

SCHARE Tutorial Think-a-Thons



SCHARE Data Ex

Health Outcome Research Paradigm Shift: Understanding How Big Data Expands Knowledge

April 16, 2025

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Experience poll

Please check your level of experience with the following:

	None	Some	Proficient	Expert
Python				
R				
Cloud computing				
Terra				
Health disparities research				
Health outcomes research				

Interest poll

I am interested in (check all that apply):

□ Learning about Health Disparities and Health Outcomes research to apply my data science skills

□ Conducting my own research using AI/cloud computing and publishing papers

□ Connecting with new collaborators to conduct research using Al/cloud computing and publish papers

Learning to use AI tools and cloud computing to gain new skills for research using Big Data

□ Learning cloud computing resources to implement my own cloud

Developing ethical AI strategies

 \Box Other

What is SCHARE?

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Science Collaborative for Health disparities and Artificial intelligence Reduction of Errors



Register: nimhd.nih.gov/schare

SCHARE is a cloud-based population science data platform designed to accelerate research population health research, including chronic diseases, health disparities & health outcomes by utilizing transparent artificial intelligence (AI) approaches with a focus on the reduction of errors in the use and reuse of models designed to accelerate innovative research that includes place-based factors and biologics for whole-person health discoveries.

SCHARE aims to fill five critical gaps:

- Leverage population science, place-based, and behavioral Big Data and cloud computing tools to foster a paradigm shift in health disparity and healthcare delivery outcomes research to generate innovative whole-person health discoveries
- Advance use of transparency and sophisticated inquiry to develop innovative strategies and differing perspectives to reproducibility and to reduce AI errors
- Upskill novice untrained users in data science through cloud computing skills training, cross-discipline mentoring, and multi-career level collaborating on research
- Provide a data science cloud computing resource and data center for community colleges, and low resource institutions and organizations
- Offer a project data repository centered on core common data elements for enhanced data interoperability and compliance with NIH Data Management and Sharing Policy



Google Platform Terra Interface

- Secure workspaces
- Data storage
- Computational resources
- Tutorials (how to)
- Copy-and-paste code in Python and R
- Learning Terra on SCHARE prepares you to use other NIH platforms

PREPARING FOR AI RESEARCH AND HEALTHCARE USING BIG DATA

Mapping across cloud platforms with Terra interface for collaborative research





Terra recommends using **Chrome** Must have a **Gmail** friendly account

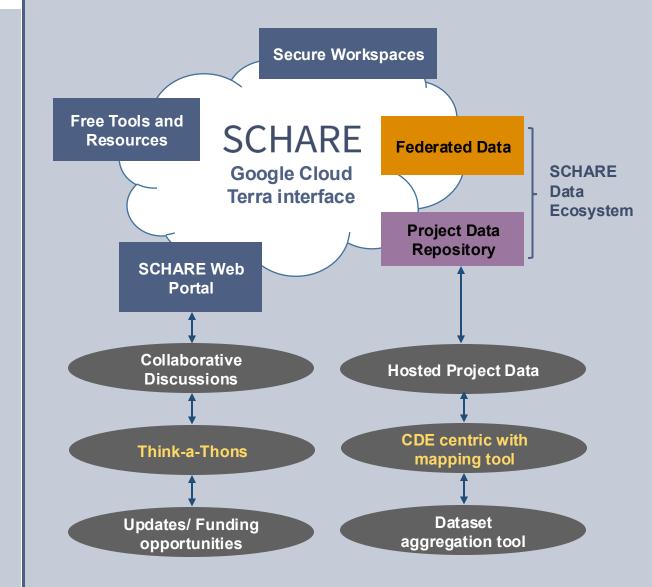
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SCHARE Components

SCHARE co-localizes within the cloud:

- 1. Datasets relevant to health disparities, health care delivery, and health outcomes research, including social determinants of health and other social science behavioral data
- 2. A project data repository for NIH-funded projects centered on Core Common Data Elements for enhanced data interoperability and compliance with NIH Data Management and Sharing policy
- 3. Secure, collaborative workspaces and for researchers and relevant collaborators
- 4. Computational capabilities for collaboratively evaluating designing and assessing fit-forpurpose utilization of datasets and algorithms to generate AI models that are effective and efficient



