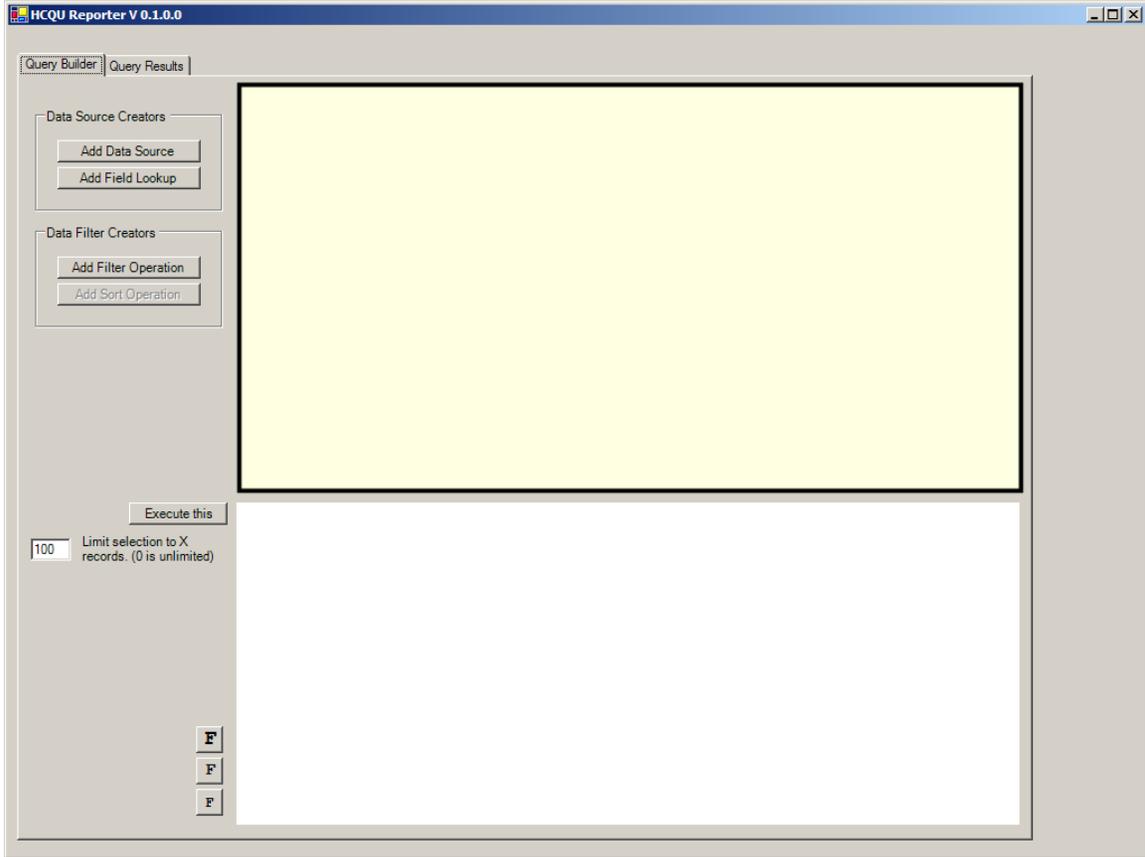
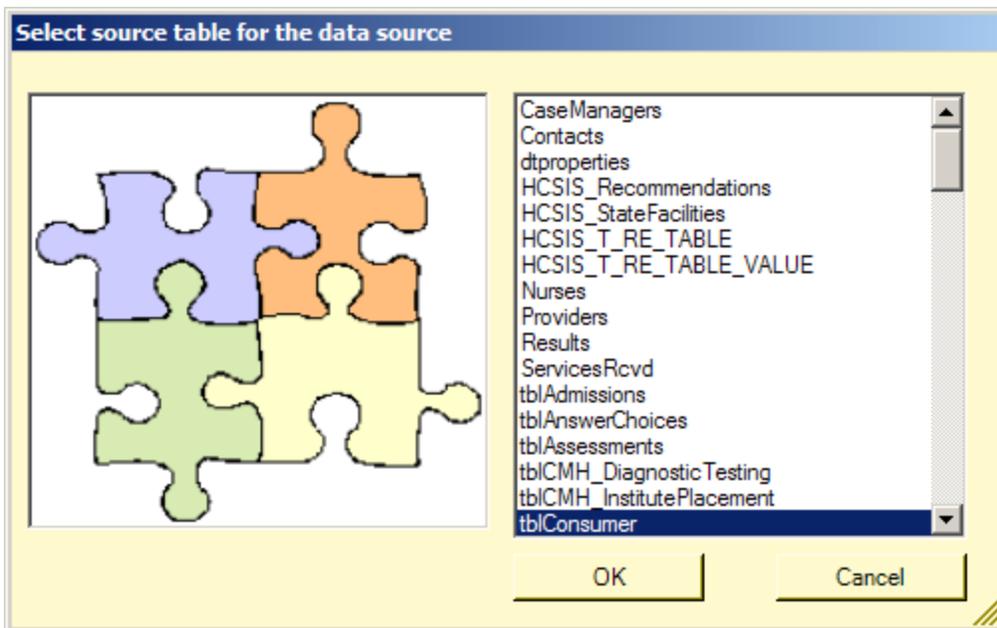


HCQU reporter (a generic complex SQL statement generator and GUI)

Main screen



Adding a data source to start with



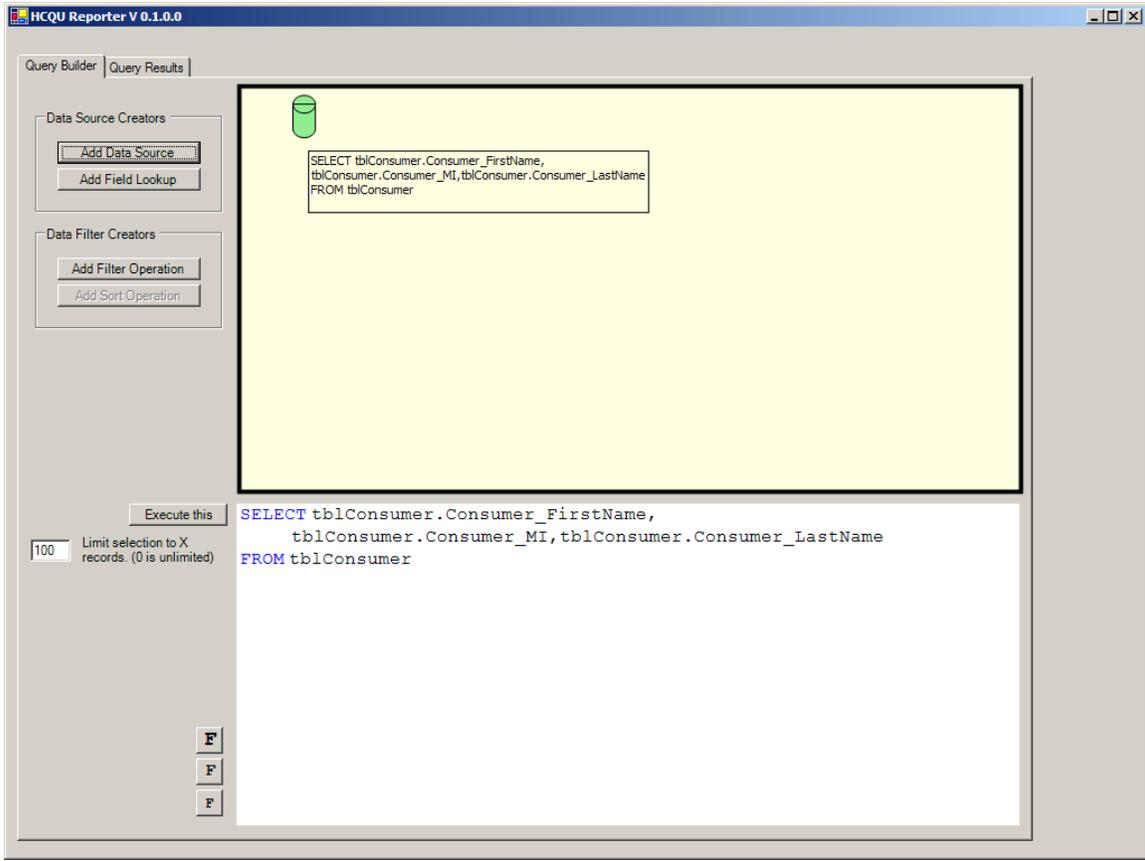
You then get to pick what fields from the base data source you want to include in your query. (Here I have picked the name fields)

