

DATA QUERY TOOL (DQT)

This manual of procedures aims to provide LORIS users with detailed explanations on how to use Data Query Tool (DQT) effectively to curate COMPASS-ND data to your needs. Users first need to obtain an approved Data Access Request to be able to access DQT. Please, follow all the steps if you need a Data Access Request Approval for your proposed study. If you already have DQT access, please skip to the section 3, *Data Query Tool*.

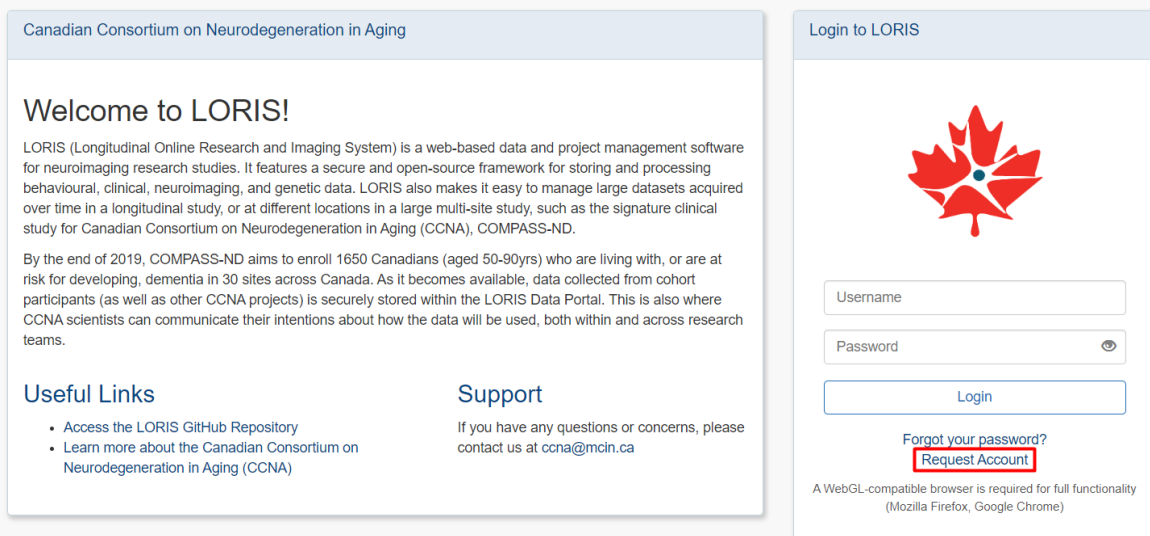
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1. Requesting a LORIS Account (skip if you have an account)

Researchers first need a LORIS account to be able to access COMPASS-ND study data. An account can be requested on the landing page of the LORIS: ccna.loris.ca

Please, click on the “Request Account” hyperlink to provide you account details. An account will be provided by LORIS staff as soon as possible with the information provided.



The image shows two side-by-side screenshots of the LORIS website. The left screenshot is the landing page titled "Canadian Consortium on Neurodegeneration in Aging" and "Welcome to LORIS!". It contains introductory text about LORIS, a "Useful Links" section with two bullet points, and a "Support" section with contact information. The right screenshot is the "Login to LORIS" page, featuring a red maple leaf logo, input fields for "Username" and "Password", a "Login" button, and a "Request Account" link highlighted with a red box. A note at the bottom states: "A WebGL-compatible browser is required for full functionality (Mozilla Firefox, Google Chrome)".

2. Data Access Request (skip if you have an approved Data Access)

Once you log in to your account, you will be able to submit a Data Access Request. The Request module is located on the top ribbon under the *Tools* tab, *Data Access*. Following link will also take you to the Data Access Module: [Data Access \(loris.ca\)](http://Data Access (loris.ca))

We kindly invite researchers to take the following items into account when submitting a Data Access Request. This way we can effectively handle your data needs and prevent potential conflicts of interest:

- Submission of one request per project;
- Review the list of protected projects beforehand. Protected Projects can be found in *Projects and Publications* module, under the *Reports* tab. You can select *Protected Projects* from the *Publishing Status* dropdown to curate the list;
- Determining specific research questions which are not covered by protected projects, very broad or ambiguous research questions will probably be declined;
- Clear description project proposal and variables required to achieve your research goals.

