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Chapter

7

Query Tool



CHAPTER 7 – QUERY TOOL

The **Query Tool** module is closely related to the Data Repository module, which provides a long term repository for research data. By combining the power of the GUID and the use of a standard vocabulary via CDEs, the *Query Tool* provides a powerful means to filter through volumes of aggregated research data across studies.

The *Meta Study* module is integrated into the Query Tool, allowing researchers to send data and query to a Meta Study by just clicking on the “**Send to Meta Study**” button. The Data Repository and Data Dictionary modules as well as the Download Tool (which allows users to download data selected in the Query Tool) are also integrated into the Query Tool.

OBJECTIVE

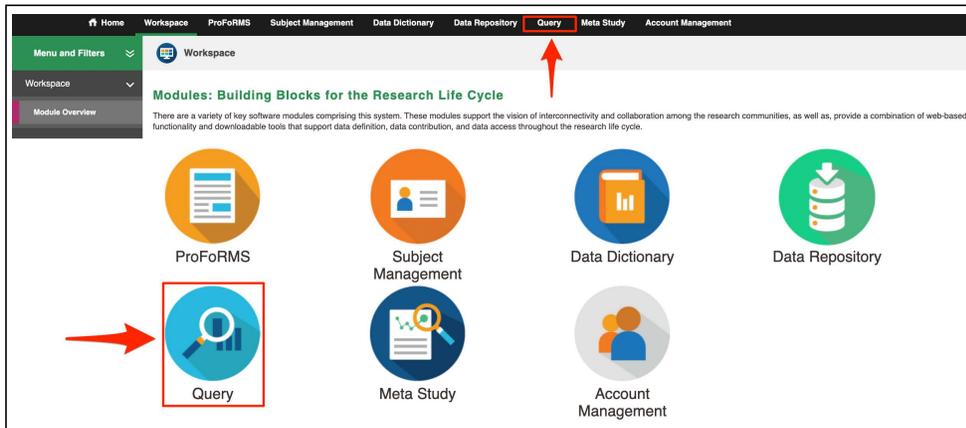
This chapter provides information for users on how to:

- ❖ Search for studies and/or forms using filters and free text search
- ❖ Filter data by any data element and/or value (Boolean Search)
- ❖ Quickly and efficiently gain an understanding of data that is in the system
- ❖ Download data and save data as a query

ACCESS QUERY TOOL

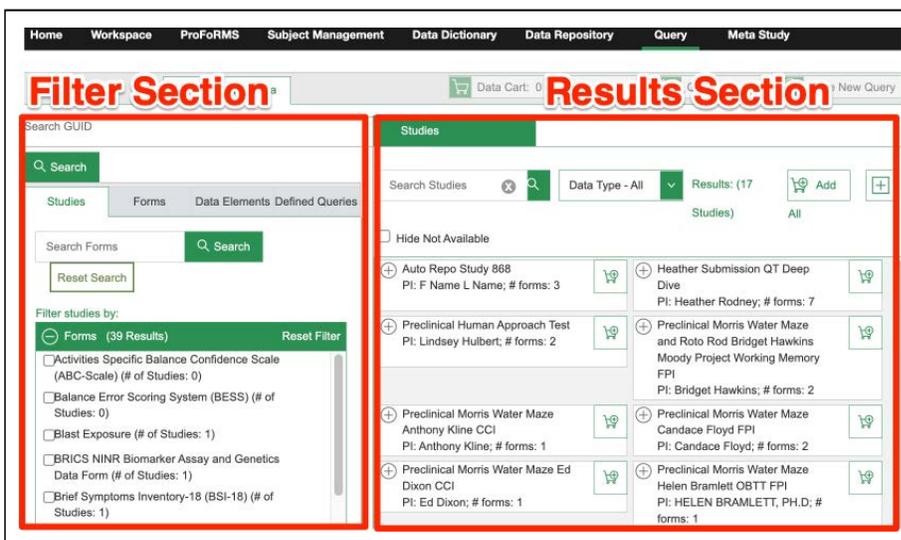
To access the [Query Tool](#): Perform the following actions:

1. Log in to the system.
2. Navigate to the Workspace landing page.
3. Click the Query module.



The **Query Tool** default page will open. This page is broken up into 2 sections. The **Filter Section**, where you will search and filter for the data you wish to download and the **Results Section** where the filtered results will be and you can add the items to your Data Cart.

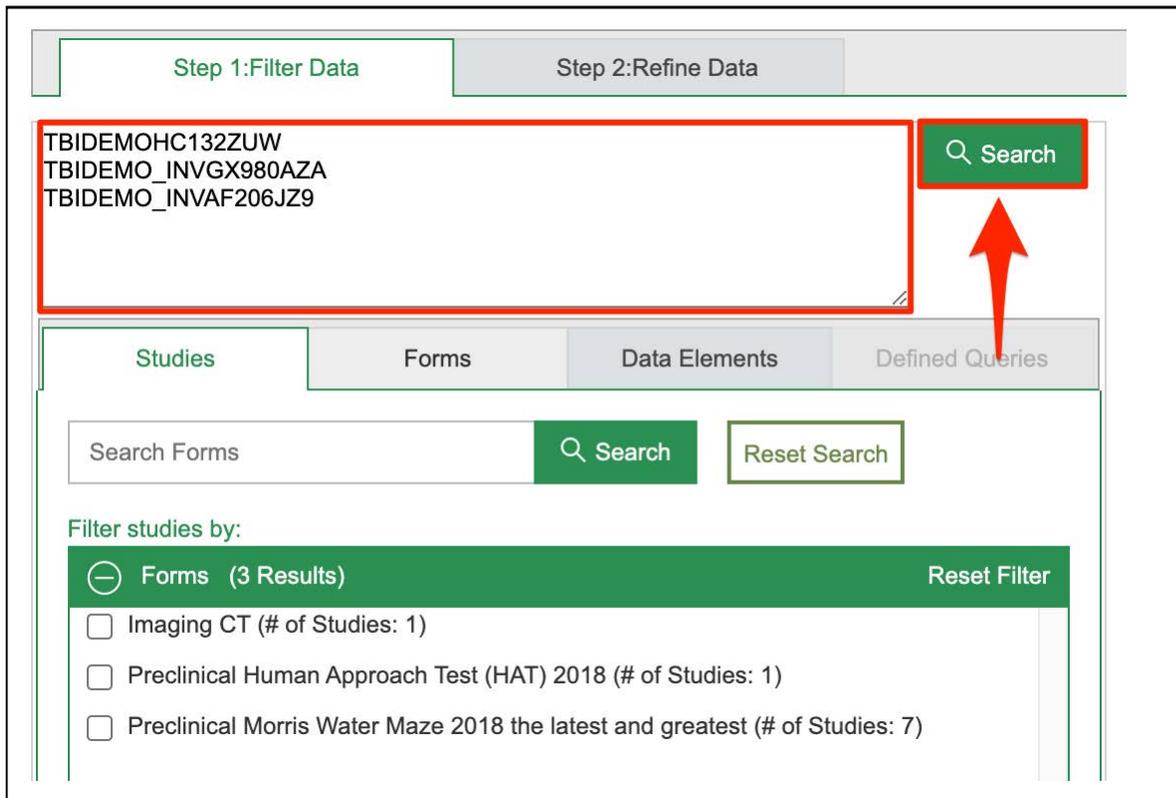
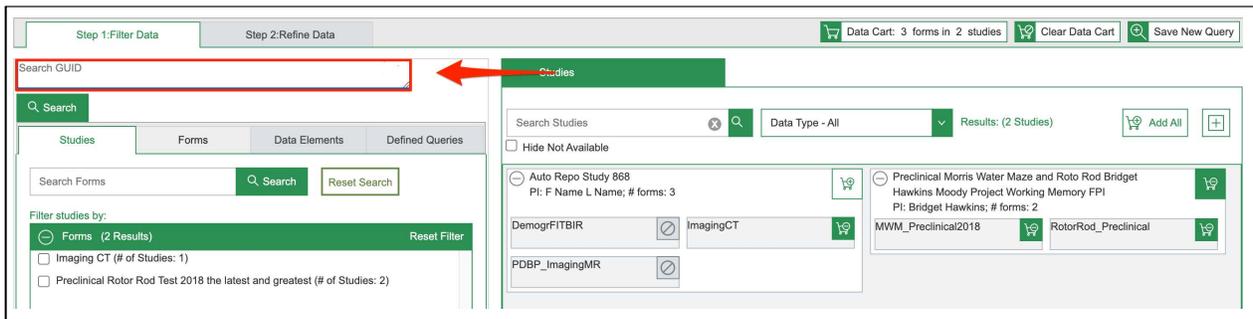
The **Data Cart** is where the different studies and information you are going to want to download. In a later section we will talk about how to refine the data in your Data Cart.



Search by GUID(s): If you are looking for only studies/forms/ or data elements that specific GUID(s) are associated with you can use the Search GUID field under the **Filter Section**.

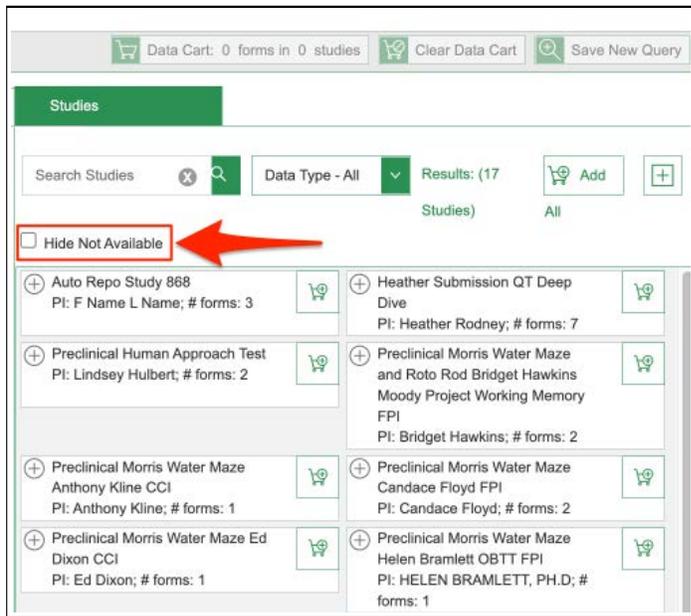
Enter the GUID(s) you wish to search for, if multiple then separated by a new line, then click the **Search** button to get your results.

