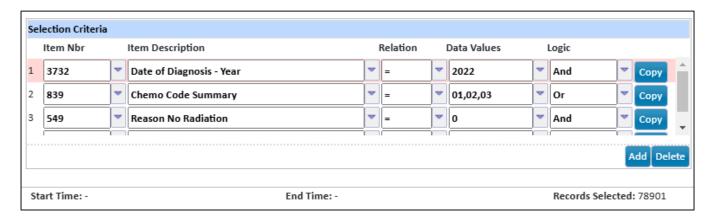
## CRStar Insights Creating Subpopulations With "Or" Logic

Using "And" and "Or" logic options within a single **Select a Population** may produce skewed results and include cases that the report writer did not intend. For some report requests, it is necessary to create a population and then use a subpopulation to include the requested "Or" logic. This Insight will show users how to properly use "Or" logic using <u>subpopulations</u>.

In our example, we have a request for all cases diagnosed in 2022 who received chemo and/or radiation. Users may be tempted to use the following logic in their report:



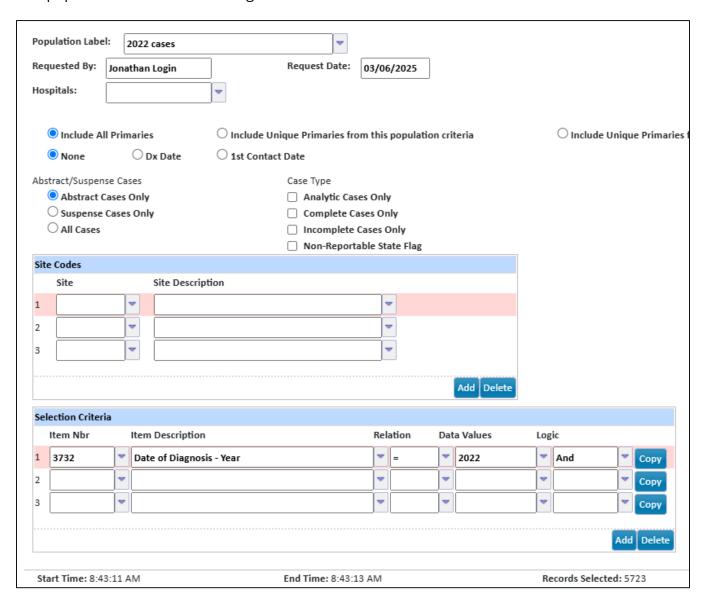
This logic will produce results; however, it will provide <u>all</u> cases diagnosed in 2022 who received chemo, and <u>all</u> cases receiving radiation, regardless of year of diagnosis. This is not what had been requested.

To capture cases diagnosed in 2022 only, who had chemo or radiation, <u>a subpopulation must be</u> used.



## **Create the Original Select a Population**

This population show all cases diagnosed in 2022:

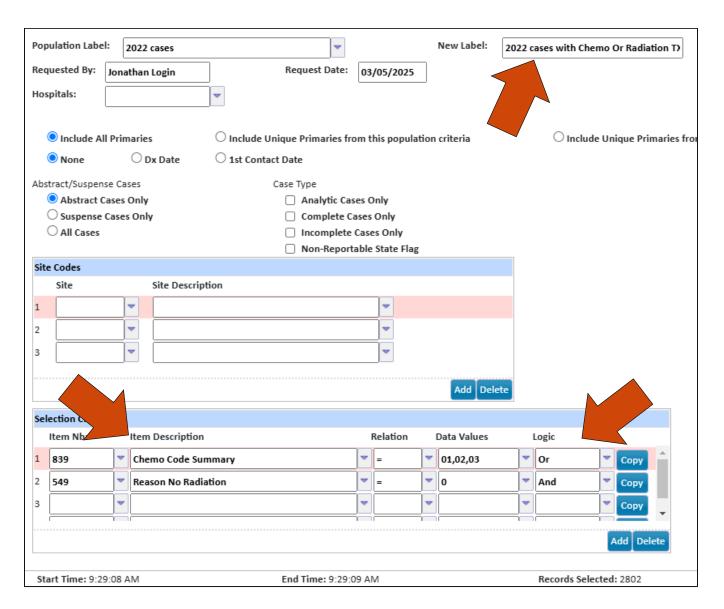


## **Create the Subpopulation**

To create a subpopulation, users will need to:

- 1. Click New.
- 2. Search for the original population.
- 3. Enter a new label in the "New Label" field.
- 4. Adjust the logic in the report to look for chemo and/or radiation treatment for the 2022 diagnosed cases selected in the original report.





Please note: In the example above, a new label was entered, the previous logic was removed, and new logic using a line of "Or" logic has been added. Our first population showed 5,723 cases, but our subpopulation shows that 2,802 of those 5,723 cases diagnosed in 2022 received chemo <u>OR</u> RT (patients receiving both are also included).

## IMPORTANT: If Changes to the Subpopulation are Required After the Initial Selection:

<u>Do **not**</u> use the subpopulation. Using the subpopulation will run the report as a new population that no longer only selects cases from the previous population.

In this situation, users will need to go back to the original population to create a new subpopulation.

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