

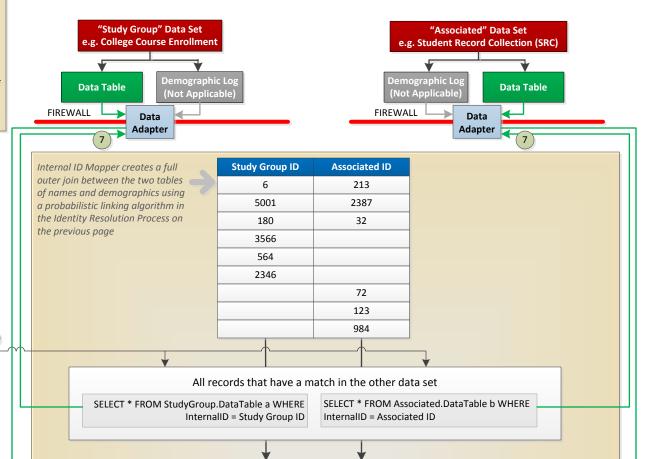
<sup>\*</sup> Please see Demographic Log Hashing document

<sup>\*\*</sup> Please see ID Mapper and Log Reduction document

## THE QUERY EXECUTION PROCESS USES THE ID MAP CREATED BY THE IDENTITY RESOLUTION PROCESS TO QUERY THE DATA SOURCE TABLES SPECIFIED IN THE USER QUERY. FOR MATCHED RECORDS, A NEW UNIQUE IDENTIFIER (UNIQUE ID) IS CREATED AND INSERTED IN THE MATCHING ROW(S) OF EACH

RETURNED DATA SET

## QUERY EXECUTION PROCESS OVERVIEW



**6.** Query Specification parsed **7.** Separated query selecting all records that have the equivalent IDs

(8)

Query specification

is parsed into separate queries for each data source

- **8**. Query returns matched and unmatched results into two virtual tables
- **9**. Full outer join created with the matched and unmatched records in one table

SG ID – Study Group ID of the starting agency in the data request (not the Unique Entity ID)

Assoc ID – Associated ID of the second agency used in the data request (not the Unique Entity ID)

Unique ID – generated by the Shaker to indicate only the matches between agencies (not the Unique Entity ID)

Brth M	Gen	Eval 1	Eval 2	Unique ID	SG ID		Assoc ID	Unique ID	SOL Hist	SOL Math	Gen	Brth M
7	М	88	99	ABC123	6	유숙	213	ABC123	500	450	М	7
5	F	92	54	DEF456	5001	MATCHED (IN BOTH)	2387	DEF456	490	320	F	5
11	М	60	26	GHI789	180	M N	32	GHI789	495	410	М	11
22	F	56	22		3566	D × d						
105	F	99	79		564	UNMATCHED IN STUDY GROUP						
362	М	86	89		2346	N N N						
						무 윤	72		320	555	F	5
						JNMATCHED IN ASSOCIATED	123		560	350	F	1
						UNN	984		454	445	М	8
						9	T					

Unique ID	SG ID	Assoc ID	Gen	Brth M	Eval 1	Eval 2	SOL Hist	SOL Math
ABC123	6	213	М	7	88	99	500	450
DEF456	5001	2387	F	5	92	54	490	320
GHI789	180	32	М	11	60	26	495	410
	3566		F	22	56	22		
	564		F	105	99	79		
	2346		М	362	86	89		
		72	F	5			320	555
		123	F	1			560	350
		984	М	8			454	445

PROCESS: **QUERY EXECUTION**OUTPUT: **DATA SETS** 

## **Revision History**

Version #	Date	Revised By	Comments
1.0	5/2/12	Aaron Schroeder	Original Collection with this document last updated
2.0	5/4/12	Austin Mills	Large revision made including splitting overview into two pages
2.1	5/8/12	Austin Mills	Small revisions and dropping query specification off the 2 <sup>nd</sup> page
2.2	5/9/12	Austin Mills	Specified when Data Table and Demographic Log was "Not Applicable"
2.3	12/3/12	Austin Mills	Further defined IDs returned in the data set by the Shaker
2.4	3/21/13	Austin Mills	Removed Demographic Log Reduction information from Shaker
2.5	3/28/13	Austin Mills	Changed Demo. Log Query to Identifiers Query