NOTE: If you use GUID search it will automatically create a filter when you move into **Step2: RefineData** and select the form(s) in your data cart. The GUID filter will appear in the **Query LogicBox** containing the GUID(s) you searched for. Note that the filter will not be applied to your data until you click **Run Query**. More about this in [Section 7.3](#)

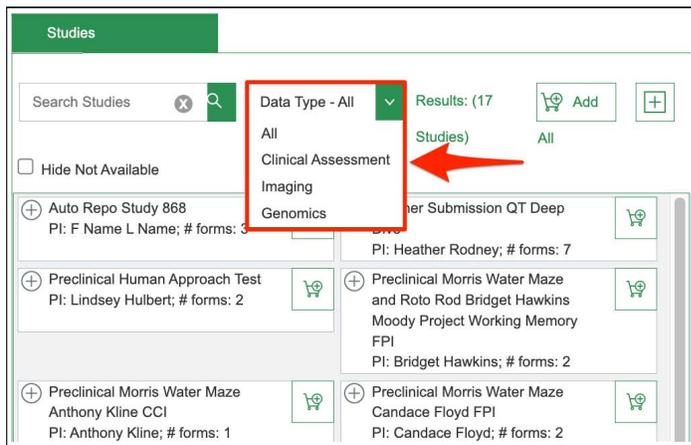


Data can be accessed only from studies the user has permission to access, however, users will still see studies they do not have access to. They will have a grayed out circle to the right of the study.

To view only the studies this user has access too, click on the box labeled **Hide Not Available** under the **Studies Search Box**. The number for the results will change from the total number of studies with data to the number of studies you have access to.

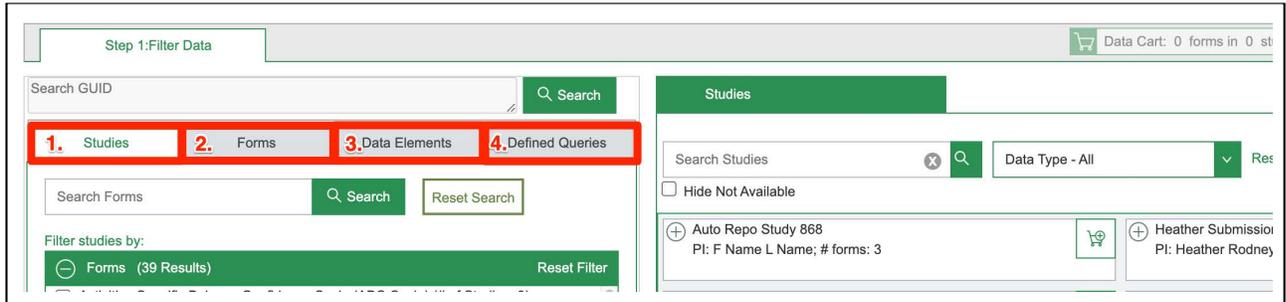


You can also filter the results by using the **Data Type** drop down in the **Results Section**



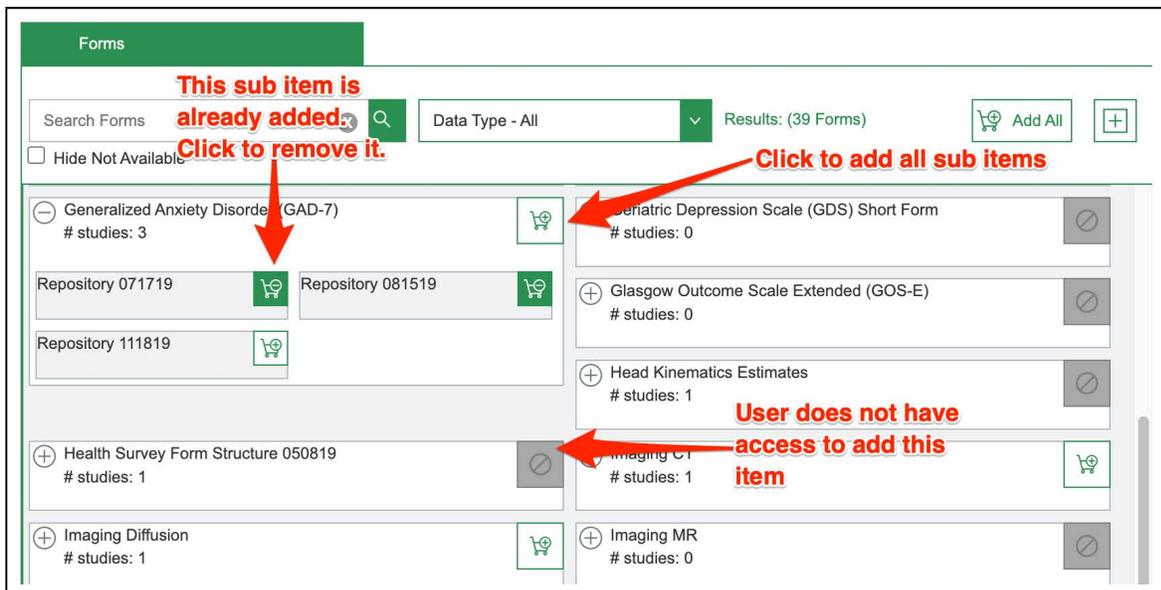
SECTION 7.1: FILTER DATA

There are four methods to filter data within the Query Tool. The four methods include (1) **Studies**, (2) **Forms**, (3) **Data Elements**, and (4) **Defined Queries**. To View and Refine the data, please refer to Section 7.2 and Section 7.3 of the Query Tool User Guide.



You will use the 4 methods mentioned above to find the data you wish to query. When you find data you wish to add then click the cart icon with the + on it to add it to your **data cart**.

1. Clicking the parent of a cart icon will add all sub items to the data cart.
2. Clicking the sub item will add only the sub item.
3. Clicking the **Add All Cart Icon** at the top right will add everything currently in the results (right side of screen) section.



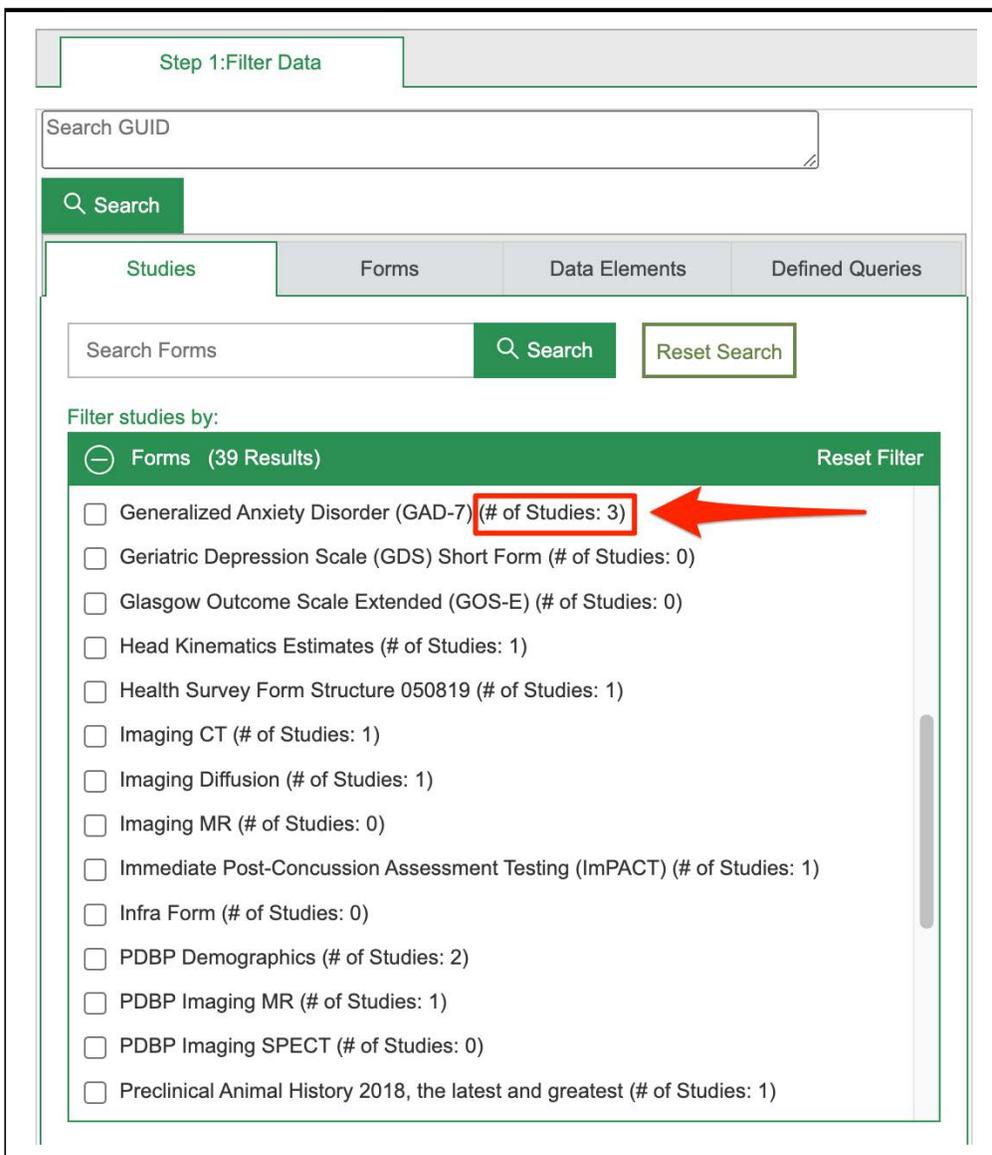
After adding an item to your **data cart**, the cart icon will have change to be filled with a solid color and have a "-" symbol on it.. To remove an item from the data cart simply click the cart icon again.

I. Filter Data: Studies

Within the Studies Tab, there is a list of form structures (left side of page) and on the result page (right side of the page) are the studies.

1. Within the list of form structures provided, click on the box next to each form structure you wish to filter on.

NOTE: Next to the name of the form structure is a number that indicates the number of studies that have data submitted. For example, for the form structure titled “**Generalized Anxiety Disorder (GAD-7)**,” there are 3 studies that have data submitted to that form.