Select the Desired Fields

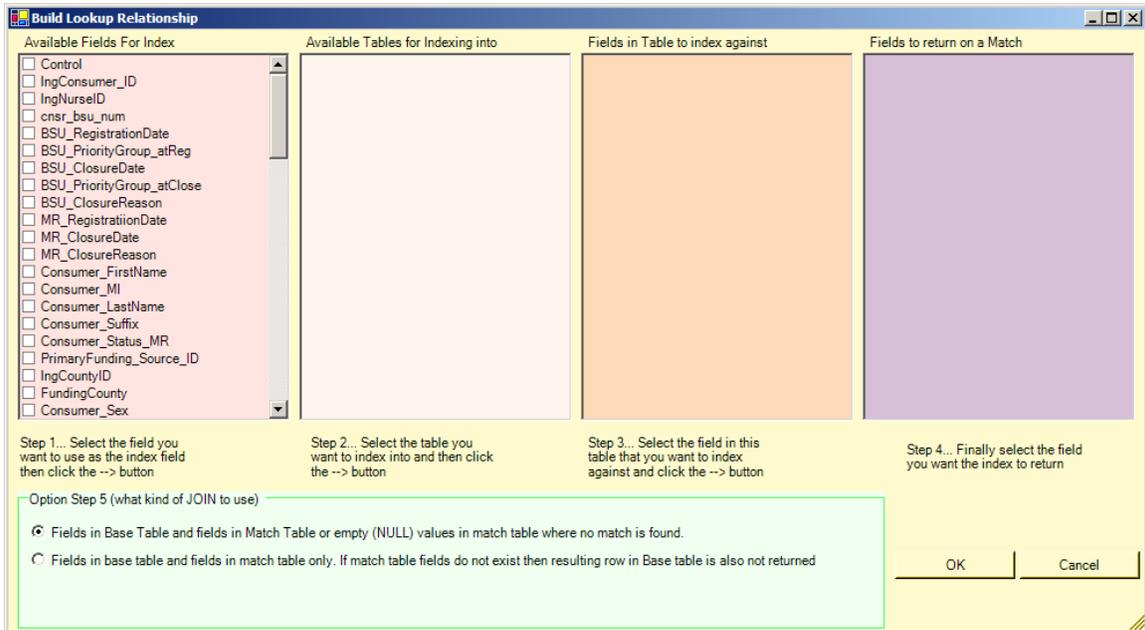
<input type="checkbox"/> Control	<input type="checkbox"/> Consumer_Ethnicity	<input type="checkbox"/> CerebralPa
<input type="checkbox"/> IngConsumer_ID	<input type="checkbox"/> Consumer_DOB	<input type="checkbox"/> BrainInjury
<input type="checkbox"/> IngNurseID	<input type="checkbox"/> ConsumerAddress	<input type="checkbox"/> Chemical
<input type="checkbox"/> cnsr_bsu_num	<input type="checkbox"/> ConsumerApartment	<input type="checkbox"/> DisabilityOt
<input type="checkbox"/> BSU_RegistrationDate	<input type="checkbox"/> ConsumerAddress3	<input type="checkbox"/> VisionLeve
<input type="checkbox"/> BSU_PriorityGroup_atReg	<input type="checkbox"/> ConsumerCity	<input type="checkbox"/> LegalStatu
<input type="checkbox"/> BSU_ClosureDate	<input type="checkbox"/> ConsumerState	<input type="checkbox"/> MaritalStat
<input type="checkbox"/> BSU_PriorityGroup_atClose	<input type="checkbox"/> ConsumerZIP	<input type="checkbox"/> AdmitDate
<input type="checkbox"/> BSU_ClosureReason	<input type="checkbox"/> CaseManagerID	<input type="checkbox"/> ysnInsuran
<input type="checkbox"/> MR_RegistratiionDate	<input type="checkbox"/> IngBSU_Primary	<input type="checkbox"/> sysEnterDa
<input type="checkbox"/> MR_ClosureDate	<input type="checkbox"/> IngBSU_Secondary	<input type="checkbox"/> sysUser
<input type="checkbox"/> MR_ClosureReason	<input type="checkbox"/> CISNumber	<input type="checkbox"/> sysUpdate
<input checked="" type="checkbox"/> Consumer_FirstName	<input type="checkbox"/> MANumber	<input type="checkbox"/> IngCtyCons
<input checked="" type="checkbox"/> Consumer_MI	<input type="checkbox"/> SSNumber	<input type="checkbox"/> ysnMoved
<input checked="" type="checkbox"/> Consumer_LastName	<input type="checkbox"/> MedicareNumber	<input type="checkbox"/> bdtMovedF
<input type="checkbox"/> Consumer_Suffix	<input type="checkbox"/> InsuranceID	<input type="checkbox"/> bdtWhenMi
<input type="checkbox"/> Consumer_Status_MR	<input type="checkbox"/> Residential_Provider_Name	<input type="checkbox"/> tsTimeStar
<input type="checkbox"/> PrimaryFunding_Source_ID	<input type="checkbox"/> Primary_Communication	<input type="checkbox"/> ysnLockec
<input type="checkbox"/> IngCountyID	<input type="checkbox"/> Mobility_Level	<input type="checkbox"/> bdtLockec
<input type="checkbox"/> FundingCounty	<input type="checkbox"/> ConsumerMR_Level	<input type="checkbox"/> dtmLockec
<input type="checkbox"/> Consumer_Sex	<input type="checkbox"/> Psychiatric	<input type="checkbox"/> bdtConsum
<input type="checkbox"/> Consumer_Race	<input type="checkbox"/> Autism	<input type="checkbox"/> cnsr_res_s

ALL NONE Ok Cancel

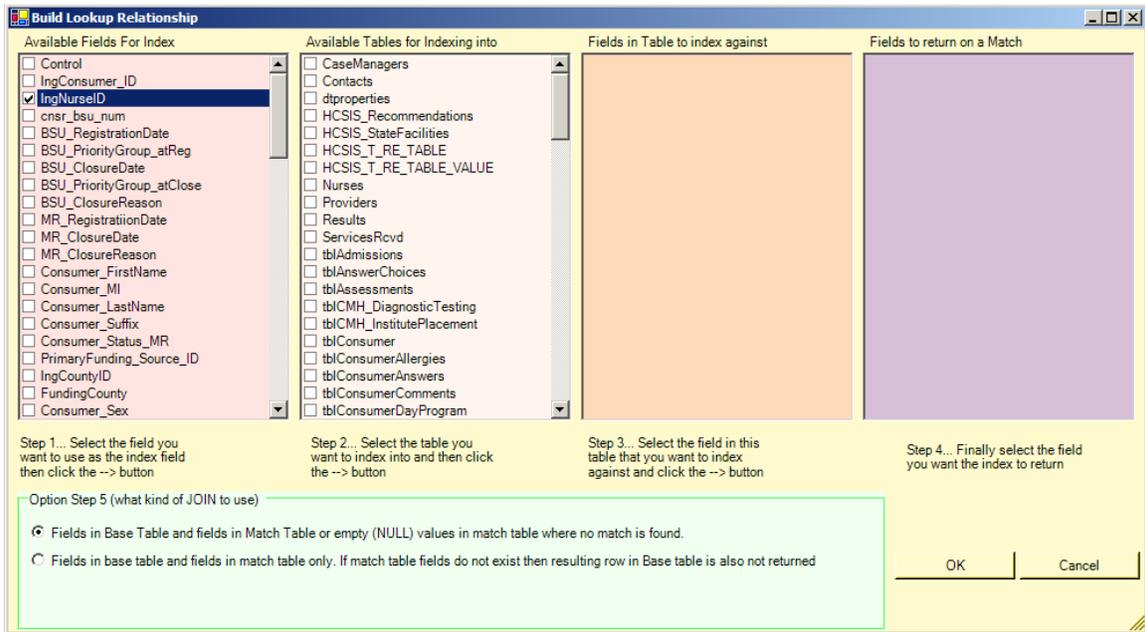
Now the data source is added to the canvas and the base selection statement is inserted into the code window



