Database mode in Diagnostics Explorer

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1 Database mode

We recommend the use of a database system, when file size of the cohort diagnostics output becomes large e.g. > 100mb, as using the premerged.RData may leading sluggish performance. Currently only postgres server is supported.

We use DatabaseConnector and DbPool to manage connections between the shiny application and postgres. The recommended method to launch a Shiny application is to provide the connection details to the 'launchDiagnosticsExplorer()' shiny application. Please review the documentation of 'DatabaseConnector::createConnectionDetails()' function in the DatabaseConnector package on how to connect to the server.

We have an example script on how to upload data to remote postgres server here. The 'createResultsDataModel()' function will execute a series of SQL statements to create empty target schema to hold the results of the Cohort Diagnostics.

To upload the results, we recommend that you use the 'uploadResults()' function, and provide it the path to your postgres driver.

Once the data is uploaded into the postgres server - you can execute the shiny application using the 'launchDiagnosticsExplorer()' function. Please provide the connection details, along with the schema that you have uploaded your results (resultsDatabaseSchema).