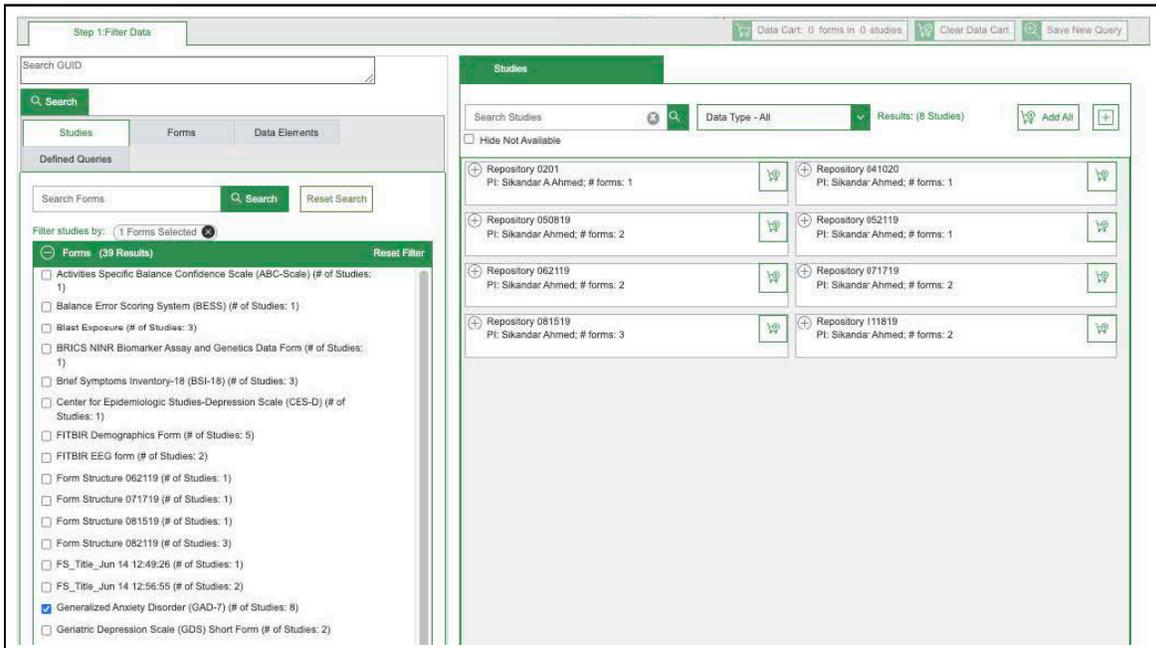


The screenshot shows the 'Step 1: Filter Data' interface. At the top, there is a 'Search GUID' field and a 'Search' button. Below this, there are four tabs: 'Studies', 'Forms', 'Data Elements', and 'Defined Queries'. The 'Studies' tab is currently selected. Underneath the tabs, there is a 'Search Forms' field, a 'Search' button, and a 'Reset Search' button. A section titled 'Filter studies by:' contains a green header bar with a minus sign, 'Forms (39 Results)', and a 'Reset Filter' button. Below this header is a list of form structures, each with a checkbox and the text '(# of Studies: X)'. The first item, 'Generalized Anxiety Disorder (GAD-7)', has its '(# of Studies: 3)' text highlighted with a red box, and a red arrow points to it from the right.

Form Structure	# of Studies
Generalized Anxiety Disorder (GAD-7)	3
Geriatric Depression Scale (GDS) Short Form	0
Glasgow Outcome Scale Extended (GOS-E)	0
Head Kinematics Estimates	1
Health Survey Form Structure 050819	1
Imaging CT	1
Imaging Diffusion	1
Imaging MR	0
Immediate Post-Concussion Assessment Testing (ImpACT)	1
Infra Form	0
PDBP Demographics	2
PDBP Imaging MR	1
PDBP Imaging SPECT	0
Preclinical Animal History 2018, the latest and greatest	1

2. The other option is to type in the title or short-name of the form structure in the **Search Forms** box then click on **Search**. This will narrow down the number of forms that are visible, but you will still need to click on the box for the form or forms that you desire to filter on.
3. The results box (right side of screen) will provide the studies that have data submitted against the form structure.

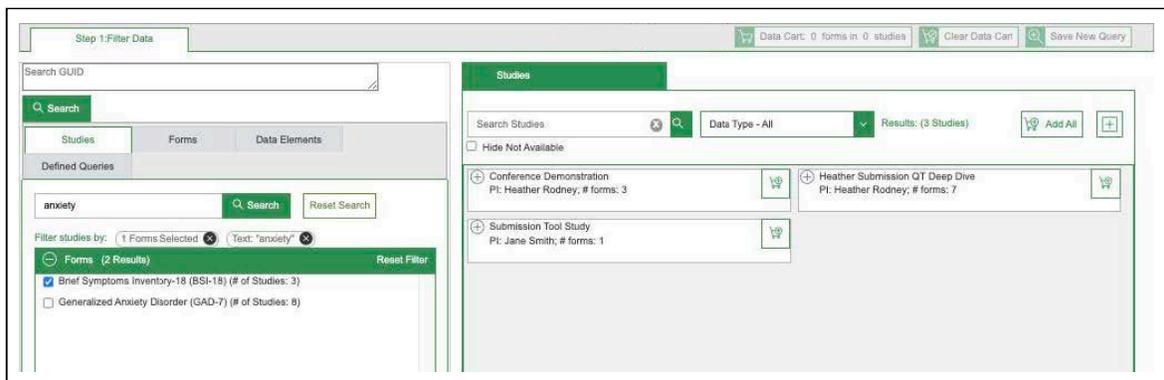
View of results when the user clicks on Form Structure from the list:



The screenshot shows the 'Step 1: Filter Data' interface. On the left, the 'Search Forms' box is active, and the 'Filter studies by:' section shows 'Forms (39 Results)'. The 'Generalized Anxiety Disorder (GAD-7) (# of Studies: 8)' form is selected. On the right, the 'Studies' panel shows a list of 8 studies, each with a repository ID, PI name, and number of forms. The studies listed are:

Repository ID	PI Name	# of Forms
Repository 0201	Pt. Sikandar A Ahmed	1
Repository 041020	PI: Sikanda: Ahmed	1
Repository 050819	Pt. Sikandar Ahmed	2
Repository 052119	PI: Sikanda: Ahmed	1
Repository 062119	Pt. Sikandar Ahmed	2
Repository 071719	PI: Sikanda: Ahmed	2
Repository 081519	Pt. Sikandar Ahmed	3
Repository 118119	PI: Sikanda: Ahmed	2

View of results when the user searches for a Form Structure using the short name:



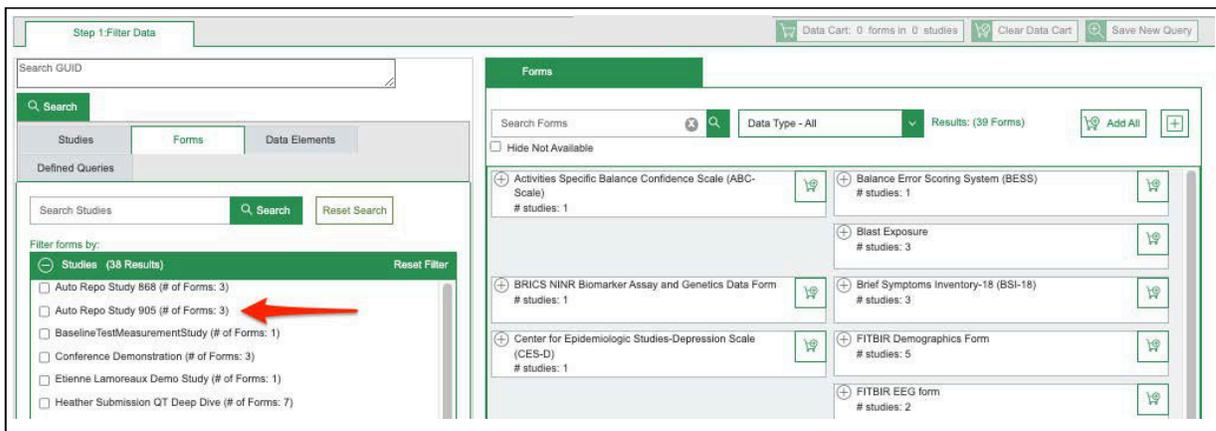
The screenshot shows the 'Step 1: Filter Data' interface. On the left, the 'Search Forms' box contains the text 'anxiety'. The 'Filter studies by:' section shows 'Forms (2 Results)'. The 'Brief Symptoms Inventory-18 (BSI-18) (# of Studies: 3)' form is selected. On the right, the 'Studies' panel shows a list of 3 studies, each with a title, PI name, and number of forms. The studies listed are:

Study Title	PI Name	# of Forms
Conference Demonstration	PI: Heather Rodney	3
Heather Submission QT Deep Dive	PI: Heather Rodney	7
Submission Tool Study	PI: Jane Smith	1

II. Filter Data: Forms

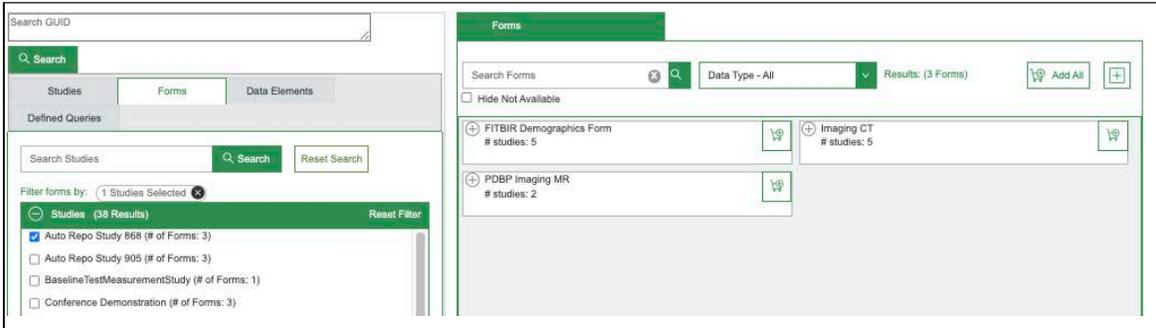
With the Forms Tab, there is the list of all the studies that have data submitted to the Repository, and the results view provides the form structures for the study.

1. Within the list of studies provided, click on the box next to the study title or search for the study by typing the **Study Name or the Principal Investigator's Name** into the **Search Studies** box and click **Search**.
 - a. The number at the end of the study title indicates the number of form structures that have data submitted. For example, the "**Auto Repo Study 905**" study has 3 form structures with data.
 - b. Users will be able to see the form structures for each study, but not access the data unless they have permission to.



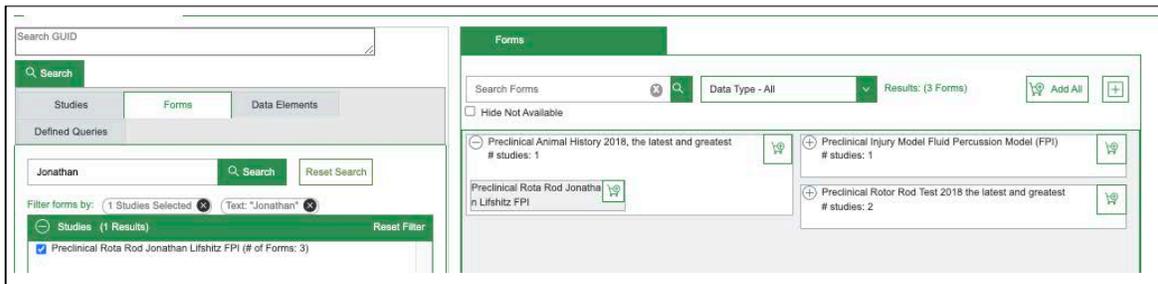
The screenshot shows the 'Step 1: Filter Data' interface. On the left, there is a search bar for GUIDs and a 'Search Studies' box. Below it, a list of studies is shown under 'Filter forms by:'. A red arrow points to 'Auto Repo Study 905 (# of Forms: 3)'. On the right, the 'Forms' panel shows a grid of form structures for the selected study, including 'Activities Specific Balance Confidence Scale (ABC-Scale)', 'Balance Error Scoring System (BESS)', 'Blast Exposure', 'Brief Symptoms Inventory-18 (BSI-18)', 'Center for Epidemiologic Studies-Depression Scale (CES-D)', 'FITBIR Demographics Form', and 'FITBIR EEG form'.