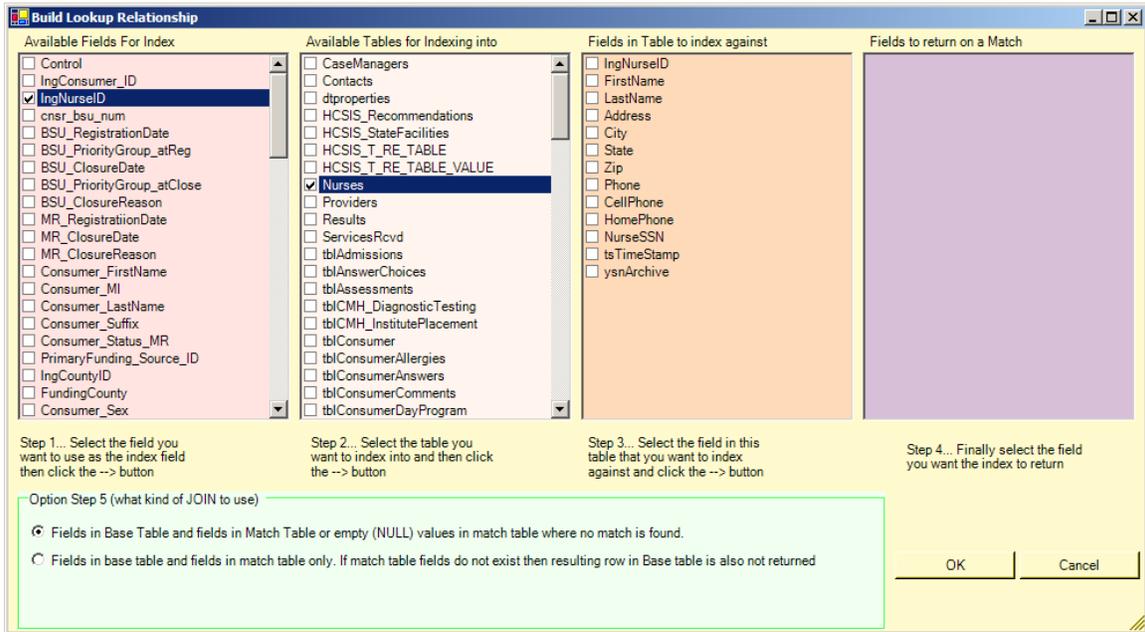
Now I want to associate some of the links in the base table to their corresponding entries in the various lookup tables by adding Field Lookup



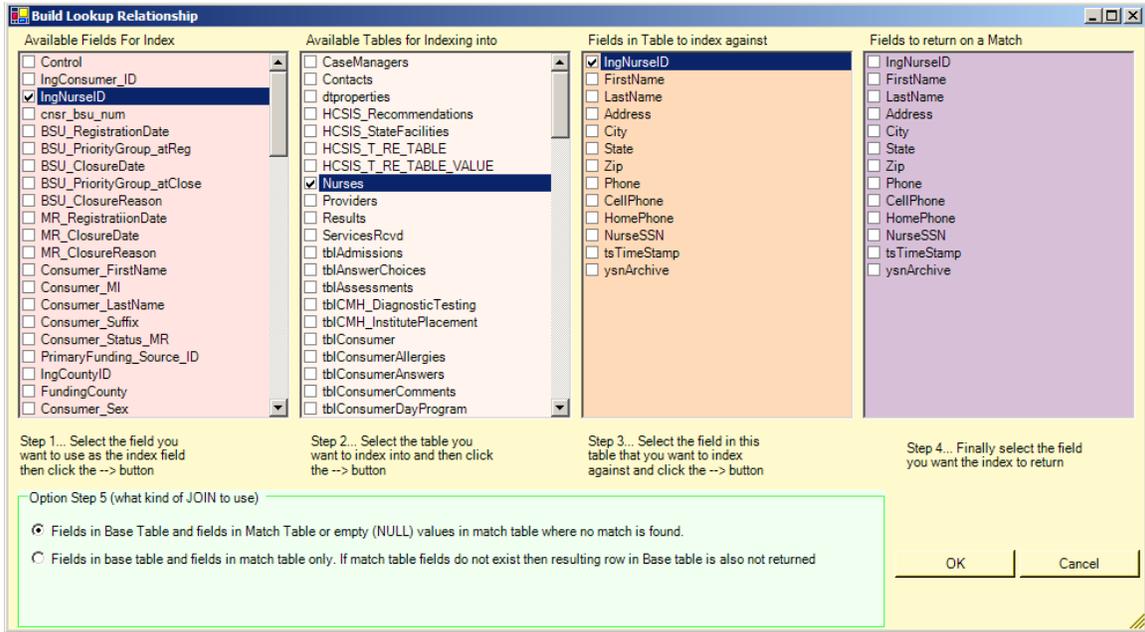
I start by selecting the field from my base table that is index field. (Nurse ID)



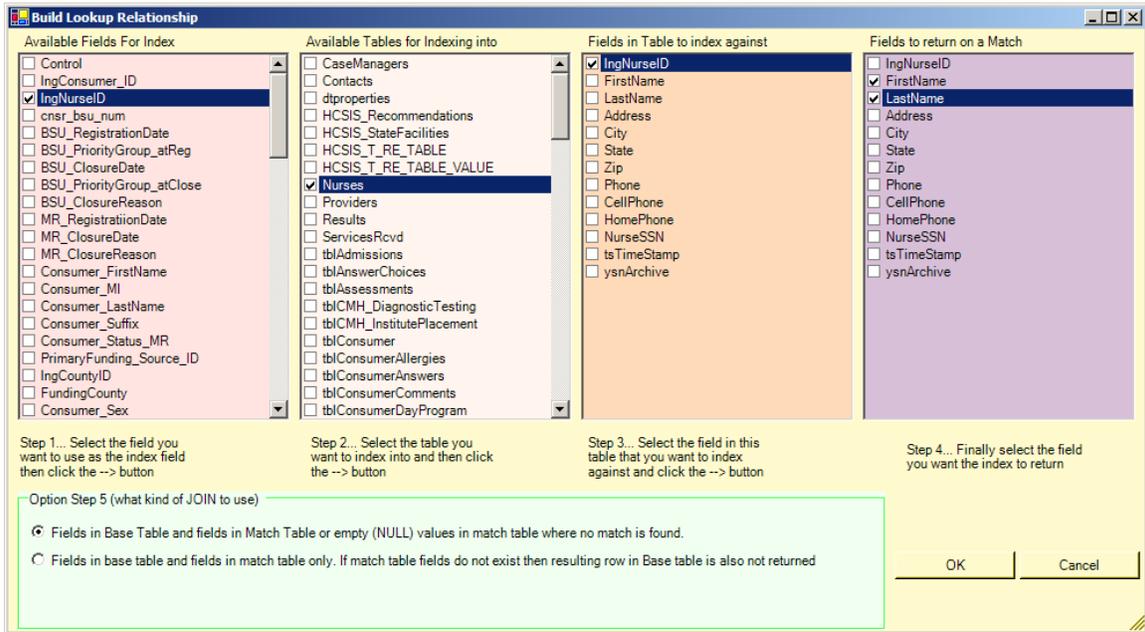
Then I pick the table that this field links into (Nurses)