SCHARE Terra Platform

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OF KNOWLEDGE GENERATION FOR POPULATION HEALTH



National/Federated Datasets

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SCHARE Ecosystem structure

Researchers can access, link, analyze, and export a wealth of SDoH and population science related datasets within and across platforms relevant to research about health disparities, health care delivery, and health outcomes, including:

300+ FEDERATED PUBLIC DATASETS	Public datasets	Publicly accessible, federated, de-identified datas or hosted by Google through the Google Cloud P Examples: Behavioral Risk Factor Surveillar American Community Survey (AC	ublic Dataset Program
	Project datasets	Publicly accessible and controlled-access, funded datasets using <u>Common Data Elements</u> shared b intramural investigators to comply with the NIH D	y NIH grantees and
REPOSITORY		Examples : Forthcoming datasets such as the Jackson Heart Study (JHS)	Innovative Approach: CDE Concept Codes Uniform Resource Identifier (URI)

SCHARE Ecosystem

Datasets are categorized by content based on the CDC **Social Determinants of Health categories**:

- 1. Economic Stability
- 2. Education Access and Quality
- 3. Health Care Access and Quality
- 4. Neighborhood and Built Environment
- 5. Social and Community Context

with the addition of:

- Health Behaviors
- Diseases and Conditions

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_				CurrentPopulationSurvey_FoodSecuritySupplement_2011	0.184
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DiseaseAndConditions (27)	()			CurrentPopulationSurvey_FoodSecuritySupplement_2013	0.184
EconomicStability (62)	(CurrentPopulationSurvey_FoodSecuritySupplement_2014	0.188
EducationAccessAndQuality (54)	()			AHS_National_Household_2015	0.491
HealthBehaviors (17)	()			AHS_National_Mortage_2015	0.002
HealthCareAccessAndQuality (36)	()			AHS_National_Person_2015	0.057
MultipleCategories (38)	(AHS_National_Project_2015	0.004
NeighborhoodAndBuiltEnvironment (11)	(CurrentPopulationSurvey_FoodSecuritySupplement_2015	
SocialAndCommunityContext (8)	(i)				

SCHARE Ecosystem: Public datasets

Examples of interesting datasets include:

- American Community Survey (U.S. Census Bureau)
- US Census Data (U.S. Census Bureau)
- Area Deprivation Index (BroadStreet)
- **GDP and Income by County** (Bureau of Economic Analysis)
- US Inflation and Unemployment (U.S. Bureau of Labor Statistics)
- U.S. Chronic Disease Indicators (U.S. Census Bureau)
- Point-in-Time Homelessness Count (U.S. Dept. of Housing and Urban Development)
- National Mental Health (SAMHSA)
- US Residential Real Estate Data (House Canary)
- Center for Medicare and Medicaid Services Dual Enrollment (U.S. Dept. of Health & Human Services)
- National Mental Health (SAMHSA)
- Health Professional Shortage Areas (U.S. Dept. of Health & Human Services)
- CDC Births Data Summary (Centers for Disease Control)
- BRFSS Behavioral Risk Factors
- Community Resilience Estimates: Community resilience estimates calculated by modeling individual and household characteristics
- Adult Indicators for Oral Health (NOHSS)
- Alzheimer's Disease and Health Aging Data (NIH)



Data Analytic and AI Tools

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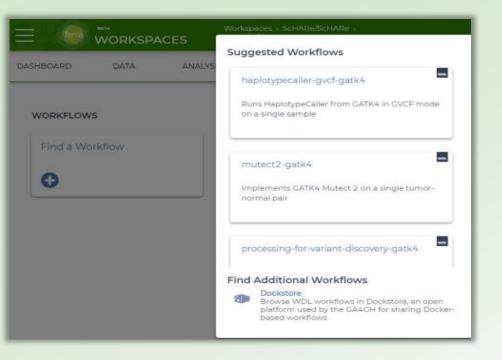
SCHARE Terra interface: Analyses (Notebooks)