Click the checkbox for the **Study Title** to view the form structures.



The screenshot shows the BRICS interface with the 'Forms' tab selected. On the left, the 'Search GUID' field is empty, and the 'Search Studies' field contains the text 'Study Title'. The 'Filter forms by' section shows '1 Studies Selected' with a list of results: 'Auto Repo Study 868 (# of Forms: 3)' (checked), 'Auto Repo Study 905 (# of Forms: 3)', 'BaselineTestMeasurementStudy (# of Forms: 1)', and 'Conference Demonstration (# of Forms: 3)'. The main 'Forms' panel displays three results: 'FITBIR Demographics Form # studies: 5', 'Imaging CT # studies: 5', and 'PDBP Imaging MR # studies: 2'. Each result has a checkbox and a 'View' icon.

View of the form structures searching by **Principal Investigator's Name**:

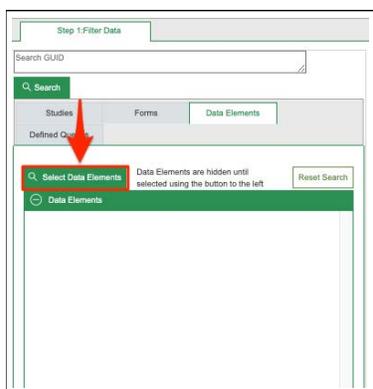


The screenshot shows the BRICS interface with the 'Forms' tab selected. On the left, the 'Search GUID' field is empty, and the 'Search Studies' field contains the text 'Jonathan'. The 'Filter forms by' section shows '1 Studies Selected' with a list of results: 'Preclinical Rota Rod Jonathan Lifshitz FPI (# of Forms: 3)' (checked). The main 'Forms' panel displays three results: 'Preclinical Animal History 2018, the latest and greatest # studies: 1', 'Preclinical Injury Model Fluid Percussion Model (FPI) # studies: 1', and 'Preclinical Rotor Rod Test 2018 the latest and greatest # studies: 2'. Each result has a checkbox and a 'View' icon.

III. Filter Forms: Data Elements

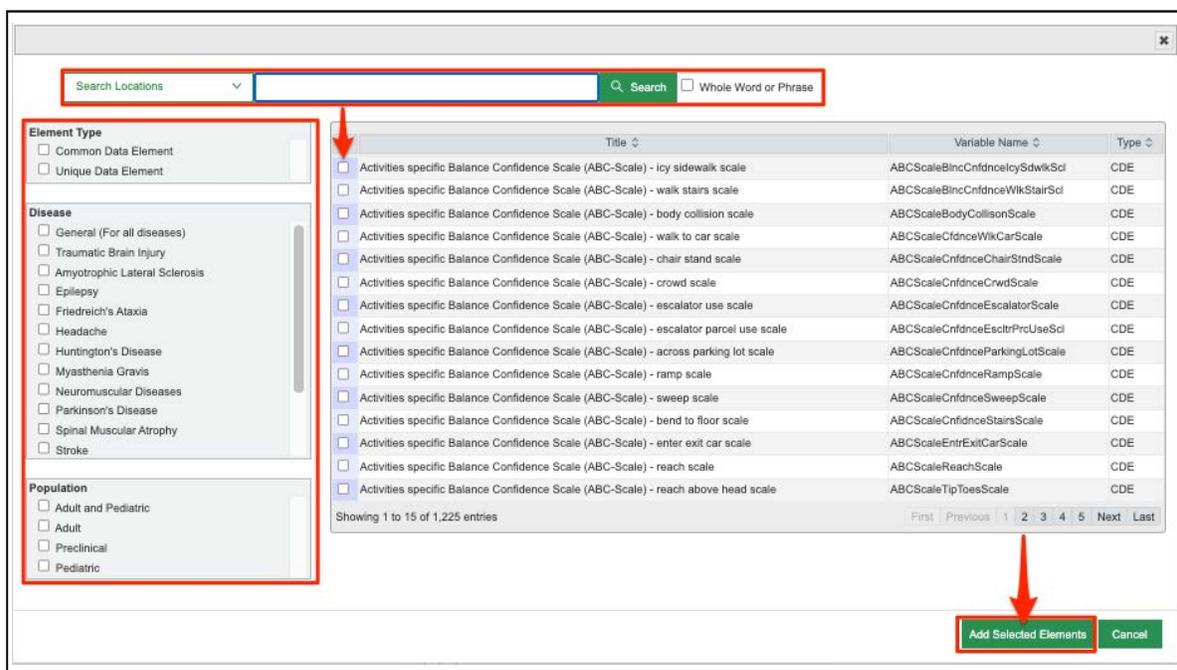
Within the Data Elements tab, the results page will provide the form structures that contain a selected data element.

1. Click on the **Select Data Elements** button.

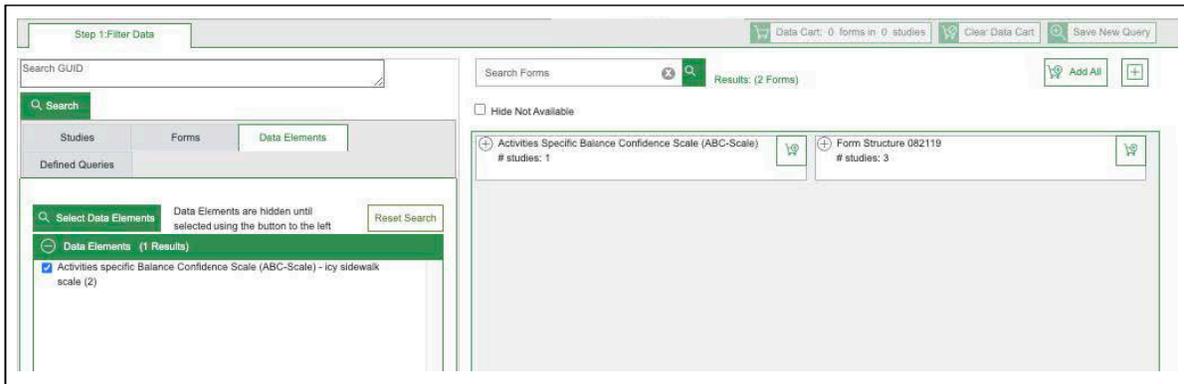


2. A pop-up box will appear, which will contain data elements that are published in the data dictionary. Within the pop-up box, users are able to use the **filters** to see the different types of data elements and **search** for data elements by using the search box.

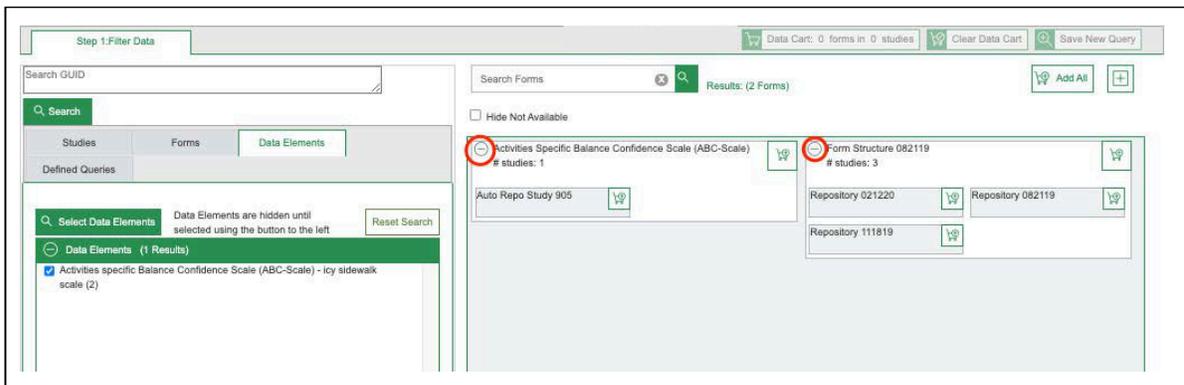
3. Select your data element(s) and click **Add Selected Elements**



4. After adding the data elements, the pop-up box will close and the data elements that were chose will displayed in the **Data Elements Column** on the left side of the page.
5. Click on the check-box next to the data element(s), and the result table will provide the associated form structures.



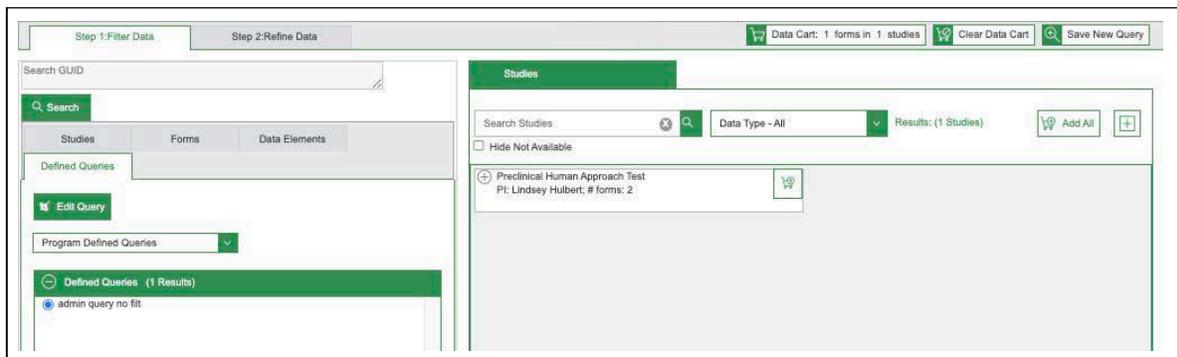
6. If you wish to see the studies that have data for each form structure, you can expand/collapse the form structures in the results table (right column) by clicking the "+" or the "-" at the top left of each item.



IV. Filter Data: Defined Queries

Within the Defined Queries tab, the results page will provide data that has been refined by previous, saved users queries. **Note: Only users with permission to the queries can view the filtered data.**

1. Click on the **Defined Queries** button, and click on a query that you have permission to access.
2. The results table will provide the studies and the form structures that were used in refining the data.
3. In the Data Cart, it will display the number of forms and studies in the query.

