

Version 1.1 ● October 2020

The Longitudinal System Analysis

FY 2019 HMIS Programming Specifications

Table of Contents

[1. Introduction 2](#_Toc38030505)

[1.1. Background: Annual Homeless Assessment Report and the Longitudinal System Analysis 2](#_Toc38030506)

[1.2. About This Document 2](#_Toc38030507)

[1.3. Definitions/Acronyms 5](#_Toc38030508)

[2. HDX 2.0 Upload 8](#_Toc38030509)

[2.1. Project.csv 8](#_Toc38030510)

[2.2. Organization.csv 8](#_Toc38030511)

[2.3. Funder.csv 8](#_Toc38030512)

[2.4. ProjectCoC.csv 8](#_Toc38030513)

[2.5. Inventory.csv 8](#_Toc38030514)

[2.6. LSAReport.csv 8](#_Toc38030515)

[2.7. LSAPerson.csv 8](#_Toc38030516)

[2.8. LSAHousehold.csv 9](#_Toc38030517)

[2.9. LSAExit.csv 9](#_Toc38030518)

[2.10. LSACalculated.csv 10](#_Toc38030519)

[3. HMIS Business Logic: Core Concepts 11](#_Toc38030520)

[3.1. Report Parameters and Metadata (lsa\_Report) 13](#_Toc38030521)

[3.2. LSA Reporting Cohorts and Dates (tlsa\_CohortDates) 14](#_Toc38030522)

[3.3. HMIS Household Enrollments (tlsa\_HHID) 16](#_Toc38030523)

[3.4. HMIS Client Enrollments (tlsa\_Enrollment) 22](#_Toc38030524)

[3.5. Enrollment Ages (tlsa\_Enrollment) 25](#_Toc38030525)

[3.6. Household Types (tlsa\_HHID) 28](#_Toc38030526)

[4. HMIS Business Logic: Project Descriptor Data for Export 30](#_Toc38030527)

[4.1. Get Project.csv Records / lsa\_Project 30](#_Toc38030528)

[4.2. Get Organization.csv Records / lsa\_Organization 31](#_Toc38030529)

[4.3. Get Funder.csv Records / lsa\_Funder 32](#_Toc38030530)

[4.4. Get ProjectCoC.csv Records / lsa\_ProjectCoC 33](#_Toc38030531)

[4.5. Get Inventory.csv Records / lsa\_Inventory 34](#_Toc38030532)

[5. HMIS Business Logic: LSAPerson 36](#_Toc38030533)

[5.1. Get Active HouseholdIDs 38](#_Toc38030534)

[5.2. Get Active Enrollments 39](#_Toc38030535)

[5.3. Get Active Clients for LSAPerson 40](#_Toc38030536)

[5.4. LSAPerson Demographics 44](#_Toc38030537)

[5.5. Time Spent in ES/SH or on the Street – LSAPerson 47](#_Toc38030538)

[5.6. Enrollments Relevant to Counting ES/SH/Street Dates 49](#_Toc38030539)

[5.7. Get Dates to Exclude from Counts of ES/SH/Street Days (ch\_Exclude) 50](#_Toc38030540)

[5.8. Get Dates to Include in Counts of ES/SH/Street Days (ch\_Include) 51](#_Toc38030541)

[5.9. Get ES/SH/Street Episodes (ch\_Episodes) 52](#_Toc38030542)

[5.10. CHTime and CHTimeStatus – LSAPerson 53](#_Toc38030543)

[5.11. EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax – LSAPerson 55](#_Toc38030544)

[5.12. HHTypeEST/RRH/PSH - LSAPerson 56](#_Toc38030545)

[5.13. HoHEST/RRH/PSH 57](#_Toc38030546)

[5.14. AHAREST/RRH/PSH – LSAPerson 58](#_Toc38030547)

[5.15. AdultEST/RRH/PSH - LSAPerson 59](#_Toc38030548)

[5.16. AHARHoHEST/RRH/PSH 60](#_Toc38030549)

[5.17. Set Population Identifiers for Active HMIS Households 61](#_Toc38030550)

[5.18. Set Population Identifiers for LSAPerson from Active Households 63](#_Toc38030551)

[5.19. LSAPerson 66](#_Toc38030552)

[6. HMIS Business Logic: LSAHousehold 68](#_Toc38030553)

[6.1. Get Distinct Households for LSAHousehold 68](#_Toc38030554)

[6.2. Set Population Identifiers for LSAHousehold 72](#_Toc38030555)

[6.3. EST/RRH/PSHStatus – LSAHousehold 75](#_Toc38030556)

[6.4. RRH/PSHMoveIn – LSAHousehold 76](#_Toc38030557)

[6.5. EST/RRH/PSHGeography – LSAHousehold 77](#_Toc38030558)

[6.6. EST/RRH/PSHLivingSit – LSAHousehold 78](#_Toc38030559)

[6.7. EST/RRH/PSHDestination – LSAHousehold 80](#_Toc38030560)

[6.8. EST/RRH/PSH Population Identifiers 81](#_Toc38030561)

[6.9. System Engagement Status and Return Time 83](#_Toc38030562)

[6.10. RRHPreMoveInDays – LSAHousehold 85](#_Toc38030563)

[6.11. Dates Housed in PSH or RRH (sys\_Time) 85](#_Toc38030564)

[6.12. Get Last Inactive Date 88](#_Toc38030565)

[6.13. Get Dates of Other System Use (sys\_Time) 89](#_Toc38030566)

[6.14. Get Other Dates Homeless from 3.917A/B Living Situation 90](#_Toc38030567)

[6.15. Set System Use Days for LSAHousehold 91](#_Toc38030568)

[6.16. Update EST/RRH/PSHStatus 94](#_Toc38030569)

[6.17. Set EST/RRH/PSHAHAR 94](#_Toc38030570)

[6.18. Set SystemPath for LSAHousehold 95](#_Toc38030571)

[6.19. LSAHousehold 96](#_Toc38030572)

[7. HMIS Business Logic: LSAExit 99](#_Toc38030573)

[7.1. Identify Qualifying Exits in Exit Cohort Periods 99](#_Toc38030574)

[7.2. Select Reportable Exits 100](#_Toc38030575)

[7.3. Set ReturnTime for Exit Cohort Households 103](#_Toc38030576)

[7.4. Set Population Identifiers for Exit Cohort Households 104](#_Toc38030577)

[7.5. Set System Engagement Status for Exit Cohort Households 106](#_Toc38030578)

[7.6. Last Inactive Date for Exit Cohorts 108](#_Toc38030579)

[7.7. Set SystemPath for LSAExit 109](#_Toc38030580)

[7.8. LSAExit 110](#_Toc38030581)

[8. HMIS Business Logic: LSACalculated 112](#_Toc38030582)

[8.1. Get Average Days for Length of Time Homeless 112](#_Toc38030583)

[8.2. Get Average Days for Length of Time Homeless by System Path 115](#_Toc38030584)

[8.3. Get Average Days for Cumulative Length of Time Housed in PSH 116](#_Toc38030585)

[8.4. Get Average Days for Length of Time in RRH Projects 116](#_Toc38030586)

[8.5. Get Average Days to Return/Re-engage by Last Project Type 117](#_Toc38030587)

[8.6. Get Average Days to Return/Re-engage by Population 118](#_Toc38030588)

[8.7. Get Average Days to Return/Re-engage by System Path 121](#_Toc38030589)

[8.8. Get Average Days to Return/Re-engage by Exit Destination 122](#_Toc38030590)

[8.9. Get Counts of People by Project and Household Characteristics 123](#_Toc38030591)

[8.10. Get Counts of People by Project Type and Household Characteristics 124](#_Toc38030592)

[8.11. Get Counts of Households by Project 125](#_Toc38030593)

[8.12. Get Counts of Households by Project Type 127](#_Toc38030594)

[8.13. Get Counts of People by Project and Personal Characteristics 128](#_Toc38030595)

[8.14. Get Counts of People by Project Type and Personal Characteristics 129](#_Toc38030596)

[8.15. Get Counts of Bednights by Project and Household Characteristics 135](#_Toc38030597)

[8.16. Get Counts of Bednights by Project Type and Household Characteristics 136](#_Toc38030598)

[8.17. Get Counts of Bednights by Project and Personal Characteristics 137](#_Toc38030599)

[8.18. Get Counts of Bednights by Project Type and Personal Characteristics 138](#_Toc38030600)

[8.19. Data Quality – Get Counts of Enrollments Active After Project Operating End Date by Project 139](#_Toc38030601)

[8.20. Data Quality – Get Counts of Night-by-Night Enrollments with Exit Date Discrepancies by Project 140](#_Toc38030602)

[8.21. Data Quality – Get Counts of Enrollments with no Enrollment CoC Record by Project 141](#_Toc38030603)

[8.22. LSACalculated 142](#_Toc38030604)

[9. HMIS Business Logic: LSAReport Data Quality and ReportDate 143](#_Toc38030605)

[9.1. Get HMIS Enrollments Active in the Three-Year Data Quality Report Period 143](#_Toc38030606)

[9.2. Set LSAReport Data Quality Values 145](#_Toc38030607)

[9.3. Set LSAReport ReportDate 152](#_Toc38030608)

[9.4. LSAReport 152](#_Toc38030609)

Revision History

| Version | Date | Revisions |
| --- | --- | --- |
| 1.0 | 7/14/2020 | Revisions to entire document to apply FY2019 edits |
| 1.1 | 10/8/2020 | Throughout – correction of typographical errors, redundancies, graphics, and listed source and target relevant data for each section  Section 1.2 – add link to GitHub repository  Sections 2.10 and 8.1-8.22 – clarify that records in LSACalculated are only generated when **Value** > 0.  Section 3.3 – note that reporting procedures must exclude data which is inconsistent with HMIS Data Standards and/or HMIS CSV specifications  If a project has an operating end date, it must be greater than the operating start date in order to include in LSA reporting.  Bednights >= a project’s operating end date are not relevant.  Sections 3.4-3.5 – if a household member’s entry date is prior to that of the HoH, use the HoH value as the effective entry date for the household member (required to resolve inconsistency with Section 3.3)  Section 3.5 – if age is unknown for a given client on any enrollment, it is considered unknown for all.  Section 4.1 - If a project has an operating end date, it must be greater than the operating start date in order to include the project record in the LSA upload.  Section 4.1-4.5 – clarify that notes in Column Description for PDDE files are related to HDX 2.0 validation  Section 5.2 – specify that active enrollments should be identified in tlsa\_Enrollment with **Active** = 1  Section 5.6 – delete irrelevant rows from Relevant Data section; include **HoHAdult** criteria in logic  Section 5.7 –– Add CH to list of relevant data; Exit date from RRH cannot be counted as a CH day if it is equal to the move-in date.  Section 5.8 – correct and re-group criteria for counting CH days based on 3.917  Section 5.10 – correction of typos/grouping in criteria for identifying clients who do not meet time criteria for CH and are missing relevant 3.917 information; resolve conflict between table of valid combinations of **CHTime**/**CHTimeStatus** values and business logic (add valid 365/99 combination to table).  Section 6.9 – correct > to >= in criteria re: **ExitDate** and **FirstEntry**  Section 6.11 – count dates housed in PSH/RRH for active enrollments only (specify tlsa\_HHID.**Active** = 1)  Section 6.13 – correct criteria for **sysStatus**  Section 6.17 – implement AHAR change request to base AHAR status on any recorded bednights in report period for each given project group, including when all bednights in a given project group overlap with another.  Section 7.5 – align criteria for system engagement status in LSAExit with LSAHousehold; add criteria to disambiguate when the most recent exit date is shared by more than one enrollment.  Section 7.6 – Use **CohortEnd** vs. ReportEnd for LSAExit system engagement status  Sections 8.1-8.18 – Explicitly state relationships between **HHType** in LSACalculated with LSAHousehold/LSAExit.**HHType** and with **Active/Exit1/Exit2HHType** columns in tlsa\_HHID.  Section 8.4 – ReportRow #14 averages only rows where **RRHStatus** > 2  Section 8.5 – add ReportRows 63 and 64 for average days to return by last project type / new LSAExit.ExitFrom values 7 and 8  Section 8.6 – Delete vestigial last three rows in list of populations  Sections 8.6 and 8.7 – Clarify relationship between **SystemPath** value in LSAExit and **SystemPath** value in LSACalculated.  Sections 8.9 and 8.11 – Include PopID 6 (CH)  Sections 8.9-8.18 – per section 3.3, consider RRH exit date a bednight if it is the same as the move-in date.  Section 8.13 – Add HHAdultAge criteria for populations 145-148; clarify that people should be counted for one age only (the maximum age)  Section 8.14 – **DisabilityStatus** = 1 (not 2) for PopIDs 111 and 143.  Clarify that counts of parenting children/youth are limited to HoH, correct criteria for PopIDs 113-144  Sections 8.14-8.18 – clarify that counts may always be included but only required when **LSAScope** = 1 and report period is October 1-September 30.  Section 8.21 – Clarifications related to DQ counts of households with no EnrollmentCoC  Section 8.22 – DQ report rows 60-62 are an exception to the general requirement that **ProjectID**s in LSACalculated must match Project.csv.  Section 9.1 – *ExitDate* < **CohortStart** --> NULL value for **Status1**  Include project type criteria  Correct/streamline *DOBDataQuality* criteria for **Status1** and **Status3**.  Include ‘123456789’ in list of commonly-used invalid SSNs  Note that **NoCoC** is an exception to the general statement that DQ reporting is for enrollments associated with ReportCoC.  Section 9.2 – Clarification for logic associated with **NoCoC** and*ExitDate*criteriafor **Destination1**; add missing MoveInDate1/3 section. |
| 1.2 | TBD | Throughout – correction of typographical errors, redundancies, graphics, and listed source and target relevant data for each section  Sections 8.17 and 8.18 – specify that bednight counts are limited to active enrollments  Section 8.21 – Resolve conflicting instructions re: HHType |

# Introduction

## Background: Annual Homeless Assessment Report and the Longitudinal System Analysis

Every year, the U.S. Department of Housing and Urban Development (HUD) submits an Annual Homeless Assessment Report (AHAR) to the United States Congress. The AHAR is a national-level report that provides information about homeless service providers, people and households experiencing homelessness, and various characteristics of that population. It informs strategic planning for federal, state, and local initiatives designed to prevent and end homelessness.

Nationwide, HUD has tasked Continuums of Care (CoCs) with coordinating homeless services in specific geographic areas. The AHAR is based on data provided annually by these CoCs in the form of three separate aggregate data submissions. US Census and other data are used for contextual analysis.

HUD’s *Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program* defines the requirements for the first two components of continuum-level data used in the AHAR:

* **Housing Inventory Counts** (HIC) are data related to the capacity and utilization of residential projects dedicated to serving people experiencing homelessness; and
* **Point-in-Time Counts** (PIT) provide counts of sheltered and unsheltered people who are experiencing homelessness on a single night, usually on a night in the last 10 days of January.

The third component of data provided by CoCs is the report defined by this document: the **Longitudinal System Analysis** (LSA). For people and households served by the CoC during the fiscal year, the LSA includes:

* Demographic characteristics like age, race, gender, and veteran status;
* Length of time homeless and patterns of system use;
* Information specific to populations whose needs and/or eligibility for services may differ from the broader homeless population, such as veterans, people and households experiencing chronic homelessness, and others; and
* Housing outcomes for those who exit the homeless services system.

The LSA also incorporates follow-up reporting on households and populations who exited the system in three discrete periods: two years prior to the report period, one year prior to the report period, and the first six months of the report period. This includes:

* Patterns of system use prior to exit;
* Destination types; and,
* For those who were served again later by continuum projects, lengths of time between exit and re-engagement or returns to homelessness.

## About This Document

### Intended Audience

This document is intended for software and database developers who produce HMIS reporting and are familiar with relational database concepts, Structured Query Language (SQL), as well as other HMIS technical documentation, particularly the HMIS Data Dictionary and the HMIS CSV Format. The document may also be useful to expert-level HMIS system administrators interested in further understanding LSA logic, how HDX 2.0 uses uploaded data to produce report output, or in using the LSA files exported from HMIS to develop custom local reports.

### Purpose and Scope

The primary purpose of this document is to define LSA business logic and programming specifications for:

* Selection of project descriptor data for export
* Identification of client cohorts, household types, and special populations included in the LSA based on HMIS data
* Grouping clients and households into reporting categories
* Producing and populating LSA CSV files
* Validating LSA CSV files

### Structure and Content

**Section 1: Introduction** (this section) outlines general concepts related to the LSA and this document.

**Section 2:** **LSA Data Universe** describes LSA report parameters, the HMIS data elements that are referenced in the business logic, and the four cohorts of clients that are included in the analysis.

**Section 3: LSA CSV Upload Files** describes each of the CSV files that are included in the upload. There are five CSV files specific to the LSA:

* LSAReport.csv
* LSAHousehold.csv
* LSAPerson.csv
* LSAExit.csv
* LSACalculated.csv

The LSA upload also includes five CSV files of Project Descriptor Data Elements (PDDEs) defined in the HMIS CSV Specifications:

* Organization.csv
* Project.csv
* Funder.csv
* ProjectCoC.csv
* Inventory.csv

**Sections 4 through 10: HMIS Business Logic** details business logic associated with constructing LSA report output from HMIS data. There is an inherent order of operations to some aspects of the process. For example, household members’ ages must be calculated in order to determine household types for individual HMIS *HouseholdIDs*. Household types are required to identify distinct combinations of head of household and household type, which is the basis for counting individual households throughout the LSA.

In this document, LSA business logic is described as a series of discrete steps, each with a specific result. Results are cumulative; the ‘output’ of earlier steps serves as input for later steps. The sequence of steps is consistent with the order of operations, but in practice, many could be combined and executed simultaneously. They are separate here to clarify the business logic associated with individual columns.

To avoid repetition, simplify descriptions, and emphasize various aspects of the logic, several of these steps specify the creation of intermediate data constructs (tables) with column names that function as variables in later steps. There is no requirement to use the process or the constructs described here as long as output is consistent with the logic described here.

A companion document titled *LSA Programming Specifications: Sample Code* may help clarify and illustrate the business logic described in this document. It was written during the development of these specifications and is being made available as a reference. There is no requirement to use the code.

### Companion Documents

**The following companion documents or links are available for vendors in the HUB. Most materials will be publicly posted to the HUD Exchange after initial vendor feedback via weekly office hours:**

* Specifications with tracked changes from FY2018
* Specifications with annotations describing the changes from FY2018
* LSA Dictionary
* Test Kit
* Sample Code (stored on GitHub) (<https://github.com/HMIS/LSASampleCode/>)

### External References

This document is comprehensive with respect to the business logic for the LSA upload, but additional references are indicated below. The short-hand terms used to refer to each document are in parentheses following the formal names and are hyperlinked to the documents online.

