND/OR logic](#)

Filters (optional) **Operator / Value**

Filter 1	Type variable name or field label ⌵	= ⌵	
	in ⌵ All events		

Switch format: [Use advanced logic](#)

TIP: Use [X-instance] Smart Variables to filter repeating data.

- Show only repeating instance data: [current-instance] <> ""
- Show only the first repeating instance: [current-instance] <> "" and [current-instance] = [first-instance]

Additional Filters (optional) (Records belonging only to ALL selections below will appear in the report)

Filter by event(s): <div style="border: 1px solid #ccc; padding: 2px; font-size: x-small;"> Baseline (Arm 1: Arm 1) Text Reminder (Arm 1: Arm 1) Text Reminder 2 (Arm 1: Arm 1) Visit 1 (Arm 1: Arm 1) Visit 2 (Arm 1: Arm 1) </div>	Filter by DAG(s): <div style="border: 1px solid #ccc; padding: 2px; font-size: x-small;"> OSU Site 1 Site 2 </div>
--	--

Live Filters (optional) Live Filters can be selected on the report page for dynamically filtering data in real time. With the exception of the Record ID field, only multiple choice fields can be used as Live Filters (as well as Events, if longitudinal, and Data Access Groups, if any exist).

Live Filter 1	-- select a field -- ⌵
Live Filter 2	-- select a field -- ⌵
Live Filter 3	-- select a field -- ⌵

Reports

Building

Step 4: Order the records

STEP 4

↓↑ Order the Results (optional)

First by	record_id "Project ID" ▾	📄	Ascending order ▾
Then by	Type variable name or field label	📄 ▾	Ascending order ▾
Then by	Type variable name or field label	📄 ▾	Ascending order ▾

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

Save Report (Important! Not saved automatically)

Reports

Running

Any report you have access to will be listed in the left menu



Click the Report Name
Report is ran and opened

Record ID record_id	Event Name redcap_event_name	Repeat Instrument redcap_repeat_instrument	Repeat Instance redcap_repeat_instance	How old are you, [first_name]? age	Gender gender	Height ht_in	Weight wt_lb
2 Buckeye, Brutus	Baseline			50			
2 Buckeye, Brutus	Visit 1				Male (1)	73	175.01
3 Hamilton, Alexander	Baseline			I'm dead			
3 Hamilton, Alexander	Visit 1				Male (1)	72	160.00
4 Burr, Aaron	Baseline			263			
4 Burr, Aaron	Visit 1				Male (1)	68	155.00

Reports can be re-sorted by using arrows to the left of the fields
Depending on your permissions, you can export, print, or edit the report

Reports

Viewing

Number of results returned: 6

Total number of records queried: 13

(records = total available data across all designated events)

Stats & Charts

Export Data

Print Page

Edit Report

Live filters: Male [Reset](#)

Example Report

Search

Record ID record_id	Event Name redcap_event_name	Repeat Instrument redcap_repeat_instrument	Repeat Instance redcap_repeat_instance	How old are you, [first_name]? age	Gender gender	Height ht_in	Weight wt_lb
2 Buckeye, Brutus	Baseline			50			
2 Buckeye, Brutus	Visit 1				Male (1)	73	175.01
3 Hamilton, Alexander	Baseline			I'm dead			
3 Hamilton, Alexander	Visit 1				Male (1)	72	160.00
4 Burr, Aaron	Baseline			263			
4 Burr, Aaron	Visit 1				Male (1)	68	155.00

Same report with a live filter on gender instead of hard coding the filter

Layout isn't optimal because the variables chosen come from different forms, so data are divided, one form per row

Event Name, Repeat Instrument and Repeat Instance cannot be removed

Reports

Exporting Options

1. Export from Exporting Module

1	consult numbers	View Report	Export Data	Stats & Charts
2	EDC Data	View Report	Export Data	Stats & Charts

2. Export from within report itself

Number of results returned: 26
Total number of records queried: 26
(‘records’ = total available data across all designated events)
Report execution time: 0 seconds

[Stats & Charts](#) [Export Data](#) [Print Page](#) [Edit Report](#)

Exporting Data To Excel



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Excel

Export Options

- Exported as CSV file
- Upload into any Stats Package as is
- View simple statistics Excel
- Export for editing data and re-upload*



Excel

CSV Export – Raw Data

Exports numeric value of choice fields, usually used for analysis

	A	B	C	D	E	F	G	H	I	J
1	record_id	redcap_event_name	redcap_repeat_instrument	redcap_repeat_instance	last_name	first_name	dob	age	gender	preg
2	1	baseline_arm_1			Flintstone	Wilma		26	2	1
3	1	visit_1_arm_1	concomitant_medications	1						
4	1	visit_1_arm_1	concomitant_medications	2						
5	2	baseline_arm_1			Buckeye	Brutus	10/31/1965	52	1	
6	2	visit_2_arm_1	concomitant_medications	1						
7	3	baseline_arm_1			Hamilton	Alexander	1755-01-11	I'm dead	1	
8	4	baseline_arm_1			Burr	Aaron	1756-02-06	262	1	

CSV Export – Labels

Exports text value of choice fields and uses full question text in header

	A	B	C	D	E	F	G	H	I	J
1	Record ID	Event Name	Repeat Instrument	Repeat Instance	Last Name	First Name	What is your date of birth?	How old are you, [first_name]?	Gender	Has she ever been pregnant?
2	1	Baseline			Flintstone	Wilma		26	Female	Yes
3	1	Visit 1	Concomitant Medications	1						
4	1	Visit 1	Concomitant Medications	2						
5	2	Baseline			Buckeye	Brutus	10/31/1965	52	Male	
6	2	Visit 2	Concomitant Medications	1						
7	3	Baseline			Hamilton	Alexander	1755-01-11	I'm dead	Male	
8	4	Baseline			Burr	Aaron	1756-02-06	262	Male	

Exporting Data To SPSS



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SPSS

Export Options

- Export as CSV file and upload manually
- OR
- Export using SPSS Package
 - Ability to map CSV in SPSS without manual mapping



Exporting "EDC Data"

Select your export settings, which includes the export form

Choose export format

-  CSV / Microsoft Excel (raw data)
-  CSV / Microsoft Excel (labels)
-  **SPSS Statistical Software**
-  SAS Statistical Software
-  R Statistical Software
-  Stata Statistical Software
-  CDISC ODM (XML)

SPSS

Files

- Includes 3 files:
 - Pathway Mapper (.bat file)
 - Special instructions for Mac
 - SPSS File (*.sps file) to open SPSS
 - Data as CSV

✓ **Data export was successful!**

The data export was successful, and your data is now ready to be downloaded. Click the download icon(s) below on the right to download your data file. If exporting to a specific statistical analysis package, you will additionally need to download the syntax file that is provided for that stats package. For more details, follow the instructions in the box below.

Citation Notice

Please cite The Ohio State University Center for Clinical and Translational Science grant support (**National Center for Advancing Translational Sciences, Grant UL1TR001070**) in publications relating to this project.

Please also **cite the REDCap project when publishing manuscripts** (citation information and template methods language are [available here](#)).