Your Data Access Requests will be investigated by the Data Access Subcommittee (DASC) and you will receive a feedback upon your request. If your request is approved, you will be granted access to COMPASS-ND data hosted in LORIS.

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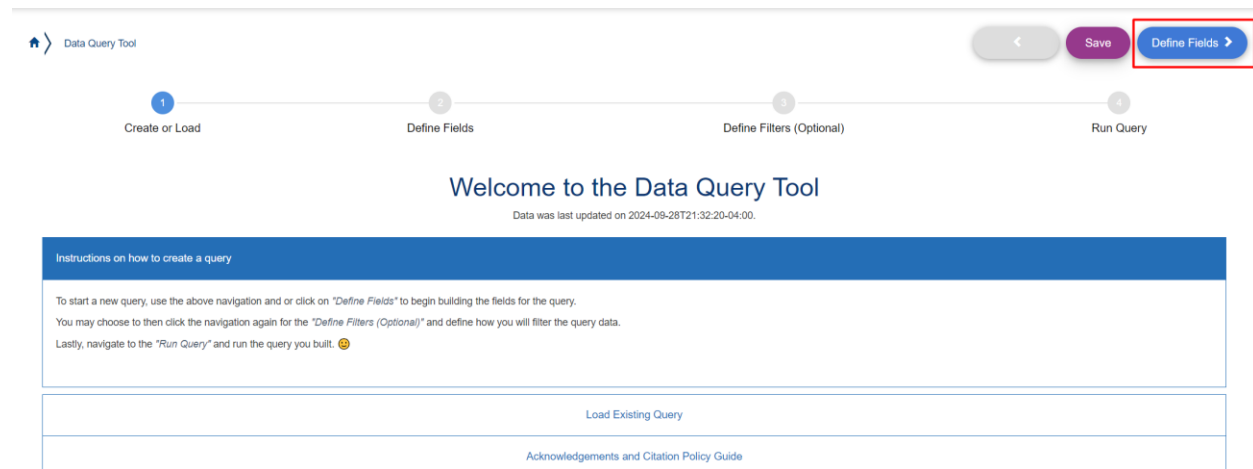
3. Data Query Tool

Most of the COMPASS-ND data is now made available in Data Query Tool (DQT) in a queryable format. *Data Query Tool* can be located under the *Reports* tab in LORIS, or <https://ccna.loris.ca/dqt/>. If you cannot monitor the DQT module despite having an approved Data Access Request, please send an email to turac.aydogan.ca@gmail.com or ccna@mcin.ca.

Once you land on the Data Query Tool welcome page, a pop-up about “Acknowledgements and Citation Policy Guide” will appear. We kindly request that you thoroughly review the policy before you proceed.

I. Defining Fields

To begin querying the data, you need to click on the **Define Fields** button located at the top right corner of the welcome page:



You can search for fields of your interest in the search bar by typing the keywords or from selecting the dropdown menu available.

A field is a group of variables collected either under an instrument or listed together for convenience of the researchers. The field labels usually follow this nomenclature:

[instrument_category]_[instrument_label]

