

Epiverse-TRACE showcase

Karim Mané Research Software Engineer

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MRCG Pillar 1: data science tools for field epidemiology



Bubacarr Bah





Epiverse TRACE

powered by data.org



The challenges: Dealing with different HIS ٠ Fingertips | Public health data SQLite Microsoft SQL Server \otimes G I R PostgreSQL Data Import Tool MysqL



{readepi}

Stage of development:

Maturing Authors:

Karim Mané Bankolé Ahadzie Bubacarr Bah Abdoelnaser Degoot Nuredin Mohammed





readepi

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Wants to use {readepi}: 3 requirements

Access to the HIS of interest

- User credentials to be saved in a file
- For MS servers, need installation of appropriate MS drivers on Unix and OSX-based systems

Return object type: list





{readepi}: main arguments

- data_source: the URL of the target HIS
- records: a vector of subject IDs
- fields: a vector of column names
- id_position: the column position of the variable that unique identifies the subjects
- id_col_name: the name of the column that unique identifies the subjects
- ... specific arguments to the HIS of interest



DISPLAY THE STRUCTUTRE OF THE TEMPLATE CREDENTIAL FILE show_example_file()

user_name	password	host_name	project_id	comment	dbms	port
admin	district	https://play.dhis2.org/dev	DHIS2_DEMO	this is a test DHIS2 server	DHIS2	NA
rfamro		mysql-rfam-public.ebi.ac.uk	Rfam	this is a test MySQL server	MySQL	4497
kmane	9A81268476645C4E5F03428B8AC3AA7B	https://bbmc.ouhsc.edu/redcap/api/	SD_DATA	testing access to REDCap project	REDCap	NA

readepi

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DEFINE THE PATH TO THE CREDENTIAL FILE

credentials_file <- system.file("extdata", "test.ini", package = "readepi")</pre>

READING FILE FROM A PROJECT IN A REDCap DATABASE

project_data <- data\$data # accessing the actual data project_metadeta <- data\$metadata # accessing the metadata associated with project







VIEWING THE LIST OF ALL TABLES IN A MySQL DATABASE



VISUAIZE FIRST 5 ROWS OF THE TABLE 'author'





READING ALL FILEDS AND RECORDS FROM A MySQL SERVER

READING FROM DHIS2







READING FROM THE FINGERTIPS REPOSITORY

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OPEN THE VIGNETTE WITHIN RSTUDIO
vignette("readepi")

OPEN THE VIGNETTE IN YOUR WEB BROWSER
browseVignettes("readepi")