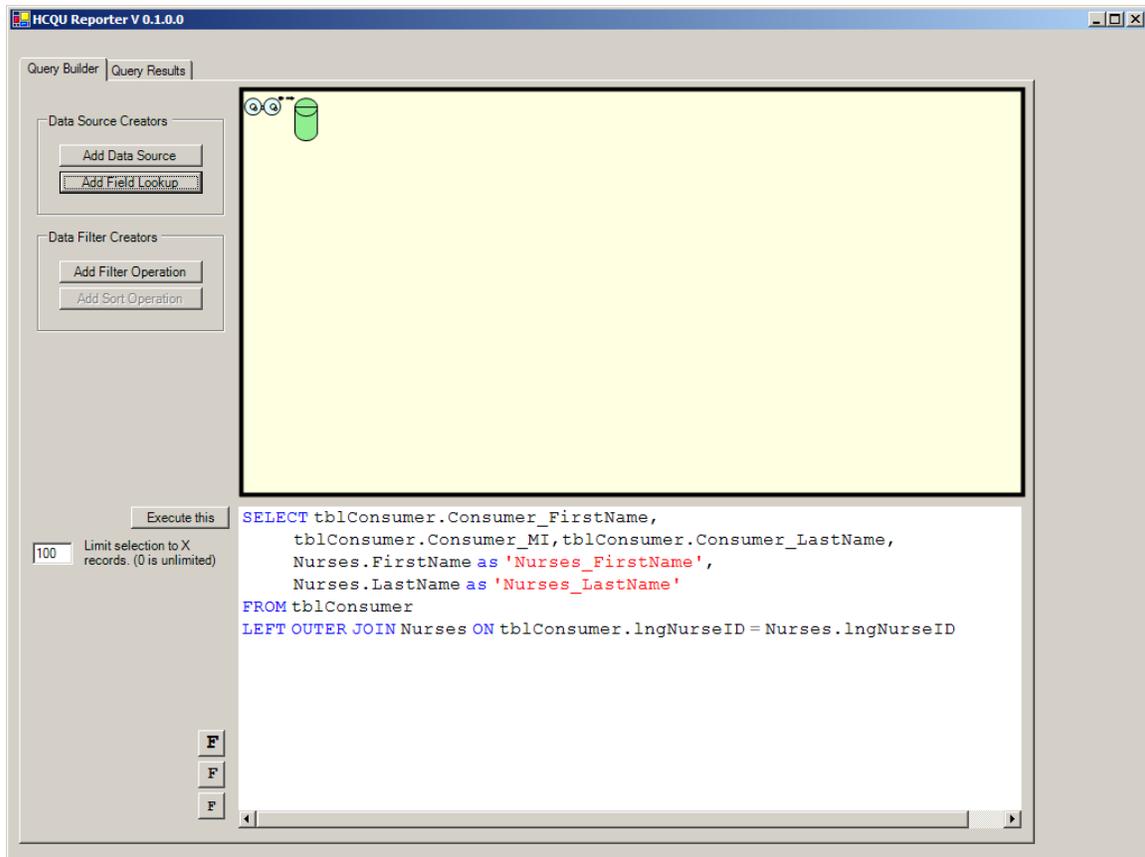
Now I pick the field in this linked table that represents the other side of the linking mechanism. (Nurse ID again)



Finally I get to select what other fields from the linked table I want to add to my query. We will get the nurse First name and Last name

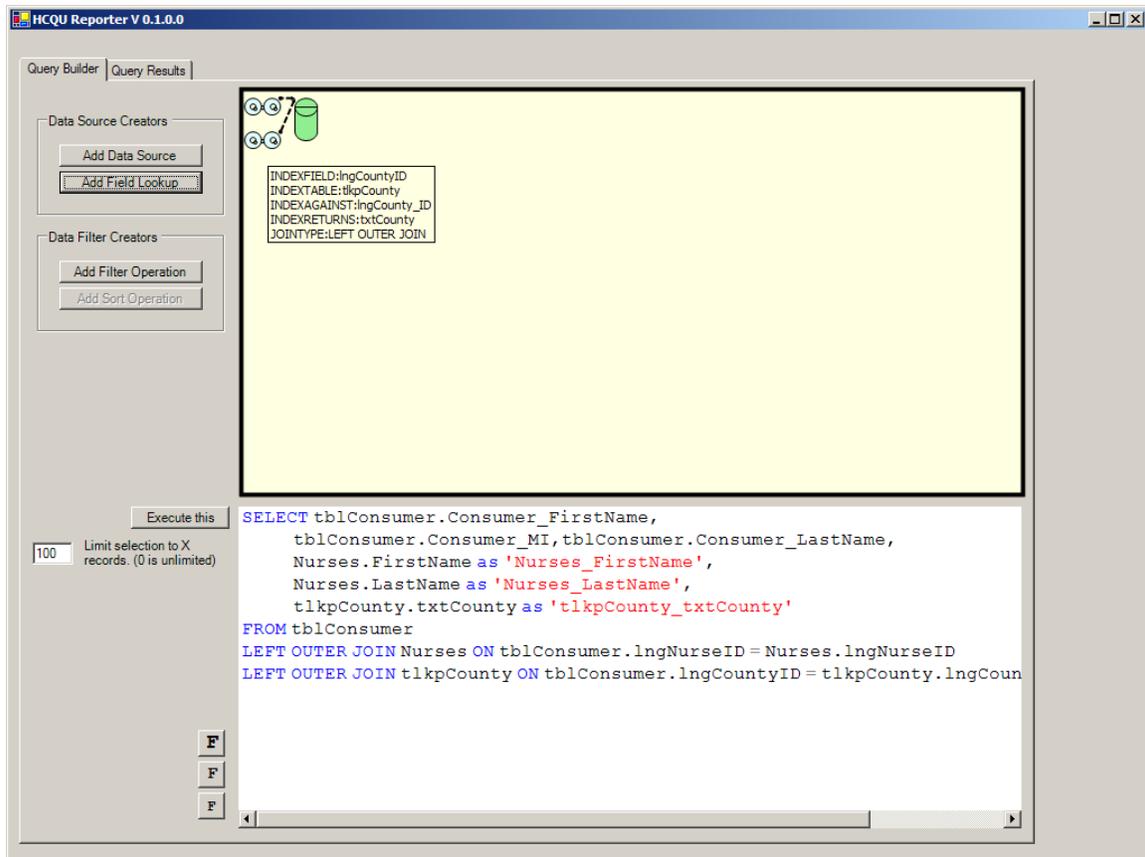


I optionally can select what kind of join I will be using (Need to work on language here)



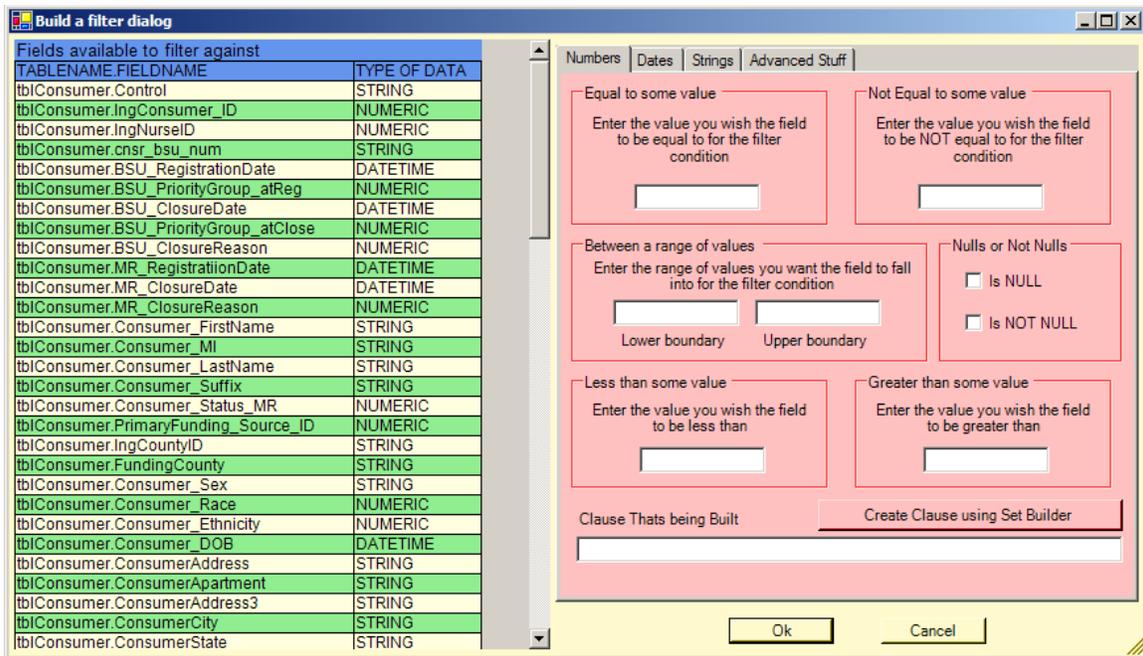
Now I have my base query and the joined nurses table with the nurse name being pulled from the joined table via the constructed link. Notice the code window shows the LEFT OUTER JOIN that was constructed and that the Dashed line between the Lookup and the Data source. This dashed line indicates the Outer join nature of the selection in that some values from the linked table may be empty or NULL because that what we selected when we built the lookup in the first place.