**FY 2020 HMIS Data Standards: Data Dictionary** ([Dictionary](https://files.hudexchange.info/resources/documents/HMIS-Data-Dictionary.pdf)) – The Dictionary defines federal data collection requirements for HMIS applications; the version referenced has an effective date of October 1, 2019.

**FY 2020 HMIS Data Standards Logical Model** ([HMIS Logical](http://www.hudhdx.info/Resources/Vendors/HMIS_2020_Model_v1_4.png) Model) – The HMIS Logical Model illustrates the relationships between HMIS data elements. Descriptions of business logic in this document are based on the assumption that those relationships are also present in HMIS applications. A complete list of the HMIS data elements and fields relevant to the LSA upload is included in Section 2, LSA Data Universe.

**FY 2020 HMIS CSV Format Specifications v1.7**([HMIS CSV](https://www.hudhdx.info/Resources/Vendors/HMIS%20CSV%20Specifications%20FY2020%20v1.7.pdf)) – Descriptions of LSA business logic reference HMIS fields using the column names of the HMIS CSV.

**Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program** ([HIC/PIT Notice](https://files.hudexchange.info/resources/documents/Notice-CPD-18-08-2019-HIC-PIT-Data-Collection-Notice.pdf))

### Style Notes

Throughout this document, descriptions of business logic reference various types of data – HMIS fields, report parameters, derived variables, intermediate data constructs, etc. – and many have similar (or identical) names.

To help clarify, many sections include simple graphics to illustrate the flow of the process described, and formatting the text of variable/field/column names is used to indicate their context. The conventions used include:

|  |  |
| --- | --- |
| **Example** | **Description** |
| ReportCoC | Report parameters are underlined. |
| hmis\_Project | HMIS data structures are depicted with the flowchart symbol for ‘database.’ |
| hmis\_Project | HMIS data structures / raw HMIS data are referenced using HMIS CSV file names with an hmis\_ prefix. This assumes the presence/availability of all HMIS data from 10/1/2012 to ReportEnd. |
| *ProjectID* | References to HMIS fields / raw HMIS data use HMIS CSV column names and are italicized. hmis\_Project.*ProjectID* potentially refers to any project record in the HMIS where the operating end date is >= 10/1/2012. |
| lsa\_Project | CSV files included in the LSA upload are represented by the flowchart symbol for ‘document.’ |
| lsa\_Project | The lsa\_ prefix indicates a CSV file included in the LSA upload and that the data therein is the result of a process / business logic defined by this document. |
| **ProjectID** | References to variables and/or data created or transformed by the processes described in this document – e.g., columns in LSA CSV files or intermediate data constructs – are in bold. lsa\_Project.**ProjectID** refers only to project records that meet the criteria for inclusion in the uploaded Project.csv file. |
| tlsa\_Enrollment | Intermediate data constructs are represented by the flowchart symbol for ‘internal storage.’ |
| Vendor Info | The flowchart symbol for ‘manual input’ appears infrequently; it is used to represent user-entered and/or hard-coded values. |

## Definitions/Acronyms

The definitions here are intended to serve as a general reference and are not comprehensive with respect to business logic, which is detailed in later sections.

**AO** – Adult-only household; a household in which all household members have valid dates of birth and are age 18 or older.

**AC** – Adult and child household; a household in which at least one household member is age 18 or older and at least one household member is age 17 or younger and both have valid dates of birth; may include household members without valid dates of birth.

**Between** – When used to describe business logic, *between* includes the values used in the description. For example, the report start date and the report end date are both “between ReportStart and ReportEnd.”

**CO** – Child-only household; a household in which all household members have valid dates of birth and are age 17 or younger.

**Cohort** – A group of clients who meet the criteria for inclusion in reporting in a specific timeframe. See also “Exit Cohorts."

**Cohort period** – The period of time that defines a cohort (e.g. “the first six months of the report period.”)

**Continuous** (in reference to a period of homelessness or enrollment) – A period in which relevant system use for a given client is documented in HMIS and is uninterrupted by any period of seven or more contiguous days of a permanently housed situation, no documented system use, or a combination of those.

**Enrollment** – A period of time in which a client receives services from a given project, beginning with the *Project Start Date* recorded in HMIS and ending on the *Project Exit Date*.

**ES** – Emergency shelter projects. ES clients are considered to be experiencing homelessness while enrolled; any date between ES project entry and the day prior to exit is included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness *as long as there is no conflicting data that identifies the client as enrolled in TH or housed in RRH/PSH*.

**EST** or **ES/SH/TH** – Emergency shelter, safe haven, and/or transitional housing projects; i.e., residential project types in which all clients are homeless while enrolled. Demographics for clients served in these three project types are reported in the combined ES/SH/TH project group.

**Exit Cohorts** – Groups of households who exited from continuum projects and have no record of relevant system use in HMIS during the following 14 days. There are three exit cohort periods – and thus three exit cohorts – included in the LSA.

**HIC** – Housing Inventory Count; an annual continuum-level report to HUD listing continuum ES, SH, TH, RRH, PSH, and OPH projects and associated bed and unit inventory dedicated to serving people experiencing homelessness.

**HDX** – Homelessness Data Exchange; a HUD website that accepts and stores CoC-level reports, including the HIC, the PIT, the SPM report, and the LSA upload. HIC, PIT, and SPM reports are collected and stored in the HDX 1.0 and the LSA is collected and stored in the HDX 2.0.

**Informational value** – For HMIS data elements, a response category defined by the HMIS Data Standards that provides the information collected in a given field, e.g. ‘Yes’ and ‘No’ are both informational values for *3.07 Veteran Status*. ‘Client doesn’t know (8), ‘Client refused’ (9), and ‘Data not collected (99) are not informational; they are explanations for missing data. Response categories ‘Other’ (17) and ‘No exit interview completed’ (30) for *3.12 Destination* are also not informational.

**LOTH** – Length of time homeless. LOTH reporting includes counts of households grouped by total number of days in ES, SH, and TH projects, in RRH and PSH projects prior to moving into housing, and in ES/SH or on the street prior to project entry as identified in *3.917 Living Situation*. Although it is not, by definition, ‘homeless,’ time housed in RRH is also included in LOTH output.

**OPH** – Permanent housing project types other than PSH or RRH; specifically, projects typed in HMIS as *PH – Housing Only* (9) or *PH – Housing with Services (no disability required for entry)* (10). With the exception of project descriptor data, data associated with OPH projects is specifically excluded from the LSA.

**PIT Count** – Point in Time Count; a continuum-level report to HUD, required at least every two years, that reports on the total number of people experiencing sheltered and unsheltered homelessness in the geographic area of the continuum on a single night, usually on a night in the last 10 calendar days of January.

**Population** – As used in this document, a group of people in households with one or more members who have specific characteristics that may indicate that the households have needs and/or eligibility for services that differ from the broader homeless population; for example, households fleeing domestic violence or unaccompanied children. The LSA upload includes population-specific output.

**Project group** – ES, SH, and TH (combined), RRH (only), and PSH (only). Demographics reporting for the active cohort is produced separately for each of these three project groups.

**PSH** – Permanent supportive housing for formerly homeless people.

* PSH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
* For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
* In general, a client may not be counted as experiencing homeless on any date between PSH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**Report period** – The period of time between the report start date and report end date report parameters.

**RRH** – Rapid Re-Housing projects.

* RRH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
* For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
* A client may not be counted as experiencing homeless on any date between RRH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**SH** – Safe Haven projects. All SH clients are considered to be experiencing homelessness while enrolled; any date between SH project entry and the day prior to exit is included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness *as long as there is no conflicting enrollment data that identifies the client as enrolled in TH or housed in RRH/PSH*.

**SPM** – HUD’s System Performance Measures report, a CoC-level report uploaded to or manually entered into the HDX.

**System exit** – An exit from a continuum ES, SH, TH, RRH, or PSH project followed by a period of at least 14 days in which the household is not active in any other continuum ES, SH, TH, RRH, or PSH projects.

**System path** – The distinct combination of project types in which a household was enrolled during a continuous period of system use that overlaps with the report/cohort period, including enrollments prior to the start of the report/cohort period.

**TH** – Transitional housing for homeless people. All TH clients are considered to be experiencing homelessness while enrolled; however, no date between TH project entry and the day prior to exit may be included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**UN** – Unknown household type; includes at least one member without a valid date of birth and does not include both an adult and a child.

# HDX 2.0 Upload

The Longitudinal Systems Analysis (LSA) upload is a .zip file containing a total of 10 CSV files generated by the HMIS application. Files are listed below with a brief description and links to the sections of this document that define the business logic for the file.

A separate data dictionary with a complete list of the columns and values associated with each of these files is available in the LSA tool kit as an Excel workbook.

## Project.csv

The structure of Project is defined by the HMIS CSV; it contains HMIS Data Element *2.02 Project Information* for continuum ES, SH, TH, RRH, PSH, and/or OPH projects active during the report period. It is referenced as lsa\_Project in this document.

See section [4.1Get Project.csv Records / lsa\_Project](#_Get_Project.csv_Records).

## Organization.csv

The structure of Organization is defined by the HMIS CSV; it contains HMIS data element *2.01 Organization Information* for each project included in Project.csv. It is referenced as lsa\_Organization in this document

See section [4.2 Get Organization.csv Records / lsa\_Organization](#_Get_Organization.csv_Records).

## Funder.csv

The structure of Funder is defined by the HMIS CSV; it contains HMIS data element *2.06 Funding Sources* records active during the report period for each project included in Project.csv.

See section [4.3 Get Funder.csv Records / lsa\_Funder](#_Get_Funder.csv_Records).

## ProjectCoC.csv

The structure of ProjectCoC is defined by the HMIS CSV; it contains HMIS data element *2.03 Continuum of Care Code* records associated with ReportCoC for each project included in Project.csv.

See section [4.4 Get ProjectCoC.csv Records / lsa\_ProjectCoC](#_Get_Inventory.csv_Records) .

## Inventory.csv

The structure of Inventory is defined by the HMIS CSV; it contains HMIS data element *2.07 Bed and Unit Inventory Information* records active during the report period for each project included in Project.csv.

See section [4.5 Get Inventory.csv Records / lsa\_Inventory](#_Get_Inventory.csv_Records_1).

## LSAReport.csv

LSAReport contains 61 columns, including report metadata, report parameters, and HMIS data quality reporting. The HDX 2.0 uses these data to process the upload file and to assess the reliability of the data.

See:

* [Section 3.1 Report Parameters and Metadata](#_Report_Parameters_and)
* [Section 9. HMIS Business Logic: LSAReport Data Quality and ReportDate](#_HMIS_Business_Logic:_4)

## LSAPerson.csv

LSAPerson contains 55 columns and includes reporting on people active during the report period. Columns include the following types of data:

* Identifiers for project types, household types, and populations in which clients were served.
* Age categories for all clients; age is the only demographic reported for children who are not heads of household.
* Demographics reported for adults and heads of household, including gender, race, ethnicity, veteran status, disability status, and domestic violence status.

Rows represent specific combinations of these data points. Each active client is counted in one row; the sum of **RowTotal**values in the file is equal to the total number of active clients in the report period.

It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more people represented by the distinct combination of column values – is limited to the number of active clients. However, there are billions of possible combinations of column values, and including rows that that do not represent any clients would result in files of unmanageable size.

See [Section 5: HMIS Business Logic: LSAPerson](#_HMIS_Business_Logic:_1).

## LSAHousehold.csv

LSAHousehold contains 66 columns and includes reporting on households active during the report period.Columns include the following types of data:

* Identifiers for project types and populations in which each household was served.
* Demographics including living situation, destination, household composition, project geography, and system engagement.
* Lengths of time homeless (LOTH) and enrolled in RRH/PSH during the report period and any continuous episode of homelessness prior to ReportStart that overlaps with the report period.

Rows represent specific combinations of these data points. Each active household is counted in one row; the sum of **RowTotal**values in the file is equal to the total number of households active in the report period.

It is critical that all values in the **RowTotal** column are integers > 0. When each row includes a count of one or more households represented by the distinct combination of column values, the total number of rows– is limited to the number of active households. However, the number of possible distinct combinations of column values is massive and including rows that do not represent any households could result in unmanageable file sizes.

See [Section 6: HMIS Business Logic: LSAHousehold](#_HMIS_Business_Logic:_2).

## LSAExit.csv

LSAExit contains 16 columns of information, plus the **ReportID**. The file identifies households with system exits – i.e., exits from a continuum project followed by at least two weeks without an active enrollment – in three distinct periods:

* Cohort -2 – Begins two years prior to the report start date and ends two years prior to the end date.
* Cohort -1– Begins one year prior to the report start date and ends one year prior to the end date.
* Cohort 0 – Begins on the report start date, If the report period is at least six months, the cohort period ends at six months; otherwise, the cohort period is the same as the report period.

Columns include the following types of data:

* Identifiers for project types, household types, and populations in which clients were served;
* Destination types; and
* For clients that returned to the homeless continuum, length of time to return and project type to which the client returned.

Rows represent specific combinations of these data points. Unlike LSAHousehold, LSAExit may include more than one row for any given household if the household has qualifying exits in more than one cohort period. Each household is counted in one row for each exit cohort in which they occur. The sum of **RowTotal** values in the file, grouped by Cohort, is equal to the total number of households in each of the respective cohorts. It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more households represented by the distinct combination of column values – is limited to the number of active households. However, there are billions of possible distinct combinations of column values and including rows that do not represent any households could result in files of unmanageable size.

See [Section 7. HMIS Business Logic: LSAExit](#_HMIS_Business_Logic:_5).

## LSACalculated.csv

This file is used to upload calculated values for report output that cannot be derived from the aggregate data. It is used to populate columns that report on average number of days for all household types and populations in:

* System Use – Length of Time Homeless
* System Use – Cumulative Length of Time in PSH
* System Use – Length of Time in RRH Projects
* Returns – Days to Return/Re-engage by Exit Destination
* Days to Return/Re-engage by Last Project Type
* Days to Return/Re-engage by System Path
* Days to Return/Re-engage by Population

It is also used for counts of persons, households, and bednights, including:

* Project-level counts of households and clients active at any point in the report period and on four specific dates during the report period; and
* Project-level counts of total bednights in the report period.

The **Value** column holds the average or count. Other columns identify the report row, household type, population, etc.

See [Section 8. HMIS Business Logic: LSACalculated](#_HMIS_Business_Logic:_6).

# HMIS Business Logic: Core Concepts

The universe of HMIS project, client, and enrollment data used to generate the LSA is very broad in scope. It uses systemwide enrollment data for continuum ES, SH, TH, RRH, and PSH projects and includes project descriptor data for OPH projects; and may include enrollments with exit dates and projects with operating end dates as far back as 2012.

The HMIS data required for the LSA are shown below. The fields relevant to the business logic of the report are listed.

**hmis\_Client**

PersonalID

SSN

SSNDataQuality

DOB

DOBDataQuality

Gender

Race

Ethnicity

VeteranStatus

**hmis\_Enrollment**

EnrollmentID

PersonalID

ProjectID

EntryDate

HouseholdID

RelationshipToHoH

LivingSituation

LengthOfStay

PreviousStreetESSH

DateToStreetESSH

TimesHomelessPastThreeYears

MonthsHomelessPastThreeYears

DisablingCondition

MoveInDate

**hmis\_HealthAndDV**

EnrollmentID

InformationDate

DomesticViolenceVictim

CurrentlyFleeing

**hmis\_Services**

EnrollmentID

DateProvided (BedNightDate)

RecordType

**hmis\_EnrollmentCoC**

EnrollmentID

InformationDate

CoCCode

**hmis\_Exit**

EnrollmentID

ExitDate

Destination

**hmis\_ProjectCoC**

ProjectID

CoCCode

GeographyType

hmis\_Project

ProjectID

OperatingEndDate

ContinuumProject

ProjectType

TrackingMethod

**hmis\_Organization**

**hmis\_Inventory**

**hmis\_Funder**

The business logic in this section defines core concepts: report parameters, reporting cohorts, basic criteria for record selection, and identification of household types in various contexts.

Any given enrollment may be relevant for a variety of reporting purposes, each of which has specific criteria, but there is a common set of criteria that applies to identification of relevant HMIS data in every aspect of LSA reporting.

There are also adjustments to HMIS move-in and exit dates that may be required to resolve conflicts with other HMIS data that apply regardless of how a particular enrollment is being used for reporting.

To simplify subsequent steps and to reduce repetition, the logic associated with selection of valid enrollments and resolution of data conflicts is described here for all HMIS *HouseholdID*s active on or after 10/1/2012 in continuum ES/SH/TH/RRH/PSH projects that meet the core criteria.

As described, it is a process that creates records in two ‘temporary tables’ – tlsa\_HHID and tlsa\_Enrollment. They are highly de-normalized and include both HMIS data (e.g., *ProjectType*) and calculated variables (e.g., **HHType**) that are set once in these tables and referenced repeatedly in subsequent steps.

* A record is created in tlsa\_HHID for each *HouseholdID* with columns for frequently-used data, including effective/adjusted move-in and exit dates where relevant (section 3.3).
* A record is created in tlsa\_Enrollment for each validated *EnrollmentID* with columns for frequently used data, including effective/adjusted move-in and exit dates where relevant (section 3.4).

Household type is determined by the ages of household members. The calculation of age and household type is context-dependent – some processes require household type based on ages at project entry; others require household type based on age at the later of project entry or the start of a given cohort period. As described:

There are multiple age columns in tlsa\_Enrollment (**EntryAge**, **ActiveAge**, etc.) and multiple household type columns in tlsa\_HHID (**EntryHHType**, **ActiveHHType**, etc.). Descriptions of business logic associated with age and household type processes are not repeated in subsequent sections.

Report Parameters

tlsa\_CohortDates

lsa\_Report

tlsa\_HHID

hmis\_Exit

hmis\_EnrollmentCoC

hmis\_Enrollment

hmis\_Services

hmis\_Project

hmis\_Exit

hmis\_Client

hmis\_Enrollment

hmis\_HealthAndDV

tlsa\_Enrollment

Insert parameters to LSAReport

*HouseholdIDs* active 10/1/2012-ReportEnd

Get cohort start/end dates

Associated enrollments

Get enrollment ages

Set household types

## Report Parameters and Metadata (lsa\_Report)

lsa\_Report

Report Parameters

Vendor Info

User-entered report parameters are included in LSAReport for upload to HDX 2.0. When they are applied in subsequent steps, their source is represented in graphics using lsa\_Report. References to individual report parameters are always underlined – e.g., ReportStart – in descriptions of business logic.

