

Creating a Query in the Query View

This section describes the process of adding items to the query tool, "AND" / "OR" operators and setting constraints.

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Creating the Query

In order to create your query, you will need to define what information will be retrieved from the databases. Selected items from other i2b2 Web Client views can be dragged and dropped (copied) into the Query Tool view. Below is a list of the various items that can be dragged and dropped in to the Query Tool as you create your query:

Concepts and Concept Folders

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Previous Queries

Patients and Patient Sets

Encounter Sets

To Create a query, locate the item or items that you would like to query from the Terms Panel, Workplace or Previous Queries. Drag these items in to a Group Panel.

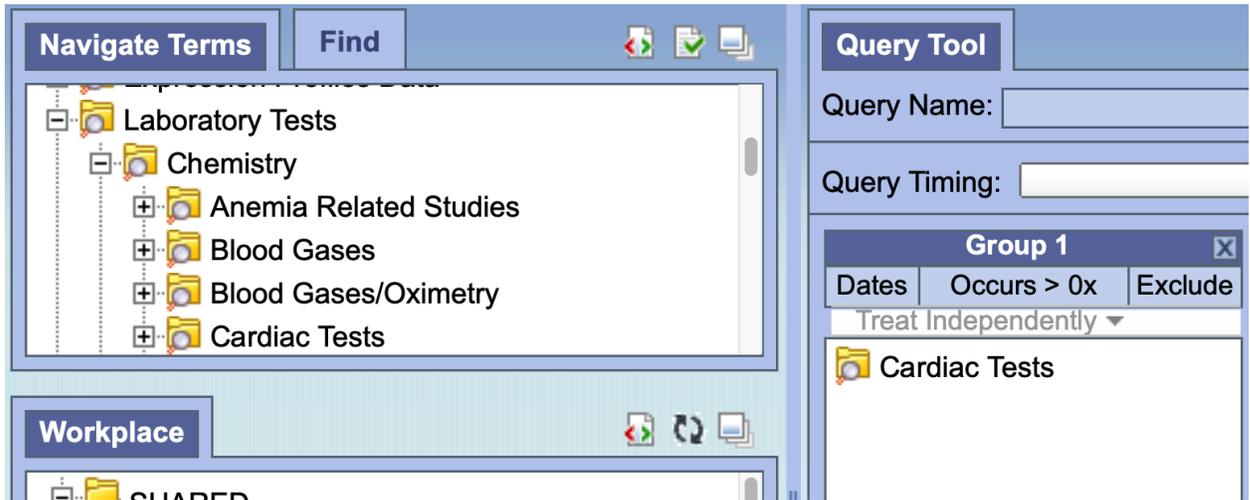
Select a Folder or Item.

For example, From Navigate Terms Panel (#1) select Laboratory Tests and then Chemistry

Grab "Cardiac Tests" and drag over

And drop it in to panel "Group 1".

This Group 1 Panel now contains the term that will be used during the process of querying the database.