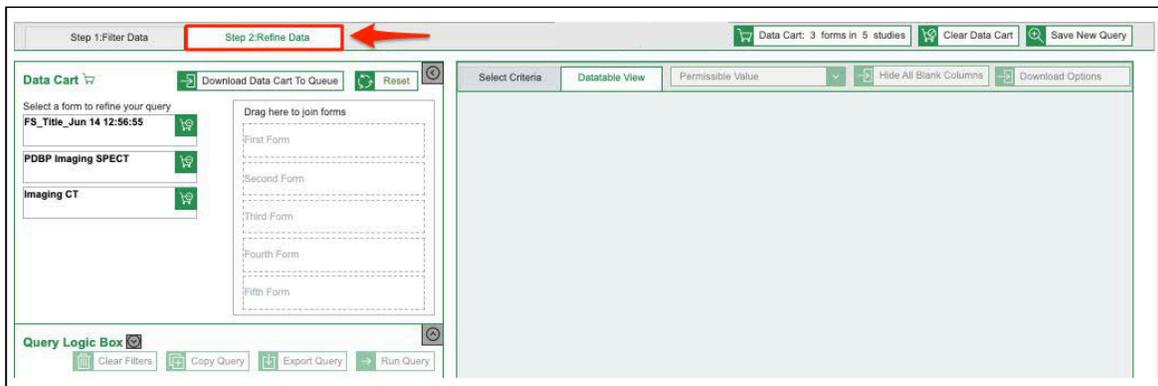


SECTION 7.2: VIEW THE DATA

After choosing the data (please refer to **Section 1: Filter Data** to choose data), **Step 2: Refine Data** will appear, which allows the user to refine their data through the following options:

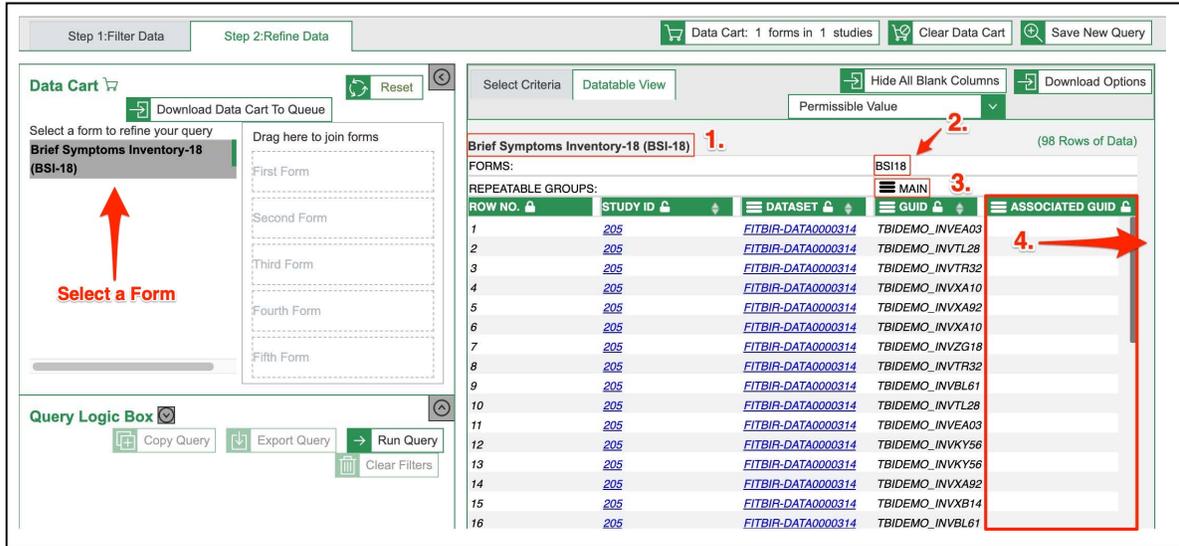
1. Select form structures
2. Join form structures
3. Select Criteria for refining the data
4. View as Datatable
5. Perform Boolean Queries
6. Download or send data to Meta Study

First select **Step 2: Refine Data**



View Data from Selected Studies and Form Structures

1. To view the data in the form structure, click on the form structure. The data in the form structure will appear in the **Datatable View**.
2. Within the **Datatable View**, the user will see the following: (1) name of the title of the form structure, (2) the short name of the form structure, (3) the repeatable group name, and (4) the data element in the form structure.



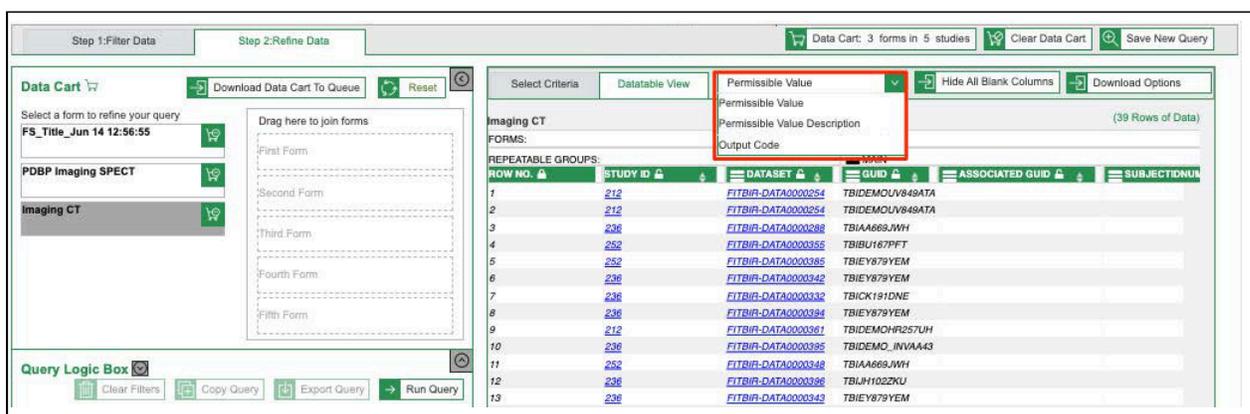
The screenshot displays the 'Datatable View' for the 'Brief Symptoms Inventory-18 (BSI-18)' form structure. The interface includes a 'Data Cart' on the left with a 'Select a Form' button, a 'Query Logic Box' at the bottom left, and a main data table on the right. Red arrows and numbers 1-4 highlight specific elements: 1 points to the form title, 2 to the short name 'BSI18', 3 to the 'MAIN' repeatable group, and 4 to the 'ASSOCIATED GUID' column.

ROW NO.	STUDY ID	DATASET	GUID	ASSOCIATED GUID
1	205	FITBIR-DATA0000314	TBIDEMO_INVXA03	
2	205	FITBIR-DATA0000314	TBIDEMO_INVTL28	
3	205	FITBIR-DATA0000314	TBIDEMO_INVTR32	
4	205	FITBIR-DATA0000314	TBIDEMO_INVXA10	
5	205	FITBIR-DATA0000314	TBIDEMO_INVXA92	
6	205	FITBIR-DATA0000314	TBIDEMO_INVXA10	
7	205	FITBIR-DATA0000314	TBIDEMO_INVZG18	
8	205	FITBIR-DATA0000314	TBIDEMO_INVTR32	
9	205	FITBIR-DATA0000314	TBIDEMO_INVBL61	
10	205	FITBIR-DATA0000314	TBIDEMO_INVTL28	
11	205	FITBIR-DATA0000314	TBIDEMO_INVXA03	
12	205	FITBIR-DATA0000314	TBIDEMO_INVKY56	
13	205	FITBIR-DATA0000314	TBIDEMO_INVKY56	
14	205	FITBIR-DATA0000314	TBIDEMO_INVXA92	
15	205	FITBIR-DATA0000314	TBIDEMO_INVXB14	
16	205	FITBIR-DATA0000314	TBIDEMO_INVBL61	

3. There are additional capabilities that allow the user to change the view of the data and to explore the data which include the following:

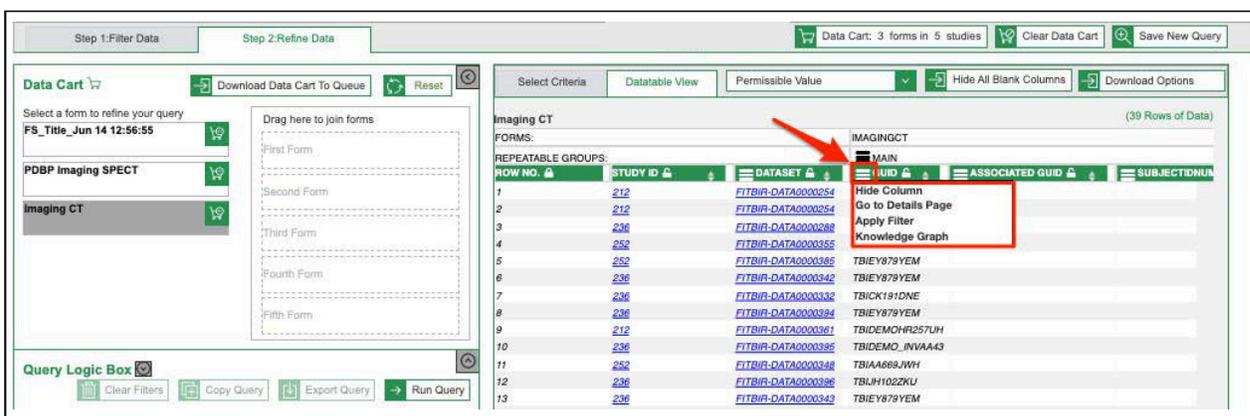
- a. Change the permissible values to: (1) Permissible Value, (2) Permissible Value Descriptions, (3) Output Code.

Note: If the data is downloaded, it will appear in the currently selected permissible value format.



- b. View the data element information by clicking on the hamburger menu of the Data Element and click on “Go to Details Page”. The pop-up box will display the attributes of the data element.