### Relevant Data

#### Source

User-entered and vendor-provided data.

#### Target

|  |
| --- |
| LSAReport |
| ReportID |
| ReportStart |
| ReportEnd |
| ReportCoC |
| LSAScope |
| SoftwareVendor |
| SoftwareName |
| VendorContact |
| VendorEmail |

### Logic

#### ReportID

**ReportID** is a system-generated integer that distinctly identifies an instance of LSA output and is repeated in each of the CSV files to confirm that they were produced together.

#### ReportStart

**Report Start Date** (ReportStart) – For submission to HUD, this must be the first day (October 1) of the fiscal year for which the LSA is being produced. It must be possible for a user to select any date on or after October 1, 2015.

The data type for the column is date; values should be formatted as ‘yyyy-mm-dd’.

#### ReportEnd

**Report End Date** (ReportEnd) - For submission to HUD, this must be the last day (September 30) of the fiscal year for which the LSA is being produced.

* It must be possible for a user to select any date >= ReportStart. However, since the LSA is resource-intensive, HMIS vendors may limit the ability of users to specify date ranges beyond one year in length.
* The phrase “report period,” in the context of this document, refers to the period between ReportStart and ReportEnd, inclusive of those two dates.

The data type for the column is date; values should be formatted as ‘yyyy-mm-dd’.

#### ReportCoC

**CoC Code** (ReportCoC) – The HUD-assigned code identifying the continuum for which the LSA is being produced. Users must be able to select one CoC from a drop-down list that includes all *2.03 Continuum of Care Codes* for which they are authorized to generate the LSA.

The column is limited to six characters – e.g., ‘XX-999’ – and must match the HDX 2.0 value for the CoC for which the user is uploading data.

#### LSAScope

LSAScope is a user-selected report parameter.

| LSAScope Values | Category |
| --- | --- |
| 1 | Systemwide |
| 2 | Project-focused |

**Systemwide** – LSA reporting procedures must identify projects relevant to the LSA based on project types and business logic defined by this document without requiring the user to select individual projects. (**LSAScope** must be 1 for submissions to HUD.)

**Project-Focused** – Users must be able to specify a subset of one or more HMIS projects such that clients included in reporting are limited to those served in the selected projects. (Reporting on system use and chronic homelessness uses systemwide data regardless of LSAScope.) Projects available to select should be limited to:

Continuum projects (*ContinuumProject* = 1)

ES, SH, TH, RRH, and PSH projects (*ProjectType* in (1,2,3,8,13)

Regardless of LSAScope, reporting on system use and chronic homelessness for the clients and households included in reporting always uses systemwide data.

#### User-Selected Projects (for Project-Focused LSA)

For a project-focused LSA, the HMIS *ProjectID*s for the projects selected by the user are also a parameter. This parameter is applied when selecting PDDE data for export.

#### SoftwareVendor and SoftwareName

**SoftwareVendor** and **SoftwareName** must be hard-coded to ensure that the values are consistent across all HMIS implementations. Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

#### VendorContact and VendorEmail

Vendors may elect to provide contact information or to populate these columns with ‘n/a.’ In either case, **VendorContact** and **VendorEmail** must be hard-coded by the vendor. Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

## LSA Reporting Cohorts and Dates (tlsa\_CohortDates)

lsa\_Report

tlsa\_CohortDates

A ‘cohort’ refers to a group of clients and/or households who meet specific criteria and were served in a given time frame.

The user-entered LSA report period – ReportStart to ReportEnd – defines the **active cohort**, which includes people and households served in continuum ES, SH, TH, RRH, and PSH projects during that time frame. Reporting in LSAPerson and LSAHousehold is limited to the active cohort.

The LSA is not limited to the active cohort, however; it includes reporting for multiple time frames and cohorts.

LSAExit is limited to reporting on are three **exit cohorts**, which include households who:

* Exited from a continuum ES, SH, TH, RRH, or PSH project during three cohort time periods; and
* Were not enrolled in any continuum ES, SH, TH, RRH, or PSH project in the 14 days after exit.

There are four **point-in-time cohorts**, which include people and households active in residence (i.e., with a bed night) in continuum ES, SH, TH, RRH, or PSH projects on four specific dates during the report period. Reporting on these cohorts is limited to counts in LSACalculated.

Finally, there is a **data quality cohort**, which includes people and households with enrollments active in the three year period ending on ReportEnd. Data quality reporting is in both LSAReport and LSACalculated.

This section defines the logic associated with deriving the cohort periods based on ReportStart and ReportEnd.

### Relevant Data

#### Source

|  |
| --- |
| lsa\_Report |
| ReportStart |
| ReportEnd |

#### Target

Cohorts and cohort periods are referenced in subsequent steps using an intermediate data construct/temporary table called tlsa\_CohortDates.

|  |
| --- |
| tlsa\_CohortDates |
| Cohort |
| CohortStart |
| CohortEnd |

### Logic

Point-in-time cohorts are only included if the relevant date falls between ReportStart and ReportEnd. Other cohorts are always included.

|  |  |  |  |
| --- | --- | --- | --- |
| Cohort | Cohort Type | CohortStart | CohortEnd |
| -2 | Exit Minus 2 | (ReportStart - 2 years) | (ReportEnd - 2 years) |
| -1 | Exit Minus 1 | (ReportStart - 1 year) | (ReportEnd – 1 year) |
| 0 | Exit 0 | ReportStart | If [ReportEnd – 6 months] <= ReportStart, use ReportEnd  Otherwise, [ReportEnd – 6 months] |
| 1 | Active | ReportStart | ReportEnd |
| 10 | Point in time 10/31 | October 31 of ReportStart year | = **CohortStart** |
| 11 | Point in time 1/31 | January 31 of ReportEnd year | = **CohortStart** |
| 12 | Point in time 4/30 | April 30 of ReportEnd year | = **CohortStart** |
| 13 | Point in time 7/31 | July 31 of ReportEnd year | = **CohortStart** |
| 20 | Data quality | ([ReportEnd – 3 years] + 1 day) | ReportEnd |

## HMIS Household Enrollments (tlsa\_HHID)

lsa\_Report

tlsa\_HHID

hmis\_Exit

hmis\_EnrollmentCoC

hmis\_Enrollment

hmis\_Services

hmis\_Project

Not all of the *HouseholdID*s identified in this step will ultimately be used by LSA reporting processes. Subsequent steps define the specific criteria associated with each step. However, all subsequent steps are based on the following assumptions:

1. All LSA reporting is limited to enrollments that meet the core criteria defined in this step; and
2. Any reference to **MoveInDate** or **ExitDate** as a property of tlsa\_HHID or tlsa\_Enrollment is a reference to the effective/adjusted exit and move-in dates consistent with the logic in this step.

References to hmis\_Enrollment.*MoveInDate* and hmis\_Exit.*ExitDate* are to raw HMIS data as entered.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportCoC |
| ReportEnd |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

|  |  |
| --- | --- |
| **tlsa\_HHID** | **Column Description** |
| **HouseholdID** | Distinct *HouseholdIDs* served in continuum ES/SH/TH/RRH/PSH projects between 10/1/2012 and ReportEnd |
| **HoHID** | The unique identifier for the head of household – i.e., the *PersonalID* from the enrollment associated with the *HouseholdID* where *RelationshipToHoH* = 1. |
| **EnrollmentID** | From hmis\_Enrollment |
| **ProjectID** | From hmis\_Enrollment |
| **ProjectType** | From hmis\_Project |
| **TrackingMethod** | From hmis\_Project |
| **EntryDate** | From hmis\_Enrollment |
| **MoveInDate** | From hmis\_Enrollment – the move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS. (See below.) |
| **ExitDate** | The effective *ExitDate* for the HoH enrollment, which may differ from the *ExitDate* recorded in hmis\_Exit. (See below.) |
| **LastBednight** | If *ProjectType* = 1 and *TrackingMethod* = 3, the latest *BedNightDate* for the HoH on or before ReportEnd |
| EntryHHType | For all household enrollments, household type based on household member ages as of their **EntryDate** |
| ActiveHHType | For all household enrollments, household type as the enrollment might be relevant to reporting on the active cohort. For those active in the report period, this is based on household member ages as of the later of **EntryDate** and ReportStart. For inactive enrollments, which may be relevant to reporting on system use or homelessness prior to the report period, this is always the **EntryHHType**. |
| Exit1HHType | For all household enrollments, household type as the enrollment might be relevant to reporting on exit cohort -1. For household enrollments where **ExitDate** occurs in the cohort period, household type based on ages as of the later of **EntryDate** and **CohortStart.** For enrollments before and after the cohort period, which may be relevant to reporting on system use or returns, this is always the **EntryHHType**. |
| Exit2HHType | For all household enrollments, household type as the enrollment might be relevant to reporting on exit cohort -2. For household enrollments where **ExitDate** occurs in the cohort period, household type based on ages as of the later of **EntryDate** and **CohortStart.** For enrollments before and after the cohort period, which may be relevant to reporting on system use or returns, this is always the **EntryHHType**. |
| ExitCohort | Identifies the cohort period in which the **ExitDate** occurs, if any; set in section [7.1 Identify Qualifying Exits in Exit Cohort Periods](#_Identify_Qualifying_Exits) |
| **ExitDest** | Exit destination, if any. |
| Active | Identifies **HouseholdID**s included in the active cohort |
| HHChronic | Identifies households with a chronically homeless HoH or adult  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| HHVet | Identifies households with one or more veteran adults  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| HHDisability | Identifies households with a disabled HoH or other adult  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| HHFleeingDV | Identifies households fleeing domestic violence  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| HHAdultAge | Identifies age-related populations (e.g., Senior 55+, Parenting Youth 18-24, Non-Veteran 25+)  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| HHParent | Identifies households where at least one household member has a *RelationshipToHoH* of ‘Child’ (2)  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |
| AC3Plus | Identifies AC households with 3 or more household members under 18  See section [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5) |

### Logic

#### HMIS Data Requirements and Assumptions

**The HMIS Lead must identify and merge duplicate records for individual clients prior to generating the LSA.** Theproduction of an unduplicated count of people experiencing homelessness is a fundamental purpose of HMIS. As such, it has been a requirement of every version of the HMIS Data Standards since March 2010 that an HMIS application must have functionality that allows the HMIS Lead to de-duplicate records with different *PersonalID*s for the same client. For the LSA, it is particularly critical that HMIS Leads *utilize* this functionality; it is not otherwise possible to produce accurate longitudinal and/or systemwide reporting.

**Unless otherwise specified by this document, reporting procedures must exclude any data which is inconsistent with the HMIS Data Standards and HMIS CSV Specifications.** Both the programming specifications and sample code assume the existence of relational database tables with properties consistent with the HMIS CSV specifications, to include column names, primary keys, foreign keys, and column values limited to those defined for HMIS. Referential integrity is also assumed. There are defined requirements for addressing a limited number of data issues in LSA reporting; however, it is outside the scope of this document to anticipate every potential inconsistency. In systems that – for whatever reason – allow users to create records that are inconsistent with HMIS requirements, it is the responsibility of the vendor to be aware of these exceptions and exclude the records from LSA reporting.

**Deleted data are never used for reporting.** Any record marked as deleted must be excluded from LSA reporting.

**Only data associated with valid enrollments in continuum projects is included in the LSA.** A valid enrollment has, at a minimum, an *EntryDate*, a *PersonalID*, a *ProjectID*, a *HouseholdID*, a valid *RelationshipToHoH*, and an *EnrollmentCoC* associated with the head of household’s *EnrollmentID*. Data not associated with a valid enrollment – including bed nights in systems that allow users to create a record of a bednight without a valid enrollment – is excluded from the LSA.

**For any given *HouseholdID*, there must be exactly one enrollment record where *RelationshipToHoH* = 1**. If the HMIS allows users to create enrollments with no designated HoH and/or with more than one designated HoH:

* Those enrollments will be excluded from LSA reporting.
* A count of enrollments with <> 1 HoH will be included in LSAReport.**NotOneHoH**.
* CoCs may upload LSA file sets where **NotOneHoH** > 0 to HDX 2.0 for local use and review.
* CoCs may not submit LSA file sets where **NotOneHoH1** or **NotOneHoH3** > 0 to HUD for use in the AHAR. Invalid HoH data must be corrected and a new LSA file set must be uploaded.

**A head of household must be present for the duration of a project stay.** If the HMIS allows users to enter household member enrollments with entry dates prior to that of the HoH or with exit dates after that of the HoH:

* For household member enrollments with entry dates before the HoH, LSA reporting procedures will use the HoH *EntryDate*.
* For household member enrollments that remain open after the HoH has exited, reporting procedures will use the HoH *ExitDate*.

**An *ExitDate* must be at least one day later than the *EntryDate*.** Enrollments with a duration of less than a day will be excluded from LSA reporting.

**Households with RRH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will be counted as housed in RRH.** It is consistent with the RRH model that a project might provide services and/or financial assistance to assist a household in obtaining permanent housing that do not continue past the date that the household moves in. As such, a household is considered housed in RRH on their *MoveInDate* even if it coincides with the *ExitDate*. This is the only circumstance under which a bed night is counted for an *ExitDate*.

**Households with PSH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will not be counted as housed in PSH.** It is not consistent with the PSH model, which includes long-term residential services, that a household could be considered housed by the project with an exit on the move-in date.

**For night-by-night ES, any *ExitDate* must be one day after the last recorded bed night.** For any exit where there is not a record of a bed night for the preceding date:

* LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
* *Destination* willbe reported as unknown, if applicable.

**Night-by-night ES clients are to be auto-exited after an extended period without a bed night.** For any night-by-night ES enrollment where there is no record of an exit and there is no record of a bed night in the 90 days ending on ReportEnd:

* LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
* *Destination* willbe reported as unknown, if applicable.

**Enrollments are effectively terminated when a project ceases operation.** If there are enrollments that remain open after a project’s *OperatingEndDate* – i.e., do not have an exit date or have an exit date that is later than the project end date:

* LSA reporting procedures will use the operating end date as the effective exit date.
* *Destination* willbe reported as unknown, if applicable.

#### Record Selection

Potentially relevant *HouseholdID*s are those associated with one or more project enrollments that meet the following criteria.

* Project.*ProjectType* in (2,3,8,13) or (Project.*ProjectType* = 1 and *TrackingMethod* in (0,3))
* Project.*ContinuumProject* = 1
* Project.*OperatingEndDate* is NULL; or
  + Project.*OperatingEndDate* >= 10/1/2012 and > Project.*OperatingStartDate*
* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Enrollment.*EntryDate* <= ReportEnd
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Exit.*ExitDate* is NULL or (Exit*.ExitDate* >= 10/1/2012’ and Exit*.ExitDate* > Enrollment.*EntryDate*)
* There is an EnrollmentCoC record where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between ReportStart and ReportEnd

#### MoveInDate

For LSA reporting, the *MoveInDate* is set for the head of household from the HMIS enrollment record only if it occurs before the end of the report period and is logically consistent with the project type, the head of household’s entry/exit dates, and the project’s operating dates:

|  |  |
| --- | --- |
| Condition | Effective Move-In Date |
| Project.*ProjectType* not in (3,13) | NULL |
| *MoveInDate* < *EntryDate* | NULL |
| *MoveInDate* > Exit.*ExitDate* | NULL |
| *MoveInDate* = Exit.*ExitDate* and *ProjectType* = 3 | NULL |
| *MoveInDate* > ReportEnd | NULL |
| *MoveInDate* > Project.*OperatingEndDate* | NULL |
| (any other) | *MoveInDate* |

#### Last Bed Night for Night-by-Night Shelter Enrollments

Where Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, **LastBedNight** refers to the most recent record (Services.*RecordType* = 200) of a bed night associated with the head of household’s enrollment where:

* *DateProvided* between 10/1/2012 and ReportEnd; and
* *DateProvided* >= Enrollment.*EntryDate*; and
* *DateProvided* < Exit.*ExitDate* or Exit.*ExitDate* is NULL; and
* *DateProvided* < Project.*OperatingEndDate* or Project.*OperatingEndDate* is NULL.

#### ExitDate

Exits that occur after the end of the report period are not relevant; if *ExitDate* > ReportEnd, the tlsa\_HHID.**ExitDate** should be NULL unless one of the conditions below apply.

In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, reporting must be based on an adjusted *ExitDate* consistent with the logic below. If applicable, *Destination* for these enrollments is reported as ‘Unknown’ (99).

* For any enrollment that remains open at the time a project ceases operation, the project’s *OperatingEndDate* is the effective *ExitDate*.
* The effective *ExitDate* is [LastBednight + 1 day] for any enrollment in a night-by-night shelter where:
  + The recorded *ExitDate* is more than one day after the last bed night; or
  + There is no *ExitDate* and LastBedNight is 90 days or more prior to ReportEnd.

|  |  |
| --- | --- |
| Condition | Effective Exit Date |
| [**LastBednight** + 90 days] <= ReportEnd and *ExitDate* is NULL | [**LastBednight**+ 1 day] |
| *ExitDate* > [**LastBednight** + 1 day] | [**LastBednight**+ 1 day] |
| Project.*OperatingEndDate* < ReportEnd and *ExitDate* is NULL | Project.*OperatingEndDate* |
| Project.*OperatingEndDate* < ReportEnd and *ExitDate* > Project.*OperatingEndDate* | Project.*OperatingEndDate* |
| *ExitDate* > ReportEnd | NULL |
| (any other) | *ExitDate* |

#### ExitDest

The LSA includes reporting on exit destinations for the active and exit cohorts. Destination for inactive enrollments may also be relevant to system engagement status for the active and exit cohorts. The LSA exit destination categories are:

| LSA Value | Category |
| --- | --- |
| 1 | PSH |
| 2 | PH - rent/temp subsidy |
| 3 | PH - rent/own with subsidy |
| 4 | PH - rent/own no subsidy |
| 5 | Family – perm |
| 6 | Friends – perm |
| 7 | Institutions - group/assisted |
| 8 | Institutions - medical |
| 9 | Institutions - incarceration |
| 10 | Temporary - not homeless |
| 11 | Homeless - ES/SH/TH |
| 12 | Homeless – Street |
| 13 | Family – temp |
| 14 | Friends – temp |
| 15 | Deceased |
| 99 | Unknown |

In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, (see **ExitDate** above), destination is always reported as unknown where relevant.