SPSS Statistical Software

Download and save all 3 files on the right to a common location. First, double-click on the Pathway Mapper (.bat) file, which will run quickly and invisibly. (If you are not using a Windows operating system, such as Mac or Linux, please see the *Additional Instructions*.) Now double-click on the *.sps file, which will open SPSS. When the file is loaded and displayed, choose Run-->All from the top menu options. This action will launch the script that will automatically read in all data and manipulate data fields with labels, option values, etc. [Additional instructions](#)

Click icon(s) to download:

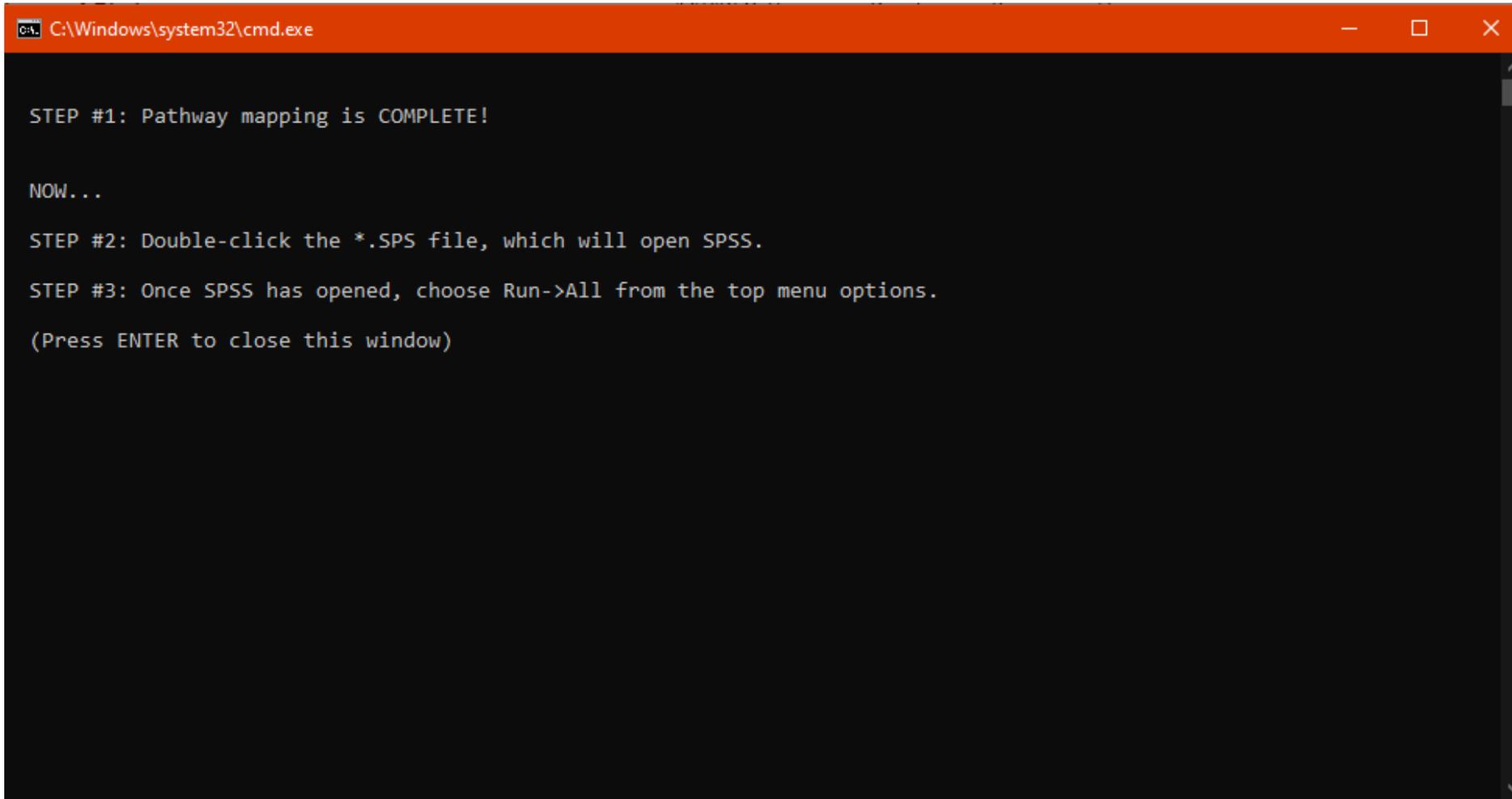


[Send file?](#)

Close

SPSS

Running Pathway Mapper



```
C:\Windows\system32\cmd.exe

STEP #1: Pathway mapping is COMPLETE!

NOW...

STEP #2: Double-click the *.SPS file, which will open SPSS.

STEP #3: Once SPSS has opened, choose Run->All from the top menu options.

(Press ENTER to close this window)
```

SPSS

SPSS File

The image shows two overlapping windows from the IBM SPSS Statistics software. The background window is the 'Data Editor' for 'Untitled1 [DataSet0]', displaying a grid of variables. The foreground window is the 'Syntax Editor' for 'CCTSMonthlyMetrics-EDCData_SPSS_2023-02-13_1253.sps'. The Syntax Editor contains the following code:

```
FILE HANDLE data1 NAME='C:\Users\Lindsay\Downloads\CCTSMonthlyMetrics-EDCData_DATA_NOHDRS_2023-02-13_1253.CSV' LRECL=90000.
DATA LIST FREE
FILE = data1
/grant_year (A1000) redcap_event_name (A500) proj_ext_rc (F8.2) users_ext_rc (F8.2) proj_int_rc (F8.2)
users_int_rc (F8.2) proj_total_rc (F8.2) users_total_rc (F8.2) proj_new_rs_rc (F8.2) proj_new_qi_rc (F8.2)
proj_new_op_rc (F8.2) proj_new_demo_rc (F8.2) proj_new_oth_rc (F8.2) proj_new_total_rc (F8.2) proj_new_covid_rc (F8.2)
proj_new_diy_rc (F8.2) proj_new_copy_rc (F8.2) proj_new_xml_rc (F8.2) proj_new_ffs_rc (F8.2) proj_new_voucher_rc (F8.2)
proj_new_req_consult_rc (F8.2) proj_prod_rc (F8.2) users_new_rc (F8.2) users_guest_rc (F8.2) users_guest_horz (F8.2)
users_guest_train_gear (F8.2) users_guest_other (F8.2) total_guest_req (F8.2) consults_rc (F8) open_ofc_rc (F8)
consults_ooh_covid_yn_rc (F3) consults_ooh_covid (F8.2) proj_new_build_qtx (F3) proj_new_qtx (A1000) qualtrics_trainees (A1000)
users_new_qtx (A1000) users_total_qtx (A1000) patients_i2b2 (F8) user_queries_i2b2 (A1000) comment_edc (A30000)
edc_complete (F3).
VARIABLE LEVEL proj_ext_rc (SCALE)
/users_ext_rc (SCALE)
/proj_int_rc (SCALE)
/users_int_rc (SCALE)
/proj_total_rc (SCALE)
/users_total_rc (SCALE)
/proj_new_rs_rc (SCALE)
/proj_new_qi_rc (SCALE)
/proj_new_op_rc (SCALE)
/proj_new_demo_rc (SCALE)
/proj_new_oth_rc (SCALE)
/proj_new_total_rc (SCALE)
/proj_new_covid_rc (SCALE)
/proj_new_diy_rc (SCALE)
/proj_new_copy_rc (SCALE)
/proj_new_xml_rc (SCALE)
```

SPSS

Run SPSS File

The screenshot displays the IBM SPSS Statistics Data Editor interface. The main window shows a grid of variables and data rows. Overlaid on this is the Syntax Editor window, which contains a list of commands for opening and displaying data. A red arrow points from the top toolbar of the main window to the 'Run' button in the Syntax Editor's toolbar.

Syntax Editor Content:

```
FILE HANDLE data1 NAME=C:\...
DATA LIST FREE
FILE = data1
/grant_year (A1000)
/users_int_rc (F8.2)
/proj_new_op_rc (F8.2)
/proj_new_diy_rc (F8.2)
/proj_new_req_consult_rc (F8.2)
/users_guest_train_gear (F8.2)
/consults_ooh_covid_yn_rc (F3)
/users_new_qtx (A1000)
/users_ext_rc (F8.2)
/users_int_rc (F8.2)
/proj_new_rs_rc (F8.2)
/proj_new_op_rc (F8.2)
/proj_new_demo_rc (F8.2)
/proj_new_oth_rc (F8.2)
/proj_new_total_rc (F8.2)
/proj_new_covid_rc (F8.2)
/proj_new_diy_rc (F8.2)
/proj_new_copy_rc (F8.2)
/users_total_rc (F8.2)
/users_guest_rc (F8.2)
/users_guest_horz (F8.2)
/users_guest_other (F8.2)
/total_guest_req (F8.2)
/consults_rc (F8)
/open_ofc_rc (F8)
/proj_new_build_qtx (F3)
/proj_new_qtx (A1000)
/qualtrics_trainees (A1000)
/patients_i2b2 (F8)
/user_queries_i2b2 (A1000)
/comment_edc (A30000)
/edc_complete (F3)

VARIABLE LEVEL proj_ext_rc (SCALE)
/users_ext_rc (SCALE)
/proj_int_rc (SCALE)
/users_int_rc (SCALE)
/proj_total_rc (SCALE)
/users_total_rc (SCALE)
/proj_new_rs_rc (SCALE)
/proj_new_qi_rc (SCALE)
/proj_new_op_rc (SCALE)
/proj_new_demo_rc (SCALE)
/proj_new_oth_rc (SCALE)
/proj_new_total_rc (SCALE)
/proj_new_covid_rc (SCALE)
/proj_new_diy_rc (SCALE)
/proj_new_copy_rc (SCALE)
```