I will quickly add another lookup on county ID

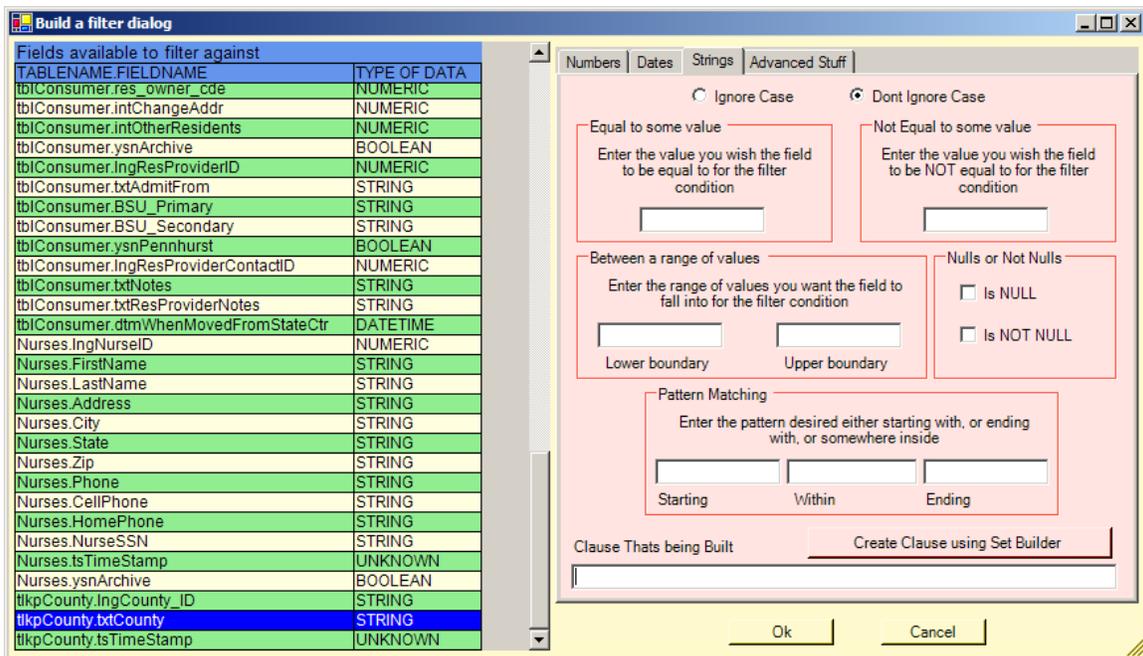


Note as you hover the icons in the graphic panel you get readout on the icons contribution to the underlying query as its being built. In all cases the Code panel tracks the interaction with the other parts of the interface.

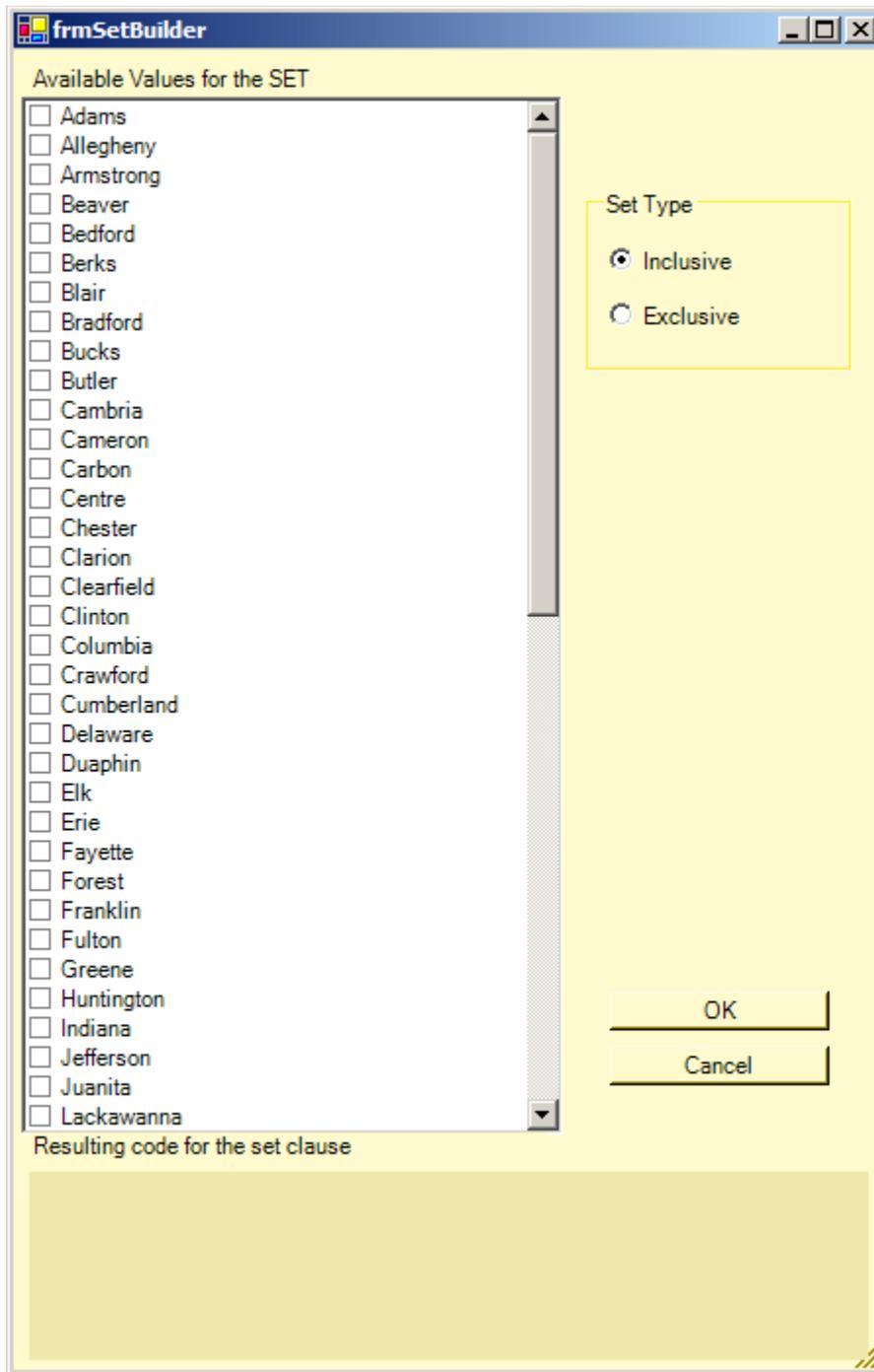
Now we will add a filter...