* If tlsa\_HHID.**ExitDate** is null, **ExitDest** = null
* If tlsa\_HHID.**ExitDate** <> hmis\_Exit.*ExitDate*, **ExitDest** = 99.
* Otherwise, set **ExitDest** based on hmis\_Exit.*Destination* using the crosswalk below.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 3 | Permanent housing (other than RRH) for formerly homeless persons | 1 |
| 31 | Rental by client, with RRH or equivalent subsidy | 2 |
| 19 | Rental by client, with VASH housing subsidy | 3 |
| 20 | Rental by client, with other ongoing housing subsidy | 3 |
| 21 | Owned by client, with ongoing housing subsidy | 3 |
| 26 | Moved from one HOPWA funded project to HOPWA PH | 3 |
| 28 | Rental by client, with GPD TIP housing subsidy | 3 |
| 33 | Rental by client, with HCV voucher (tenant or project based) | 3 |
| 34 | Rental by client in a public housing unit | 3 |
| 10 | Rental by client, no ongoing housing subsidy | 4 |
| 11 | Owned by client, no ongoing housing subsidy | 4 |
| 22 | Staying or living with family, permanent tenure | 5 |
| 23 | Staying or living with friends, permanent tenure | 6 |
| 15 | Foster care home or foster care group home | 7 |
| 25 | Long-term care facility or nursing home | 7 |
| 4 | Psychiatric hospital or other psychiatric facility | 8 |
| 5 | Substance abuse treatment facility or detox center | 8 |
| 6 | Hospital or other residential non-psychiatric medical facility | 8 |
| 7 | Jail, prison or juvenile detention facility | 9 |
| 14 | Hotel or motel paid for without emergency shelter voucher | 10 |
| 29 | Residential project or halfway house with no homeless criteria | 10 |
| 1 | Emergency shelter, including hotel or motel paid for with ES voucher | 11 |
| 2 | Transitional housing for homeless persons | 11 |
| 18 | Safe Haven | 11 |
| 27 | Moved from one HOPWA funded project to HOPWA TH | 11 |
| 32 | Host home (non-crisis) | 11 |
| 16 | Place not meant for habitation | 12 |
| 12 | Staying or living with family, temporary tenure | 13 |
| 13 | Staying or living with friends, temporary tenure | 14 |
| 24 | Deceased | 15 |
|  | (any other) | 99 |

## HMIS Client Enrollments (tlsa\_Enrollment)

lsa\_Report

tlsa\_HHID

hmis\_Exit

hmis\_Client

hmis\_Enrollment

hmis\_HealthAndDV

tlsa\_Enrollment

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HouseholdID |
| ProjectID |
| ProjectType |
| TrackingMethod |
| EntryDate |
| MoveInDate |
| ExitDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| DisablingCondition |
| **hmis\_HealthAndDV** |
| InformationDate |
| DomesticViolenceVictim |
| CurrentlyFleeing |
| **hmis\_Client** |
| PersonalID |
| DOB |
| DOBDataQuality |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

| **tlsa\_Enrollment** | **Column Description** |
| --- | --- |
| **EnrollmentID** | Distinct *EnrollmentIDs* in continuum ES/SH/TH/RRH/PSH projects between 10/1/2012 and ReportEnd |
| **PersonalID** | From hmis\_Enrollment |
| **HouseholdID** | From hmis\_Enrollment, limited to *HouseholdID*s in tlsa\_HHID |
| **RelationshipToHoH** | From hmis\_Enrollment |
| **ProjectID** | From tlsa\_HHID |
| **ProjectType** | From tlsa\_HHID |
| **TrackingMethod** | From tlsa\_HHID |
| **EntryDate** | From hmis\_Enrollment |
| **MoveInDate** | Based on tlsa\_HHID – the move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS or for the HoH. (See below.) |
| **ExitDate** | Based on hmis\_Exit, the effective exit date for the enrollment, which may differ from the *ExitDate* recorded in hmis\_Exit. (See below.) |
| EntryAge | The client’s age as of **EntryDate** |
| ActiveAge | For enrollments active in the report period, the client’s age as of the later of **EntryDate** and ReportStart. For all other enrollments, this will be the same as **EntryAge** |
| Exit1Age | For enrollments with an exit date between **CohortStart** and **CohortEnd** for exit cohort -1, client age as of the later of **EntryDate** and **CohortStart** for the relevant cohort period. For all other enrollments, this will be the same as **EntryAge** |
| Exit2Age | For enrollments with an exit date between **CohortStart** and **CohortEnd** for exit cohort -2, client age as of the later of **EntryDate** and **CohortStart** for the relevant cohort period. For all other enrollments, this will be the same as **EntryAge** |
| **DisabilityStatus** | From hmis\_Enrollment; used repeatedly in subsequent steps for demographic reporting and to identify households and people included in various populations of interest |
| **DVStatus** | From hmis\_HealthAndDV; used repeatedly in subsequent steps for demographic reporting and to identify households and people included in various populations of interest |
| Active | Identifies enrollments that meet the criteria for inclusion in the active cohort |
| CH | Identifies enrollment relevant to reporting on chronic homelessness |

### Logic

#### Record Selection

Active enrollments:

* *HouseholdID* meets the selection criteria for inclusion in tlsa\_HHID (HHID)
* Enrollment.*RelationshipToHoH* in (1,2,3,4,5)
* Enrollment.*EntryDate* < than the first non-NULL of HHID.**ExitDate** and ReportEnd
* Exit.*ExitDate* is NULL or
  + Exit*.ExitDate* >= 10/1/2012; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*;
  + Exit.*ExitDate* > HHID.*EntryDate*.

#### EntryDate

In the event that a household member’s EntryDate is prior to that of the head of household, the head of household’s will be used as the effective entry date for the household member – i.e., tlsa\_Enrollment.**EntryDate** should be set to tlsa\_HHID.**EntryDate**.

#### MoveInDate

All of the requirements for *MoveInDate* that apply to the active household also apply to all household members’ individual enrollments. If the household’s effective *MoveInDate* is logically inconsistent with a household member’s entry/exit dates, additional logic applies to setting the household member’s effective *MoveInDate.*

* If the household *MoveInDate* is prior to a household member’s *EntryDate*, the effective *MoveInDate* for the household member’s enrollment is the same as their *EntryDate*.
* If the household *MoveInDate* is after a household member’s *ExitDate*, the household member does not have a *MoveInDate.*
* If a household member exits the project on the date that the head of household moves in to permanent housing AND the household remains active in the project, the household member does not have a *MoveInDate*.

|  |  |
| --- | --- |
| Condition | Effective Move-In Date |
| HHID.**MoveInDate** < Enrollment.*EntryDate* | Enrollment.*EntryDate* |
| HHID.**MoveInDate** > Exit.*ExitDate* | NULL |
| HHID.**MoveInDate** = Exit.*ExitDate* and HHID.**ExitDate** is NULL | NULL |
| HHID.**MoveInDate** = Exit.*ExitDate* and HHID.**ExitDate** > Exit.*ExitDate* | NULL |
| (any other) | HHID.**MoveInDate** |

#### ExitDate

All of the requirements for *ExitDate* that apply to the active household apply to all household members. In addition, no household member’s enrollment may continue past the head of household’s actual or effective exit date (tlsa\_HHID.**ExitDate**).

If a household member’s enrollment remains active after the household exit date (actual or effective), the effective exit date for the household member is the same as the household’s exit date.

|  |  |
| --- | --- |
| Condition | Effective Exit Date |
| *ExitDate* > ReportEnd | NULL |
| *ExitDate* > HHID.**ExitDate** | HHID.**ExitDate** |
| *ExitDate* is NULL and HHID.**ExitDate** is not NULL | HHID.**ExitDate** |
| (any other) | *ExitDate* |

#### DisabilityStatus

Because it is relevant and used repeatedly in subsequent steps both for demographic reporting and for identification of people and households who are part of specific populations of interest (e.g, Households with a Disabled Adult or Head of Household) , a preliminary enrollment-level value is included in tlsa\_Enrollment.

|  |  |
| --- | --- |
| Enrollment DisablingCondition Value | DisabilityStatus |
| 0 | 0 |
| 1 | 1 |
| (any other) | NULL |

#### DVStatus

Because it is relevant and used repeatedly in subsequent steps both for demographic reporting and for identification of people and households who are part of specific populations of interest (e.g, Households Fleeing Domestic Violence) , a preliminary enrollment-level value is included in tlsa\_Enrollment.

It is the minimum DVStatus value in the table below based on *DomesticViolenceVictim* and *CurrentlyFleeing* values for any record associated with the enrollment and dated:

* On or before ReportEnd: and
* On or before tlsa\_Enrollment.**ExitDate**, if it is not null.

|  |  |  |
| --- | --- | --- |
| DomesticViolenceVictim | CurrentlyFleeing | DVStatus |
| 1 | 1 | 1 |
| 1 | 0 | 2 |
| 1 | (any other) | 3 |
| 0 | (n/a) | 10 |
| In (8,9) | (n/a) | 98 |
| (any other) | (n/a) | NULL |

## Enrollment Ages (tlsa\_Enrollment)

lsa\_Report

tlsa\_CohortDates

hmis\_Client

tlsa\_Enrollment

Age isused to determine household type, for demographic reporting, and to identify households and people in reporting populations of interest. This section defines the logic associated with determining client age for all enrollments in all contexts that age may be relevant.

It uses data in tlsa\_CohortDates and hmis\_Client to set age group values for tlsa\_Enrollment.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| ReportEnd |
| **tlsa\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |
| **tlsa\_Enrollment** |
| EntryDate |
| RelationshipToHoH |
| ExitDate |
| **hmis\_Client** |
| DOB |
| DOBDataQuality |

#### Target

|  |
| --- |
| **tlsa\_Enrollment** |
| **EntryAge** |
| **ActiveAge** |
| **Exit1Age** |
| **Exit2Age** |

### Logic

#### EntryAge

A client’s age at project entry is based on hmis\_Client *DOB* and *DOBDataQuality* and the entry date for the enrollment.

All dates of birth must be validated; a client’s age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is anything other than ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* The calculation would result in an age over 105 years old;
* *DOB* is later than *EntryDate* for the enrollment; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate* for the enrollment

The first of the criteria listed below met by the combination of values for *DOB,* *DOBDataQuality,* and **EntryDate** determines the **EntryAge** for each enrollment:

| Priority | Condition | AgeGroup | LSA Category |
| --- | --- | --- | --- |
| 1 | *DOBDataQuality* in (8,9) | 98 | Client doesn't know/refused |
| 2 | *DOBDataQuality* not in (1,2) | 99 | Missing/invalid |
| 3 | *DOB* is missing or set to a system default | 99 | Missing/invalid |
| 4 | *DOB* *> EntryDate* | 99 | Missing/invalid |
| 5 | *RelationshipToHoH* = 1 and *DOB* *= EntryDate* | 99 | Missing/invalid |
| 5 | [*DOB* *+* 105 years] *<=* **EntryDate** | 99 | Missing/invalid |
| 6 | [*DOB* *+* 65 years] *<=* **EntryDate** | 65 | 65 and older |
| 7 | [*DOB* *+* 55 years] *<=* **EntryDate** | 64 | 55 to 64 |
| 8 | [*DOB* *+* 45years] *<=* **EntryDate** | 54 | 45 to 54 years |
| 9 | [*DOB* *+* 35years] *<=* **EntryDate** | 44 | 35 to 44 years |
| 10 | [*DOB* *+* 25 years] *<=* **EntryDate** | 34 | 25 to 34 years |
| 11 | [*DOB* *+* 22 years] *<=* **EntryDate** | 24 | 22 to 24 years |
| 12 | [*DOB* *+* 18 years] *<=* **EntryDate** | 21 | 18 to 21 years |
| 13 | [*DOB* + 6 years] *<=* **EntryDate** | 17 | 6 to 17 years |
| 14 | [*DOB* + 3 years] *<=* **EntryDate** | 5 | 3 to 5 years |
| 15 | [*DOB* + 1 years] *<=* **EntryDate** | 2 | 1 to 2 years |
| 16 | (other) | 0 | <1 year |

#### Once **EntryAge** is set, an additional adjustment may be required so that the date of birth (or lack thereof) used to calculate age is consistent across all enrollments. For any given **PersonalID**, if there is any enrollment in tlsa\_Enrollment where **EntryAge** = 99, **EntryAge** for all enrollments should be set to 99.

#### ActiveAge

**ActiveAge** is calculated for all enrollments. For enrollments active in the report period, it will only differ from **EntryAge** if the **EntryDate** < ReportStart (and may not differ then).

For inactive enrollments, it is equal to **EntryAge.** (Age for inactive enrollments may be needed to report on active client/household history.)

| Priority | Condition | AgeGroup |
| --- | --- | --- |
| 1 | **ExitDate** < ReportStart | **EntryAge** |
| 2 | **EntryDate** *>=* ReportStart | **EntryAge** |
| 3 | **EntryAge** in (98,99) | **EntryAge** |
| 4 | [*DOB* *+* 65 years] *<=* ReportStart | 65 |
| 5 | [*DOB* *+* 55 years] *<=* ReportStart | 64 |
| 5 | [*DOB* *+* 45years] *<=* ReportStart | 54 |
| 6 | [*DOB* *+* 35years] *<=* ReportStart | 44 |
| 7 | [*DOB* *+* 25 years] *<=* ReportStart | 34 |
| 8 | [*DOB* *+* 22 years] *<=* ReportStart | 24 |
| 9 | [*DOB* *+* 18 years] *<=* ReportStart | 21 |
| 10 | [*DOB* + 6 years] *<=* ReportStart | 17 |
| 11 | [*DOB* + 3 years] *<=* ReportStart | 5 |
| 12 | [*DOB* + 1 years] *<=* ReportStart | 2 |
| 13 | (other) | 0 |

#### Exit1Age/Exit2Age

**Exit1Age/Exit2Age** are set for all enrollments as they apply to reporting on exit cohorts -1 and -2.

Like **ActiveAge**, they will differ from **EntryAge** only when the enrollment meets the time criteria for inclusion in the cohort (**ExitDate** is between **CohortStart** and **CohortEnd** ) AND the **EntryDate** is before the start of the cohort period. Otherwise, the exit age = **EntryAge**.

| Priority | Condition | AgeGroup |
| --- | --- | --- |
| 1 | **ExitDate** not between **CohortStart** and **CohortEnd** | **EntryAge** |
| 2 | **ExitDate** between **CohortStart** and **CohortEnd** and **EntryDate** *>=* **CohortStart** | **EntryAge** |
| 3 | **EntryAge** in (98,99) | **EntryAge** |
| 4 | [*DOB* *+* 65 years] *<=* **CohortStart** | 65 |
| 5 | [*DOB* *+* 55 years] *<=* **CohortStart** | 64 |
| 5 | [*DOB* *+* 45years] *<=* **CohortStart** | 54 |
| 6 | [*DOB* *+* 35years] *<=* **CohortStart** | 44 |
| 7 | [*DOB* *+* 25 years] *<=* **CohortStart** | 34 |
| 8 | [*DOB* *+* 22 years] *<=* **CohortStart** | 24 |
| 9 | [*DOB* *+* 18 years] *<=* **CohortStart** | 21 |
| 10 | [*DOB* + 6 years] *<=* **CohortStart** | 17 |
| 11 | [*DOB* + 3 years] *<=* **CohortStart** | 5 |
| 12 | [*DOB* + 1 years] *<=* **CohortStart** | 2 |
| 13 | (other) | 0 |

## Household Types (tlsa\_HHID)

tlsa\_HHID

tlsa\_Enrollment

tlsa\_CohortDates

This section defines the logic associated with determining household type for each active household.

It uses the tsla\_Enrollment **EntryAge**, **ActiveAge**, **Exit1Age**, and **Exit2Age** values set in the previous step to set tlsa\_HHID **EntryHHType, ActiveHHType, Exit1HHType** and **Exit2HHType**.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Enrollment** |
| HouseholdID |
| EntryDate |
| ExitDate |
| EntryAge |
| ActiveAge |
| Exit1Age |
| Exit2Age |
| **tlsa\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |

#### Target

|  |
| --- |
| **tlsa\_HHID** |
| **EntryHHType** |
| **ActiveHHType** |
| **Exit1HHType** |
| **Exit2HHType** |

### Logic

Household type for each **HouseholdID** is based on counts of distinct **PersonalID**s in tlsa\_Enrollment by age status – adult, child, or unknown – for enrollments associated with the *HouseholdID*.

Age status is based on the **Entry/Active/Exit1/Exit2Age** value for each enrollment, as shown below.

|  |  |  |
| --- | --- | --- |
| Age Status | Age | Entry/Active/Exit1/Exit2Age |
| Adult | 18 and over | Between 21 and 65 |
| Child | Under 18 | Between 0 and 17 |
| Unknown | Unknown | 98 or 99 |

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### EntryHHType

Calculate for tlsa\_HHID based on **EntryAge** for all records in tlsa\_Enrollment with the same **HouseholdID**.

**EntryHHType** is based on all household members’ age at the time of their own project entry. It is not a point-in-time determination – for households whose members entered at different times, it may differ from the household type as of the head of household’s entry and/or household members’ entry dates.

#### ActiveHHType

If tlsa\_HHID.**EntryDate** is >= ReportStart or tlsa\_HHID.**ExitDate** < ReportStart, **ActiveHHType** = **EntryHHType**.

For all other households, **ActiveHHType** is based on **ActiveAge** values for records in tlsa\_Enrollment with the same **HouseholdID** where **ExitDate** is NULL or **ExitDate** >= ReportStart. In other words, if the household is active in the report period, household type is based only on the ages of household members who were also active in the report period.

**ActiveHHType** is set for all household enrollments active in the report period, but it is not an indicator that the household meets all of the criteria for inclusion in the active cohort, which are described in section [5.1 Get Active HouseholdIDs](#_Get_Active_HouseholdIDs_1). .

#### Exit1HHType/Exit2HHType

If tlsa\_HHID.**EntryDate** is >= **CohortStart** or tlsa\_HHID.**ExitDate** < **CohortStart**, **Exit(1 or 2)HHType** = **EntryHHType**.