Notebooks for analytics and tutorials

	WORKSP	Workspaces > ScHARe/ScHARe > ACES Analyses	
ASHBOARD	DATA	ANALYSES WORKFLOWS JOB HISTORY	
Your Ana	lyses	+ START	
Applicatio	n	Name 🖡	
Jupyter Ju	pyter	00_List of Datasets Available on ScHARe.ipynb	
jupyter Ju	pyter	01_Introduction to Terra Cloud Environment.ipynb	
jupyter Ju	pyter	02_Introduction to Terra Jupyter Notebooks.jpynb	
Jupyter Ju	pyter	03_R Environment setup.ipynb	
Jupyter Ju	pyter	04_Python 3 Environment setup.ipynb	
Jupyter Ju	pyter	05_How to access plot and save data from public BigQuery datasets using R.ipynb	
jupyter Ju	pyter	06_How to access plot and save data from public BigQuery datasets using Python 3.ip	oynb

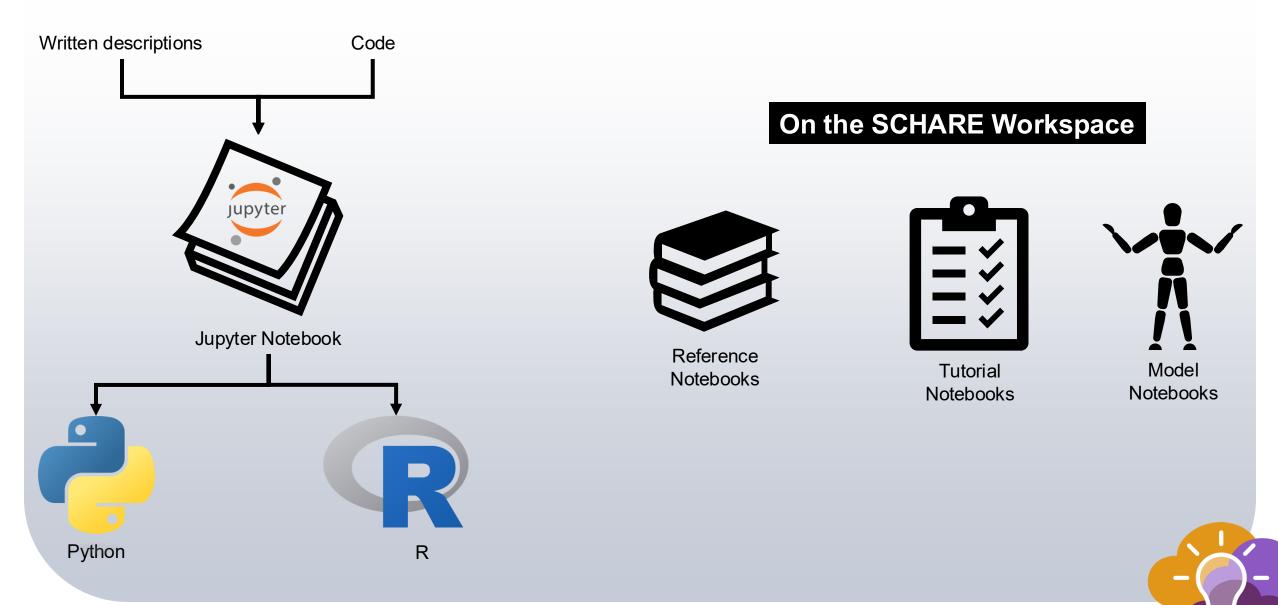
Modular codes

Easy-to-use copy and paste analytics



Modular codes developed for reuse

SCHARE Data Analytic Tools



SCHARE Model Notebooks under Analysis Tab



Python code model notebooks (SCHARE Workspace -> Analyses -> Section B)

b. 00_Introduction to Python.ipynb



"Table of Contents"

Describes the purpose of all other notebooks in this section

b. 01_Python 3 Environment setup.ipynb



Describes what a python environment is and copy & paste code to set yours up

b. 03_How to access plot and save data from ScHARe hosted datasets using Python 3.ipynb



Copy & paste code for accessing datasets hosted on the SCHARE workspace b. 02_How to access plot and save data from public BigQuery datasets using Python 3.ipynb



Copy & paste code for accessing datasets hosted by Google BigQuery

b. 04_How to upload access plot and save data stored locally using Python 3.ipynb

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Copy & paste code for accessing data on your local computer



