Large Scale Lookups, from an End-User and a Programmer Perspective

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1. Introduction

With many lookups in a CAPI instrument, the contents of the lookup database are typically the same for every survey respondent. When we ask respondents what prescribed medicines they use, for example, the list we use in the background for their search is the same for all respondents. However, when we want them to select a physician or medical professional in a lookup search, it doesn't make sense to present all possible selections from the entire country to everyone, as the lookup would be too large and, even more importantly, it would end up showing many irrelevant results to the end user, making it too hard to find the desired result. This paper discusses ways to make medical provider lookups relevant from an end-user perspective and manageable from a programming and file management viewpoint.

2. The Challenge

We are asking respondents for medical information, including doctor and hospital visits, over the period since the previous interview in the panel survey. Even with the help of records at hand, it can be difficult for respondents to recall this information for all household members, especially if the reference period is, for instance, six months long. There is also a separate follow-up survey with the providers, to get more accurate data on the exact procedures and cost. In order for providers to be able disclose this data, we ask household members to sign so-called forms to authorize data collection from providers. It is therefore crucial to collect accurate data on the providers and their contact information.

3. What is Needed?

So, rather than letting the interviewer just type provider names, addresses, and phone numbers as remembered by the respondent, we want to have them select a record from a lookup that has accurate medical provider information.

In order to implement this within the interview program, we need to have the following elements in place:

- A good resource for provider records
- A mechanism for a good lookup
- Meaningful, localized lookup data files
- A user-friendly presentation of lookup search results

We will describe these elements in the following sections.

4. Resource for Provider Data Records

There are different data sets of medical providers in the entire US available, some publicly and some for an annual fee. We have looked at a number of them and found that the most comprehensive data set seems to be the National Provider Index (NPI).

There is a strong incentive for medical providers to sign up and get a unique NPI ID: any provider person or facility—who wants to ever bill a federal entity like Medicare or Medicaid needs to have an NPI ID. This makes the NPI a more comprehensive list of providers than others, a crucial distinction for our purpose.

It is far from a perfect list however: there is no incentive for providers to delist when a doctor retires or a medical facility shuts down or moves. This means that the list keeps growing year over year, and many entries are no longer relevant. It also means that the lookup search mechanism becomes of even greater importance if the interviewer is to find the correct medical provider in an enormous mix of useful and useless records.

5. The Search Mechanism

To be actually useful during an already long interview with possibly many provider searches, any search mechanism to be used for this search has to be fast and powerful, serving up search results almost instantaneously after an interviewer types in a search string. It also needs to be somewhat forgiving of typos in name or address of a provider as given by the respondent and allow for easy searches on name, phone number, and/or address.

Before we switched to Blaise 4.8, we did this search in SQL Server, using a "LIKE" search with wildcards. The speed of a search was adequate, but that mechanism was not able to deal with typos very well, especially if they were at the start of search words. It also needed separate searches for name, address, and phone number.

The switch to Blaise 4.8 and trigram lookups meant a big improvement in the success rate of provider searches. Because of the trigrams—three letter snippets—this search mechanism is much less influenced by a typo, and the way Blaise indexes those trigrams means the search results come up extremely fast. With a carefully constructed 'search string' for each record in the lookup data file, we can also assure that the interviewer can choose to enter parts of the provider name, address, phone number, or some combination of these without having to specify that in any way by designating a search category beforehand. We have seen much better outcomes since we switched, with a much higher percentage of searches finding a match, as opposed to adding verbatim provider info after an unsuccessful search.

5.1 Creating Localized Lookup Data Files

One way to try to include relevant providers for a specific interview is to use the respondent's state: include all providers within that state and exclude all others. The problem with that approach is that people will cross state lines to get medical services, and for many people near state lines, that may well be their preferred option. The same disadvantage goes for the counties within states.

Instead, we wanted to ensure that the respondent's address was more in the center of the area that would be covered by the lookup file. So, we started off with the respondent's zip code (for non-US readers, that's a postal code, much smaller than states or counties). Just including providers within that zip code would be too limiting, so we wanted to include all the providers within a wider circle around the respondent's zip code.

At the outset, we created circles with a radius of 100 miles around the zip code's centroid (you can think of that as the center or average location in the zip code area). The list of zip codes in the US, and their centroid coordinates, is freely available. So, for each zip code, we calculated a list of zip codes that would fit within the circle with radius of 100 miles by calculating the distance from one centroid to another.

As an aside, Manipula is known for being very fast, especially in handling large text files. We had to double check the results when calculating the distance from zip code 20850 to all others—writing two

output files and sorting the first output file took all of one second. Figure 1 is a screenshot with that result, with start time and end time near the top.