For all other households, **Exit1HHType** is based on **Exit1Age** and **Exit2HHType** is based on **Exit2Age** for all records in tlsa\_Enrollment with the same **HouseholdID** and:

* Where tlsa\_Enrollment.**ExitDate** is between **CohortStart** and **CohortEnd**

# HMIS Business Logic: Project Descriptor Data for Export

## Get Project.csv Records / lsa\_Project

lsa\_Project

hmis\_Project

hmis\_ProjectCoC

lsa\_Report

LSAScope = 2 ProjectIDs

Records exported to Project.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic in subsequent steps is dependent on the identification of projects that meet the criteria for inclusion. References to lsa\_Project.**ProjectID** are to these projects; references to hmis\_Project records are to all projects in HMIS.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| ReportEnd |
| ReportCoC |
| **hmis\_Project** |
| (all columns – see below) |
| **hmis\_ProjectCoC** |
| CoCCode |

#### Target

HDX 2.0 validation of Project.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

|  |  |
| --- | --- |
| lsa\_Project | Column Description |
| ProjectID | (See HMIS CSV documentation) |
| OrganizationID | (See HMIS CSV documentation) |
| ProjectName | Truncate HMIS value in export if >50 characters |
| ProjectCommonName | n/a – will not be imported |
| OperatingStartDate | (See HMIS CSV documentation) |
| OperatingEndDate | If not NULL, date must be >= ReportStart |
| ContinuumProject | Must = 1 |
| ProjectType | Must be in (1,2,3,8,9,10,13) |
| HousingType | Must be in (1,2,3) / no NULL values |
| ResidentialAffiliation | Must be NULL |
| TrackingMethod | If **ProjectType** = 1, value must be 0 or 3;  If **ProjectType** <> 1, must be NULL |
| HMISParticipatingProject | (See HMIS CSV documentation) |
| TargetPopulation | (See HMIS CSV documentation) |
| PITCount | n/a – will not be imported |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a – will not be imported |
| ExportID | Must match **ReportID** in LSAReport.csv |

### Logic

#### Systemwide LSA

When the LSA is being generated for all relevant projects systemwide, export records for projects where:

* *OperatingEndDate* is NULL; or
  + *OperatingEndDate* >= 10/1/2012 and > *OperatingStartDate*
* *ContinuumProject* = Yes (1)
* ProjectCoC.*CoCCode* = ReportCoC
* *ProjectType* is ES (1), SH (8), TH (2), RRH (13), PSH (3), or OPH (9 or 10)

All project records that meet the criteria above should be included, including projects that do not participate in HMIS.

The export of PDDE data for a systemwide LSA includes records for permanent housing project types ‘PH – Housing Only’ (9) and ‘PH – Housing with Services (no disability required for entry)’ (10). This is the only context in which data associated with projects of these types are relevant to the LSA.

#### Project-Focused LSA

If the LSA is being generated for a subset of projects, export records for projects where:

* *OperatingEndDate* is NULL; or
  + *OperatingEndDate* >= 10/1/2012 and > *OperatingStartDate*
* ProjectCoC.*CoCCode* = ReportCoC
* *ProjectID* is in [list of user-selected *ProjectID*s]
  + Section 2.1 requires that the projects available to a user for selection when entering report parameters must be limited to *ProjectType*s ES (1), SH (8), TH (2), RRH (13), and PSH (3), so records for other project types are never included when **LSAScope** = 2.

#### Systemwide and Project-Focused LSA

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

*ProjectType* and *HousingType* may be NULL under some circumstances in the HMIS CSV; none of those circumstances apply to projects included in the LSA. Upload validation will fail if those columns do not have valid non-NULL values.

**ProjectCommonName**, **PITCount**, and **UserID** may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get Organization.csv Records / lsa\_Organization

hmis\_Organization

lsa\_Project

lsa\_Organization

Records exported to Organization.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Organization data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| OrganizationID |
| **hmis\_Organization** |
| (all columns – see below) |

#### Target

HDX 2.0 validation of Organization.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

|  |  |
| --- | --- |
| lsa\_Organization | Column Description |
| OrganizationID | (See HMIS CSV documentation) |
| OrganizationName | Truncate HMIS value in export if >50 characters |
| VictimServicesProvider | (See HMIS CSV documentation) |
| OrganizationCommonName | n/a - will not be imported |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be exactly one record for every *OrganizationID* included in Project.csv.

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**OrganizationCommonName**and **UserID**may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get Funder.csv Records / lsa\_Funder

lsa\_Funder

hmis\_Funder

lsa\_Report

lsa\_Project

Records exported to Funder.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Funder data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| ProjectID |
| **lsa\_Report** |
| ReportStart |
| **hmis\_Funder** |
| (all columns – see below) |

#### Target

HDX 2.0 validation of Funder.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

|  |  |
| --- | --- |
| lsa\_Funder | Column Description |
| FunderID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| Funder | (See HMIS CSV documentation) |
| OtherFunder | (See HMIS CSV documentation) |
| GrantID | n/a - will not be imported |
| StartDate | (See HMIS CSV documentation) |
| EndDate | (See HMIS CSV documentation) |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be at least one Funder record for every **ProjectID** included in Project.csv. Export records where:

* *EndDate* is NULL or (*EndDate* >= ReportStart and *EndDate* > *StartDate*)

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**GrantID**and **UserID**may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get ProjectCoC.csv Records / lsa\_ProjectCoC

lsa\_ProjectCoC

hmis\_ProjectCoC

lsa\_Report

lsa\_Project

Records exported to ProjectCoC.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic uses ProjectCoC data to:

* Select project records for export to Project.csv; and
* Report on geography type for active households in LSAHousehold.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| ProjectID |
| **lsa\_Report** |
| ReportCoC |
| **hmis\_ProjectCoC** |
| (all columns – see below) |

#### Target

HDX 2.0 validation of ProjectCoC.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

|  |  |
| --- | --- |
| lsa\_ProjectCoC | Column Description |
| ProjectCoCID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| CoCCode | (See HMIS CSV documentation) |
| Geocode | Not NULL. *Geocode* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted. |
| Address1 | (See HMIS CSV documentation) |
| Address2 | (See HMIS CSV documentation) |
| City | (See HMIS CSV documentation) |
| State | (See HMIS CSV documentation) |
| ZIP | Not NULL. Note that *ZIP* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted. If ZIP codes are collected with a four-digit suffix, only the first five digits should be exported. |
| GeographyType | Not NULL / in (1,2,3) |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be exactly one ProjectCoC record for every *ProjectID* included in Project.csv. Export only records where *CoCCode* = ReportCoC.

The HMIS CSV allows NULL values for *Geocode*, *ZIP* and *GeographyType.* However, they are mandatory for the LSA and upload validation will fail if those columns do not contain valid values.

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**UserID**may be exported as NULL; regardless of value, it will not be imported into the HDX 2.0.

## Get Inventory.csv Records / lsa\_Inventory

lsa\_Inventory

hmis\_Inventory

lsa\_Report

lsa\_Project

Records exported to Inventory.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Inventory data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| ReportEnd |
| ReportCoC |
| **lsa\_Project** |
| ProjectID |
| **hmis\_Inventory** |
| (all columns – see below) |

#### Target

HDX 2.0 validation of Inventory.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

|  |  |
| --- | --- |
| lsa\_Inventory | Column Description |
| InventoryID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| CoCCode | (See HMIS CSV documentation) |
| HouseholdType | In (1,3,4) |
| Availability | NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3) |
| UnitInventory | (See HMIS CSV documentation) |
| BedInventory | (See HMIS CSV documentation) |
| CHVetBedInventory | Not NULL |
| YouthVetBedInventory | Not NULL |
| VetBedInventory | Not NULL |
| CHYouthBedInventory | Not NULL |
| YouthBedInventory | Not NULL |
| CHBedInventory | Not NULL |
| OtherBedInventory | Not NULL |
| ESBedType | NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3) |
| InventoryStartDate | < ReportEnd |
| InventoryEndDate | NULL or >= ReportStart |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be at least one Inventory record for every *ProjectID* included in Project.csv. Export all records where:

* *CoCCode =* ReportCoC
* *InventoryEndDate* is NULL or (*InventoryEndDate* >= ReportStart and > *InventoryEndDate* > *InventoryStartDate*)

The HMIS CSV allows NULL values for *CHVetBedInventory*, *YouthVetBedInventory*, *VetBedInventory*, *CHYouthBedInventory*, *YouthBedInventory*, *CHBedInventory*, and *OtherBedInventory*. They are mandatory for the LSA and upload validation will fail if those columns do not have valid non-NULL values.

Populate *ExportID* with LSAReport.**ReportID***;* the data type for *ExportID* is a string, so values must be padded with quotes.

*UserID* may be exported as NULL; regardless of its value, it will not be imported into the HDX 2.0.

# HMIS Business Logic: LSAPerson

The data type for every column in LSAPerson is integer; no value may be NULL.

| # | Column Name | Notes |
| --- | --- | --- |
| 1 | **RowTotal** | A count of distinct PersonalIDs for active clients, grouped by all values in the other columns. Must be > 0. |
| 2 | **Gender** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 3 | **Race** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 4 | **Ethnicity** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 5 | **VetStatus** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 6 | **DisabilityStatus** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 7 | **CHTime** | See [5.5 Time Spent in ES/SH or on the Street](#_Toc34144028)  through [5.10 CHTime and CHTimeStatus](#_CHTime_and_CHTimeStatus) |
| 8 | **CHTimeStatus** | See [5.5 Time Spent in ES/SH or on the Street](#_Toc34144028)  through [5.10 CHTime and CHTimeStatus](#_CHTime_and_CHTimeStatus) |
| 9 | **DVStatus** | See [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| 10 | **ESTAgeMin** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 11 | **ESTAgeMax** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 12 | **HHTypeEST** | See [5.12 HHTypeEST/RRH/PSH](#_HHTypeEST/RRH/PSH_-_LSAPerson) |
| 13 | **HoHEST** | See [5.13 HoHEST/RRH/PSH](#_HoHEST/RRH/PSH) |
| 14 | **AdultEST** | See [5.15 AdultEST/RRH/PSH](#_AHARHoHEST/RRH/PSH) |
| 15 | **HHChronicEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 16 | **HHVetEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 17 | **HHDisabilityEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 18 | **HHFleeingDVEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 19 | **HHAdultAgeAOEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 20 | **HHAdultAgeACEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 21 | **HHParentEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 22 | **AC3PlusEST** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 23 | **AHAREST** | See [5.14 AHAREST/RRH/PSH](#_AHAREST/RRH/PSH__–) |
| 24 | **AHARHoHEST** | See [5.16 AHARHoHEST/RRH/PSH](#_AHARHoHEST/RRH/PSH_1) |
| 25 | **RRHAgeMin** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 26 | **RRHAgeMax** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 27 | **HHTypeRRH** | See [5.12 HHTypeEST/RRH/PSH](#_HHTypeEST/RRH/PSH_-_LSAPerson) |
| 28 | **HoHRRH** | See [5.13 HoHEST/RRH/PSH](#_HoHEST/RRH/PSH) |
| 29 | **AdultRRH** | See [5.15 AdultEST/RRH/PSH](#_AHARHoHEST/RRH/PSH) |
| 30 | **HHChronicRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 31 | **HHVetRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 32 | **HHDisabilityRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 33 | **HHFleeingDVRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 34 | **HHAdultAgeAORRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 35 | **HHAdultAgeACRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 36 | **HHParentRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 37 | **AC3PlusRRH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 38 | **AHARRRH** | See [5.14 AHAREST/RRH/PSH](#_AHAREST/RRH/PSH__–) |
| 39 | **AHARHoHRRH** | See [5.16 AHARHoHEST/RRH/PSH](#_AHARHoHEST/RRH/PSH_1) |
| 40 | **PSHAgeMin** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 41 | **PSHAgeMax** | See [5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax](#_EST/RRH/PSHAgeMin_and_EST/RRH/PSHAg) |
| 42 | **HHTypePSH** | See [5.12 HHTypeEST/RRH/PSH](#_HHTypeEST/RRH/PSH_-_LSAPerson) |
| 43 | **HoHPSH** | See [5.13 HoHEST/RRH/PSH](#_HoHEST/RRH/PSH) |
| 44 | **AdultPSH** | See [5.15 AdultEST/RRH/PSH](#_AHARHoHEST/RRH/PSH) |
| 45 | **HHChronicPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 46 | **HHVetPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 47 | **HHDisabilityPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 48 | **HHFleeingDVPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 49 | **HHAdultAgeAOPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 50 | **HHAdultAgeACPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 51 | **HHParentPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 52 | **AC3PlusPSH** | See [5.17 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_5)  and [5.18 Set Population Identifers for LSAPerson from Active Households](#_Set_Population_Identifiers_4) |
| 53 | **AHARPSH** | See [5.14 AHAREST/RRH/PSH](#_AHAREST/RRH/PSH__–) |
| 54 | **AHARHoHPSH** | See [5.16 AHARHoHEST/RRH/PSH](#_AHARHoHEST/RRH/PSH_1) |
| 55 | **ReportID** | Must match ReportID in LSAReport; see [4.1 Report Metadata for LSAReport](#_Report_Metadata_for) |

## Get Active HouseholdIDs

lsa\_Report

lsa\_Project

tlsa\_HHID

hmis\_EnrollmentCoC

tlsa\_HHID

This section defines the logic associated with identifying enrollments for heads of household that meet the criteria for inclusion in the active cohort.

It uses data in lsa\_Report and lsa\_Project as parameters applied to tlsa\_HHID and hmis\_EnrollmentCoC. As described, the **Active** column in tlsa\_HHID is set to 1 for each active *HouseholdID*.

References to active **HouseholdID**s and/or any of the columns included in tlsa\_HHID mean records where **Active** = 1 and the column values as they are set in this and subsequent steps.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| ReportEnd |
| ReportCoC |
| **lsa\_Project** |
| ProjectID |
| **tlsa\_HHID** |
| EnrollmentID |
| EntryDate |
| ExitDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

|  |  |
| --- | --- |
| **tlsa\_HHID** | **Column Description** |
| **Active** | 1 identifies HouseholdIDs included in the active cohort |

### Logic

#### Record Selection

Active households are those tlsa\_HHID.**HouseholdID**s where :

* There is a record for the **ProjectID** in lsa\_Project; and
* **EntryDate** <= ReportEnd; and
* **ExitDate** is NULL or**ExitDate** >= ReportStart; and
* hmis\_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent EnrollmentCoC record where *InformationDate* <= ReportEnd
  + The core selection criteria for tlsa\_HHID requires only that there is at least one EnrollmentCoC record for ReportCoC and not that it be the most recent.

## Get Active Enrollments

lsa\_Report

tlsa\_HHID

tlsa\_Enrollment

This section defines the logic associated with identifying all active enrollments associated with the active *HouseholdID*s identified in the previous step.

It uses data in lsa\_Report and tlsa\_HHID as parameters applied to tlsa\_Enrollment and sets the **Active** column in tlsa\_Enrollment to 1 for active enrollments.

References in subsequent sections to active enrollments and of the columns in tlsa\_Enrollment mean the column values as they are set in this and subsequent steps.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HouseholdID |
| Active |
| **tlsa\_Enrollment** |
| EnrollmentID |
| HouseholdID |
| ExitDate |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

|  |
| --- |
| **tlsa\_Enrollment** |
| **Active** |

### Logic

#### Record Selection

**Active** = 1 is set to identify the subset of enrollments in tlsa\_Enrollment where:

* The **HouseholdID** matches a **HouseholdID** in tlsa\_HHID (HHID) where **Active** = 1
* **ExitDate** is NULL or **ExitDate** >= ReportStart

## Get Active Clients for LSAPerson

tlsa\_Enrollment

tlsa\_Person

The tlsa\_Person data construct holds one record for each distinct *PersonalID* in tlsa\_Enrollment where **Active** = 1. It is a client-level version of the aggregate LSAPerson data and is used to set values for each LSA reporting category – **Gender**, **Race**, etc. – for each client. It includes all columns from LSAPerson.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAPerson.

### Relevant Data

#### Source

| tlsa\_Enrollment |
| --- |
| PersonalID |
| Active |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

| tlsa\_Person | Column Description |
| --- | --- |
| PersonalID | Distinct **PersonalID**s tlsa\_Enrollment where **Active** = 1  The count of **PersonalID**s, grouped by the values in all other columns, is used to populate the **RowTotal** column of LSAPerson. |
| HoHAdult | (Does not correlate to a column in LSAPerson.csv)  Identifies whether the client was served as an adult, a head of household, or both for any active enrollment (0 = No, 1 = Adult, 2=HoH, 3 = Adult and HoH); used to simplify later steps.  See section [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| CHStart | (Does not correlate to a column in LSAPerson.csv)  Where **HoHAdult** > 0: [**LastActive** – 3 years + 1 day]; used to calculate **CHTime**.  See section [5.5 Time Spent in ES/SH or on the Street – LSAPerson](#_ES/SH/Street_Time_–). |
| LastActive | (Does not correlate to a column in LSAPerson.csv)  Where **HoHAdult** > 0, the client’s last active date in the report period; used to calculate **CHTime.**  See section [5.5 Time Spent in ES/SH or on the Street – LSAPerson](#_ES/SH/Street_Time_–). |
| Gender | Gender for adults and heads of household; not applicable (value = -1) for non-HoH children  See section [5.4 LSAPerson Demographics](#_LSAPerson_Demographics) |
| Race | Race for adults and heads of household; not applicable (value = -1) for non-HoH children  See section 5.4 LSAPerson Demographics |
| Ethnicity | Ethnicity for adults and heads of household; not applicable (value = -1) for non-HoH children  See section 5.4 LSAPerson Demographics |
| VetStatus | Veteran Status for adults; not applicable (value = -1) for children  See section 5.4 LSAPerson Demographics |
| DisabilityStatus | Disability Status for adults and heads of household based on records of *3.08 Disabling Condition* for all active enrollments; not applicable (value = -1) for non-HoH children  See section 5.4 LSAPerson Demographics |
| CHTime | For adults and heads of household, the total number of days in ES/SH or on the street in the three years prior to the client's last active date in the report period. Based on data from active and inactive enrollments, the count of days excludes any dates when clients were enrolled in continuum TH projects or housed in RRH/PSH, but otherwise includes:   * Dates between entry and exit in continuum entry-exit ES and SH projects; and * Bed-night dates in night-by-night shelters; and * Dates between 3.917 *DateToStreetESSH* and *EntryDate* for ES/SH/TH/RRH/PSH projects; and * Dates between any RRH/PSH EntryDate and the earlier of MoveInDate or ExitDate when LivingSituation is ES/SH/Street; or * For people who do not meet the time criteria for chronic homelessness based on the above, may be set based on 3.917 number of months and number of times homeless in the past three years from ES/SH/TH/RRH/PSH enrollments with entry dates in the year ending on the client's last active date.   See sections [5.5](#_ES/SH/Street_Time_–)-5.10 for associated business logic. |
| CHTimeStatus | For clients with 365+ days of ES/SH/Street time in the three years prior to their last active date (**CHTime**), specifies whether the dates are grouped so that the client meets the time criteria for chronic homelessness. Otherwise not applicable.  See sections [5.5](#_ES/SH/Street_Time_–)-5.10 for associated business logic. |
| DVStatus | DV Status for adults and heads of household based on records of 4.11 Domestic Violence for all active enrollments; not applicable (value = -1) for non-HoH children  See section 5.4 LSAPerson Demographics |
| ESTAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment. |
| ESTAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment. |
| HHTypeEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group. |
| HoHEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group as a head of household |
| AdultEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group as an adult |
| HHChronicEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a chronically homeless adult or HoH. |
| HHVetEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a veteran. |
| HHDisabilityEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a disabled adult or HoH. |
| HHFleeingDVEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAOEST | Population identifier based on the combination of adult household members’ ages for ES/SH/TH clients served in AO households. |
| HHAdultAgeACEST | Population identifier based on the combination of adult household members’ ages for ES/SH/TH clients served in AC households. |
| HHParentEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusEST | Population identifier; indicates whether or not the person was served in ES/SH/TH projects in an AC household with 3 or more household members under 18. |
| AHAREST | The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart). |
| AHARHoHEST | The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart) as head of household. |
| RRHAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active RRH enrollment. |
| RRHAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active RRH enrollment. |
| HHTypeRRH | Identifies household types, if any, in which the person was served in an RRH project. |
| HoHRRH | Identifies household types, if any, in which the person was served in an RRH project as a head of household |
| AdultRRH | Identifies household types, if any, in which the person was served in an RRH project as an adult |
| HHChronicRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a chronically homeless adult or HoH. |
| HHVetRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a veteran. |
| HHDisabilityRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a disabled adult or HoH. |
| HHFleeingDVRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAORRH | Population identifier based on the combination of adult household members’ ages for RRH clients served in AO households. |
| HHAdultAgeACRRH | Population identifier based on the combination of adult household members’ ages for RRH clients served in AO households. |
| HHParentRRH | Population identifier; the combination of household types in which the person was served an RRH project in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusRRH | Population identifier; indicates whether or not the person was served an RRH project in an AC household with 3 or more household members under 18. |
| AHARRRH | The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period). |
| AHARHoHRRH | The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period) as head of household. |
| PSHAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active PSH enrollment. |
| PSHAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active PSH enrollment. |
| HHTypePSH | Identifies household types, if any, in which the person was served in an PSH project. |
| HoHPSH | Identifies household types, if any, in which the person was served in an PSH project as a head of household |
| AdultPSH | Identifies household types, if any, in which the person was served in an PSH project as an adult |
| HHChronicPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a chronically homeless adult or HoH. |
| HHVetPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a veteran. |
| HHDisabilityPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a disabled adult or HoH. |
| HHFleeingDVPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAOPSH | Population identifier based on the combination of adult household members’ ages for PSH clients served in AO households. |
| HHAdultAgeACPSH | Population identifier based on the combination of adult household members’ ages for PSH clients served in AO households. |
| HHParentPSH | Population identifier; the combination of household types in which the person was served an PSH project in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusPSH | Population identifier; indicates whether or not the person was served an PSH project in an AC household with 3 or more household members under 18. |
| AHARPSH | The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period). |
| AHARHoHPSH | The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period) as head of household. |