*Untitled2 [] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 41 of 41 Variables

	grant_year	redcap_event_name	proj_ext_rc	users_ext_rc	proj_int_rc	users_int_rc	proj_total_rc	users_total_rc	proj_nei
1	GY03	grant_year_arm_1	.	.	.	.	.	.	.
2	GY03	may_arm_1	1431.00	2235.00	2069.00	3833.00	3500.00	6068.00	.
3	GY04	grant_year_arm_1	.	.	.	.	.	.	.
4	GY04	june_arm_1	80.00	53.00	.00	.00	80.00	53.00	.
5	GY04	july_arm_1	.	.	.	.	.	.	.
6	GY04	august_arm_1	.	.	.	.	.	.	.
7	GY04	september_arm_1	.	.	.	.	.	.	.
8	GY04	october_arm_1	1532.00	2534.00	2291.00	4205.00	3823.00	6739.00	.
9	GY04	november_arm_1	.	.	.	.	.	.	.
10	GY04	december_arm_1	1587.00	2617.00	2369.00	4330.00	3956.00	6947.00	.
11	GY04	january_arm_1	1624.00	2722.00	2424.00	4411.00	4048.00	7133.00	.
12	GY04	february_arm_1	1871.00	2772.00	2582.00	4457.00	4453.00	7229.00	.
13	GY04	march_arm_1	1909.00	2803.00	2628.00	4511.00	4537.00	7314.00	.
14	GY04	april_arm_1	1923.00	2827.00	2687.00	4582.00	4610.00	7409.00	.
15	GY04	may_arm_1	1941.00	2858.00	2735.00	4654.00	4676.00	7512.00	.
16	GY04	yearly_arm_1	.	.	.	.	.	.	.
17	GY05	grant_year_arm_1	.	.	.	.	.	.	.
18	GY05	june_arm_1	1955.00	2907.00	2784.00	4740.00	4739.00	7647.00	.
19	GY05	july_arm_1	1975.00	2933.00	2812.00	4823.00	4787.00	7756.00	.
20	GY05	august_arm_1	1995.00	2981.00	2887.00	4919.00	4882.00	7900.00	.
21	GY05	september_arm_1	2015.00	3026.00	2960.00	5048.00	4975.00	8074.00	.
22	GY05	october_arm_1	2036.00	3070.00	3009.00	5144.00	5045.00	8214.00	.
23	GY05	november_arm_1	2043.00	3091.00	3054.00	5212.00	5097.00	8303.00	.
24	GY05	december_arm_1	2052.00	3150.00	3116.00	5290.00	5168.00	8440.00	.
25	GY05	january_arm_1	2082.00	3204.00	3178.00	5385.00	5260.00	8589.00	.
26	GY05	yearly_arm_1	.	.	.	.	.	.	.
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode:ON Classic

Exporting Data To R



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R

Export Options

- Export as CSV file and upload manually
- OR
- Export using R Package
 - Ability to map CSV in R without manual mapping

Choose export format

<input type="checkbox"/>		CSV / Microsoft Excel (raw data)
<input type="checkbox"/>		CSV / Microsoft Excel (labels)
<input type="checkbox"/>		SPSS Statistical Software
<input type="checkbox"/>		SAS Statistical Software
<input checked="" type="checkbox"/>		R Statistical Software
<input type="checkbox"/>		Stata Statistical Software
<input type="checkbox"/>		CDISC ODM (XML)

R

Files

- R file
- Data as CSV

✔ **Data export was successful!**

The data export was successful, and your data is now ready to be downloaded. Click the download icon(s) below on the right to download your data file. If exporting to a specific statistical analysis package, you will additionally need to download the syntax file that is provided for that stats package. For more details, follow the instructions in the box below.

Citation Notice

Please cite The Ohio State University Center for Clinical and Translational Science grant support (**National Center for Advancing Translational Sciences, Grant UL1TR001070**) in publications relating to this project.

Please also **cite the REDCap project when publishing manuscripts** (citation information and template methods language are [available here](#)).

 **R Statistical Software**
Instructions: Use command `read.csv('filename')` to read in data file.

Click icon(s) to download:

 [Send file?](#)

R

R File

```
CCTSMonthlyMetrics-EDCData_R_2... x
Source on Save
Run

1 #Clear existing data and graphics
2 rm(list=ls())
3 graphics.off()
4 #Load Hmisc library
5 library(Hmisc)
6 #Read Data
7 data=read.csv('CCTSMonthlyMetrics-EDCData_DATA_2023-02-13_1509.csv')
8 #Setting Labels
9
10 label(data$grant_year)="Grant Year"
11 label(data$redcap_event_name)="Event Name"
12 label(data$proj_ext_rc)="Projects - Multi-Center/External (Gray)"
13 label(data$users_ext_rc)="Users - Multi-Center/External (Gray)"
14 label(data$proj_int_rc)="Projects - Internal (Scarlet)"
15 label(data$users_int_rc)="Users - Internal (Scarlet)"
16 label(data$proj_total_rc)="Total Projects - REDCAP"
17 label(data$users_total_rc)="Total Users - REDCAP"
18 label(data$proj_new_rs_rc)="New projects - RESEARCH"
19 label(data$proj_new_qi_rc)="New projects - QUALITY IMPROVEMENT"
20 label(data$proj_new_op_rc)="New projects - OPERATIONAL SUPPORT"
21 label(data$proj_new_demo_rc)="New projects - DEMO/TRIAL/SANDBOX"
```