Secure Workspaces for Single and Collaborative Research

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SCHARETerra interface: secure workspace

orkspaces 🔂		Share Workspace		
		User email		
dicated spaces for you and your collaborators to acce	ss and analyze data	Add people or group	S	ADD
Recently Viewed		Current Collaborators		
ScHARe	ScHARe Thin	calzonil2@nih.gov		
/iewed Apr 14, 2023, 11:58 AM	Viewed Apr 10,	Owner	 ✓ Can share ✓ Can compute 	
earch by keyword	gs	ScHARe-Contractors@fir	recloud.org	
IV WORKSPACES (42) NEW AND INTERESTING (Writer	Can share	×
		ScHARe-Read-Only-Acce	ess@firecloud.org	
Name		Reader	Can share	×
ScHARe			can compute	

- Secure workspace for self or collaborative research
- Assign roles: owner, writer, reader
- Host own data and code



Data Repository

NIH Data Management and Sharing Policy

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The Four Data Lifecycle Stages

The SDR is here to support your research and your data throughout all stages of the data lifecycle. Our touchpoints can be contextualized by thinking about your data in these four stages.



Dawn

Dataset Creation

Researchers can choose to store their data themselves, uploading it upon study completion, or use the SDR as a storage interface.

Midday

Dataset Submission

Researchers submit their data for public sharing on the SDR, creating a controlled-access version if the dataset contains sensitive information.



Golden Hour

Dataset Access

Researchers use the public version of datasets on the SDR, or request access to controlled-access data, for secondary studies.



Sunset

Dataset Archival

Once the dataset meets the archival requirements, the dataset collection is removed from the SDR, and the underlying data is archived.

Key Features of the SCHARE Data Repository

Upload your own data

Store collected data and annotate with a data dictionary. Align data to the ScHARe CDEs.

Harmonize data to CDEs

Map uploaded data to CDEs. Join your data with project or federated data via CDEs.

Browse for data

Find relevant federated national datasets or other project data. Manipulate and aggregate data for analysis

Filter, sort, and select subsets for specific purposes. Link and aggregate datasets.

Control privacy levels and data sharing

Share confidential data among colleagues. Share public access data with the research community.

Data Analysis via SCHARE Terra or local analysis platform

CDE benefits:

- Faster start-up for project
- Better data aggregation across projects
- Shared meaning
- Concept-focused to allow questions/answers variations
- Coding enables an URI approach for better data interoperability

A Common Data Element (CDE) is a standardized, precisely defined question, paired with a set of allowable responses, used systematically across different sites, studies, or clinical trials to ensure consistent data collection

Because Researchers use CDEs...

they can more quickly share data and get results faster, which ultimately can help make a **meaningful difference to our nation's health**.



For more information about how CDEs accelerate research discoveries, visit: cde.nlm.nih.gov/resources

SCHARE CDEs Human & Machine Readable

"mish unit of

animal

measure or

Semantically Defined: (Human Readable)

Each are semantically defined by a standardized coding system for shared meaning

Use of international/national coding systems – LOINC, UMLS, SemNet, FHIR, NCIt

Colon: sentence

Punctuation or

biological organ?

Alcohol:

disinfecting

or drinking?

Coded (Machine Readable) : Use URI approach of associated codes that can be mapped across coding systems to create data interoperability

Pipes to separate data points (i.e. flower plant succulent grass tree)





SCHARECore CDEs Phenx Toolkit

- Age
- Birthplace
- Zip Code
- Race and Ethnicity
- Sex at Birth
- Marital Status
- Education
- Annual Household Income
- Household Size

- English Proficiency
- Disabilities
- Health Insurance
- Employment Status
- Usual Place of Health Care
- Financial Security / Social Needs
- Self-Reported Health
- Health Conditions (and Associated Medications/Treatments)
- NIMHD Framework*
- Health Disparity Outcomes*

* Project Level CDEs



SCHARE has developed **Common Data Elements** to ensure consistent data collection across studies, facilitate interoperability, and link data from different sources

NIH CDE Repository: <u>cde.nlm.nih.gov/home</u> PhenX Toolkit: <u>www.nimhd.nih.gov/resources/phenx/</u>

NIH Endorsed

SCHARE SDR Collections & Associations

Collections

- Each project establishes its COLLECTION:
- Own data (ongoing or final)
- Single or collaborative
- Data Documentation
- Privacy controls
- CDE mapping
- Metadata

Data Submission can be ongoing or at end of project.