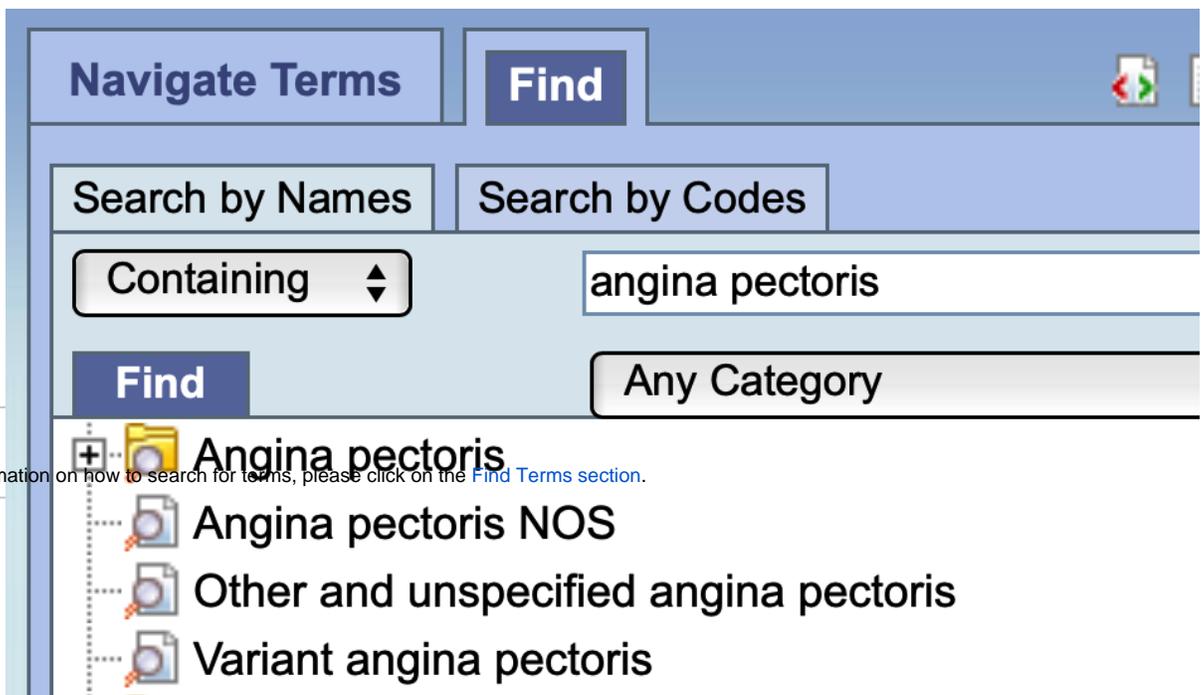


Find Terms View

The Find Terms view provides a way to search for a particular concept.

NOTE:

For detailed information on how to search for terms, please click on the [Find Terms](#) section.



Add Concept From Find Terms View

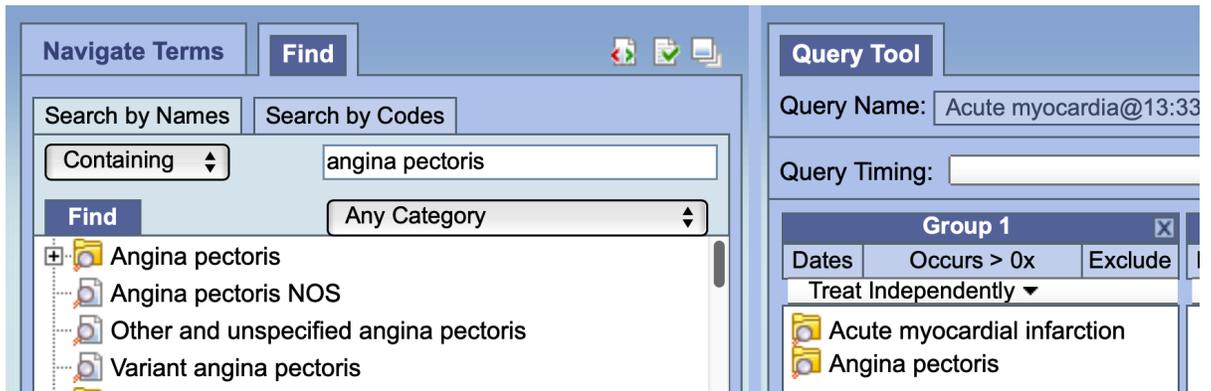
In the Find Terms view, search for the item(s) you want to add.

Highlight the concept or folder by clicking on its name.

While holding the left mouse button down, drag the item over to the Query Tool view

Drop the item into the panel labeled Group 1.

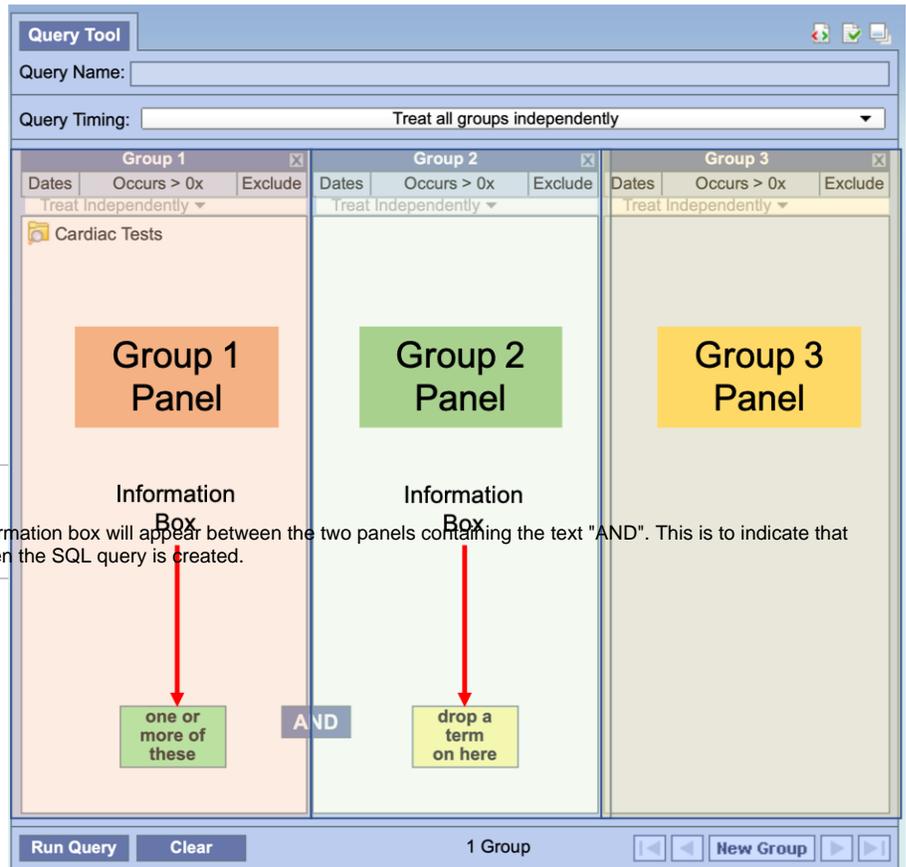
The item will now display in the panel for Group 1.