R

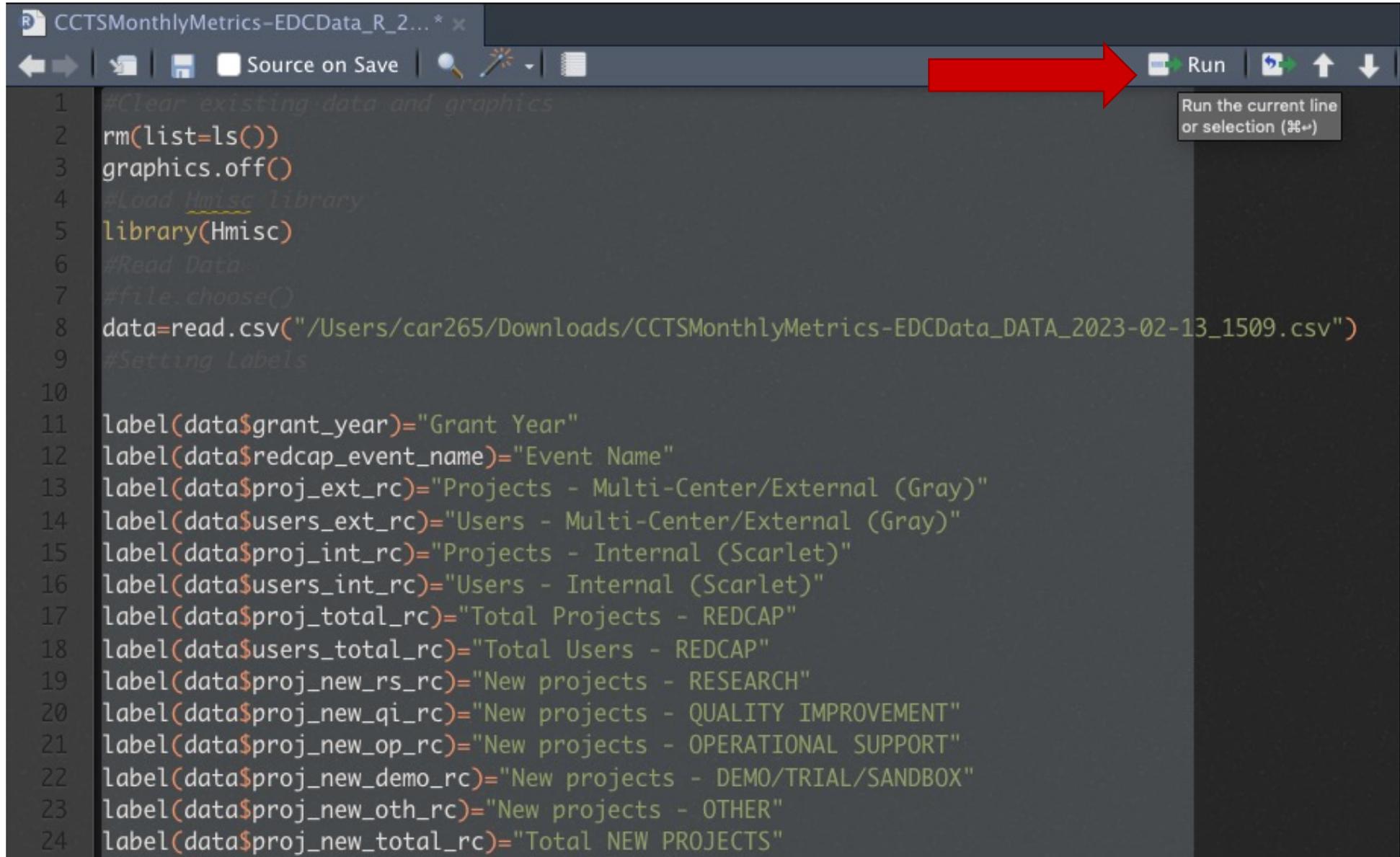
R File

```
CCTSMonthlyMetrics-EDCData_R_2... * x
Source on Save
Run
Source

1 #Clear existing data and graphics
2 rm(list=ls())
3 graphics.off()
4 #Load Hmisc library
5 library(Hmisc)
6 #Read Data
7 file.choose()
8 data=read.csv("/Users/car265/Downloads/CCTSMonthlyMetrics-EDCData_DATA_2023-02-13_1509.csv")
9 #Setting Labels
10
11 label(data$grant_year)="Grant Year"
12 label(data$redcap_event_name)="Event Name"
13 label(data$proj_ext_rc)="Projects - Multi-Center/External (Gray)"
14 label(data$users_ext_rc)="Users - Multi-Center/External (Gray)"
15 label(data$proj_int_rc)="Projects - Internal (Scarlet)"
16 label(data$users_int_rc)="Users - Internal (Scarlet)"
17 label(data$proj_total_rc)="Total Projects - REDCAP"
18 label(data$users_total_rc)="Total Users - REDCAP"
19 label(data$proj_new_rs_rc)="New projects - RESEARCH"
20 label(data$proj_new_qi_rc)="New projects - QUALITY IMPROVEMENT"
21 label(data$proj_new_op_rc)="New projects - OPERATIONAL SUPPORT"
22 label(data$proj_new_demo_rc)="New projects - DEMO/TRIAL/SANDBOX"
```

R

Run R File



```
CCTSMonthlyMetrics-EDCData_R_2... * x
Source on Save
Run
Run the current line or selection (⌘⇧R)

1 #Clear existing data and graphics
2 rm(list=ls())
3 graphics.off()
4 #Load Hmisc library
5 library(Hmisc)
6 #Read Data
7 #file.choose()
8 data=read.csv("/Users/car265/Downloads/CCTSMonthlyMetrics-EDCData_DATA_2023-02-13_1509.csv")
9 #Setting Labels
10
11 label(data$grant_year)="Grant Year"
12 label(data$redcap_event_name)="Event Name"
13 label(data$proj_ext_rc)="Projects - Multi-Center/External (Gray)"
14 label(data$users_ext_rc)="Users - Multi-Center/External (Gray)"
15 label(data$proj_int_rc)="Projects - Internal (Scarlet)"
16 label(data$users_int_rc)="Users - Internal (Scarlet)"
17 label(data$proj_total_rc)="Total Projects - REDCAP"
18 label(data$users_total_rc)="Total Users - REDCAP"
19 label(data$proj_new_rs_rc)="New projects - RESEARCH"
20 label(data$proj_new_qi_rc)="New projects - QUALITY IMPROVEMENT"
21 label(data$proj_new_op_rc)="New projects - OPERATIONAL SUPPORT"
22 label(data$proj_new_demo_rc)="New projects - DEMO/TRIAL/SANDBOX"
23 label(data$proj_new_oth_rc)="New projects - OTHER"
24 label(data$proj_new_total_rc)="Total NEW PROJECTS"
```



	grant_year Grant Year	redcap_event_name Event Name	proj_ext_rc Projects - Multi-Center/External (Gray)	users_ext_rc Users - Multi-Center/External (Gray)	proj_int_rc Projects - Internal (Scarlet)	users_int_rc Users - Internal (Scarlet)
1	GY03	grant_year_arm_1	NA	NA	NA	NA
2	GY03	may_arm_1	1431	2235	2069	3833
3	GY04	grant_year_arm_1	NA	NA	NA	NA
4	GY04	june_arm_1	80	53	0	0
5	GY04	july_arm_1	NA	NA	NA	NA
6	GY04	august_arm_1	NA	NA	NA	NA
7	GY04	september_arm_1	NA	NA	NA	NA
8	GY04	october_arm_1	1532	2534	2291	4205
9	GY04	november_arm_1	NA	NA	NA	NA
10	GY04	december_arm_1	1587	2617	2369	4330
11	GY04	january_arm_1	1624	2722	2424	4411
12	GY04	february_arm_1	1871	2772	2582	4457
13	GY04	march_arm_1	1909	2803	2628	4511
14	GY04	april_arm_1	1923	2827	2687	4582
15	GY04	may_arm_1	1941	2858	2735	4654
16	GY04	yearly_arm_1	NA	NA	NA	NA

Exporting Data To SAS



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SAS

Export Options

- Export as CSV file and upload manually
- OR
- Export using SAS Package
 - Ability to map CSV in SAS without manual mapping

Choose export format

<input type="checkbox"/>		CSV / Microsoft Excel (raw data)
<input type="checkbox"/>		CSV / Microsoft Excel (labels)
<input type="checkbox"/>		SPSS Statistical Software
<input checked="" type="radio"/>		SAS Statistical Software
<input type="checkbox"/>		R Statistical Software
<input type="checkbox"/>		Stata Statistical Software
<input type="checkbox"/>		CDISC ODM (XML)

SAS

Files

- SAS file
- Data as CSV

✓ **Data export was successful!**

The data export was successful, and your data is now ready to be downloaded. Click the download icon(s) below on the right to download your data file. If exporting to a specific statistical analysis package, you will additionally need to download the syntax file that is provided for that stats package. For more details, follow the instructions in the box below.

Citation Notice

Please cite The Ohio State University Center for Clinical and Translational Science grant support (**National Center for Advancing Translational Sciences, Grant UL1TR001070**) in publications relating to this project.

Please also **cite the REDCap project when publishing manuscripts** (citation information and template methods language are [available here](#)).