- Can provide resource as a data center (ongoing)
- Fulfills Data Management and Sharing Policy (final)

Associations

- ASSOCIATIONS comprised of multiple COLLECTIONs:
 - Creates parent collection
 - Own data (ongoing or final)
 - Single or collaborative
 - Data Documentation
 - Privacy controls
 - CDE mapping
 - o Metadata
- Adds Collections to the Association

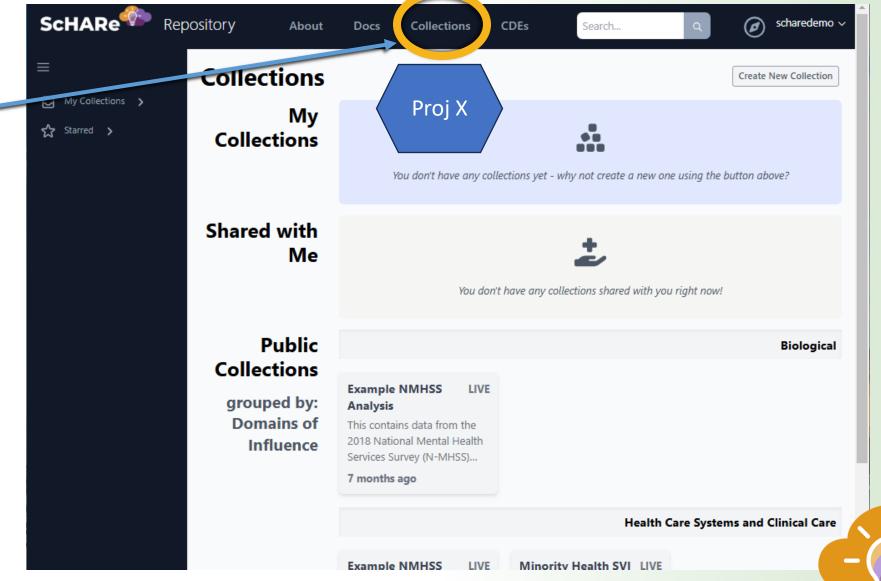


Project Data

Collections are a place where you can describe and store your data and any related metadata and federated data.

Can be shared with colleagues

Privacy controls & published when you're ready.



() Rocent >	schare.demo2 / Test Collection 3/17/2025 / LIVE	19 S & Operations -	
Wy Collections			
☆ Starred >	Test Collection 3/17/2025 Abstract	Access Level ()	
	This is a sample abstract designed to test the formatting and layout. It includes various elements like headings, subheadings, and text in order to evaluate the readability and structure of the document. The content itself is a placeholder and does not carry any specific meaning but serves as a tool for previewing how text will appear in the final layout. It helps assess how the document handles large amounts of text, ensuring that the design is both functional and visually appealing. The goal is to test the overall presentation before the real content is added.	Analysis Readiness	Data Access &
	Research Areas • Health Dispanity Outcomes Research Focuses • Higher incidence and/or prevalence of disease, including earlier anset or more aggressive progression of disease	8 / 17 CDEs assigned	Data
	Levels of Influence Individual Domains of Influence Hesith Care Systems and Clinical Care Links and Documents	Tags # Topics tagged in this collection	Interoperability
	> Data Items	Age (Adolescents	

By default, all collections start out as **Private**.

Access Levels and Sharing Data

The access level of a collection defines the maximum permissions that can be used to share it with others. You have control over how your data is shared on the ScHARe Data Repository.