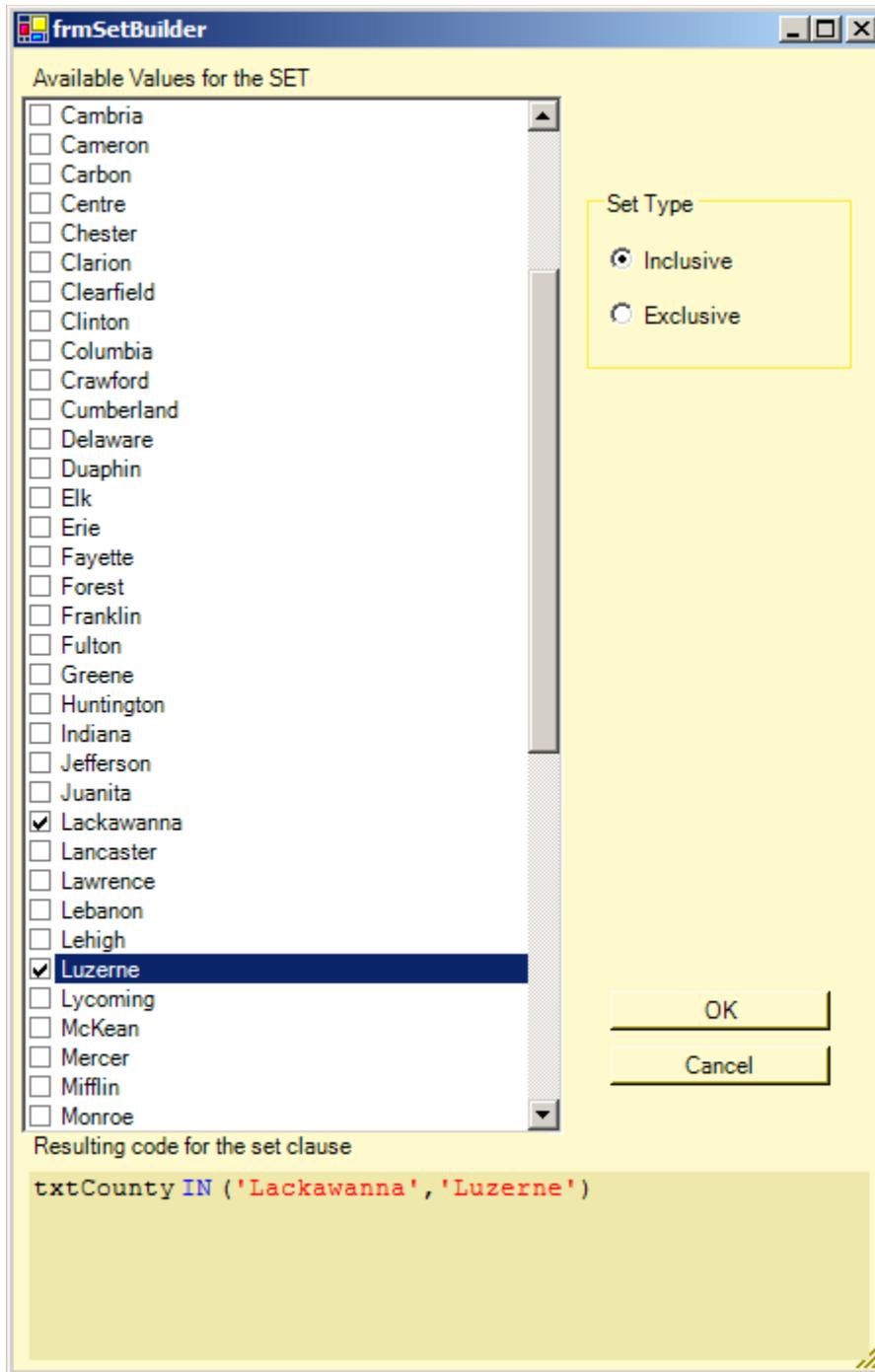
The Build a filter dialog allows you to see all fields of every table you reference in your query. The Base table and any table you reference via link are represented. First you select what field you want to filter on in the grid...



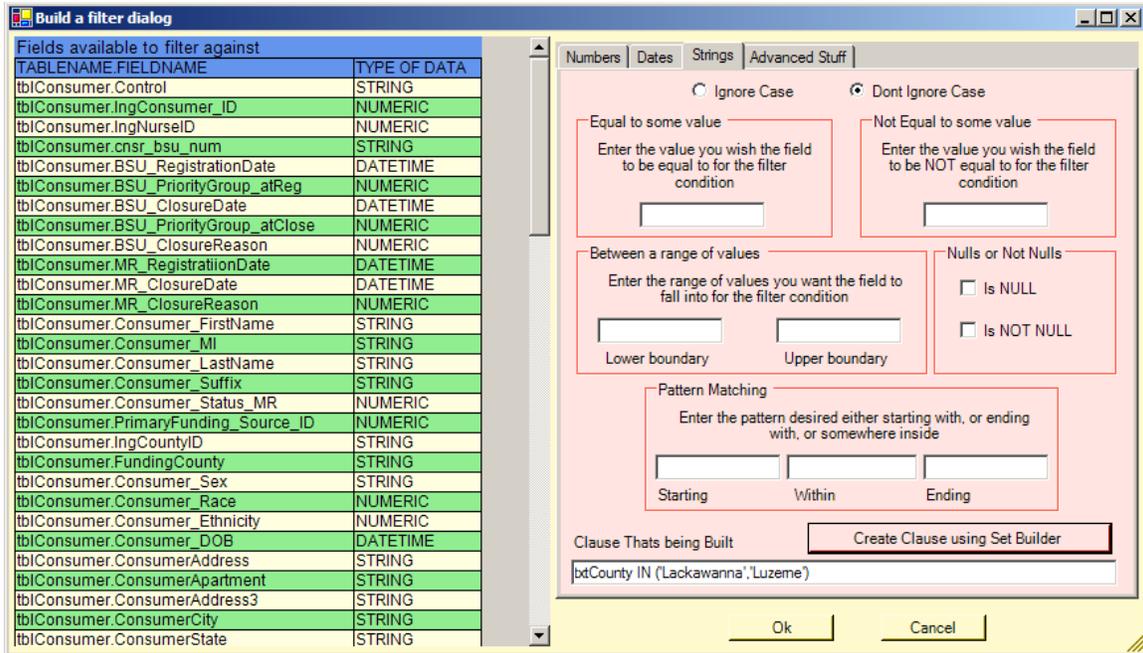
Having selected the County from the lkpcounty table, the interface automatically switched to the strings Tab because that field is defined in the database as a string of characters. Now I can look for equality, inequality, ranges of values, Null, Not NULL, or various pattern matches (Starting with, Ending with, or Contains in) I also have the option to create a clause using set constructs meaning it will ask for the value being IN a set of values or NOT IN a set of values. I'll use this option for my query