SAS Statistical Software

Download and save both files on the right to a common location. Double-click the syntax file to open it in SAS. In the syntax editor in SAS, enter the full path of the data CSV file on your computer into the second line of the .sas syntax file. For example, you will need to add something similar to the red text seen below. Your file name and folder path will look different from the example below. Once you have completed these steps, choose Run (or Run-->Submit) from the top menu options in SAS to load the data.

```
%let csv_file = 'MyProject_DATA_NOHDRS.csv';
```

The code above should be changed to something like the following:

```
%let csv_file = '/Users/JoeUser/Documents/MyProject_DATA_NOHDRS.csv';
```

OR

```
%let csv_file = 'C:\Users\JoeUser\Desktop\MyProject_DATA_NOHDRS.csv';
```

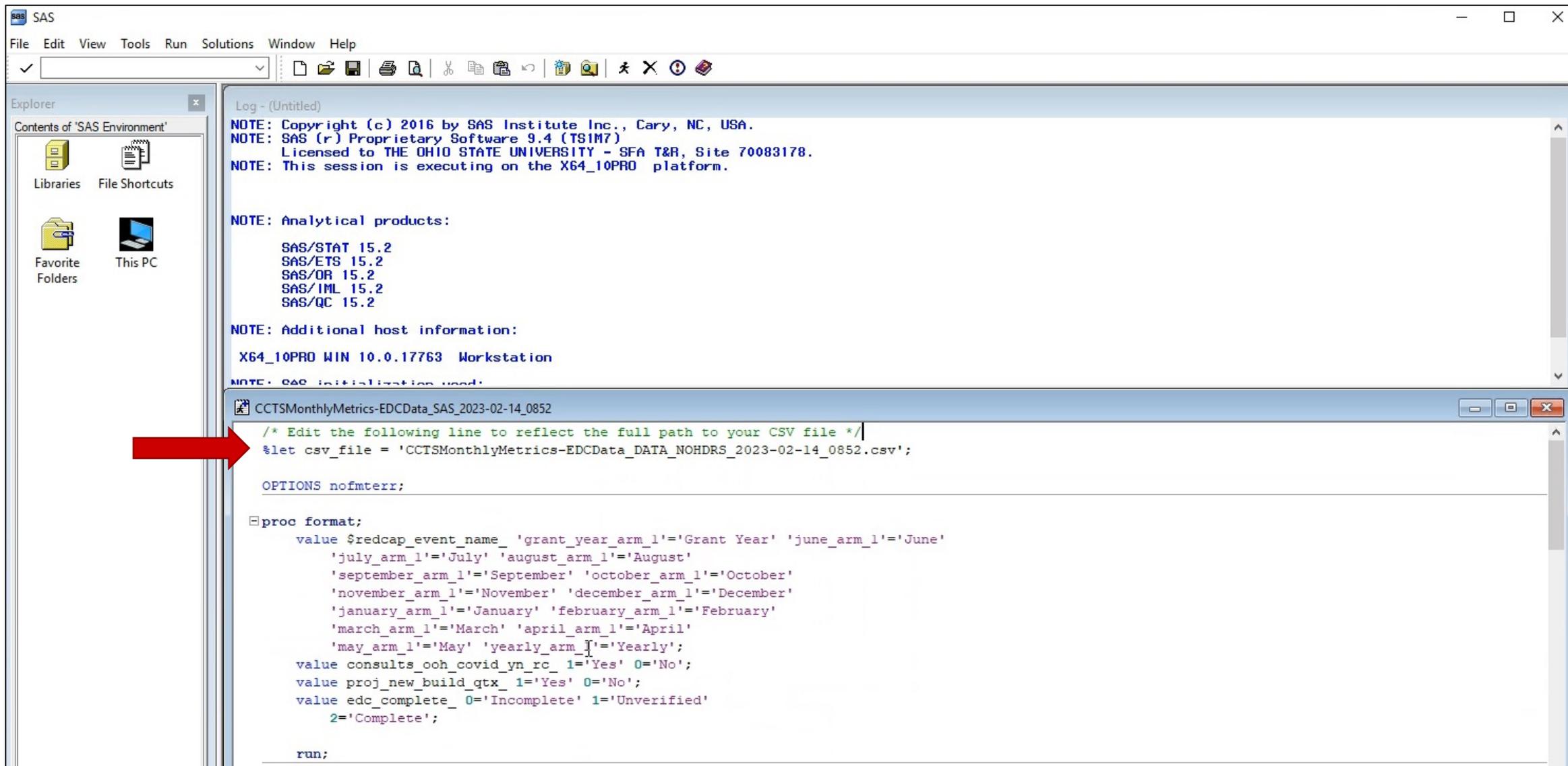
Click icon(s) to download:



Send file?



SAS File



The screenshot displays the SAS software interface. On the left is the Explorer pane showing the 'Contents of SAS Environment' with icons for Libraries, File Shortcuts, Favorite Folders, and This PC. The main area is divided into two panes. The top pane is the Log window, titled 'Log - (Untitled)', which contains the following text:

```
NOTE: Copyright (c) 2016 by SAS Institute Inc., Cary, NC, USA.  
NOTE: SAS (r) Proprietary Software 9.4 (TS1M7)  
       Licensed to THE OHIO STATE UNIVERSITY - SFA T&R, Site 70083178.  
NOTE: This session is executing on the X64_10PRO platform.  
  
NOTE: Analytical products:  
  
      SAS/STAT 15.2  
      SAS/ETS 15.2  
      SAS/OR 15.2  
      SAS/IML 15.2  
      SAS/QC 15.2  
  
NOTE: Additional host information:  
  
      X64_10PRO WIN 10.0.17763 Workstation  
  
NOTE: SAS initialization used:
```

The bottom pane is a code editor window titled 'CCTSMonthlyMetrics-EDCData_SAS_2023-02-14_0852'. It contains SAS code. A red arrow points to the following line of code:

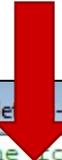
```
/* Edit the following line to reflect the full path to your CSV file */  
%let csv_file = 'CCTSMonthlyMetrics-EDCData_DATA_NOHDRS_2023-02-14_0852.csv';
```

The rest of the code in the editor is as follows:

```
OPTIONS nofmterr;  
  
proc format;  
  value $redcap_event_name_ 'grant_year_arm_1'='Grant Year' 'june_arm_1'='June'  
    'july_arm_1'='July' 'august_arm_1'='August'  
    'september_arm_1'='September' 'october_arm_1'='October'  
    'november_arm_1'='November' 'december_arm_1'='December'  
    'january_arm_1'='January' 'february_arm_1'='February'  
    'march_arm_1'='March' 'april_arm_1'='April'  
    'may_arm_1'='May' 'yearly_arm_1'='Yearly';  
  value consults_ooh_covid_yn_rc_1 'Yes' 0='No';  
  value proj_new_build_qtx_1 'Yes' 0='No';  
  value edc_complete_0 'Incomplete' 1='Unverified'  
    2='Complete';  
  
run;
```

SAS

SAS File



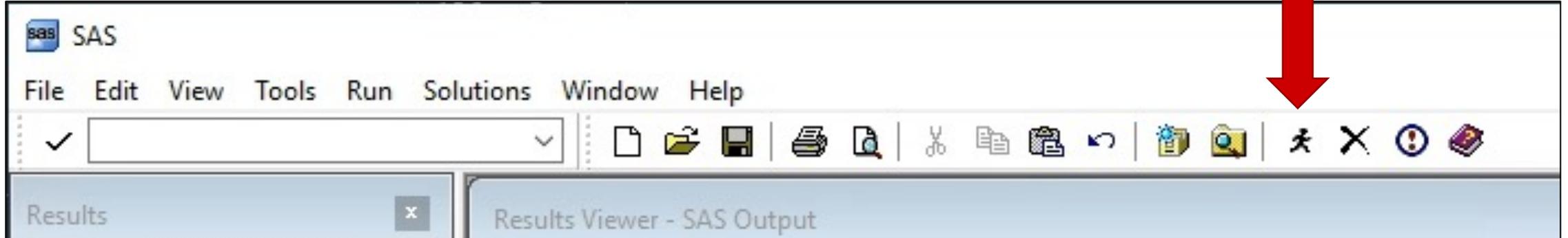
```
CCTSMonthlyMetrics-EDCData_SAS_2023-02-14_0852 *
/* Edit the following line to reflect the full path to your CSV file */
%let csv_file = 'C:\Users\hale75\OneDrive - The Ohio State University Wexner Medical Center\CCTSMonthlyMetrics-EDCData_DATA_NOHDRS_2023-02-14_0852.csv';

OPTIONS nofmterr;

proc format;
  value $redcap_event_name_ 'grant_year_arm_1'='Grant Year' 'june_arm_1'='June'
    'july_arm_1'='July' 'august_arm_1'='August'
    'september_arm_1'='September' 'october_arm_1'='October'
    'november_arm_1'='November' 'december_arm_1'='December'
    'january_arm_1'='January' 'february_arm_1'='February'
    'march_arm_1'='March' 'april_arm_1'='April'
    'may_arm_1'='May' 'yearly_arm_1'='Yearly';
  value consults_ooh_covid_yn_rc_ 1='Yes' 0='No';
  value proj_new_build_qtx_ 1='Yes' 0='No';
  value edc_complete_ 0='Incomplete' 1='Unverified'
    2='Complete';
```