View of the menu of the GUID Data Element:



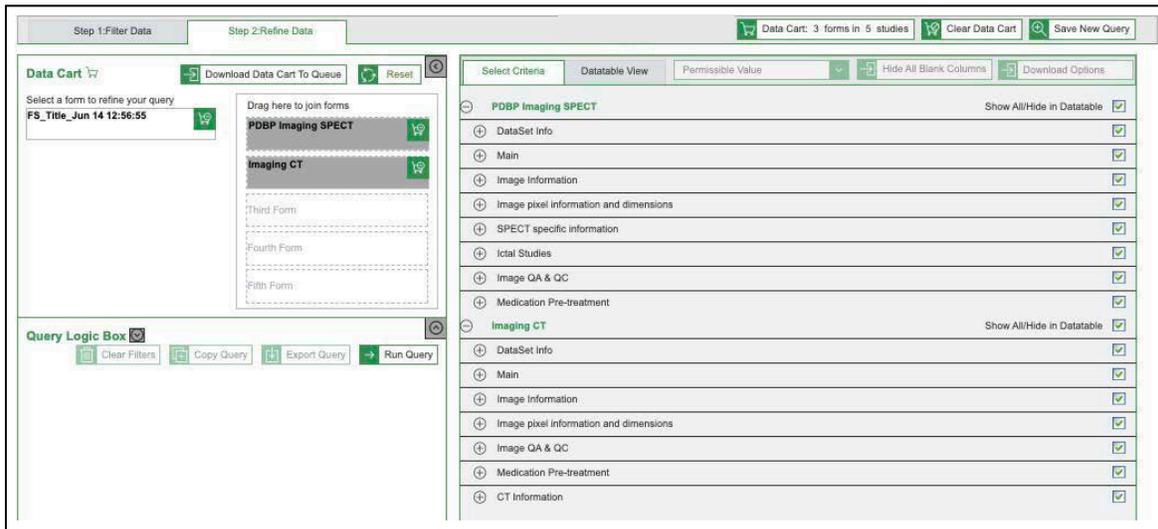
The details page for the GUID Data Element:

Common Data Element: GUID	
Status: Published	Data Type: GUID
Variable Name: GUID	Input Restrictions: Free-Form Entry
Definition: Global Unique ID (GUID) which uniquely identifies a subject	Mapping to external dictionaries
Guidelines & Instructions: Enter a unique GUID	
References: Johnson, S.B., Whitney, G., McAuliffe, M., Wang, H., McCreedy, E., Rozenblit, L., and Evans, C.C. (2010). Using Global Unique identifiers to link autism collections. J. Am. Med. Inform. Assoc., in press. Published online July 17, 2010. 10.1136/jamia.2009.002063.	
Preferred Question Text: Global Unique ID (GUID) which uniquely identifies the subject.	
Notes: CDISC variables: USUBJID. For more information, refer to https://wiki.cdisc.org/display/SDTMIG33/Subject+Visits	
Population: Adult and Pediatric	

Join Forms

The Query Tool allows the user to conduct a Full Outer Join on the GUID up to 5 forms (within a study and across studies). This allows data associated with the same GUID to be unified across multiple forms.

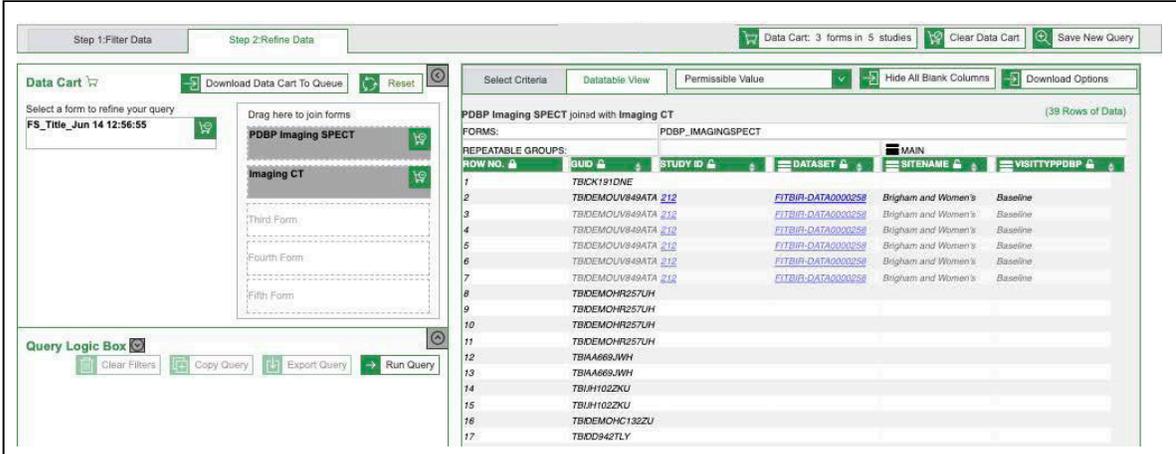
1. Drag the forms to the Join Box. Immediately, the Select Criteria will appear with the form structures and associated data elements to refine the data.



The screenshot displays the Query Tool interface. At the top, it shows 'Step 1: Filter Data' and 'Step 2: Refine Data'. The 'Data Cart' section contains a single entry: 'FS_Title_Jun 14 12:56:55'. The 'Join Box' section is titled 'Drag here to join forms' and contains two items: 'PDBP Imaging SPECT' and 'Imaging CT'. Below the join box is a 'Query Logic Box' with buttons for 'Clear Filters', 'Copy Query', 'Export Query', and 'Run Query'. The 'Datatable View' section shows a list of criteria for the selected forms. For 'PDBP Imaging SPECT', the criteria are: DataSet Info, Main, Image Information, Image pixel information and dimensions, SPECT specific information, Ictal Studies, Image QA & QC, and Medication Pre-treatment. For 'Imaging CT', the criteria are: DataSet Info, Main, Image Information, Image pixel information and dimensions, Image QA & QC, Medication Pre-treatment, and CT Information. Each criterion has a checkbox to show or hide it in the Datatable.

- Click on **Run Query** (found in the Query Logic Box section), and the data will appear in the Datable View.

View after running query:



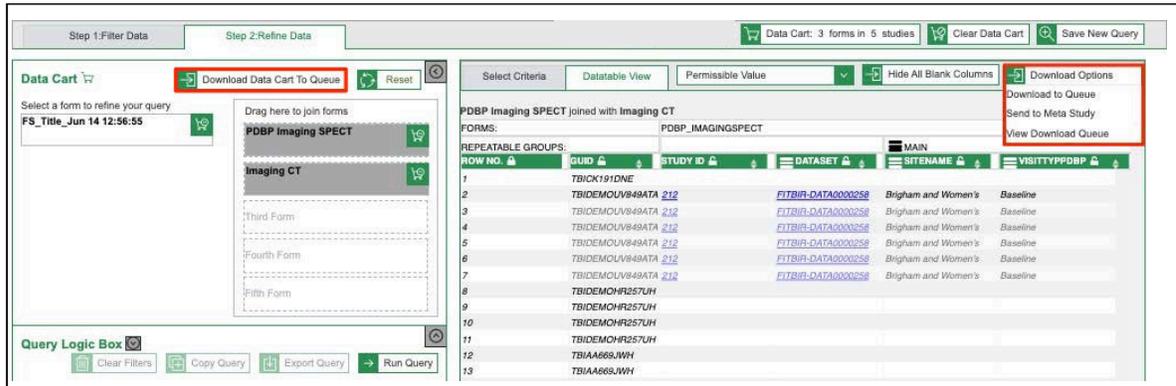
The screenshot shows the BRICS interface after running a query. The 'Data Cart' on the left contains two forms: 'PDBP Imaging SPECT' and 'Imaging CT'. The 'Query Logic Box' at the bottom left has a 'Run Query' button. The main area displays a table with columns: ROW NO., GUID, STUDY ID, DATASET, SITEMAME, and VISITTYPEPDBP. The table contains 17 rows of data, with some GUIDs grayed out. A 'Download Options' menu is visible in the top right corner.

ROW NO.	GUID	STUDY ID	DATASET	SITEMAME	VISITTYPEPDBP
1	TBICK191ONE				
2	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
3	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
4	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
5	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
6	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
7	TBIDEMOUV849ATA	212	PTBIRF-DATA000025E	Brigham and Women's	Baseline
8	TBIDEMOHR257UH				
9	TBIDEMOHR257UH				
10	TBIDEMOHR257UH				
11	TBIDEMOHR257UH				
12	TBIAA669JWH				
13	TBIAA669JWH				
14	TBIU1102ZKU				
15	TBIU1102ZKU				
16	TBIDEMOHC132ZU				
17	TBDD09427LY				

Note: If the GUID is grayed out, it indicates to the user that the data is not in the current form but is in other forms.

- After joining the forms, the data can be downloaded by clicking on **Download Options** and **Download to Queue**.

Note: To download the data separately, choose **Download Data Cart to Queue**.



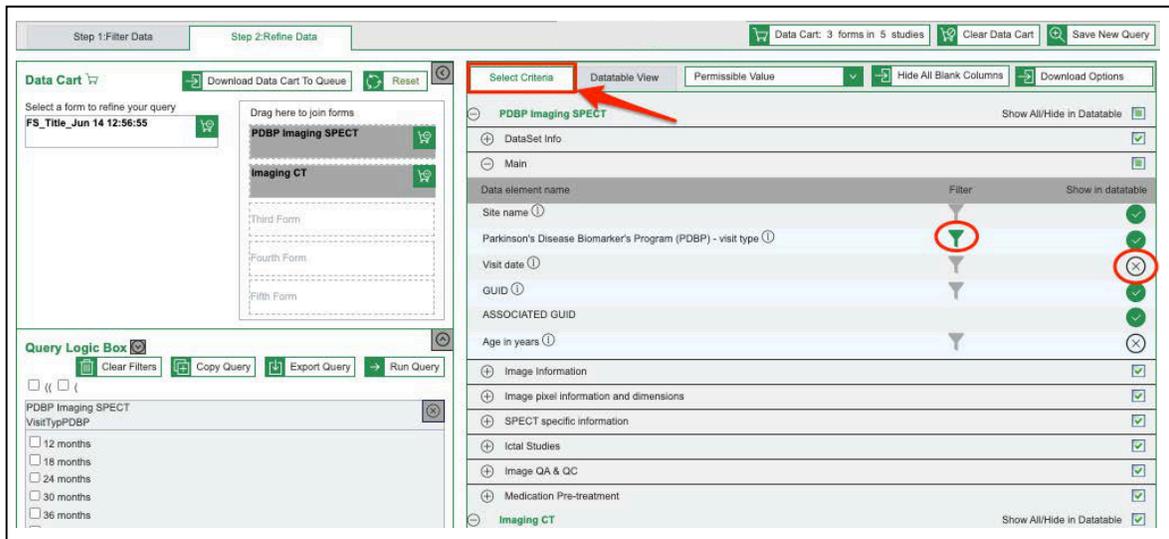
The screenshot shows the BRICS interface with the 'Download Options' menu open. The 'Download Data Cart to Queue' button in the 'Data Cart' section and the 'Download Options' menu in the top right corner are highlighted with red boxes. The 'Download Options' menu includes 'Download to Queue', 'Send to Meta Study', and 'View Download Queue'.

SECTION 7.3: REFINE THE DATA

The Query Tool allows users to refine the data by using both the Select Criteria Section and the Query Logic Box. The Query Tool is designed to conduct advanced Boolean searches.

The advance Boolean search allows users to use “AND,” “NOT” and “OR” to link multiple queries.