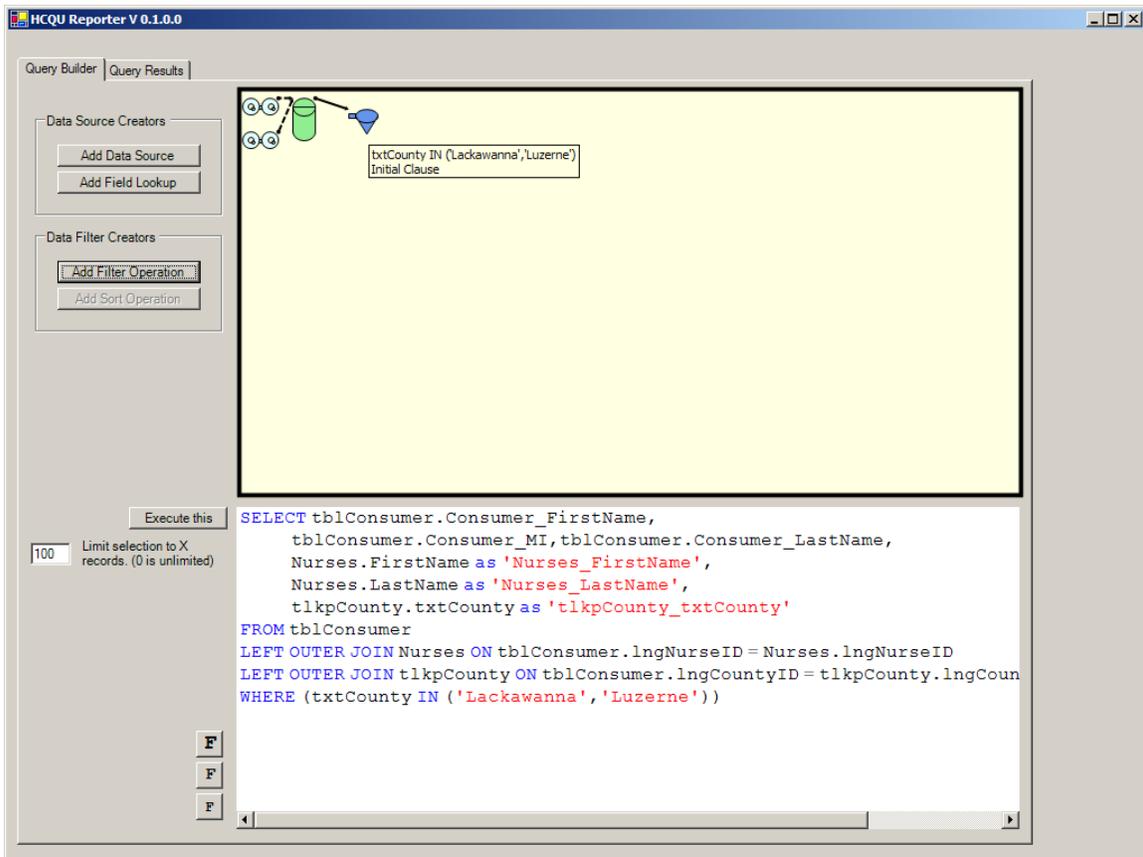
Here I now get a list of the possible values for the field. I can select which of these I want to include in my set. Well look for only this records that are in the Lackawanna or Luzerne counties.



As you can see it has built my clause containing SQL correct IN Syntax for me. Because the field I as looking at was a string, the set is represented using 'character. If the field has been numeric the reporter would have omitted the 'characters and the values would have been numbers. If I set the type to be exclusive the syntax reverts to NOT IN and visa versa. So I click OK

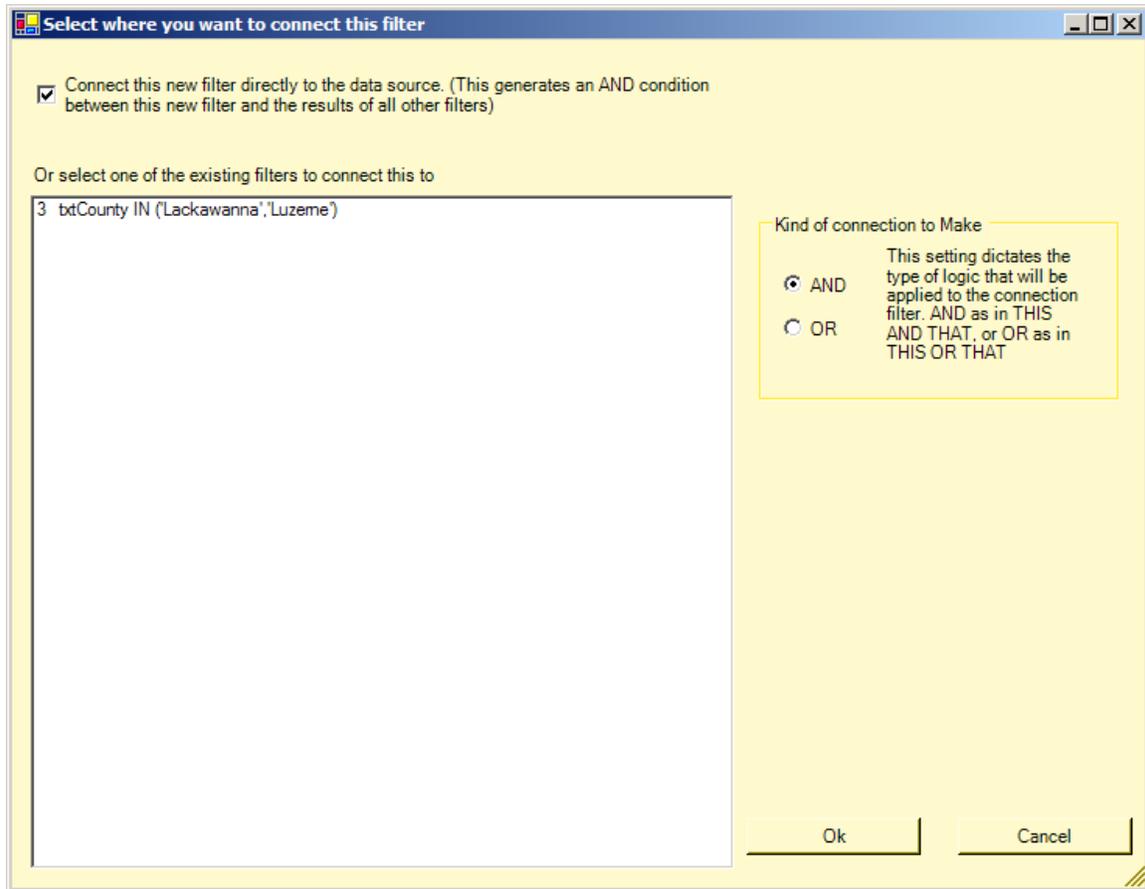


Note that the clause being built shows my IN clause.. Click OK again



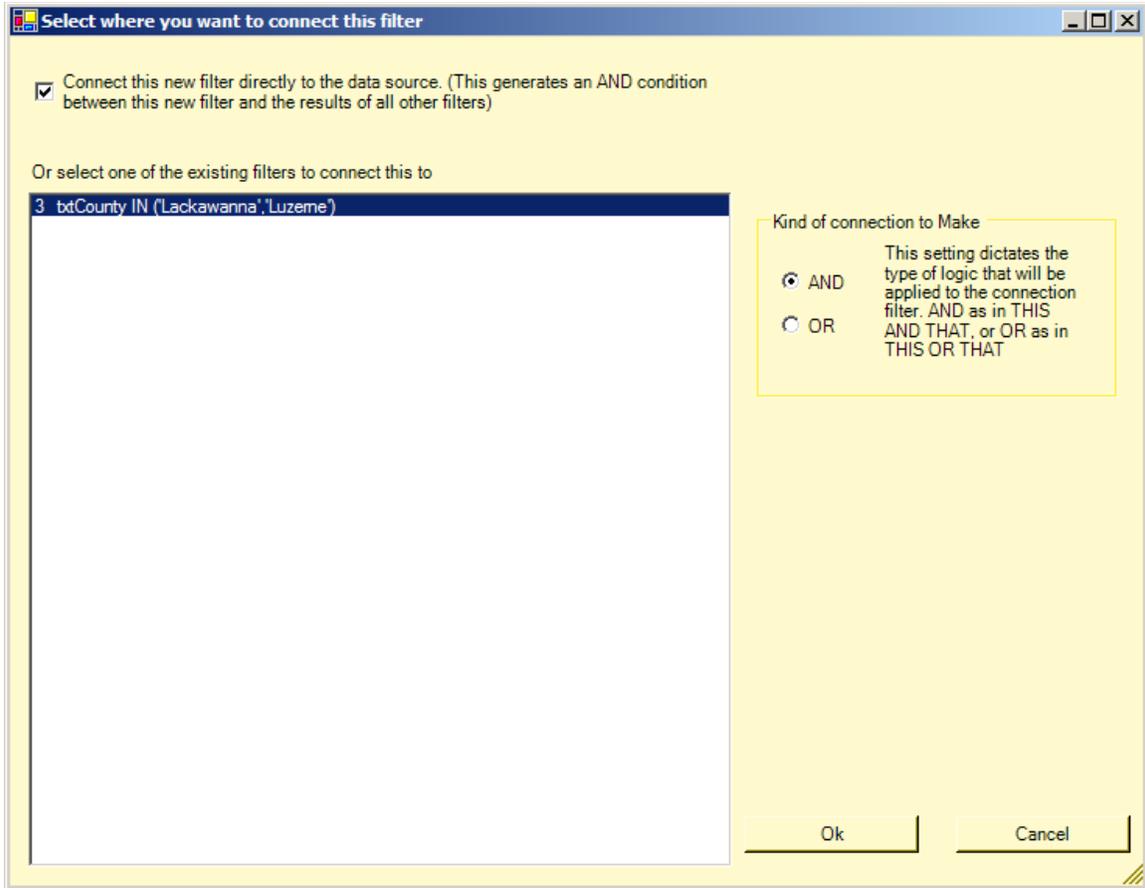
I now have my lookup filter added to the canvas and my code windows now contains the resulting where clause