SAS

Run File



Results Viewer - SAS Output

The SAS System

Obs	grant_year	redcap_event_name	proj_ext_rc	users_ext_rc	proj_int_rc	users_int_rc	proj_total_rc	users_total_rc	proj_new_rs_rc	proj_new_qi_rc	proj_new_op_rc	proj_new_demo_rc
1	GY03	Grant Year	.	.	.	.	.	.	.	.	.	.
2	GY03	May	1431	2235	2069	3833	3500	6068	49	2	13	1
3	GY04	Grant Year	.	.	.	.	.	.	.	.	.	.
4	GY04	June	80	53	0	0	80	53	40	4	15	6
5	GY04	July	.	.	.	.	.	.	32	4	11	0
6	GY04	August	.	.	.	.	.	.	56	6	10	3
7	GY04	September	.	.	.	.	.	.	54	5	10	4
8	GY04	October	1532	2534	2291	4205	3823	6739	57	11	24	5
9	GY04	November	.	.	.	.	.	.	31	12	14	7
10	GY04	December	1587	2617	2369	4330	3956	6947	39	4	18	3
11	GY04	January	1624	2722	2424	4411	4048	7133	49	8	16	1
12	GY04	February	1871	2772	2582	4457	4453	7229	57	8	3	9
13	GY04	March	1909	2803	2628	4511	4537	7314	40	11	14	3
14	GY04	April	1923	2827	2687	4582	4610	7409	44	4	13	4
15	GY04	May	1941	2858	2735	4654	4676	7512	57	6	14	2
16	GY04	Yearly	.	.	.	.	.	.	.	.	.	.
17	GY05	Grant Year	.	.	.	.	.	.	.	.	.	.
18	GY05	June	1955	2907	2784	4740	4739	7647	43	8	19	3
19	GY05	July	1975	2933	2812	4823	4787	7756	27	11	14	5
20	GY05	August	1995	2981	2887	4919	4882	7900	61	6	35	9
21	GY05	September	2015	3026	2960	5048	4975	8074	77	13	12	4
22	GY05	October	2036	3070	3009	5144	5045	8214	44	8	19	4
23	GY05	November	2043	3091	3054	5212	5097	8303	38	7	12	3
24	GY05	December	2052	3150	3116	5290	5168	8440	52	4	15	5
25	GY05	January	2082	3204	3178	5385	5260	8589	65	8	30	3
26	GY05	Yearly	.	.	.	.	.	.	.	.	.	.

Exporting Data To Tableau



**THE OHIO STATE
UNIVERSITY**

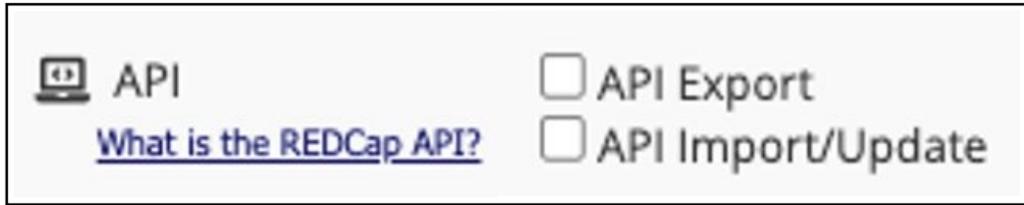
COLLEGE OF MEDICINE

Tableau

API

1. API access controlled by User Rights
2. API option appears under Applications Menu (left side)
3. Request to create token
4. Token created

1

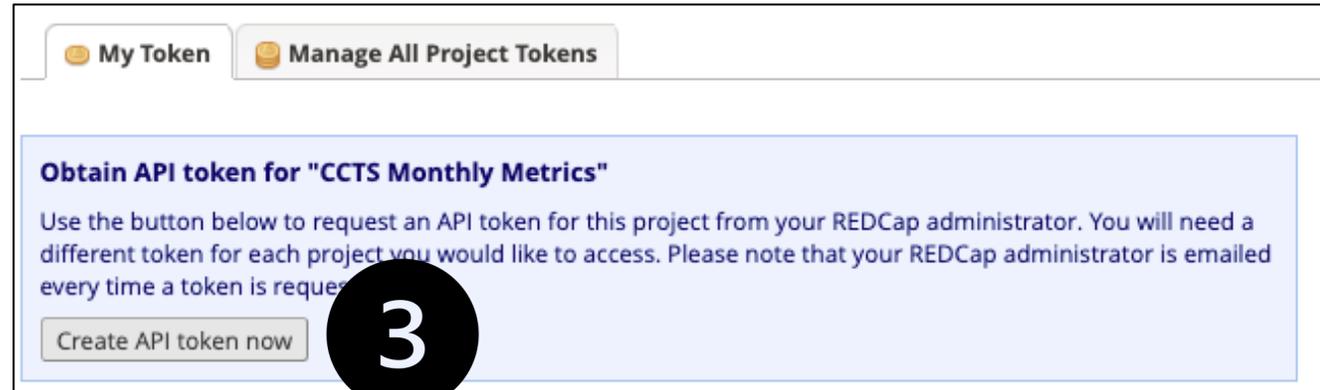


API API Export
[What is the REDCap API?](#) API Import/Update

2



API and API Playground



My Token Manage All Project Tokens

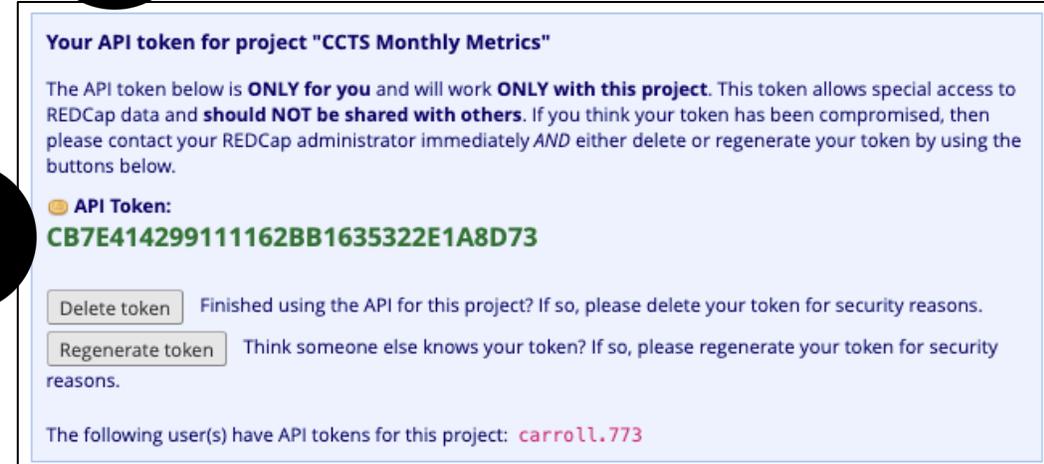
Obtain API token for "CTS Monthly Metrics"

Use the button below to request an API token for this project from your REDCap administrator. You will need a different token for each project you would like to access. Please note that your REDCap administrator is emailed every time a token is requested.

Create API token now

3

4



Your API token for project "CTS Monthly Metrics"

The API token below is **ONLY for you** and will work **ONLY with this project**. This token allows special access to REDCap data and **should NOT be shared with others**. If you think your token has been compromised, then please contact your REDCap administrator immediately **AND** either delete or regenerate your token by using the buttons below.