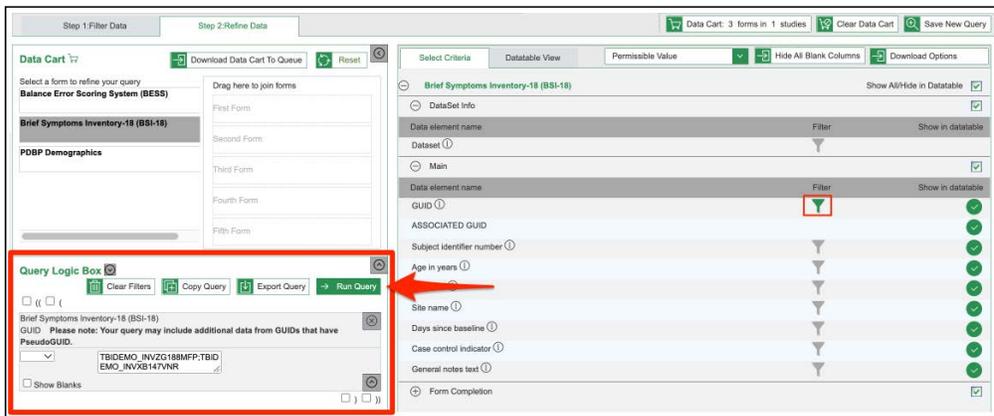
1. To use the refine features of the **Query Tool**, choose data elements to apply a filter to. This process can be done in the **Select Criteria** view or the **Datatable View**.
 - a. In the **Select Criteria** view, select the Filter symbol for the Data Element you wish to be filtered.
 - b. You can remove (or re add) elements by clicking the green check-mark (to remove) or click the x (to add it back in)



The screenshot shows the Query Tool interface in the 'Select Criteria' view. The 'Data Cart' on the left contains 'FS_Title_Jun 14 12:56:55'. The 'Query Logic Box' shows a query for 'PDBP Imaging SPECT' with filters for 'VisitTypPDBP' and 'Visit date' (12, 18, 24, 30, 36 months). The 'Select Criteria' panel on the right lists data elements for 'PDBP Imaging SPECT'. A red arrow points to the 'Select Criteria' tab. In the table, the 'Visit date' row has a red circle around the filter symbol and another red circle around the 'x' icon in the 'Show in datatable' column.

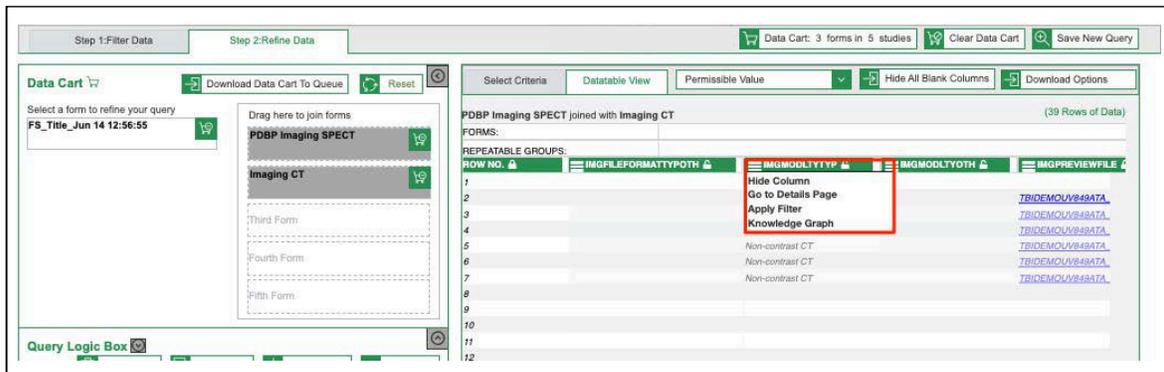
NOTE: If you used the **GUID Search** in **Step 1: Filter Data** then you will see a filter auto added in the Query Logic Box for the GUID(s) you had searched for.

IMPORTANT: Your data will not be filtered by default. Click **Run Query** to filter your data.

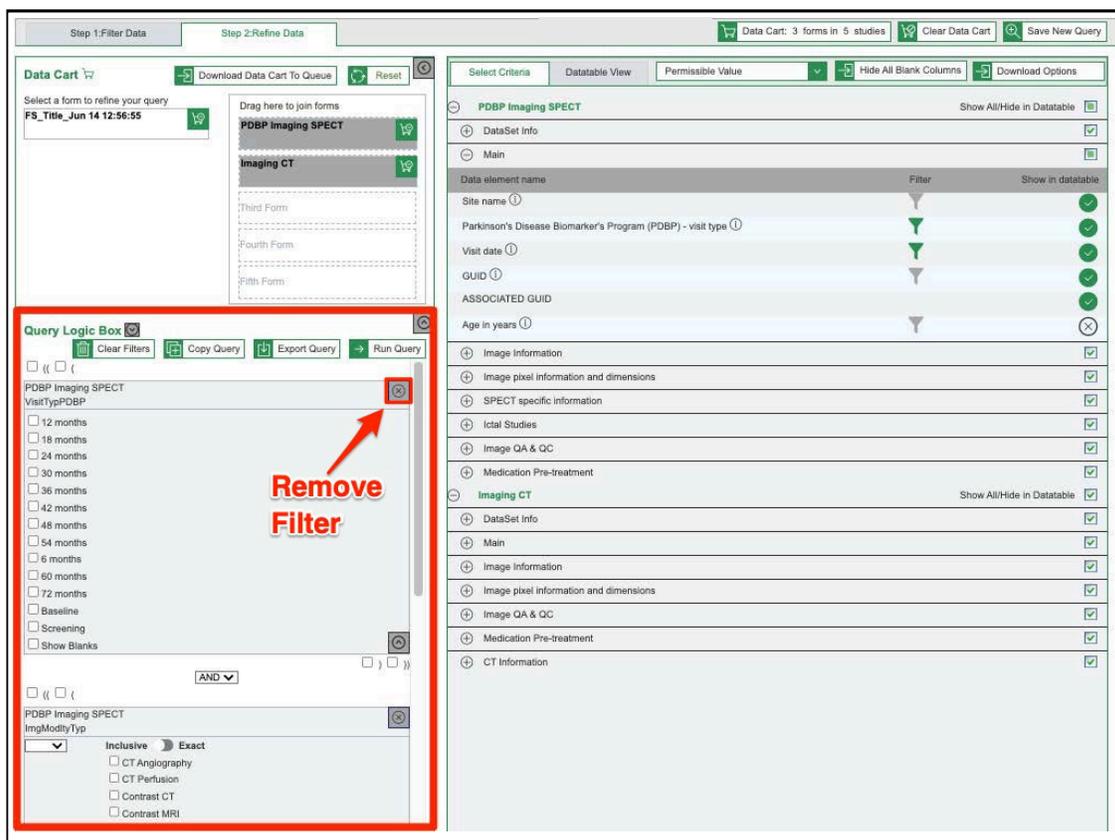


The screenshot shows the Query Tool interface in the 'Select Criteria' view for 'Brief Symptoms Inventory-18 (BSI-18)'. The 'Query Logic Box' is highlighted with a red box and a red arrow points to the 'Run Query' button. The 'Select Criteria' panel shows a table with data elements and filter symbols. The 'GUID' row has a red circle around the filter symbol.

- c. In the Datable View, click on the hamburger menu for a **Data Element** and click on “**Apply Filter**.”

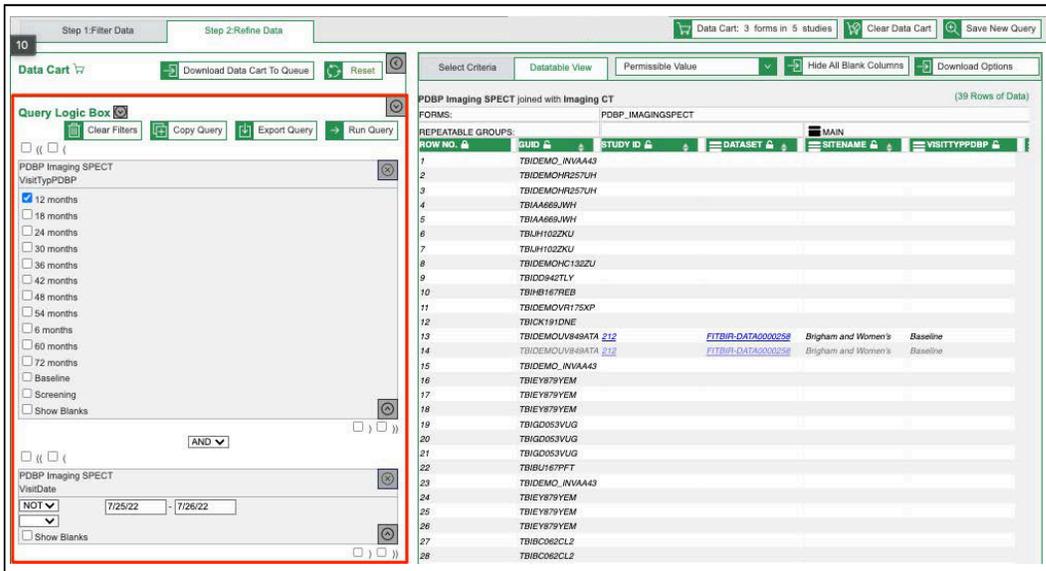


In both cases, the **Data Element** will appear in the **Query Logic Box** on the bottom left:



NOTE: To remove a filter, click the **cancel icon** (circle with an x in it) at the top right of each filter under the **Query Logic Box**.

- Once the Data Elements have been added to the Query Logic, the Boolean capabilities can be applied.



- There are specific Boolean Logic operations that can be applied to each data type:

Data Type	Requirement Type	Boolean Logic
Alphanumeric	<ol style="list-style-type: none"> Single Predefined Multi-Defined Free Form 	OR, NOT, AND
Numeric	<ol style="list-style-type: none"> Single Predefined Multi-Defined Free-From 	OR, NOT, AND NOTE: Ranges can only use: OR, NOT
Date	Free Form	OR, NOT
GUID	Free Form	NOT
File	Free Form	OR, NOT, AND
Thumbnail	Free Form	OR, NOT, AND

Biosample	Free Form	OR, NOT, AND
Tri-Planar	Free Form	OR, NOT, AND

Inclusive/Exact Search

The Inclusive/Exact Search capability is available for the data types: (1) Alphanumeric, (2) Filename, (3) Thumbnail, (4) Biosample, and (5) Tri-planar.

1. By default, the inclusive search is performed for data types with the requirement types Free Form and Multiple Pre-Defined Select.
2. Use the toggle button to switch between the search type.
3. When Inclusive is chosen, the search results will provide all the GUIDs that include the search term. For example, when using the Data Element RaceUSACat, if the user is looking for individuals who are Asian, the results will show all GUIDs for subjects who are Asian, regardless of whether they are also another race as well.
4. When Exact is chosen, the search results will provide all the GUIDs that have only the search term. For example, when using the Data Element RaceUSACat, if the user is looking for individuals who are Asian, the results will only show GUIDs for subjects who are only identified as Asian and not any other race in addition to that.

MultiRace

The RaceUSACat Data Element has the option to show GUIDs with multiple races.

1. Choose the Data Element RaceUSACat to be filtered.
2. In the Query Logic Box, scroll down to the “Show multirace Data” box.
3. Click on the “Show multirace Data” box and then Run Query, and all GUIDs with multiple races will appear.

NOTE: Inclusive/Exact Search and MultiRace is not available in all BRICS instances.

Using parentheses in the Query Logic box.

You can use parentheses to do more complicated queries such as the following example (photos on next page):

We want subjects with a family income range of \$100,000+ **AND**

(they have at least a masters degree

OR

they were a company grade officer.)