e.g., *Screening_Education, General_Health_Biosample_Collection.*

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II. Selecting Variables

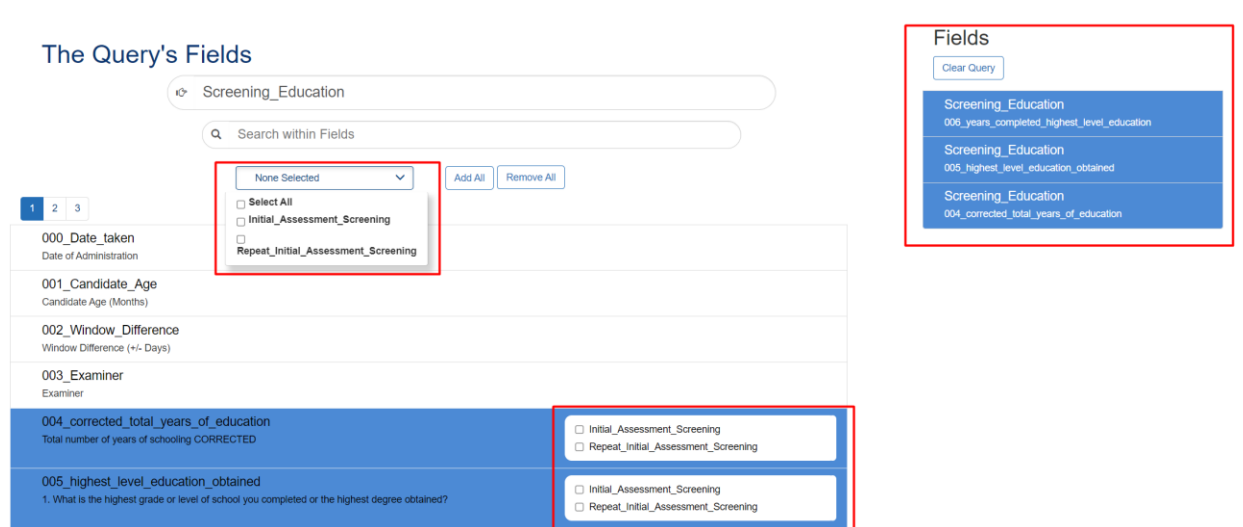
Once you find your field of interest, the variables collected will be listed beneath the search bars. The *Search within Fields* search bar can be used to filter certain variables.

Please, visit Data Dictionary or the List of Tests spreadsheet to locate your variables of interest (visit section 4 for more information).

You can select all the variables within a field by clicking *Add All* button and you may remove all variables by clicking *Remove All* button.

After variables of interest are selected, a visit information has to be selected to make sure the data will be queried.

The visit information can be selected from the dropdown below the search bars or manually selected from the checkboxes appearing on the right of the variables. The selected variables will be listed on the top-right of the window. The query could be reset by clicking the [Clear Query](#) button.



The screenshot displays the 'The Query's Fields' interface. At the top, there is a search bar containing 'Screening_Education' and a 'Search within Fields' input. Below this, a dropdown menu shows 'None Selected' with options for 'Select All', 'Initial_Assessment_Screening', and 'Repeat_Initial_Assessment_Screening'. To the right are 'Add All' and 'Remove All' buttons. The main area lists several fields, with '004_corrected_total_years_of_education' and '005_highest_level_education_obtained' highlighted in blue. For these highlighted fields, checkboxes for 'Initial_Assessment_Screening' and 'Repeat_Initial_Assessment_Screening' are visible. On the right side, a 'Fields' panel shows a list of selected variables: 'Screening_Education' (006_years_completed_highest_level_education), 'Screening_Education' (005_highest_level_education_obtained), and 'Screening_Education' (004_corrected_total_years_of_education). A 'Clear Query' button is located at the top of this panel.

Please, note that more variables from other fields could be appended to the query by searching for another field and choosing variables and visits as explained above. Previously selected variables from another field can be modified after returning to that specific field.

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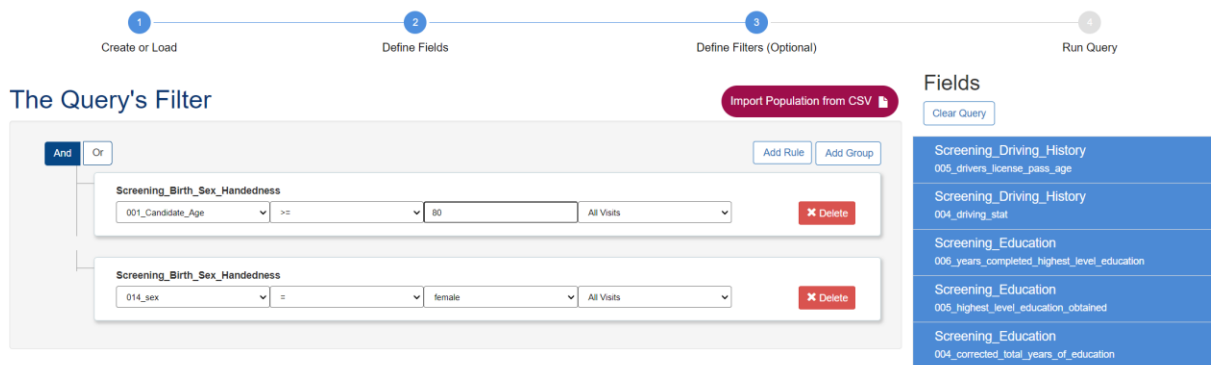
III. Define Filters (Optional)

After all the variables are selected, please click to **Define Filters** button on the top right of the window. On this screen, further filtering could be done on the variables that are selected.