API Token:
CB7E41429911162BB1635322E1A8D73

Delete token Finished using the API for this project? If so, please delete your token for security reasons.

Regenerate token Think someone else knows your token? If so, please regenerate your token for security reasons.

The following user(s) have API tokens for this project: **carroll.773**

Tableau

"Other Export Options"

Tableau Export: Extract all records into Tableau via the REDCap API

This feature enables Tableau (v10.0+) users to connect Tableau to a REDCap project using an API token. Project data can be exported on demand and be available for use within Tableau to produce summaries and visualizations. Click the button to the right and follow the instructions to export your data into Tableau.

NOTICE: It is required to have an API token generated for the project in order to use this feature.

Why Tableau?

Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data in a very easily understandable format. Tableau helps create the data that can be understood by professionals at any level in an organization.

Tableau is a visual analytics engine that makes it easier to create interactive visual analytics in the form of dashboards. These dashboards make it easier for non-technical analysts and end users to convert data into understandable, interactive graphics.

[View export instructions](#)

Tableau

Instructions

Tableau Connector Instructions

A REDCap user with an API token can have data from their REDCap project downloaded to their **Tableau Desktop instance (v10.0+)**. Please follow the below steps to download data via the Tableau Web Data Connector.

Instructions

1. In Tableau 10.0+, go to Connect -> To a Server -> More and find "Web Data Connector"
2. Copy the URL below as the "web data connector URL" in the dialog, and press Enter:

<https://redcap.bmi.osumc.edu/redcap/api/?content=ta>

 Copy to clipboard

3. In Tableau, enter your project API token into the text box and select/enter other options, as desired.

Options available for customizing the extract are:

- Raw data or labels
- Include Data Access Group yes/no
- Subset of fields: specify a comma or space-separated list export field names
- Subset of records: specify a REDCap filter logic expression

4. Click "Submit", and your project data will be downloaded into Tableau.

(The web data connector will be executed and create a Tableau Data Source in your Tableau workbook.)

5. Click "Update Now" to extract your project data into the Data Source.



Tableau

Instructions

Step 1

Connect

Search for Data

Tableau Server

To a File

Microsoft Excel

Text file

JSON file

PDF file

Spatial file

Statistical file

More...