Figure 1. 42,000 Distance Calculations in One Second

10:10:49 AM End time:	10:10:50 AM			
File	Туре	Read	Written	Deleted
C:\Distance\ZipCentroidsRemovedPRSsAndNorthPol	Ascii	42299	-	
C:\Distance\DistFrom20850Less100.txt	Ascii	-	1753	
C:\Distance\DistFrom20850.txt	Ascii	-	42299	-
	: \Distance \ZipCentroidsRemovedPRSsAndNorthPol : \Distance \DistFrom20850Less100.txt	: \Distance \ZipCentroidsRemovedPRSsAndNorthPol Ascii : \Distance \DistFrom20850Less100.txt Ascii	2: \Distance \ZipCentroidsRemovedPRSsAndNorthPol Ascii 42299 2: \Distance \DistFrom 20850Less 100.txt Ascii -	: \Distance \ZipCentroidsRemovedPRSsAndNorthPol Ascii 42299 - C: \Distance \DistFrom 20850Less 100.txt Ascii - 1753

Unfortunately for us, creating Blaise trigram lookup files takes a lot longer—not surprising when thinking about the work needed for creating, indexing, and managing the trigram index file.

The next issue was when and where to create these lookup files, and how to get them on interviewer laptops. There are more than 42,000 zip codes in the US and creating and storing them all takes up 20 TB (or 2 TB zipped), which is, of course, way too much data for storing on an interviewer's laptop. We can't create them during the interview either, as it can take up to 15 or 20 minutes—and lots of resources—to create some of the bigger lookup files. So, we are creating them on the interviewer laptops: right after the interviewer has picked up the transmission with the preload data for that case, the IMS checks whether lookup files for zip code and state are already on the laptop. If not, they get created at that point.

We tried to optimize the Manipula process that creates the lookups to minimize the time needed when interviewers get a big number of cases assigned at once. Somewhat to our surprise, we found that splitting the process in two separate Manipula setups was faster than using just one setup.

The annually growing file with NPI records is too big—close to seven million records at the moment—to fit into memory in a Manipula setup, where that would have been useful. So, using a two-step process, each one using a differently sorted file, we ended up with a combined process that was much faster than the one-step approach. This was much appreciated by field staff and home office staff who sometimes had to wait for the completion of this task.

We have also reduced the size of some of the biggest lookup files by basing the diameter of the circle around the zip code centroid on the urbanicity degree of the area (this is also freely available data). The thinking there is that there are many more medical providers in urban areas compared to rural areas, so respondents would typically not travel as far to see a provider. This means that instead of a 100-mile diameter, we can have a much smaller diameter in, say, New York City compared to a rural area in, for instance, Wyoming.

On the other hand, the process gets slightly more complicated by choosing to include certain providers in all lookup files, regardless of their zip code. These are what we call 'Centers of Excellence,' with

examples like the Mayo Clinic, Sloan Kettering, Johns Hopkins, and other well-known medical facilities. People may travel to these centers for consultation and/or treatment, including surgery. While these cases may be relatively rare, they may include extensive and expensive medical treatment. Including these facilities in every lookup file helps us to capture everything about these visits as accurately as possible.

6. Presentation

Lookups, including trigram lookups, have been available in Blaise for decades, so Blaise users are likely to be very familiar with the look and feel of these screens. There are, however, some elements that can be tailored or added to make a lookup more user-friendly and more effective, as well.

We are using a Manipula dialog for the display of the lookup, which allows us to add a few elements that are useful to interviewers.

Figure 2 is a screenshot of a typical search.