Now I will add another filter on Nurse Name being NOT NULL. When I click the OK to leave the filter making process I get a different dialog because I now have another choice to make

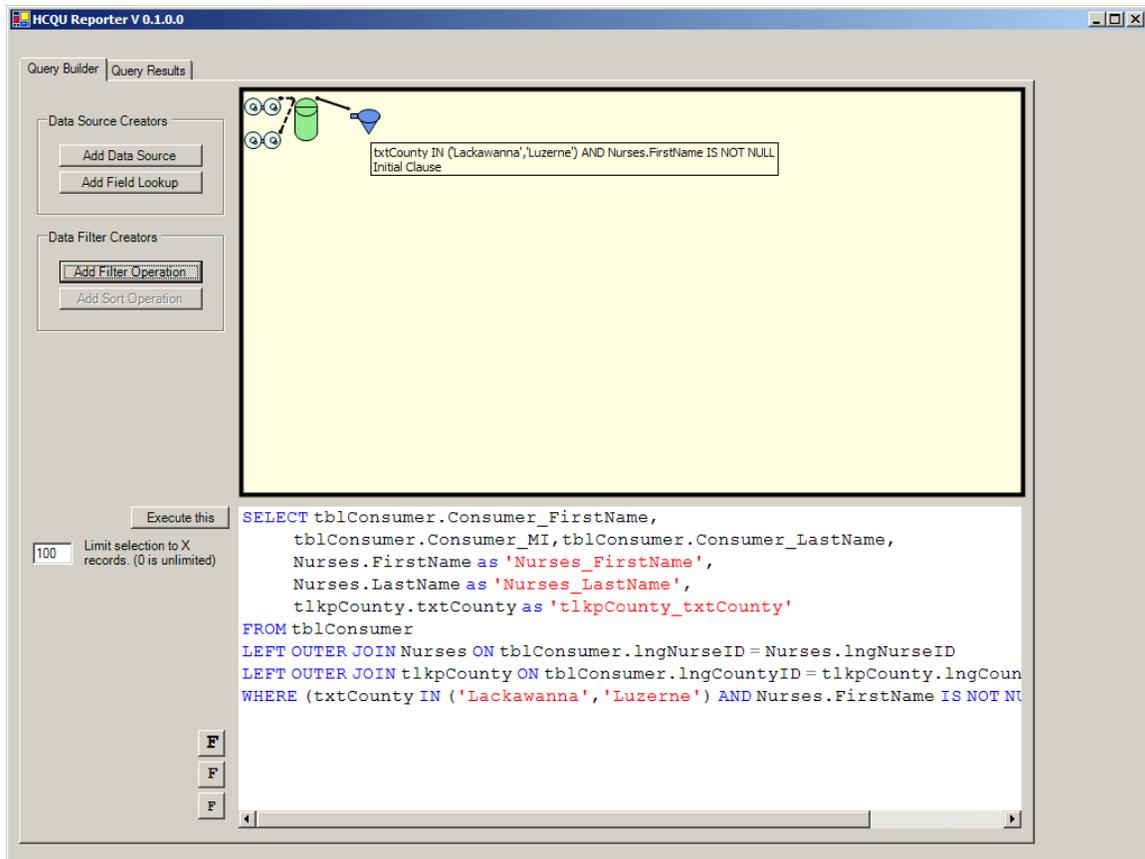


Because I already have a filter in this query, the software is asking me when I want to connect this filter that I just made. I have the option of connecting this directly to the table, or connecting this directly to the pre-existing filter. I also get to choose what kind of clause I will use in the connection. AND being all inclusive or the OR clause where one side or the other can be false and records will still flow through.

In my case I will connect to the existing filter using the and clause...



and click OK



Note that my filter is now a little larger and the new clause Nurses.Firstname IS NOT NULL has been added to the previous contents using the AND clause.

Finally I can click the execute this and examine the Query results tab to see the results of my work

HCQU Reporter V 0.1.0.0

Query Builder Query Results

Query Results

Consumer_FirstName	Consumer_Mi	Consumer_LastName	Nurses_FirstName	Nurses_LastName	tlkpCounty_txtCounty
TAMI LYNN	{NULL}	PALUCH	Sharon	Fairburn	Luzerne
Michael	{NULL}	Boruta	Lisa	Sinclair	Lackawanna
JENNIFER	{NULL}	KELLMER	Lisa	Sinclair	Luzerne
SANDRA	{NULL}	STROCK	Lisa	Timek	Luzerne
LINDA	{NULL}	PELCZAR	Sharon	Fairburn	Luzerne
MARYANN	{NULL}	ABRAMCHECK	Lisa	Timek	Luzerne
JOHN	{NULL}	POPPLE	Lisa	Sinclair	Luzerne
ROBERT	{NULL}	MALESKY	Tara	Morgan	Luzerne
BARBARA	{NULL}	KNEPP	Sharon	Fairburn	Luzerne
DIANE	{NULL}	SAMUELS	Lisa	Timek	Luzerne
HELEN	{NULL}	PETROSKY	Sharon	Fairburn	Luzerne
KEVIN	{NULL}	DOMIN	Lisa	Timek	Luzerne
MARY	{NULL}	CASO	Lisa	Timek	Luzerne
BRENDA	{NULL}	MCMANUS	Sharon	Fairburn	Luzerne
ROBERT	{NULL}	JENKINS	Tara	Morgan	Luzerne
PHILLIP	{NULL}	GALLAGHER	Lisa	Sinclair	Luzerne
MICHAEL	{NULL}	SABOL	Lisa	Timek	Luzerne
Kelly	{NULL}	Green	Sharon	Fairburn	Lackawanna
ROBERT	{NULL}	SEBOLKA	Tara	Morgan	Luzerne
JACQUELINE	{NULL}	CIANNELLI	Tara	Morgan	Luzerne
KRISTINA	{NULL}	FETCHEN	Tara	Morgan	Luzerne
JOAN	{NULL}	FREDERICK	Sharon	Fairburn	Luzerne
Steven	{NULL}	Perko	Tara	Morgan	Lackawanna
RICHARD	{NULL}	MOSHER	Lisa	Sinclair	Luzerne
AMY	{NULL}	REIDLINGER	Lisa	Timek	Luzerne
WILLIAM	{NULL}	FOX	Tara	Morgan	Luzerne
MELVIN	{NULL}	CORNELL	Lisa	Sinclair	Luzerne
RHONDA	{NULL}	GIBSON	Lisa	Sinclair	Luzerne
STANLEY	R	FETTIG	Lisa	Sinclair	Luzerne
SEAN	{NULL}	FLYNN	Tara	Morgan	Luzerne
LEANN	{NULL}	HUMKO	Lisa	Timek	Luzerne
RONALD	{NULL}	LEITZEL	Tara	Morgan	Luzerne
GERALD	{NULL}	CONDEN	Lisa	Sinclair	Luzerne
John	{NULL}	Yeager	Lisa	Sinclair	Lackawanna
THOMAS	{NULL}	MOTIE	Tara	Morgan	Luzerne

I am free to go back to the query builder and edit or add to its contents and re-query the database to view my handy work.

TODO

More filtering options

Sorting Options

Grouping Options

Function fields (COUNTS, SUM, DIFFS etc) used in conjunction with Grouping

More to come...