To a Server

Microsoft SQL Server

MySQL

Oracle

Amazon Redshift

More... >

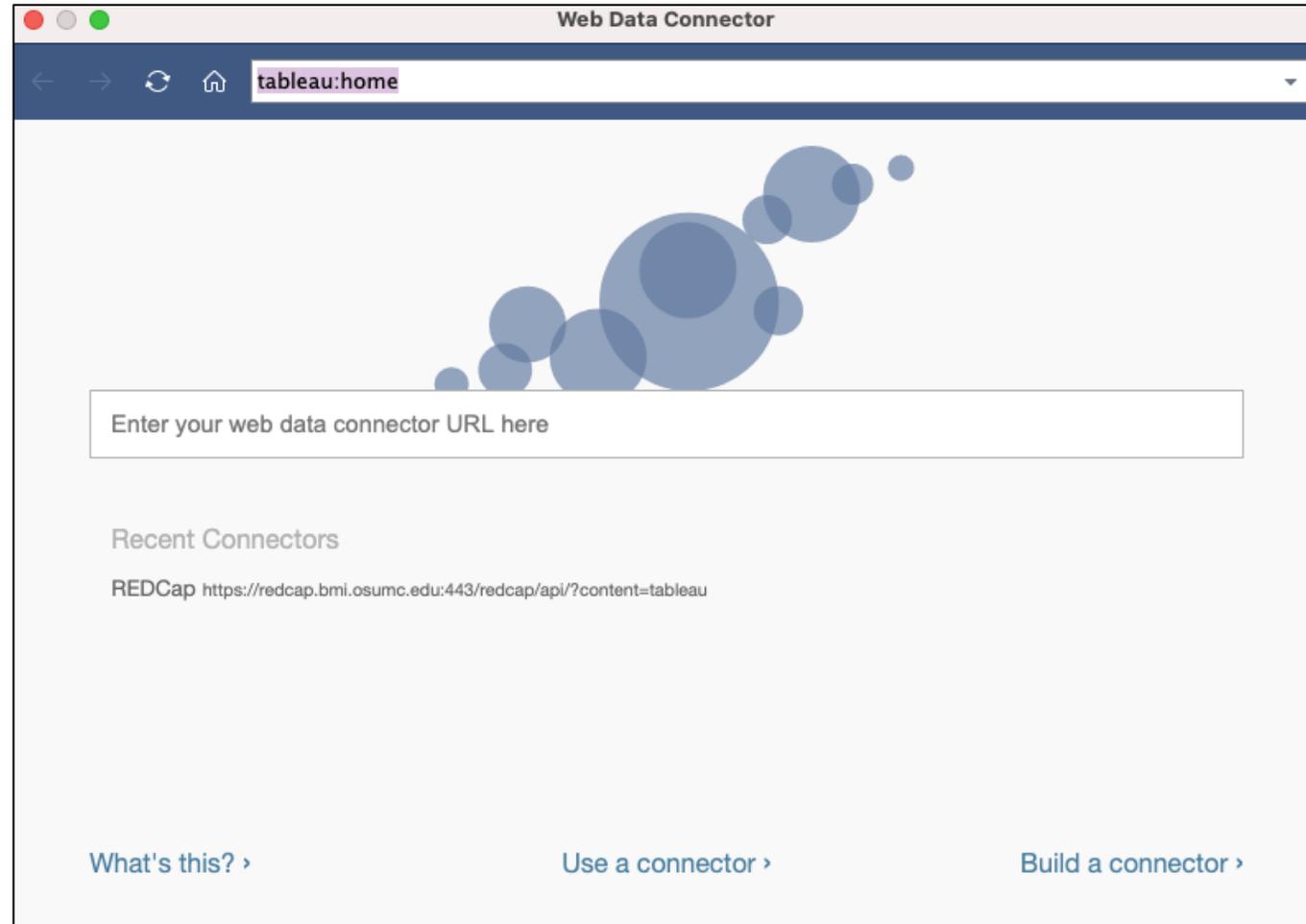
Saved Data Sources

Sample - Superstore

World Indicators

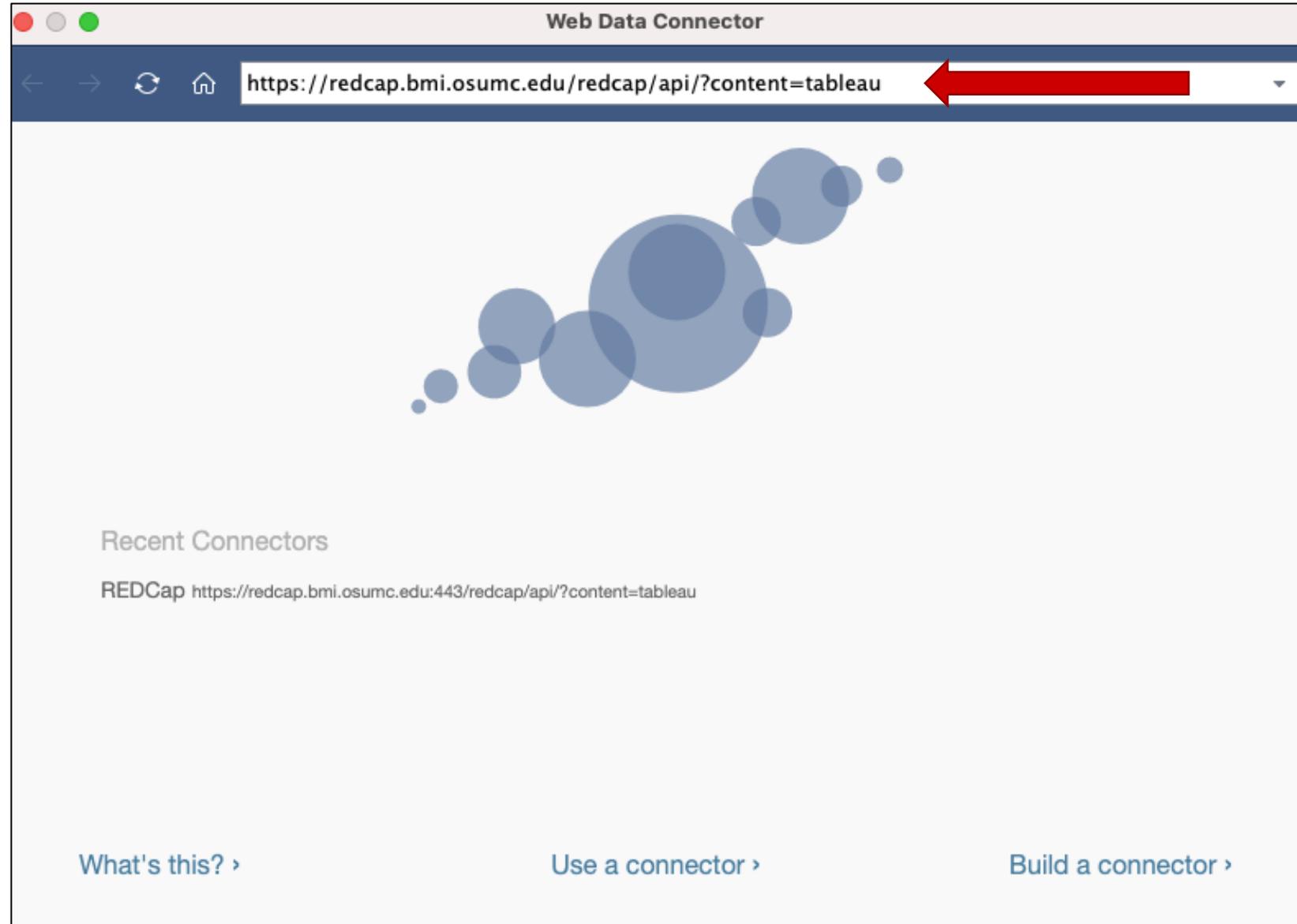


Web Data Connector



Tableau

Instructions Step 2



Tableau

Instructions Step 3 & 4

- Enter project API token into the text box
- ***Options available for customizing the extract are:***
 - Raw data or labels
 - Include Data Access Group yes/no
 - Subset of fields: specify a comma or space-separated list export field names
 - Subset of records: specify a REDCap filter logic expression

API Token
CB7E414299111162BB1635322E1A8D73
Raw data or labels?
<input checked="" type="radio"/> Raw <input type="radio"/> Label
Variable name or field label?
<input checked="" type="radio"/> Variable <input type="radio"/> Label
Include Data Access Group?
<input type="radio"/> Yes <input checked="" type="radio"/> No
Export field names (optional)
Comma or space-separated list of export field names
Record filter (optional)
REDCap-style filter logic expression
 <input type="button" value="Submit"/>

Tableau

Instructions Step 5

REDCap Data

Connections [Add](#)

- REDCap Data
Web Data

Table [New Table Extension](#)

- CCTS Monthly Metrics

Connection: Live Extract | [Edit](#) | [Refresh](#)
Extract Required.

Need more data?
Drag tables here to relate them. [Learn more](#)

CCTS Monthly Metrics

Name	Abc	Abc	CCTS Monthly Metrics	Abc	Abc	Abc	Abc	Abc	Abc
CCTS Monthly Metrics	Grant Year	Redcap Event Name	Gy Start Date	Cal Year	Edc Manager	Dsec Manager	Rise Manager	Ride Manager	Rued Manager

Fields

Type	Field Name	Physical Table	Rem...
Abc	Grant Year	CCTS Monthly...	grant_...
Abc	Redcap Event Name	CCTS Monthly...	redca...
📅	Gy Start Date	CCTS Monthly...	gy_sta...
Abc	Cal Year	CCTS Monthly...	cal_year
Abc	Edc Manager	CCTS Monthly...	edc_...
Abc	Dsec Manager	CCTS Monthly...	dsec_...
Abc	Rise Manager	CCTS Monthly...	rise_...
Abc	Ride Manager	CCTS Monthly...	ride_...
Abc	Rued Manager	CCTS Monthly...	rue_...
Abc	Time Period Complete	CCTS Monthly...	time_...
#	Proj Ext Rc	CCTS Monthly...	proj_e...
#	Users Ext Rc	CCTS Monthly...	users_...
#	Proj Int Rc	CCTS Monthly...	proi_...

Update Now

Update Automatically

Go to Worksheet

Data Source | Sheet 1

Tableau

REDCap Data

Connections: REDCap Data (Web Data)

Table: CCTS Monthly Metrics

Need more data? Drag tables here to relate them. [Learn more](#)

CCTS Monthly Metrics | 162 fields 26 rows | 26 rows

Name	Grant Year	Redcap Event Name	Gy Start Date	Cal Year	Edc Manager	Dsec Manager	Rise Manager
CCTS Monthly Metrics	GY03	grant_year_arm_1	6/1/2020	2021	heather.lansky@osumc.edu	null	null
	GY03	may_arm_1	null	null	null	null	null
	GY04	grant_year_arm_1	6/1/2021	2021	amanda.carroll2@osumc.edu	Aeryn.AmyotSmyth@osumc....	Puneet.Mathur@osi
	GY04	june_arm_1	null	null	null	null	null
	GY04	july_arm_1	null	null	null	null	null
	GY04	august_arm_1	null	null	null	null	null
	GY04	september_arm_1	null	null	null	null	null
	GY04	october_arm_1	null	null	null	null	null
	GY04	november_arm_1	null	null	null	null	null
	GY04	december_arm_1	null	null	null	null	null
	GY04	january_arm_1	null	null	null	null	null
	GY04	february_arm_1	null	null	null	null	null
	GY04	march_arm_1	null	null	null	null	null
	GY04	april_arm_1	null	null	null	null	null
	GY04	may_arm_1	null	null	null	null	null
	GY04	yearly_arm_1	null	null	null	null	null
	GY05	grant_year_arm_1	6/1/2022	2022	amanda.carroll2@osumc.edu	colin.odden@osumc.edu	Puneet.Mathur@osi
	GY05	june_arm_1	null	null	null	null	null
	GY05	july_arm_1	null	null	null	null	null
	GY05	august_arm_1	null	null	null	null	null
	GY05	september_arm_1	null	null	null	null	null

Fields:

Type	Field Name	Physical Table	Rem...
Abc	Grant Year	CCTS Monthly...	grant_...
Abc	Redcap Event Name	CCTS Monthly...	redca...
📅	Gy Start Date	CCTS Monthly...	gy_sta...
Abc	Cal Year	CCTS Monthly...	cal_year
Abc	Edc Manager	CCTS Monthly...	edc_...
Abc	Dsec Manager	CCTS Monthly...	dsec_...
Abc	Rise Manager	CCTS Monthly...	rise_...
Abc	Ride Manager	CCTS Monthly...	ride_...
Abc	Rued Manager	CCTS Monthly...	rue_d_...
Abc	Time Period Complete	CCTS Monthly...	time_...
#	Proj Ext Rc	CCTS Monthly...	proj_e...
#	Users Ext Rc	CCTS Monthly...	users_...
#	Proj Int Rc	CCTS Monthly...	proj_i...
#	Users Int Rc	CCTS Monthly...	users_...
#	Proj Total Rc	CCTS Monthly...	proj_t...
#	Users Total Rc	CCTS Monthly...	users_...
#	Proj New Rs Rc	CCTS Monthly...	proj_n...

Go to Worksheet

Data Source: Sheet 1

Announcements

<https://u.osu.edu/redcap/redcap-training-schedule/>

- Grand Rounds Topics Request
 - https://go.osu.edu/grandrounds_topics
- Next REDCap Grand Rounds: Topic will be announced Friday!
 - Tuesday, March 14 @ 11am
 - Registration will open soon on website
- Next REDCap Training: Design 1
 - Wednesday, February 22 @ 12pm
 - Registration open on website

Questions?

CCTS-Informatics@osumc.edu