Figure 2	Medical	Provider	Lookup	Screen
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ype	AHA	Name 1	Name 2	Address	City	Phone Number	Taxonomy
		JOHNS HOPKINS UNIVERSITY	JOHNS HOPKINS UNIVERSITY IN	855 N WOLFE ST RANGOS 520	BALTIMORE	4106140932	Clinical Medical Laboratory
	AHA	JOHNS HOPKINS HOSPITAL		600 N WOLFE ST	BALTIMORE	8556623017	General Acute Care Hospital
>		MATTHEW CURTIS WOODS		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educat
>		ADAM IDDRISS		JOHNS HOPKINS HOSPITAL 600 N WOLFE ST BLALOCK 658	BALTIMORE	4125085573	Student in an Organized Health Care Educa
>		PEIYI SU		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
		JOHNS HOPKINS UNIVERSITY		600 N WOLFE ST CMSC 309	BALTIMORE	4109557858	Psychiatric Hospital
>		MANOJ MADDALI		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
		JOHNS HOPKINS UNIVERSITY	JHU NEUROLOGY BEHAVIORAL H	600 N WOLFE ST	BALTIMORE	4109555000	Psychiatry & Neurology - Neurology
		JOHNS HOPKINS UNIVERSITY	JHU OTOLARYNGOLOGY HEAD A	600 N WOLFE ST	BALTIMORE	4109336401	Otolaryngology
>		MARIJA VASILJEVIC		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
>		ALEXJANG		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
>		CHENGCHENG GUI		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
		JOHNS HOPKINS UNIVERSITY	JHU SURGERY	600 N WOLFE ST	BALTIMORE	4105508400	Surgery
>		MOON JEONG LEE		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
•		STEPHEN LESCHE		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
•		LANA LEE		200 N WOLFE ST JOHNS HOPKINS SCHOOL OF MEDICINE	BALTIMORE	4109552910	Student in an Organized Health Care Educa
		JOHNS HOPKINS MEDICAL INSTITUTIONS		600 N WOLFE ST	BALTIMORE	4439978688	General Acute Care Hospital
		JOHNS HOPKINS UNIVERSITY PM AND R DEP	4	600 N WOLFE ST STE 160	BALTIMORE	4105022447	Rehabilitation Hospital
>		JONATHAN ALBERT LESTER		600 N WOLFE ST THE JOHNS HOPKINS SCHOOL OF MEDICINE	BALTIMORE	4109555000	Student in an Organized Health Care Educa
		JOHNS HOPKINS UNIVERSITY	JHU ONCOLOGY	600 N WOLFE ST	BALTIMORE	4109337400	Internal Medicine - Medical Oncology
		JOHNS HOPKINS UNIVERSITY	JHU ONCOLOGY HOSPICE AND P/	600 N WOLFE ST BLALOCK 359	BALTIMORE	4109558306	Internal Medicine - Hospice and Palliative N
		MEGAN GILMARTIN		JOHNS HOPKINS HOSPITAL 600 N WOLFE ST	BALTIMORE	4106143840	Registered Nurse
>		EVA MARIA LUDEROWSKI		600 N WOLFE ST THE JOHNS HOPKINS HOSPITAL	BALTIMORE	4109555000	Student in an Organized Health Care Educa
		JOHNS HOPKINS HOSPITAL		600 N WOLFE ST	BALTIMORE	4106143234	Rehabilitation Hospital
>		ANNA WHITE LAVIGNE		600 N WOLEE OF THE TOHNS HOPKING HOSPITAL	RAI TIMORE	#109555000	Student in an Ornanized Health Pare Educa
6							
Searc	th for:	ohns hopkins wolfe 855		Show only facilities			
RCH	1 TIPS	: * Fewer words often work better than lots * Unusual or unique aspects of provider n	s of words-but you must type at	least 6 letters			
				alth) can increase the number of 'extra' matches displayed			
		* If searching by address - include street					
		* If searching by phone number - do not					

Note the red line at the top, which shows the detailed information of the currently selected line in the results grid. This 'detail line' gets updated automatically whenever a different line is selected and it allows the interviewer to easily see all the available info on that provider, even parts that might be cut off in the results grid.

There are search tips for interviewers near the bottom because it can really be a difficult task to help a respondent recall details of an event and names of doctors and facilities, even more so if the event happened several months ago.

We also included an option to filter the results and display only facilities, instead of doctors and facilities all mixed together. As you can see in Figure 3, we have a checkbox with the label "Show only facilities" next to the searchstring input line. When checked, we get the following:

JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY HOSPICE AND P/ 600 N WOLFE ST BLALOCK 359 BALTIMORE 4109559306 Internal Medicine - Hospice and Pall JOHNS HOPKINS HOSPITAL BALTING AND	AHA JOHNS HOPKINS HOSPITAL 600 N WOLFE ST BALTIMORE 9556622017 General Acute Care Hospital JOHNS HOPKINS UNVERSITY JHU NEUROLOGY BEHAVIORAL H 600 N WOLFE ST BALTIMORE 410955788 Psychaite Hospital JOHNS HOPKINS UNVERSITY JHU OTOLARYNGOLOGY HEAD AF 600 N WOLFE ST BALTIMORE 410935000 Psychaite Hospital JOHNS HOPKINS UNVERSITY JHU OTOLARYNGOLOGY HEAD AF 600 N WOLFE ST BALTIMORE 410935000 Surgery JOHNS HOPKINS UNVERSITY JHU SURGEY 600 N WOLFE ST BALTIMORE 410932700 Internal Acute Care Hospital JOHNS HOPKINS UNVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 410932700 Internal Acute Care Hospital JOHNS HOPKINS UNVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 410932340 Internal Medicine - Hospital JOHNS HOPKINS UNVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 410933340 Internal Medicine - Hospital JOHNS HOPKINS UNVERSITY JHU ONCOLOGY HOSPICE AND P/ 600 N WOLFE ST BALTIMORE 410933340 Internal Medicine - Hospital JOHNS HOPKINS UNVERSITY JHU ONCOLOGY HOSPICE AND P/ 500 N WOLFE ST	ype	AHA	Name 1	Name 2	Address	City	Phone Number	Taxonomy
JOHNS HOPKINS UNIVERSITY 600 N WOLFE ST CMSC 309 BALTIMORE 4109557858 Psychiatric Hospital JOHNS HOPKINS UNIVERSITY JHU NEUROLOGY BEHAVIORAL H 600 N WOLFE ST BALTIMORE 410955060 Psychiatric Hospital JOHNS HOPKINS UNIVERSITY JHU OTGLAPYNGOLOGY BEHAVIORAL HE 600 N WOLFE ST BALTIMORE 4109550640 Surgery JOHNS HOPKINS UNIVERSITY JHU SURGERY 600 N WOLFE ST BALTIMORE 4109550400 Surgery JOHNS HOPKINS UNIVERSITY JHU OCOLOGY 600 N WOLFE ST BALTIMORE 4109550400 Surgery JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY 600 N WOLFE ST STE 160 BALTIMORE 4109327400 Internal Medicine - Model all Concologic and Pall JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 4109327400 Internal Medicine - Hospital JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 410902324 Rehabilitation Hospital JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY 600 N WOLFE ST BALTIMORE 410902340 Circuic Arbitration Hospital JOHNS HOPKINS UNIVERSITY JHU ONCOLOGY MOLE ST BALTIMOR	JOHNS HOPKINS UNVERSITY BON WOLFE ST CMSC 309 BALTIMORE 4109557858 Psychiatic Hospital JOHNS HOPKINS UNVERSITY JHU NEUROLOGY BEHAVIORAL H 600 N WOLFE ST BALTIMORE 4109557000 Psychiatic Hospital JOHNS HOPKINS UNVERSITY JHU OTOLARYNGOLOGY HEAD AF 600 N WOLFE ST BALTIMORE 4109558400 Sugery JOHNS HOPKINS UNVERSITY JHU SURGERY 600 N WOLFE ST BALTIMORE 4109550400 Sugery JOHNS HOPKINS UNVERSITY JHU OTOLARYNGOLOGY HEAD 600 N WOLFE ST BALTIMORE 4109550400 Sugery JOHNS HOPKINS UNVERSITY JHU ONCLOGY 600 N WOLFE ST BALTIMORE 410952447 Rehabilitation Hospital JOHNS HOPKINS UNVERSITY JHU ONCLOGY 600 N WOLFE ST BALTIMORE 4109552006 Internal Medicine - Modical Oncology JOHNS HOPKINS UNVERSITY JHU ONCLOGY HOPFICE AND PK 600 N WOLFE ST BALTIMORE 4109553306 Internal Medicine - Hospital JOHNS HOPKINS UNVERSITY JHU ONCLOGY HOPFICE AND PK 600 N WOLFE ST MEYER 140 BALTIMORE 4109552004 Community/Behavioral Health JOHNS HOPKINS HOPKINS UNVERSITY JHU ONCLOGY HOUFE ST MEYER 140 BALTIMORE 4109552004 Community/Behavioral Health JOHNS HOPKINS HOPKINS UNVERSITY JHU EREAL PSOCHAAN E BALTI 600 N WOLFE ST MEYER 1400 BALTIMORE 4109552004 Comm			JOHNS HOPKINS UNIVERSITY	JOHNS HOPKINS UNIVERSITY INT	855 N WOLFE ST RANGOS 520	BALTIMORE	4106140932	Clinical Medical Laboratory
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RCH TIPS: * Fewer words often work better than lots of words-but you must type at least 6 letters				* Common identifiers (e.g., medical center	r, office, associates, group, he	alth) can increase the number of 'extra' match	ies displayed		
RCH TIPS: * Fewer words often work better than lots of words-but you must type at least 6 letters * Unusual or unique aspects of provider name or address finds better matches * Common identifiers (e.g., medical center, office, associates, group, health) can increase the number of 'extra' matches displayed * If searching by address - include street number and name, but not office, suite, or room number	* Common identifiers (e.g., medical center, office, associates, group, health) can increase the number of 'extra' matches displayed			* If searching by phone number - do not i		e, suite, or room number			

Note that all records now are facilities and that the label for the checkbox now reads "Uncheck to show all providers."

This capability to filter search results is quite naturally built-in in Blaise 5, but in Blaise 4.8, it is a fairly well-hidden feature. Using it requires a decent amount of work, and if you want to do your own sorting of search results, it also requires a recalculation of trigram scores, as those are not passed on with the search results.

The searchstring that the interviewer types to try to select a provider can be accessed and stored for later analysis. When no match can be found in the lookup, the interviewer can select the "No Match" button and enter provider details verbatim.

7. Conclusions

Trigram lookups in Blaise work very well and fast, even with very large lookup files. This is as true in Blaise 5 as well as it was in Blaise 4. In Blaise 5, the additional flexibility for presentation and the ease of filtering search results are much appreciated.