### Logic

LSAPerson is the source for demographic reporting produced by the HDX 2.0. Every active client is counted in a single row of LSAPerson. Counts in **RowTotal** are grouped by the values in all of the other columns. The sum of **RowTotal** values is the total number of clients in the active cohort.

In the intermediate client-level tlsa\_Person, each active client is represented by a single row with *PersonalID* as the primary key.

## LSAPerson Demographics

hmis\_Enrollment

hmis\_Client

hmis\_HealthAndDV

tlsa\_Person

lsa\_Report

tlsa\_Enrollment

This step defines the logic associated with LSA reporting on personal characteristics – broadly referred to as demographics – for each active adult/head of household in tlsa\_Person.

It uses data in lsa\_Report and active tlsa\_Enrollment records as parameters applied to hmis\_Client, hmis\_Enrollment, and hmis\_HealthAndDV. These data are used to set LSA reporting category values in tlsa\_Person.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| **tlsa\_Enrollment** |
| PersonalID |
| RelationshipToHoH |
| ActiveAge |
| Disability Status |
| DVStatus |
| **hmis\_Client** |
| PersonalID |
| Gender |
| AmIndAKNative |
| Asian |
| BlackAfAmerican |
| NativeHIOtherPacific |
| White |
| RaceNone |
| Ethnicity |
| VeteranStatus |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

| tlsa\_Person |
| --- |
| HoHAdult |
| Gender |
| Race |
| Ethnicity |
| VetStatus |
| DisabilityStatus |
| DVStatus |

### Logic

#### HoHAdult

**HoHAdult** is used to indicate whether the client was served as an adult, a head of household, or both adult and HoH. Children and people of unknown age who were not served as heads of household are included in reporting on age and in population counts of people, but are not included in other demographic counts. There is no parallel **HoHAdult** column in the LSAPerson file, but it is useful in identifying which columns/records to update.

| Value | Category |
| --- | --- |
| 0 | Not HoH or Adult |
| 1 | Adult |
| 2 | HoH |
| 3 | Adult and HoH |

#### Gender

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Gender* values for adults and heads of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Female | 1 | Female |
| 1 | Male | 2 | Male |
| 2 | Trans Female (MTF or Male to Female) | 3 | Transgender |
| 3 | Trans Male (FTM or Female to Male) | 3 | Transgender |
| 4 | Gender non-conforming | 4 | Gender non-conforming |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Missing/invalid |

#### Race

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Race* values for adults and heads of household in the following priority order:

| Priority | HMIS Race Values | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 1 | Regardless of any other data  *Client doesn’t know* (8) or *Client refused* (9) | 98 | Client doesn't know/refused |
| 2 | Regardless of any other race data  *Data not collected* (99) or NULL | 99 | Missing/invalid |
| 3 | Two or more *Race* values selected | 6 | Multiple Races |
| 4 | *White* (5) (only) and Ethnicity <> 1 | 0 | White, non-Hispanic/Latino |
| 4 | *White* (5) (only) and Ethnicity = 1 (Hispanic/Latino) | 1 | White, Hispanic/Latino |
| 4 | *Black or African American* (3) (only) | 2 | Black or African American |
| 4 | *Asian* (2) (only) | 3 | Asian |
| 4 | *American Indian or Alaska Native* (1) (only) | 4 | American Indian or Alaska Native |
| 4 | *Native Hawaiian or Other Pacific Islander* (4) (only) | 5 | Native Hawaiian / Other Pacific Islander |

#### Ethnicity

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Ethnicity* values for adults and heads of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Non-Hispanic/Latino | 0 | Non-Hispanic/Latino |
| 1 | Hispanic/Latino | 1 | Hispanic/Latino |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Unknown |

#### VetStatus

Assign a value of -1 for all clients under 18 or of unknown age (**HoHAdult** = in (0,2)).

Crosswalk HMIS *VeteranStatus* values for adults as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | No | 0 | Not a veteran |
| 1 | Yes | 1 | Veteran |
| 8 | Client doesn’t know | 98 | Client doesn't know/refused |
| 9 | Client refused | 98 | Client doesn't know/refused |
| (any other) | Any other, including NULL | 99 | Missing |

#### DisabilityStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

*DisablingCondition* is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA. Set the value of tlsa\_Person.**DisabilityStatus** to the first LSA Value in the table below where tlsa\_Enrollment.**DisabilityStatus** for any active enrollment matches.

| Priority | tlsa\_Enrollment.DisabilityStatus | tlsa\_Person.DisabilityStatus | LSA Category |
| --- | --- | --- | --- |
| 1 | Yes (1) | 1 | Disabled |
| 2 | No (0) | 0 | Not disabled |
| 3 | (Any other) | 99 | Unknown |

#### DVStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

*DomesticViolenceVictim* is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA. Set the value of of tlsa\_Person.**DVStatus** to the first LSA Value in the table below where tlsa\_Enrollment.**DVStatus** for any active enrollment matches.

| Priority | tlsa\_Enrollment.DVStatus | tlsa\_Person.DVStatus | LSA Category |
| --- | --- | --- | --- |
| 1 | 1 | 1 | DV victim, currently fleeing |
| 2 | 2 | 2 | DV victim, not currently fleeing |
| 3 | 3 | 3 | DV victim, unknown if currently fleeing |
| 4 | 10 | 0 | Not a victim of domestic violence |
| 5 | 98 | 98 | Client doesn't know/refused |
| 6 | NULL | 99 | Missing/invalid |

## Time Spent in ES/SH or on the Street – LSAPerson

The definition of *chronically homeless* specifies the total length of time spent either in a place not meant for human habitation, a safe haven, or in an emergency shelter relevant to chronic homelessness in months: “continuously for at least 12 months” or on four or more occasions for a total of “at least 12 months“ within a timeframe of 3 years.

Specific to the LSA:

* All time related to chronic homelessness is counted in days, i.e., “continuously for at least 365 days” or “in four or more episodes for a total of at least 365 days*”*;
* The three-year timeframe for any given client ends on their last active date in the report period, i.e., it is specific to the client; and
* The count of days is based on a combination of *3.917(A or B) Living Situation* data and entry/exit dates for enrollments in HMIS-participating ES/SH/TH/RRH/PSH projects.

Although a person must have a disabling condition in order to be considered chronically homeless, the LSA includes reporting on time spent in places not meant for habitation, safe haven, and/or emergency shelter for all heads of household and adults, regardless of the value in **DisabilityStatus**. It is based on constructing a timeline of activity for each person in tlsa\_Person based on HMIS enrollment data in the three years ending on the client’s most recent active date in the report period. This will include active enrollments and, for people with relevant enrollments prior to the report period, inactive enrollments.

The relevant columns in LSAPerson – and in tlsa\_Person – are **CHTime** and **CHTimeStatus**. Because of the complexity, the business logic is broken out into five separate steps defined beginning with this section (5.5) and concluding with [section 5.10](#_CHTime_and_CHTimeStatus). Section numbers associated with each step are shown below in the graphic for the relevant data construct.

hmis\_Exit

hmis\_EnrollmentCoC

hmis\_Enrollment

hmis\_Services

hmis\_Project

hmis\_ProjectCoC

tlsa\_Person (5.5)

tlsa\_Enrollment.**CH (5.6)**

tlsa\_Person (5.10)

ch\_Exclude (5.7)

ch\_Include (5.8)

ch\_Episodes (5.9)

lsa\_Report

tlsa\_Enrollment

This is three years of enrollment history for every active adult/HoH – it is not limited to active enrollments.

tlsa\_/hmis\_Enrollment

This section defines how to identify the start (**CHStart**) and end (**LastActive**) dates for the three year period for each adult/HoH in tlsa\_Person based on report parameters in lsa\_Report.

Section 5.6 describes which HMIS enrollments active in that three-year period are relevant. This includes but is not limited to active enrollments for clients with relevant activity prior to the report period. As described, these are identified in tlsa\_Enrollment by setting **CH** = 1.

Section 5.7 defines the logic for establishing, for each adult/HoH in tlsa\_Person, a list of dates on which TH/RRH/PSH enrollment data indicates that the client was NOT on the street or in ES/SH. As described, records of individual dates are inserted to ch\_Exclude.

Section 5.8 specifies how to build, for each adult/HoH in tlsa\_Person, a list of ES/SH/Street dates based on ch\_Enrollment in conjunction with ch\_Exclude. As described, records of individual dates are inserted to ch\_Include.

Section 5.9 describes the business logic associated with identifying ‘occasions’ or an ‘episodes’ – and the length in days for each – given a list of ES/SH/Street dates for a person. As described, this is accomplished by creating records of episodes in ch\_Episode with start and end dates based on ch\_Exclude.

Finally, Section 5.10 describes how to set LSA reporting category values in tlsa\_Person for **CHTime** and **CHTimeStatus** based on a list of episodes with start and end dates (ch\_Episodes) and, for any adult/HoH who does not meet the time-based criteria for chronic homelessness and is missing relevant *3.917 Living Situation* data, update the initial values to reflect missing data.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportEnd |
| **tlsa\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ExitDate |
| **tlsa\_HHID** |
| LastBedNight |
| **tlsa\_Person** |
| HoHAdult |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| **CHStart** |
| **LastActive** |

### Logic

The three-year timeframe for each head of household/adult – the CH date range – is identified in tlsa\_Person with dates in the **CHStart**and**LastActive**columns.

The last active date for any given enrollment is:

* For a night-by-night shelter, the earlier of ReportEnd or [**LastBedNight** + 1 day]; and
* For any other project type, the first non-NULL of **ExitDate** and ReportEnd.

**LastActive** for each record in tlsa\_Person where **HoHAdult** > 0 is the latest active date based on all enrollments.

**CHStart** is(**LastActive** – 3 years) + 1 day.

## Enrollments Relevant to Counting ES/SH/Street Dates

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportEnd |
| ReportCoC |
| **tlsa\_Person** |
| PersonalID |
| HoHAdult |
| CHStart |
| LastActive |
| **tlsa\_Enrollment** |
| EntryDate |
| ExitDate |

#### Target

|  |
| --- |
| **tlsa\_Enrollment** |
| **CH** |

### Logic

Enrollments relevant to determining whether or not a person meets the time criteria for chronic homelessness include active and inactive enrollments from tlsa\_Enrollment where:

* tlsa\_Person.**HoHAdult** > 0 (chronic homelessness is only reported for adults and heads of household)
* **PersonalID**= tlsa\_Person.**PersonalID**
* **EntryDate** <= **LastActive**
* **ExitDate** is NULL or **ExitDate** > **CHStart**

## Get Dates to Exclude from Counts of ES/SH/Street Days (ch\_Exclude)

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Person** |
| CHStart |
| LastActive |
| **tlsa\_Enrollment** |
| PersonalID |
| ProjectType |
| EntryDate |
| MoveInDate |
| ExitDate |
| CH |

#### Target

|  |  |
| --- | --- |
| **ch\_Exclude** | **Column Description** |
| **PersonalID** | **PersonalD** |
| **ExcludeDate** | Distinct dates between **CHStart**and **LastActive** when client was either in TH or housed in RRH/PSH. |

### Logic

Any date on which a client was either in TH or housed in RRH/PSH – i.e., known to be in a place other than one not meant for human habitation, a safe haven, or in an emergency shelter – is generally excluded from the count of ES/SH/Street days, even if there is conflicting information – e.g., an ES enrollment active on the date. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

To resolve potential data conflicts, dates on which a client is enrolled in TH or housed in RRH/PSH are excluded when identifying ES/SH/Street days based on ES/SH enrollment dates, bednights, and *3.917 Prior Living Situation* data. For dates between **CHStart**and **LastActive:**

* For any CH enrollment where **MoveInDate** is not NULL, all dates between **MoveInDate** and the earlier of (**ExitDate** – 1 day) or ReportEnd are excluded.
  + For RRH enrollments where **MoveInDate** = **ExitDate**, the **ExitDate** is also excluded.
* For any CH enrollment where **ProjectType** *=* 2 (TH), all dates between **EntryDate** and the earlier of (**ExitDate** – 1 day) or ReportEnd are excluded.

## Get Dates to Include in Counts of ES/SH/Street Days (ch\_Include)

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Person** |
| PersonalID |
| CHStart |
| LastActive |
| **tlsa\_Enrollment** |
| CH |
| PersonalID |
| EnrollmentID |
| ProjectType |
| TrackingMethod |
| EntryDate |
| MoveInDate |
| ExitDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| LivingSituation |
| LengthOfStay |
| PreviousStreetESSH |
| DateToStreetESSH |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |

#### Target

|  |  |
| --- | --- |
| **ch\_Include** | **Column Description** |
| **PersonalID** | **PersonalD** |
| **ESSHStreetDate** | Distinct dates between **CHStart**and **LastActive** when client was in ES/SH or on the street; also referred to as ES/SH/Street dates. |

### Logic

For each **PersonalID** in tlsa\_Person, any date between **CHStart**and **LastActive** is counted as an **ESSHStreetDate** based on HMIS data if:

* The date is not excluded because the client was enrolled in a TH project or enrolled and housed in an RRH/PSH project (ch\_Exclude.**ExcludeDate**); and
* The date is consistent with any set of criteria listed below based on tlsa\_Enrollments where **CH** = 1.

#### Enrollment in Entry/Exit ES or SH

**ProjectType** = 8 or (**ProjectType** = 1 and **TrackingMethod** = 0); and

**ESSHStreetDate** >= (later of **EntryDate** and **CHStart)***;* and

**ESSHStreetDate** < (earliest non-NULL value for **ExitDate** or [**LastActive** + 1 day])

#### Bed Nights in Night-by-Night ES

**ProjectType** = 1 and **TrackingMethod** = 3; and

**ESSHStreetDate** = *BedNightDate*

*BedNightDate* >= 10/1/2012

*BedNightDate* >= **EntryDate** for the associated enrollment

tlsa\_Enrollment.**ExitDate** is NULL or *BedNightDate* < tlsa\_Enrollment.**ExitDate**

#### ES/SH/Street Dates from 3.917 Living Situation

For enrollments where **EntryDate** > **CHStart**, dates on which the client was on the street on in ES/SH based on 3.917 are included as **ESSHStreetDate**s if they have not already been excluded or included based on prior criteria.

* An **ESSHStreetDate** is counted for ES and SH projects (**ProjectType** in (1,8)) if:
* *LivingSituation* in (1,18,16); and
* **ESSHStreetDate** >= *DateToStreetESSH* and < **EntryDate.**
* For TH, PSH, and RRH projects (ProjectType in (2,3,13)), **ESSHStreetDate**s based on 3.917 are only counted if:
* The client was in ES/SH or on the street prior to entry:
* *LivingSituation* in (1,18,16); or
* *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or
* *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1
* **ESSHStreetDate** >= *DateToStreetESSH*; and
  + **ProjectType** = 2 and **ESSHStreetDate** < **EntryDate**; or
  + **ProjectType** in (3,13) and
    - **ESSHStreetDate** < **MoveInDate**; or
    - **MoveInDate** is NULL and **ESSHStreetDate < ExitDate**; or
    - **MoveInDate** is NULL and **ExitDate** isNULLand **ESSHStreetDate <= LastActive**

#### Gaps of Less than Seven Days Between Two ES/SH/Street Dates

Any date that falls between two ES/SH/Street dates that have been identified using the criteria above and are less than 7 days apart is counted as a ES/SH/Street day.

[Date] > [**ESSHStreetDate***1*]*;* and

[Date] < [**ESSHStreetDate***2*]; and

([**ESSHStreetDate***1*] + 7 days) >= [**ESSHStreetDate***2*]

For example, if a client has *BedNightDate*s on June 1 and June 5 of the same year, the 3 dates between – June 2, 3, and 4 – are also counted as ES/SH/Street dates.