Import Population from CSV A list of Participant IDs can be imported here in .csv format to filter results for a specific sample. The nomenclature of a Participant ID is ABC1234.

Add Rule Any logical statement is displayed as a rule and they can be combined with AND or OR statements to filter down your variables further.

Add Group More logical statements could be nested to a rule defined before.



The Query's Filter

1 Create or Load 2 Define Fields 3 Define Filters (Optional) 4 Run Query

Import Population from CSV

And Or Add Rule Add Group

Screening_Birth_Sex_Handedness

001_Candidate_Age >= 80 All Visits [Delete]

Screening_Birth_Sex_Handedness

014_sex = female All Visits [Delete]

Fields

Clear Query

- Screening_Driving_History
- 005_drivers_license_pass_age
- Screening_Driving_History
- 004_driving_stat
- Screening_Education
- 006_years_completed_highest_level_education
- Screening_Education
- 005_highest_level_education_obtained
- Screening_Education
- 004_corrected_total_years_of_education

In the figure above, female subjects who are older than 80 years of age are filtered.

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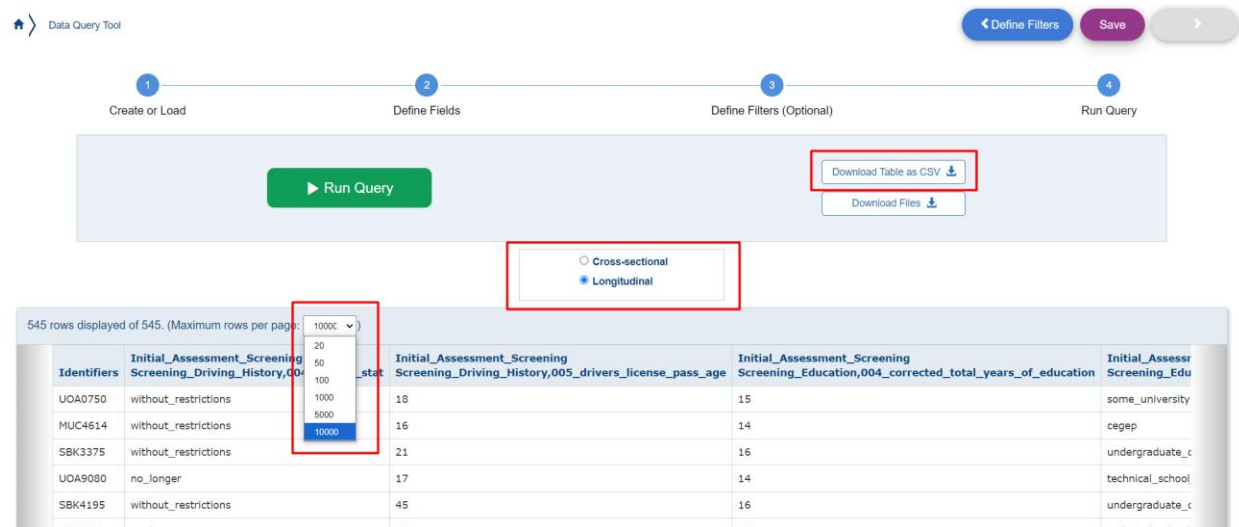
IV. Running and Downloading a Query

Once all the variables are selected and optional filters applied, please proceed by clicking

Run Query button on the top-right corner.

Click to the **Run Query** button on the final page to generate a table of variables. The data will be presented as a table.

1. Select the number of rows per page
2. Choose how the data should be tabulated. The *Longitudinal* option lists different visits separated on different columns. The *Cross-Sectional* option lists different visits by adding extra rows.
3. The generated data may then be exported by clicking the **Download Table as CSV** button.



