Getting Started

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Contents

1	Getting Started	1
2	R Installation	1
3	Note	1
4	Executing Data Quality Checks	1
5	Viewing Results	3
6	View checks	3
1	Getting Started	

2 R Installation

```
install.packages("remotes")
remotes::install_github("OHDSI/DataQualityDashboard")
```

3 Note

To view the JSON results in the shiny application the package requires that the CDM_SOURCE table has at least one row with some details about the database. This is to ensure that some metadata is delivered along with the JSON, should it be shared. As a best practice it is recommended to always fill in this table during ETL or at least prior to running the DQD.

4 Executing Data Quality Checks

```
cdmDatabaseSchema <- "yourCdmSchema" # the fully qualified database schema name of the CDM
resultsDatabaseSchema <- "yourResultsSchema" # the fully qualified database schema name of the results
cdmSourceName <- "Your CDM Source" # a human readable name for your CDM source
# determine how many threads (concurrent SQL sessions) to use -------------------
numThreads <- 1 # on Redshift, 3 seems to work well
# specify if you want to execute the queries or inspect them ------
sqlOnly <- FALSE # set to TRUE if you just want to get the SQL scripts and not actually run the queries
# where should the logs qo? ------
outputFolder <- "output"</pre>
# logging type -----
verboseMode <- FALSE # set to TRUE if you want to see activity written to the console
# write results to table? -----
writeToTable <- TRUE # set to FALSE if you want to skip writing to a SQL table in the results schema
# if writing to table and using Redshift, bulk loading can be initialized ------
# Sys.setenv("AWS ACCESS KEY ID" = "",
           "AWS_SECRET_ACCESS_KEY" = "",
           "AWS_DEFAULT_REGION" = "",
#
           "AWS BUCKET NAME" = "",
           "AWS_OBJECT_KEY" = "",
           "AWS SSE TYPE" = "AES256",
           "USE_MPP_BULK_LOAD" = TRUE)
# which DQ check levels to run -----
checkLevels <- c("TABLE", "FIELD", "CONCEPT")</pre>
# which DQ checks to run? ------
checkNames <- c() # Names can be found in inst/csv/OMOP_CDM_v5.3_Check_Descriptions.csv
# run the job ------
DataQualityDashboard::executeDqChecks(connectionDetails = connectionDetails,
                              cdmDatabaseSchema = cdmDatabaseSchema,
                              resultsDatabaseSchema = resultsDatabaseSchema,
                              cdmSourceName = cdmSourceName,
                              numThreads = numThreads,
                              sqlOnly = sqlOnly,
                              outputFolder = outputFolder,
                              outputFile = outputFile,
                              verboseMode = verboseMode,
                              writeToTable = writeToTable,
                              checkLevels = checkLevels,
                              checkNames = checkNames)
ParallelLogger::launchLogViewer(logFileName = file.path(outputFolder, cdmSourceName,
                                              sprintf("log_DqDashboard_%s.txt", cdmSourceName))
```

5 Viewing Results

Launching Dashboard as Shiny App

DataQualityDashboard::viewDqDashboard(jsonFilePath)

Launching on a web server

If you have npm installed:

1. Install http-server:

npm install -g http-server

- 2. Name the output file results.json and place it in inst/shinyApps/www
- 3. Go to inst/shinyApps/www, then run:

http-server

6 View checks

To see description of checks using R, execute the command below:

 $\verb|checks| <- DataQualityDashboard::listDqChecks(cdmVersion = "5.3") # Put the version of the CDM you are under the control of the CDM you are under the control of the CDM you are under the control of the control of the CDM you are under the control of the con$