Note that gaps of less than 7 days between **ESSHStreetDate**s are counted as ES/SH/Street dates regardless of ch\_Exclude dates.

## Get ES/SH/Street Episodes (ch\_Episodes)

(Sections 5.5-5.10 outline the logic associated with counting ES/SH/Street dates. See section [5.5 Time Spent in ES/SH or on the Street](#_Time_Spent_in) for an overview and graphic for the process.)

### Relevant Data

#### Source

|  |
| --- |
| **ch\_Include** |
| PersonalID |
| ESSHStreetDate |

#### Target

| ch\_Episodes | Column Description |
| --- | --- |
| PersonalID | tlsa\_Person |
| episodeStart | The first ES/SH/Street date in the series. |
| episodeEnd | The last ES/SH/Street date in the series. |
| episodeDays | The number of days between **episodeStart** and **episodeEnd.** |

### Logic

For purposes of the LSA, an ‘episode’ is a continuous – i.e., uninterrupted by any period of seven or more contiguous days — series of ES/SH/Street dates.

Each record in ch\_Episodes represents an uninterrupted series of ES/SH/Street dates identified in the previous step. Based on ch\_Include for each HoH/adult in tlsa\_Person:

* **episodeStart**is any **ESSHStreetDate** where there is no (**ESSHStreetDate** – 1 day) for the same *PersonalID* – i.e., any ES/SH/Street date where there is no information to indicate that the client was in ES/SH or on the street on the day before.
* **episodeEnd**is the first **ESSHStreetDate** after **episodeStart** where (**ESSHStreetDate** + 1 day) does not exist
* **episodeDays**is the [number of days between **episodeStart** and **episodeEnd**] + 1 day

## CHTime and CHTimeStatus – LSAPerson

(Sections 5.5-5.10 outline the logic associated with counting ES/SH/Street dates; this is the final step. See section [5.5 Time Spent in ES/SH or on the Street](#_Time_Spent_in) for an overview and graphic for the process.)

### Relevant Data

#### Source

|  |
| --- |
| **tsla\_Person** |
| PersonalID |
| HoHAdult |
| **ch\_Episodes** |
| PersonalID |
| episodeStart |
| episodeEnd |
| episodeDays |
| **tlsa\_Enrollment** |
| EnrollmentID |
| CH |
| PersonalID |
| ProjectType |
| **hmis\_Enrollment** |
| PersonalID |
| EntryDate |
| LivingSituation |
| LengthOfStay |
| DateToStreetESSH |
| TimesHomelessPastThreeYears |
| MonthsHomelessPastThreeYears |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

| tlsa\_Person |
| --- |
| CHTime |
| CHTimeStatus |

### Logic

There are a total of ten valid combinations of **CHTime** and **CHTimeStatus** values. They are summarized in the table below; detailed logic follows.

|  |  |  |  |
| --- | --- | --- | --- |
| Priority | CHTime | CHTimeStatus | Category |
| 1 | -1 | -1 | n/a – tlsa\_Person.**HoHAdult** = 0 |
| 2 | 365 | 1 | Client has a ch\_Episode where **episodeDays** >= 365 with an **episodeEnd** in the year ending on **LastActive** |
| 3 | 365 | 2 | Client has 4 or more episodes and the sum of **episodeDays** for all ch\_Episodes is >= 365. |
| 4 | 400 | 2 | Based on 3.917 Living Situation for an enrollment with an *EntryDate* in the year ending on **LastActive**, client was on the street or in ES/SH for 12 or more months and in four or more episodes in three years. |
| 5 | 365 | 3 | The sum of **episodeDays** for all ch\_Episodes is >= 365 but the number of episodes is less than four; no relevant information is missing from records of *3.917 Living Situation*. |
| 5 | 365 | 99 | The sum of **episodeDays** for all ch\_Episodes is >= 365 but the number of episodes is less than four; relevant information is missing from records of *3.917 Living Situation.* |
| -- | 270 | 99 | Client has a total of 270-364 ESSHStreet days and relevant data is missing from *3.917 Living Situation* |
| -- | 270 | -1 | Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data |
| -- | 0 | 99 | Client has a total of 0-269 ESSHStreet days and relevant data is missing from *3.917 Living Situation* |
| -- | 0 | -1 | Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data |

The conditions associated with valid combinations of **CHTime** and **CHTimeStatus** are not all mutually exclusive. **CHTime** and **CHTimeStatus** should be set for the first set of criteria met by records for each person.

1. Set **CHTime**and **CHTimeStatus**= -1 where **HoHAdult**= 0 (the client was not served as a head of household or as an adult).
2. Set **CHTime** = 365 and **CHTimeStatus** = 1 when there is a single episode where:

* ch\_Episodes.**episodeDays** >= 365; and
* ch\_Episodes.**episodeEnd** > (**LastActive**– 1 year)

1. Set **CHTime** = 365 and **CHTimeStatus** = 2 where:

* [SUM of ch\_Episodes.**episodeDays**] >= 365; and
* [COUNT of ch\_Episodes] >= 4

1. Set **CHTime** *=* 400 (12 or more months in three years) and **CHTimeStatus** = 2 (4 or more episodes) where:

* **CHTimeStatus** not in (1,2)
* There is an enrollment in tlsa\_Enrollment where **CH** = 1 and:
  + **EntryDate** > (**LastActive** – 1 year)
  + *TimesHomelessPastThreeYears* = 4 (Four or more times)
  + *MonthsHomelessPastThreeYears* in (112, 113) (12 or more than 12 months)

1. Set **CHTime** = 365 and **CHTimeStatus** = 3 where:

* [SUM of ch\_Episodes.**episodeDays**] >= 365; and
* [COUNT of ch\_Episodes] < 4

1. Set **CHTime = 270** and **CHTimeStatus** = -1 where [SUM of ch\_Episodes.**episodeDays**] between 270 and 364
2. Set **CHTime = 0** and **CHTimeStatus** = -1 where [SUM of ch\_Episodes.**episodeDays**] < 270

After these values are set, there is one additional update to **CHTimeStatus** to identify people who do not meet the time criteria for chronic homelessness and are missing relevant data (i.e., people who might meet the time criteria if data were complete). Set **CHTimeStatus** = 99 for all records in tlsa\_Person where:

* **CHTime** in (0,270) – The total number of **ESSHStreetDate**s in the three years ending on **LastActive** is less than 365; or
* **CHTimeStatus** = 3 – The total number of **ESSHStreetDate**s in the three years ending on **LastActive** is at least 365, but they occur in fewer than four episodes;

AND there is at least one enrollment for the **PersonalID** in tlsa\_Enrollment where **CH** = 1 and any of the following are true:

* *DateToStreetESSH >* **EntryDate**
* *LivingSituation* in (8,9,99) or is NULL
* *LengthOfStay* in (8,9,99) or is NULL
* **ProjectType** in (1,8) or *LivingSituation* in (1,16,18) and

*DateToStreetESSH* is NULL; or

*TimesHomelessPastThreeYears* in (8,9,99) or is NULL

*MonthsHomelessPastThreeYears* in (8,9,99) or is NULL

* **ProjectType** is not in (1,8) and

*LengthOfStay* in (2,3) and *LivingSituation* in (4,5,6,7,15,25) and

*PreviousStreetESSH* is NULL or *PreviousStreetESSH* not in (0,1); or

*PreviousStreetESSH* = 1 and

*DateToStreetESSH* is NULL; or

*TimesHomelessPastThreeYears* in (8,9,99) or is NULL

*MonthsHomelessPastThreeYears* in (8,9,99) or is NULL

*LengthOfStay* in (10,11) and

*PreviousStreetESSH* is NULL or *PreviousStreetESSH* not in (0,1); or

*PreviousStreetESSH* = 1 and

*DateToStreetESSH* is NULL; or

*TimesHomelessPastThreeYears* in (8,9,99) or is NULL

*MonthsHomelessPastThreeYears* in (8,9,99) or is NULL

## EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax – LSAPerson

tlsa\_Enrollment

tlsa\_Person

This section defines the logic associated with setting values for minimum and maximum age columns for each project group – EST, RRH, and PSH – for LSAPerson. These columns indicate:

[**EST**/**RRH**/**PSH**]**AgeMin** – The client’s minimum age at the later of ReportStart and **EntryDate** for any active [EST/RRH/PSH] enrollment.

[**EST**/**RRH**/**PSH**]**AgeMax** – The client’s maximum age at the later of ReportStart and **EntryDate** for any active [EST/RRH/PSH] enrollment.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Enrollment** |
| ProjectType |
| ActiveAge |
| Active |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| **ESTAgeMin** |
| **ESTAgeMax** |
| **RRHAgeMin** |
| **RRHAgeMax** |
| **PSHAgeMin** |
| **PSHAgeMax** |

### Logic

These values are reported for all active clients.

For any client not served in the EST project group – i.e., there is no active enrollment where **ProjectType** in (1,2,8) – set **ESTAgeMin** and **ESTAgeMax** to -1. Otherwise, based on tlsa\_Enrollment records where **Active** = 1:

* **ESTAgeMin** = the smallest **ActiveAge** value where **ProjectType** in (1,2,8)
* **ESTAgeMax** = the largest **ActiveAge** value where **ProjectType** in (1,2,8)

For any client not served in RRH (i.e., there is no active enrollment where **ProjectType** = 13), set **RRHAgeMin** and **RRHAgeMax** to -1. Otherwise:

* **RRHAgeMin** = the smallest **ActiveAge** value where **ProjectType** = 13
* **RRHAgeMax** = the largest **ActiveAge** value where **ProjectType** = 13

For any client not served in PSH (i.e., there is no active enrollment where **ProjectType** = 3), set **PSHAgeMin** and **PSHAgeMax** to -1. Otherwise:

* **PSHAgeMin** = the smallest **ActiveAge** value where **ProjectType** = 3
* **PSHAgeMax** = the largest **ActiveAge** value where **ProjectType** = 3

| Value | AgeGroup |
| --- | --- |
| -1 | n/a – not served in project group |
| 0 | Less than 1 year |
| 2 | 1 to 2 years |
| 5 | 3 to 5 years |
| 17 | 6 to 17 years |
| 21 | 18 to 21 years |
| 24 | 22 to 24 years |
| 34 | 25 to 34 years |
| 44 | 35 to 44 years |
| 54 | 45 to 54 years |
| 64 | 55 to 64 years |
| 65 | 65 or older |
| 98 | Client doesn't know/refused |
| 99 | Missing/invalid |

## HHTypeEST/RRH/PSH - LSAPerson

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

The LSAPerson **HHTypeEST**, **HHTypeRRH**, and **HHTypePSH** columns indicate:

Whether or not the client was served in the EST/RRH/PSH project group; and

If served in the project group, the household type(s) in which the client was served.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ActiveHHType |
| **tlsa\_Enrollment** |
| ProjectType |
| Active |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| **HHTypeEST** |
| **HHTypeRRH** |
| **HHTypePSH** |

### Logic

These columns are reported for all active clients.

Apart from identifying project groups, the logic for the **HHTypeEST** (**ProjectType** in (1,2,8)), **HHTypeRRH** (**ProjectType** = 13), and **HHTypePSH** (**ProjectType** = 13) columns is identical. The values represent the distinct combination of all household types in which the client was served for each given project group.

Based on the **ProjectType** and **ActiveHHType** values from tlsa\_HHID and tlsa\_Enrollment where **Active** = 1, report all household types as shown below:

| HHTypeEST/RRH/PSH | Household Type(s) for Project Group | HHType(s) |
| --- | --- | --- |
| -1 | None - not served in project group | (n/a) |
| 1 | AO | 1 |
| 2 | AC | 2 |
| 3 | CO | 3 |
| 9 | UN | 99 |
| 12 | AO and AC | 1 and 2 |
| 13 | AO and CO | 1 and 3 |
| 19 | AO and UN | 1 and 99 |
| 23 | AC and CO | 2 and 3 |
| 29 | AC and UN | 2 and 99 |
| 39 | CO and UN | 3 and 99 |
| 123 | AO, AC, and CO | 1,2, and 3 |
| 129 | AO, AC, and UN | 1,2, and 99 |
| 139 | AO, CO, and UN | 1,3, and 99 |
| 239 | AC, CO, and UN | 2,3, and 99 |
| 1239 | AO, AC, CO, and UN | 1,2,3,and 99 |

## HoHEST/RRH/PSH

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

The LSAPerson **HoHEST**, **HoHRRH**, and **HoHPSH** columns indicate:

Whether or not the client was served in the project group as a head of household; and

If so, the household type(s) in which the client was served as a head of household.

The household types in these columns are a subset of the household types in the corresponding **HHTypeEST/RRH/PSH** columns. If **HHType[x]** is -1, **HoH[x]** must also equal -1.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ActiveHHType |
| **tlsa\_Enrollment** |
| ProjectType |
| RelationshipToHoH |
| Active |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| **HoHEST** |
| **HoHRRH** |
| **HoHPSH** |

### Logic

Apart from being limited to household types in which clients were designated head of household – i.e., tlsa\_Enrollment.**RelationshipToHoH** = 1 – the logic for the **HoHEST**, **HoHRRH**, and **HoHPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [section 5.12](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic and column values.

## AHAREST/RRH/PSH – LSAPerson

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

The LSAPerson **AHAREST**, **AHARRRH**, and **AHARPSH** columns indicate:

Whether or not the client was active in residence – i.e., had at least one bed night – during the report period; and

If so, the household type(s) for relevant enrollments.

The household types in these columns are a subset of the household types in the corresponding **HHTypeEST/RRH/PSH** columns. If **HHType[x]** is -1, **AHAR[x]** must also equal -1.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ActiveHHType |
| **tlsa\_Enrollment** |
| ProjectType |
| MoveInDate |
| ExitDate |
| Active |

#### Target

|  |
| --- |
| **tlsa\_Person** |
| **AHAREST** |
| **AHARRRH** |
| **AHARPSH** |

### Logic

The logic for these columns is specific to each project group.

#### AHAREST

Based on exit dates, include household types for active enrollments where:

* **ProjectType** in (1,2,8); and
  + **ExitDate** > ReportStart; or
  + **ExitDate** is NULL.

#### AHARRRH

Based on exit dates and move-in dates, include household types for active enrollments where:

* **ProjectType** = 13; and
* **MoveInDate**<= ReportEnd; and
  + **ExitDate** > ReportStart; or
  + **ExitDate** is NULL; or
  + **ExitDate** = ReportStart and **MoveInDate** = ReportStart.

#### AHARPSH

Based on exit dates and move-in dates, include household types for active enrollments where:

* **ProjectType** = 3 and
* **MoveInDate**<= ReportEnd; and
  + **ExitDate** > ReportStart; or
  + **ExitDate** is NULL.

## AdultEST/RRH/PSH - LSAPerson

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

The LSAPerson **AdultEST**, **AdultRRH**, and **AdultPSH** columns indicate:

* Whether or not the client was active in residence – i.e., had at least one bed night – as an adult during the report period; and
* If so, the household type(s) in which this occurred.

The household types in these columns are a subset of the household types in the corresponding **AHAREST/RRH/PSH** columns. If **AHAR[x]** is -1, **Adult[x]** must also equal -1.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ActiveHHType |
| **tlsa\_Enrollment** |
| ProjectType |
| MoveInDate |
| ExitDate |
| ActiveAge |
| Active |

#### Target

|  |
| --- |
| **tlsa\_Person** |
| **AdultEST** |
| **AdultRRH** |
| **AdultPSH** |

### Logic

Apart from being limited to household types for enrollments where clients were over 18 – i.e., **ActiveAge** between 21 and 65 – the logic for the **AdultEST**, **AdultRRH**, and **AdultPSH** columns is identical to the **AHAREST/RRH/PSH** columns. See [section 5.14](#_AdultEST/RRH/PSH__-) for business logic and project group values.

Because adults cannot occur in CO households, the list of possible household type combinations does not include them:

| AdultEST/RRH/PSH | Household Type(s) for Project Group | HHType(s) |
| --- | --- | --- |
| -1 | None - not served in project group as an adult | (n/a) |
| 1 | AO | 1 |
| 2 | AC | 2 |
| 9 | UN | 99 |
| 12 | AO and AC | 1 and 2 |
| 19 | AO and UN | 1 and 99 |
| 29 | AC and UN | 2 and 99 |
| 129 | AO, AC, and UN | 1, 2, and 99 |

## AHARHoHEST/RRH/PSH

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

The LSAPerson **AHARHoHEST**, **AHARHoHRRH**, and **AHARHoHPSH** columns indicate:

* Whether or not the client was active in residence – i.e., have at least one bed night – as a head of household during the report period; and
* If so, the household type(s) for relevant enrollments.

The household types in these columns are a subset of the household types in the corresponding **AHAREST/RRH/PSH** columns and a subset of the corresponding **HoHEST/RRH/PSH** columns. If **AHAR[x]** or **HoH[x]** is -1, **AHARHoH[x]** must also equal -1.

These columns are also a subset of **HoHEST/RRH/PSH**.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ActiveHHType |
| **tlsa\_Enrollment** |
| ProjectType |
| RelationshipToHoH |
| MoveInDate |
| ExitDate |
| Active |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| **AHARHoHEST** |
| **AHARHoHRRH** |
| **AHARHoHPSH** |

### Logic

Apart from being limited to household types in which clients were designated head of household – i.e., tlsa\_Enrollment.**RelationshipToHoH** = 1 – the logic for the **AHARHoHEST**, **AHARHoHRRH**, and **AHARHoHPSH** columns is identical to the **AHAREST/RRH/PSH** columns. See [section 5.14](#_AHAREST/RRH/PSH__-) for business logic and column values.

## Set Population Identifiers for Active HMIS Households

tlsa\_HHID

tlsa\_Enrollment

tlsa\_Person

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Enrollment** |
| PersonalID |
| HouseholdID |
| RelationshipToHoH |
| ActiveAge |
| Active |
| **tlsa\_Person** |
| PersonalID |
| Gender |
| Race |
| Ethnicity |
| VetStatus |
| DisabilityStatus |
| CHTime |
| CHTimeStatus |
| DVStatus |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_HHID** |
| **HHChronic** |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |

### Logic

#### HHChronic

Limited to active household members (those with records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1):

Based on records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1:

**HHChronic** = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa\_Person) with **DisabilityStatus** = 1 and:

* **CHTime** = 365 and **CHTimeStatus** in (1,2); or
* **CHTime** = 400 and **CHTimeStatus** = 2

Otherwise, **HHChronic** = 0.