Group Information Box

The content of the information box for each Group Panel will change depending on whether or not a term is listed in the panel / group.

- Term(s) listed (See Group 1)
 - The message will appear as "one or more of these"
 - The color of the box will be green
 - An additional information box will appear between panels
 - Additional terms or folders can now be dragged to this Panel
- No term(s) listed (See Group 2)
 - The message will appear as "drop a term on here"
 - The color of the box will be yellow



NOTE:

Once you add an item to a panel, an additional information box will appear between the two panels containing the text "AND". This is to indicate that each panel will be joined with an AND operator when the SQL query is created.

Operators

There are two operators, known as SQL Logical Operators, which are necessary when running a query that has more than one item. These operators provide a way to specify exactly what you want to retrieve. The operators are the 'AND' and 'OR' operators.

IMPORTANT:

The query tool knows which operator to use based on the panels used when defining the query. It is important to verify you are setting up your query correctly as each operator will return different results.

The AND Operator

The AND operator returns a record if both the first condition and the second conditions are true. The query tool uses the AND operator when concepts are listed in different Group panels.

The screenshot shows a 'Query Tool' window. At the top, the 'Query Name' is 'Acute m-Angina @13:32:03'. Below it, the 'Query Timing' is set to 'Non-Temporal Query: Treat Independently'. The main area is divided into three groups: Group 1, Group 2, and Group 3. Group 1 contains 'Acute myocardial infarction', Group 2 contains 'Angina pectoris', and Group 3 is empty. The groups are connected by 'AND' operators. Below the groups, there are green boxes labeled 'one or more of these' and a yellow box labeled 'drop a term on here'. At the bottom, there are buttons for 'Run Query', 'Clear', and 'New Group'. Below the main area, there are tabs for 'Show Query Status', 'Graph Results', and 'Query Report'. The 'Graph Results' tab is active, showing a bar chart with the title 'Number of patients' and a value of '3'. Below the bar chart, it says 'For Query Acute m-Angina @13:32:03"'. On the left side, there is a search bar with 'Angina pectoris' and a list of search results. At the bottom left, there is a 'Find' section with a list of search results.

Example:

WHAT: Return only those patients who have Acute Myocardial Infarction AND Angina Pectoris.

HOW: In the query tool add the concept Acute Myocardial Infarction to Group 1 and then add the concept Angina Pectoris to Group 2.

RESULT: The population is limited by requiring the patients fulfill both requirements. In this case using a sample database, there were only 3 patients who had BOTH conditions.

OR Operator

The screenshot shows a medical query tool interface. On the left, there is a search panel with a text input containing "angina pectoris" and a dropdown menu set to "Any Category". Below this, a list of search results is visible, including "Acute myocardial infarction" and "Angina pectoris".

The main area is the "Query Tool" window. It has a title bar "Query Tool" and a "Query Name" field containing "Acute myocardia@13:33:05". Below that, the "Query Timing" is set to "Non-Temporal Query: Treat Independently". The tool is divided into two groups, "Group 1" and "Group 2", each with columns for "Dates", "Occurs > 0x", and "Exclude". Group 1 contains "Acute myocardial infarction" and "Angina pectoris". Group 2 is empty. An "AND" operator is positioned between the two groups. A green box on the left says "one or more of these" and a yellow box on the right says "drop a term on here".

At the bottom of the query tool, there are buttons for "Run Query" and "Clear", and a status indicator showing "1 Group". Below the query tool, there are buttons for "Show Query Status", "Graph Results", and "Query Report".

The bottom panel shows the results of the query. It has a title "Number of patients" and a large blue number "9". Below the number, it says "For Query Acute myocardia@13:33:05".

The OR operator returns a record if either the first condition or the second conditions are true.

The query tool uses the OR operator when concepts are listed in different panels.

Example:

WHAT: Return only those patients who have Acute Myocardial Infarction OR Angina Pectoris.

HOW: In the query tool add both concepts Acute Myocardial Infarction and Angina Pectoris to Group 1.

RESULT: The population is broadened to include all patients who fit EITHER one of those criteria. In the sample database, this increased the total to 9 patients who had either condition.

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