(((

FITBIR Demographics Form
 FmlyIncRange

- \$100,000 and over (1)
- \$15,000 to \$24,999 (0)
- \$25,000 to \$34,999 (0)
- \$35,000 to \$49,999 (0)
- \$50,000 to \$74,999 (0)
- \$75,000 to \$99,999 (2)
- Refused (0)
- Under \$15,000 (0)
- Unknown (0)
- Show Blanks (0)

) ;

AND ▾

(((

FITBIR Demographics Form
 EduLvUSATyp

- 10th Grade
- 11th Grade
- 12th Grade, no diploma
- 1st Grade
- 2nd Grade
- 3rd Grade
- 4th Grade
- 5th Grade
- 6th Grade
- 7th Grade
- 8th Grade
- 9th Grade
- Associate degree: academic program
- Associate degree: occupational/technical/vocational program
- Bachelor's degree (e.g., BA, AB, BS, BBA)
- Doctoral degree (e.g., PhD, EdD)
- GED or equivalent
- High school graduate
- Master's degree (e.g., MA, MS, MEng, MEd, MBA)
- Never attended/Kindergarten only
- Other, specify
- Professional school degree (e.g., MD, DDS, DVM, JD)
- Some college, no degree
- Unknown
- Show Blanks

) ;

OR ▾

(((

FITBIR Demographics Form
 MilRnkCat

- Company grade officer
- Enlisted
- Field grade officer or above
- Non-commissioned officer
- Other, specify
- Warrant officer
- Show Blanks

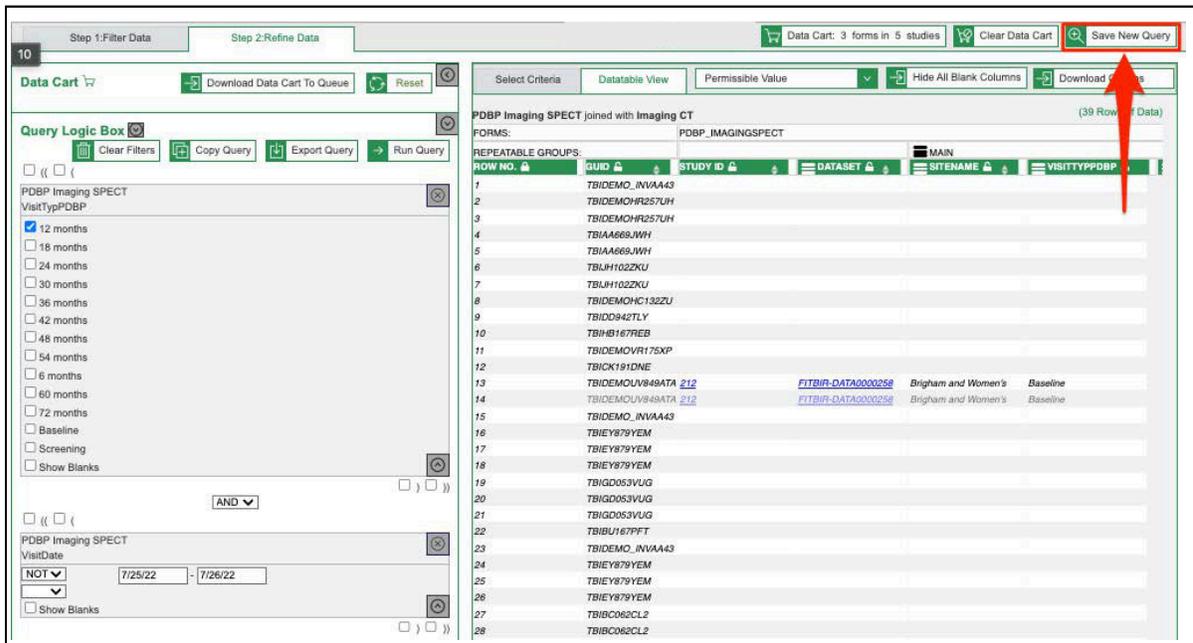
) ;

SECTION 7.4: SAVE QUERY

Create a Defined Query

After refining the data using the filter capabilities, users are able to save the query, which can be stored in both Meta Study and Query Tool.

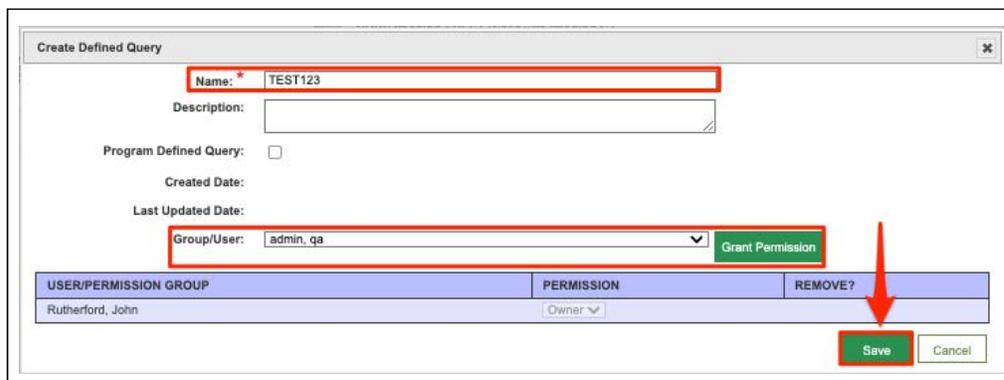
1. To save a Query to the Query Tool, click on the **Save New Query** button.



The screenshot shows the Query Tool interface with the following elements:

- Step 1: Filter Data** / **Step 2: Refine Data** tabs.
- Data Cart**: 3 forms in 5 studies. Buttons: Download Data Cart To Queue, Reset.
- Query Logic Box**: Contains filters for 'PDBP Imaging SPECT' and 'VisitTypPDBP'. The '12 months' filter is selected. Buttons: Clear Filters, Copy Query, Export Query, Run Query.
- Table View**: Shows a list of data rows with columns: ROW NO., GUID, STUDY ID, DATASET, SITENAME, VISITTYPEPDBP. A red arrow points to the 'Save New Query' button in the top right corner.

2. The Save New Query will provide a pop-up box to provide information for the query: (1) **Name for Query**, (2) **Description for Query**, and (3) **Users to grant permission access to the Query**.

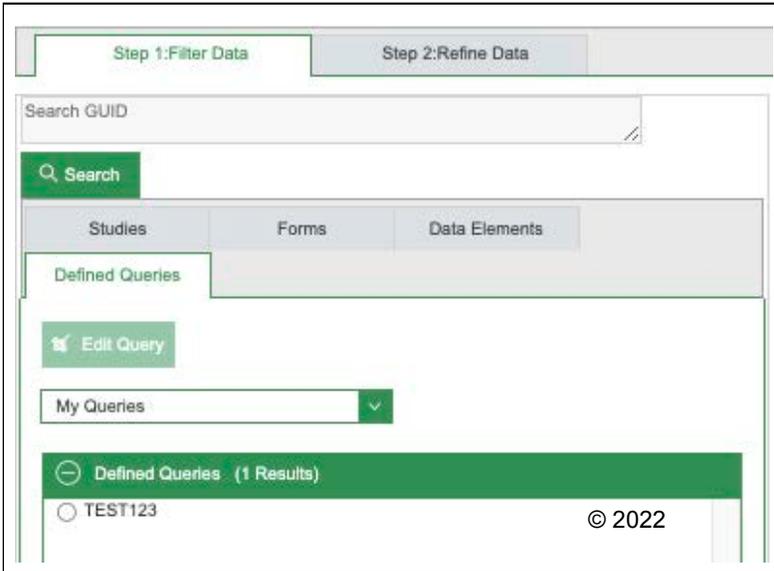


The 'Create Defined Query' dialog box contains the following fields and controls:

- Name:** * TEST123 (highlighted with a red box)
- Description:** (empty text area)
- Program Defined Query:**
- Created Date:** (empty)
- Last Updated Date:** (empty)
- Group/User:** admin_ga (dropdown menu, highlighted with a red box)
- Grant Permission:** (button, highlighted with a red box)
- Table:**

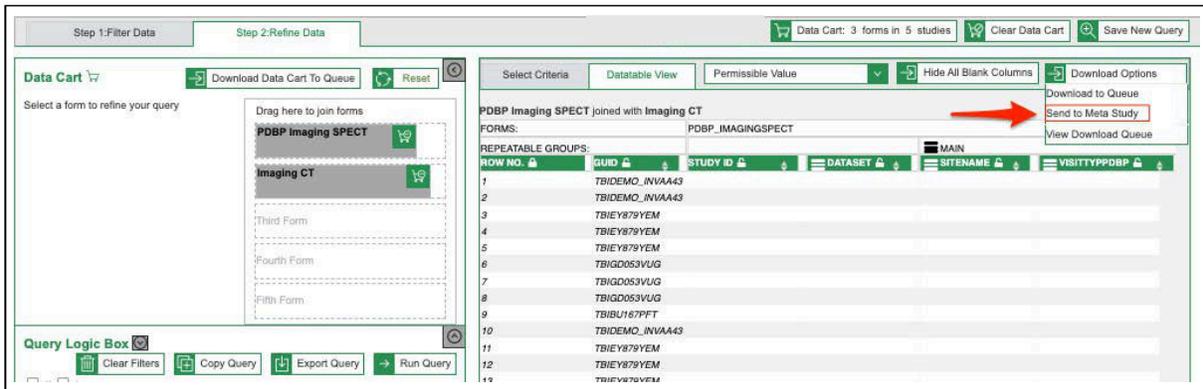
USER/PERMISSION GROUP	PERMISSION	REMOVE?
Rutherford, John	Owner	
- Buttons:** Save, Cancel

- Once you have saved a new query, you can find it under **Step 1: Filter Data > Defined Queries > My Queries**



Save Query to Meta Study

- To save a Query to the Meta Study, hover over Download Options, and click on Send to Meta Study.



- Once the Send to Meta Study is clicked, a pop-up box will appear to provide information about the Query. Complete the information in the pop-up box then click Save.

Note: The user should create a Meta Study before saving a Query.

Send to Meta Study ✕

Send the query, datatable results, or both to the meta study

	Meta Study Title	Description
<input type="radio"/>	Rohit 3	ROhit 3
<input type="radio"/>	Preclinical CDE proof of concept large animals datasets	Preclinical CDE working group in collaboration with the NINDS and DoD, has created a first set of preclinical common data elements (CDEs) to be used in preclinical TBI research studies aiming to develop better treatments for TBI and comorbidities.
<input type="radio"/>	Preclinical small animals unharmonized righting reflex data	Preclinical small animals unharmonized righting reflex data.
<input checked="" type="radio"/>	test7878	123

Save query filters to meta study: Yes No

Saved Query Name*

Description:

Save filtered data file to meta study: Yes No

Data File Name*

Description*

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