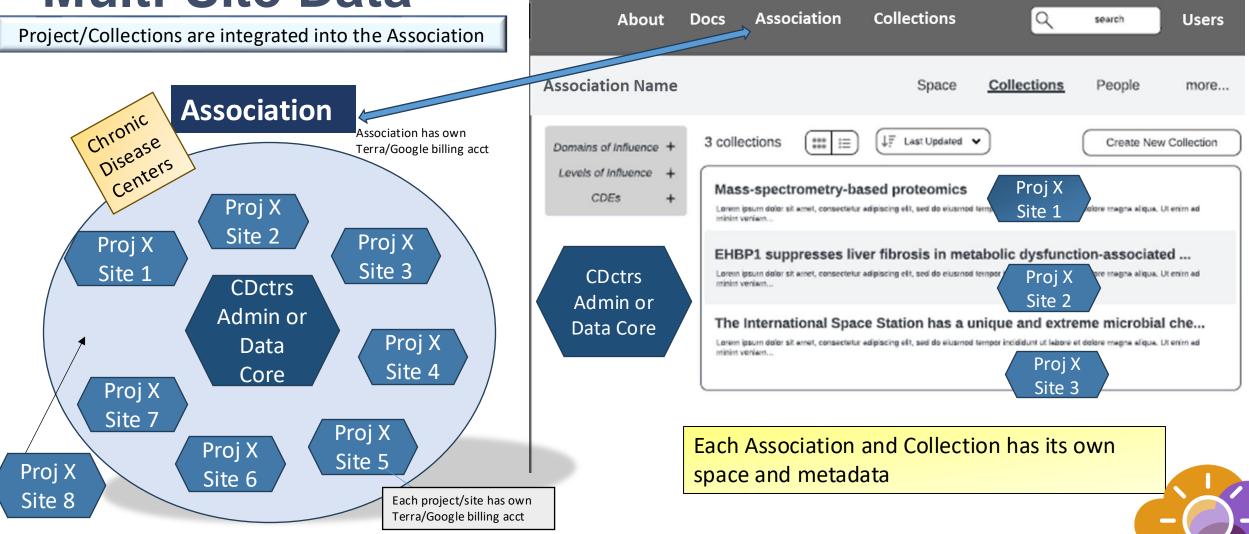
ID	ROLE	
🛓 Karl Gutwin (karl9152)	ADMIN	Ť.
his collection's access level is currently set to Priva		Make Confidential
share this collection with others, you must first set		

By default, all collections start out as **Private**.

- **Private**: Only the collection's owner can access
- Confidential: The collection can be shared with named users
- Controlled: The collection can be shared with members of a controlled access group, as well as named users
- Public: The collection can be read by any user, including those not logged in; it can also be shared with named users



SCHARE Data Repository Multi-Site Data



ScHA

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Data Aggregation Tool

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= Birthplace - Outside US = Race/Ethnicity Self-Identification	n					

PUBLICLY AVAILABLE SPRING 2025

SCHARE AI Tools

Authenticate

Coming soon!

Gemini Assistant

Use Gemini Assistant to launch a simple Q&A chat window to get assistance with writing your data analysis code. The chat interface is powered by

the Gemini model and is designed to answer questions related to assisting novice coders with writing analysis code. Type your question in the box

and click the Generate button to call the model and generate an output.

Note: while the data you send through this tool and data sent back are protected under Terra's Enterprise Google Cloud permissions, and are not reused by Google for future model training, we advise not sending any sensitive information (e.g. PII or PHI) through the model. Sticking to general

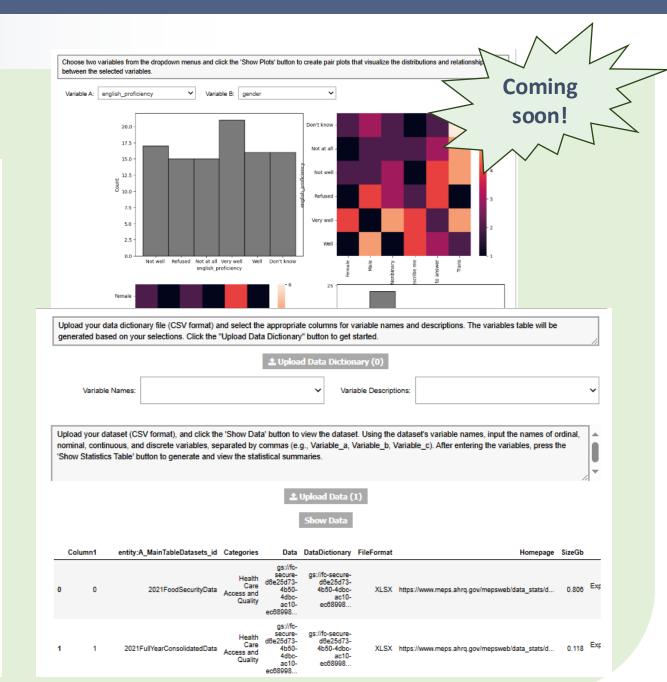
questions or inserting dummy variable names to your questions are good practices to ensure the privacy of your data.