545 rows displayed of 545. (Maximum rows per page: 10000)

Identifiers	Initial_Assessment_Screening_Screening_Driving_History,004	Initial_Assessment_Screening_Screening_Driving_History,005_drivers_license_pass_age	Initial_Assessment_Screening_Screening_Education,004_corrected_total_years_of_education	Initial_Assessment_Screening_Education,004_corrected_total_years_of_education
UOA0750	without_restrictions	18	15	some_university
MUC4614	without_restrictions	16	14	cegep
SBK3375	without_restrictions	21	16	undergraduate_c
UOA9080	no_longer	17	14	technical_school
SBK4195	without_restrictions	45	16	undergraduate_c
UTAN418	no_longer	16	14	technical_school

V. Saving and Loading a Query

Please, note that the query can be saved in LORIS for future use by clicking on **Save** button located at the top-right corner. At your discretion, any given query can be shared publicly for other researchers.

Saved queries could be loaded in the welcome screen by typing its label name. Both individual private and publicly shared queries can be found here.

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4. List of Variables and Data Dictionary

The list of tests hosted in LORIS can be found in this worksheet: [COMPASS-ND List of Tests](#)

The list of variables can be found in LORIS through the Data Dictionary module: [LORIS Data Dictionary](#)

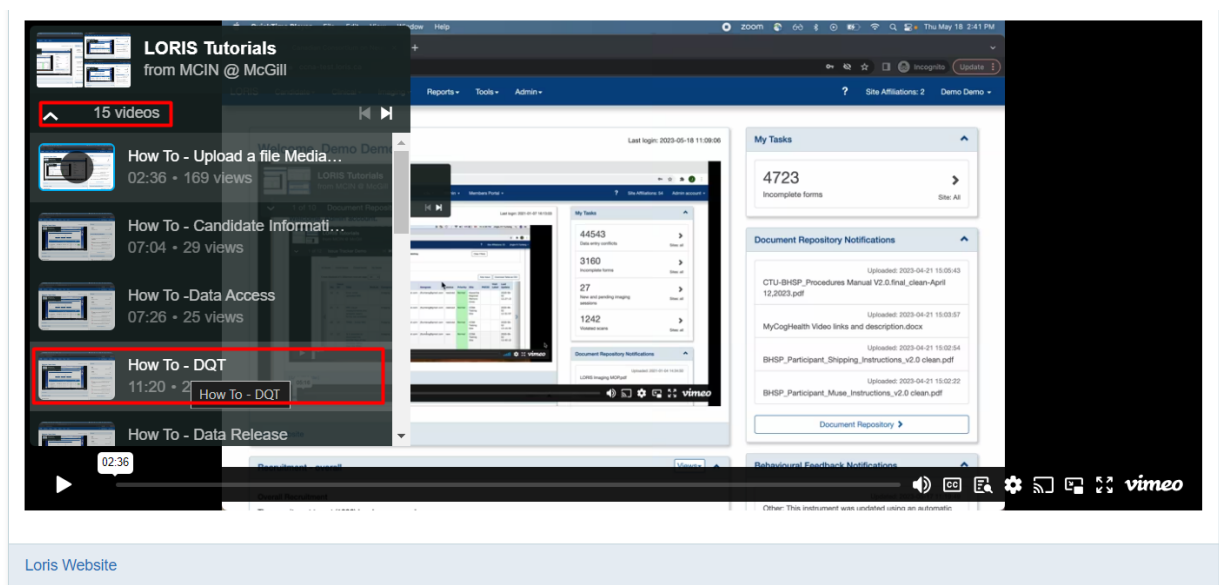
5. Variables Hosted on Data Release Module

SIMOA biomarkers and Genetics results are hosted in the *Data Release* module under the Tools tab.

If you have an approved Data Access Request specifying that you need these data and you cannot monitor or access them in Data Release Module, please reach out to turac.aydogan.ca@gmail.com or ccna@mcin.ca.

6. Supplementary Resources

There are audiovisual resources available at the Welcome Screen of LORIS for any of the topics discussed in this manual.



More documentation, including clinical research forms and other manual of procedures, is available in *Document Repository* under the *Tools* tab. To access the Document Repository, you may click the following link: [LORIS Document Repository](#)