

# Database mode in Diagnostics Explorer

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2021-04-15

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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`).