s-central1
ype your coding question here

SCHARE AI Tools

User friendly metadata, data and model documentation tools

nmary.	f description or abstract in the provided text boxes. Once done, press the 'Save' button to generate the dataset facts
Project Title:	
Project Description:	
	Save
in the metadata fields with the "Save" button to save and d	e relevant information about your dataset, such as filename, format, URL, and domain. After completing the fields, clic isplay the metadata table.
Filename:	
Format:	
URL:	
Domain:	
Keywords:	
Туре:	
Geography:	
a Collection Method:	
Time Method:	



SCHARE PySCHARE Python Package

PySCHARE package to search datasets and variables, subset, save, and visualize datasets

DataVisual()

Use the dropdown menus to select a dataset and configure your plot parameters.

- Bar, count, box, boxen, strip, swarm, and violin plots typically require a categorical variable on the X-axis (or hue) and a numeric variable on the Y-axis; see the categorical tutorial for details.
- · Scatter and line plots call for numeric variables on both axes (e.g., time vs. measurement); refer to the relational tutorial.
- · Histograms typically need a single numeric variable on the X-axis and are described in the distributions tutorial.

Use "hue" to differentiate categories by color, "style" to vary markers or lines, and "size" to scale markers based on another variable. The "col" and "row" options create subplots (facets) for comparison across categories, while the "multiple" parameter (e.g., "dodge," "stack," "fill") manages overlapping data displays. Once the plot type and settings are selected, click "Show Plot" to visualize the results.

Select Dataset	None 2021FoodSecurityData 2021FullYearConsolidatedData 2021JobsFileData	Ô	Select X Select Y		~ ~
	2021MedicalConditionsData 2021PersonRoundPlanPublicUseData 2022FoodSecurityData 2022FullCharacteristicsData 2022FullVearConsolidatedData	-	Select Hue		~
		•	Select Style		~
Select Plot	None Bar Plot		Select Size		~
	Box Plot Boxen Plot Count Plot	- 1	Select Column		~
	Histogram Line Plot Point Plot		Select Row		~
	Scatter Plot Strip Plot	-	Select Layer	Layer	~

Show Plot

DataSubset()

Use the Select Dataset dropdown to choose a dataset. The available variables will be dynamically populated when you select options in the Select Variables dropdown. After selecting the desired variables from the Select Variables dropdown, you may visualize the data by clicking the Show Data

Coming

button. This will display the first few rows of the specific columns selected in the output area below.

To save the displayed data, click the Save Data button. This action will store the selected data in your bucket and confirm the successful operation in the output area. Please make sure you have made selections in both the dataset and variables dropdowns before attempting to save.

Select Dataset	Select Variables	
PLACES 500Cities 2021 PLACES 500Cities 2022 PLACES 500Cities 2023 PLACES 500Cities 2023 PLACES 500Cities 2024 YRBSS YouthRiskBehavior 2015 YRBSS YouthRiskBehavior 2017	Q1 Q2 Q3 Q4 Q5 Q6	
YRBSS_YouthRiskBehavior_2019 YRBSS_YouthRiskBehavior_2021	Q7 Q8	Show Data
YRBSS_YouthRiskBehavior_2023	Q9 Q10	Save Data

Calculate()

Use the Select Dataset dropdown to choose a dataset. The available variables will be dynamically populated when you select options in the Select Variables dropdown. After selecting the desired variables from the Select Variables dropdown, click the Describe Data button. This will display the summary statistics of the specific columns selected in the output area below.

Select Dataset		Select Variables	
PLACES_500Cities_2021 PLACES_500Cities_2022 PLACES_500Cities_2023	-	Q1 Q2 Q3	
PLACES_500Cities_2024 YRBSS_YouthRiskBehavior_2015 YRBSS_YouthRiskBehavior_2017		Q4 Q5 Q6	
YRBSS_YouthRiskBehavior_2019 YRBSS_YouthRiskBehavior_2021 YRBSS_YouthRiskBehavior_2023		Q7 Q8 Q9	
	•	Q10	

Describe Data

Connect to a Terra Jupyter notebook

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Use Dataviews on the Repository

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How do I analyze or aggregate data from the ScHARe Data Repository?