#### HHVet

Limited to active household members (those with records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1):

Based on records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1:

**HHVet** = 1 if **ActiveHHType** in (1,2,99) and any adult household member is reported for LSAPerson (in tlsa\_Person) with **VetStatus** = 1.

Otherwise, **HHVet** = 0.

#### HHDisability

Limited to active household members (those with records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1):

**HHDisability** = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa\_Person) with **DisabilityStatus** = 1.

Otherwise, **HHDisability** = 0.

#### HHFleeingDV

Limited to active household members (those with records in tlsa\_Enrollment with the same **HouseholdID** where **Active** = 1):

**HHFleeingDV** = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa\_Person) with **DVStatus** = 1.

Otherwise, **HHFleeingDV** = 0.

#### HHAdultAge

Set **HHAdultAge** for each active household to the upload value shown below based on the *first* of the criteria below met by the ActiveAge values in tlsa\_Enrollment for all household members with the same **HouseholdID** where **Active** = 1:

| Priority | Upload Value | Criteria |
| --- | --- | --- |
| 1 | -1 | The maximum of all ActiveAge values is >= 98 (one or more unknown ages) |
| 1 | -1 | The maximum of all ActiveAge values is <= 17 (no adults in household) |
| 2 | 18 | The maximum of all ActiveAge values is 21 (all adults are between 18 and 21) |
| 3 | 24 | The maximum of all ActiveAge values is 24 (all adults are under 25) |
| 4 | 55 | The minimum of all ActiveAge values is between 55 and 65 (all members are 55+) |
| 5 | 25 | (all other households) |

#### HHParent

Set **HHParent** = 1 ifone or more active enrollments associated with the **HouseholdID**has **RelationshipToHoH** = 2.

Otherwise, **HHParent**= 0.

#### AC3Plus

Set **AC3Plus** = 1 if:

* **HHType** for the active household = 2 (AC); and
* The count of distinct **PersonalID**sfrom active enrollments associated with the **HouseholdID** where enrollment **ActiveAge** between 0 and 17 is >= 3.

Otherwise, **AC3Plus** = 0.

## Set Population Identifiers for LSAPerson from Active Households

tlsa\_Person

tlsa\_Enrollment

tlsa\_HHID

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Enrollment** |
| PersonalID |
| HouseholdID |
| Active |
| **tlsa\_HHID** |
| HouseholdID |
| ProjectType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |

#### Target

See section [5.3 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tlsa\_Person** |
| PersonalID |
| **HHChronicEST** |
| **HHVetEST** |
| **HHDisabilityEST** |
| **HHFleeingDVEST** |
| **HHAdultAgeAOEST** |
| **HHAdultAgeACEST** |
| **HHParentEST** |
| **AC3PlusEST** |
| **HHChronicRRH** |
| **HHVetRRH** |
| **HHDisabilityRRH** |
| **HHFleeingDVRRH** |
| **HHAdultAgeAORRH** |
| **HHAdultAgeACRRH** |
| **HHParentRRH** |
| **AC3PlusRRH** |
| **HHChronicPSH** |
| **HHVetPSH** |
| **HHDisabilityPSH** |
| **HHFleeingDVPSH** |
| **HHAdultAgeAOPSH** |
| **HHAdultAgeACPSH** |
| **HHParentPSH** |
| **AC3PlusPSH** |

### Logic

#### HHChronicEST/RRH/PSH

Apart from being limited to household types in which clients were served in chronically homeless households – i.e., tlsa\_HHID.**HHChronic** = 1 – the logic for the **HHChronicEST**, **HHChronicRRH**, and **HHChronicPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [section 5.12](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic and column values.

#### HHVetEST/RRH/PSH

Apart from being limited to household types in which clients were served in veteran households – i.e., tlsa\_HHID.**HHVet** = 1 – the logic for the **HHVetEST**, **HHVetRRH**, and **HHVetPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [section 5.12](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic.

Because veterans must be adults (tlsa\_Person.**VetStatus** = -1 for all non-adults), the list of possible household type combinations does not include CO households:

| HHVetEST/RRH/PSH | Household Type(s) for Project Group | HHType(s) |
| --- | --- | --- |
| -1 | None - not served in project group in a veteran household | (n/a) |
| 1 | AO | 1 |
| 2 | AC | 2 |
| 9 | UN | 99 |
| 12 | AO and AC | 1 and 2 |
| 19 | AO and UN | 1 and 99 |
| 29 | AC and UN | 2 and 99 |
| 129 | AO, AC, and UN | 1, 2, and 99 |

#### HHDisabilityEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a disabled head of household or adult – i.e., tlsa\_HHID.**HHDisability** = 1 – the logic for the **HHDisabilityEST**, **HHDisabilityRRH**, and **HHDisabilityPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [2](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic and column values.

#### HHFleeingDVEST/RRH/PSH

Apart from being limited to household types in which clients were served in households fleeing domestic violence – i.e., tlsa\_HHID.**HHFleeingDV** = 1 – the logic for the **HHFleeingDVEST**, **HHFleeingDVRRH**, and **HHFleeingDVPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [section 5.12](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic and column values.

#### HHAdultAgeAOEST/RRH/PSH

Set tlsa\_Person.**HHAdultAgeAOEST/RRH/PSH** based on the first of the criteria below where

* tlsa\_HHID.**ActiveHHType** = 1; and
* Project type is consistent with project group:
* EST - **ProjectType** in (1,2,8)
* RRH - **ProjectType** = 13
* PSH - **ProjectType** = 3

| Priority | tlsa\_HHID | HHAdultAgeAOEST/RRH/PSH |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

#### HHAdultAgeACEST/RRH/PSH

Set tlsa\_Person.**HHAdultAgeACEST/RRH/PSH** based on the first of the criteria below where

* tlsa\_HHID.**ActiveHHType** = 2; and
* Project type is consistent with project group:
* EST - **ProjectType** in (1,2,8)
* RRH - **ProjectType** = 13
* PSH - **ProjectType** = 3

| Priority | tlsa\_HHID | HHAdultAgeAOEST/RRH/PSH |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

#### HHParentEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a parenting HoH – i.e., tlsa\_HHID.**HHParent** = 1 – the logic for the **HHParentEST**, **HHParentRRH**, and **HHParentPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See [section 5.12](#_HHTypeEST/RRH/PSH_-_LSAPerson) for business logic and column values.

#### AC3PlusEST/RRH/PSH

Set the value to 1 for any client with an active enrollment in the project group associated with an active household where **AC3Plus** = 1.

* EST - **ProjectType** in (1,2,8)
* RRH - **ProjectType** = 13
* PSH - **ProjectType** = 3

Otherwise, set to 0.

## LSAPerson

tlsa\_Person

lsa\_Person

As noted, tlsa\_Person is a client-level precursor to lsa\_Person / LSAPerson.csv.

**RowTotal** is a count of *PersonalID*s in tlsa\_Person, grouped by all of the other columns in LSAPerson.

# HMIS Business Logic: LSAHousehold

## Get Distinct Households for LSAHousehold

tlsa\_Household

tlsa\_HHID

The tlsa\_Household data construct holds one record for each distinct combination of **HoHID** and **ActiveHHType** in tlsa\_HHID where **Active** = 1. It is a household-level version of the aggregate LSAHousehold data and is used to set values for each LSA reporting category for each household. It includes all columns from LSAHousehold.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAHousehold.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| Active |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

| **tlsa\_Household** | **Column Description** |
| --- | --- |
| **HoHID** | *PersonalID* for heads of active households; distinct combinations of **HoHID** and **HHType** serve as a primary key. |
| **HHType** | The household type |
| FirstEntry | (Does not correlate to a column in LSAHousehold.csv)  The earliest *EntryDate* for any active enrollment. |
| LastInactive | (Does not correlate to a column in LSAHousehold.csv)  For households already engaged with the continuum at the start of the report period, the most recent date prior to ReportStart and the start of the household’s period of continuous engagement. |
| Stat | The household status related to continuum engagement on the first day of the earliest enrollment active during the report period. |
| StatEnrollmentID | (Does not correlate to a column in LSAPerson.csv)  For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the *EnrollmentID* for the household’s most recent exit prior to ReportStart. |
| ReturnTime | For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the length of time in days between exit and the earliest active enrollment. |
| HHAdult | Number of people (including the head of household) 18 and older served with the HoH in active HMIS households where **HHType** = tlsa\_Household.**HHType** |
| HHChild | Number of people (including the head of household) under the age of 18 served with the HoH in active HMIS households where **HHType** = tlsa\_Household.**HHType** |
| HHNoDOB | Number of people (including the head of household) with no valid date of birth with the HoH in active HMIS households where **HHType** = tlsa\_Household.**HHType** |
| HHChronic | Identifies whether or not the head of household or any adult household member is chronically homeless. Based on **DisabilityStatus**, **CHTime**, and **CHTimeStatus** values, as determined for LSAPerson reporting. |
| HHVet | Identifies whether or not the household includes a veteran. Based on **VetStatus** value, as determined for LSAPerson reporting. |
| HHDisability | Identifies whether or not the head of household or any adult member was identified as having a disabling condition on any active enrollment. |
| HHFleeingDV | Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on any active enrollment. Based on **DVStatus** value, as determined for LSAPerson reporting. |
| HoHRace | Identifies race for head of household as reported in LSAPerson. |
| HoHEthnicity | Identifies ethnicity for head of household as reported in LSAPerson. |
| HHAdult | Number of people (including the head of household) 18 and older served with the head of household in the household type reflected in the **HHType** column. |
| HHChild | Number of people (including the head of household) under the age of 18 served with the head of household in the household type reflected in the **HHType** column. |
| HHNoDOB | Number of people (including the head of household) with no valid date of birth served with the head of household. |
| HHAdultAge | The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group). |
| HHParent | Identifies whether or not any household member has **RelationshiptoHoH** = 2 (child of the HoH). |
| ESTStatus | Identifies whether the household was served in ES, SH, and/or TH during the report period or prior to the report period during a period of continuous system use. If served, the status indicates how the enrollment timeframe relates to the report period. |
| ESTGeography | For households with active EST enrollments (**ESTStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| ESTLivingSit | For households with active EST enrollments (**ESTStatus** > 2) during the report period, the LivingSituation associated with the earliest active enrollment. |
| ESTDestination | For households who exited an EST enrollment during the report period and were not active in an EST project as of ReportEnd (**ESTStatus** in (12,22)), the *Destination* associated with the most recent exit. |
| ESTChronic | Population identifier specific to EST; see **HHChronic**. |
| ESTVet | Population identifier specific to EST; see **HHVet**. |
| ESTDisability | Population identifier specific to EST; see **HHDisability**. |
| ESTFleeingDV | Population identifier specific to EST; see **HHFleeingDV.** |
| ESTAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in EST. |
| ESTAdultAge | Population identifier specific to EST; see **HHAdultAge**. |
| ESTParent | Population identifier specific to EST; see **HHParent**. |
| RRHStatus | Identifies whether the household was served in RRH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period. |
| RRHMoveIn | For households served in RRH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period. |
| RRHGeography | For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| RRHLivingSit | For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment. |
| RRHDestination | For households who exited an RRH enrollment during the report period and were not active in an RRH project as of ReportEnd (**RRHStatus** in (12,22)), the Destination associated with the most recent exit. |
| RRHPreMoveInDays | For households who were housed in RRH at any point in the report period, including those with a *MoveInDate* prior to ReportStart, the total number of days between *EntryDate* and *MoveInDate* for any active RRH enrollment. It differs from other day counts in that it includes all days in RRH prior to move-in, even if the household was simultaneously enrolled in ES/SH/TH/PSH. |
| RRHChronic | Population identifier specific to RRH; see **HHChronic**. |
| RRHVet | Population identifier specific to RRH; see **HHVet**. |
| RRHDisability | Population identifier specific to RRH; see **HHDisability**. |
| RRHFleeingDV | Population identifier specific to RRH; see **HHFleeingDV.** |
| RRHAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in RRH. |
| RRHAdultAge | Population identifier specific to RRH; see **HHAdultAge**. |
| RRHParent | Population identifier specific to RRH; see **HHParent**. |
| PSHStatus | Identifies whether the household was served in PSH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period. |
| PSHMoveIn | For households served in PSH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period. |
| PSHGeography | For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| PSHLivingSit | For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment. |
| PSHDestination | For households who exited a PSH enrollment during the report period and were not active in PSH as of ReportEnd (**PSHStatus** in (12,22)), the *Destination* associated with the most recent exit. |
| PSHHousedDays | From active enrollments, days spent housed in PSH. (Note that this differs from other day counts in that it is limited to active enrollments.) |
| PSHChronic | Population identifier specific to PSH; see **HHChronic**. |
| PSHVet | Population identifier specific to PSH; see **HHVet**. |
| PSHDisability | Population identifier specific to PSH; see **HHDisability**. |
| PSHFleeingDV | Population identifier specific to PSH; see **HHFleeingDV.** |
| PSHAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in PSH. |
| PSHAdultAge | Population identifier specific to PSH; see **HHAdultAge**. |
| PSHParent | Population identifier specific to PSH; see **HHParent**. |
| ESDays | Days spent in ES or SH during the report period and/or in any continuous episode of homelessness/system use prior to the report period when the household was not in TH or housed in RRH/PSH. |
| THDays | Days spent in TH during the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not in housed in RRH/PSH. |
| ESTDays | Days spent in ES/SH/TH in the report period and/or in any continuous episode of homelessness prior to report period when the household was not housed in RRH/PSH. |
| RRHPSHPreMoveInDays | For households served in RRH and/or PSH, the total number of days spent homeless in RRH/PSH in the report period or in any continuous episode of engagement/homelessness prior to report period when household was not housed in RRH/PSH and not active in ES/SH/TH. |
| RRHHousedDays | Days spent housed in RRH in the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not housed in PSH. |
| SystemDaysNotPSHHoused | The total number of days spent in ES, SH, TH, RRH, or PSH (pre-move-in) in the report period or in any continuous episode of homelessness prior to the report period while not housed in PSH. |
| SystemHomelessDays | The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH or was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date). |
| Other3917Days | The total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment, but was not active in a continuum ES/SH/TH/RRH/PSH project. |
| TotalHomelessDays | The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH; was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date); or on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment and was not housed in RRH/PSH. |
| SystemPath | The combinations of system use during the report period and in any continuous period of service prior to the report period – i.e., the ‘path’ through the system. It is not dependent on the sequence of service. System Paths are mutually exclusive. |

### Logic

For the LSA, each distinct combination of a head of household’s **PersonalID** and **HHType** from all **HouseholdID**s active in the report period is counted as a single household.

Records in the intermediate household-level tlsa\_Household are created for each distinct combination of **ActiveHHType** and **HoHID** in tlsa\_HHID where **Active** = 1.

## Set Population Identifiers for LSAHousehold

tlsa\_Enrollment

tlsa\_HHID

tlsa\_Household

tlsa\_Person

**HHAdult**, **HHChild**, and **HHNoDOB** are used together to report on household composition. The additional household-level population identifiers are used to report on population groups of interest.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |
| Active |
| **tlsa\_Enrollment** |
| HouseholdID |
| ActiveAge |
| Active |
| **tlsa\_Person** |
| PersonalID |
| Race |
| Ethnicity |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **HHAdult** |
| **HHChild** |
| **HHNoDOB** |
| **HoHRace** |
| **HoHEthnicity** |
| **HHChronic** |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |

### Logic

#### HHAdult

The value is a count (up to 3) of household members who was served as an adult on *every* associated active enrollment (**ActiveAge** between 21 and 65). Anyone served as both an adult and a child with the same **HoHID**/**ActiveHHType** should be counted as a child. (This is only possible in AC households when a household member turns 18 between enrollments and there is another household member still under 18.)

| Value | Category |
| --- | --- |
| 0 | No adult in household |
| 1 | 1 adult in household |
| 2 | 2 adults in household |
| 3 | 3 or more adults in household |

If **HHType** is 1 (AO) or 2 (AC), the value in this column must be > 0.

If **HHType** = 3 (CO), the value in this column must = 0.

#### HHChild

The value is a count of all active household members (up to 3) whose **ActiveAge** for *any* associated active enrollment is under 18.

| Value | Category |
| --- | --- |
| 0 | No child in household |
| 1 | 1 child in household |
| 2 | 2 children in household |
| 3 | 3 or more children in household |

If **HHType** is 1 (AO), the value in this column must = 0.

If **HHType** is 2 (AC) or 3 (CO), the value in this column must be > 0.

#### HHNoDOB

**Note:** If **HHChild** = 3 and **HHType** = 2, the household is counted in the AC Households with 3 or More Children population.

The value is a count of all active household members (up to 3) whose **ActiveAge** is in (98,99).

| Value | Category |
| --- | --- |
| 0 | No person without a valid DOB in household |
| 1 | 1 person without a valid DOB in household |
| 2 | 2 people without a valid DOB in household |
| 3 | 3 or more people without a valid DOB in household |

If **HHType** is 1 (AO) or 3 (CO), the value in this column must be = 0.

If **HHType** = 99 (UN), the value in this column must be > 0.

#### HoHRace and HoHEthnicity

Set values for **HoHRace** and **HoHEthnicity** in tlsa\_Household to the **Race** and **Ethnicity** values for the head of household in tlsa\_Person.

#### HHVet, HHChronic, HHDisability, HHFleeingDV, and HHParent

Set the value in tlsa\_Household to the maximum value for the corresponding column in tlsa\_HHID – i.e., if the value is 1 for any **HouseholdID**with the same **HoHID** and **ActiveHHType =** **HHType**, set the value in tlsa\_Household to 1. Otherwise, set the value to 0.

These columns are used to identify populations of interest:

* Veteran Household (**HHVet** = 1)
* Household with a Chronically Homeless Adult/HoH **(HHChronic** = 1)
* Household with a Disabled Adult/HoH **(HHDisability** = 1)
* Household Fleeing Domestic Violence (**HHFleeingDV** = 1)
* Parenting Children (**HHType** = 3 and **HHParent** = 1)
* Parenting Youth 18-24 – (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

#### HHAdultAge

Set **HHAdultAge** based on the first of the criteria below met by any active tlsa\_HHID record with the same **HoHID** and **ActiveHHType =** **HHType:**

| Priority | tlsa\_HHID | tlsa\_Household.HHAdultAge |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

The populations for which **HHAdultAge** are relevant are:

* AO Unaccompanied Youth 18-21– all household members are between the ages of 18 and 21 (**HHType** = 1 and **HHAdultAge** = 18)
* AO Unaccompanied Youth 22-24 – at least one household member is between 22 and 24; all are between 18 and 24 **(HHType** = 1 and **HHAdultAge** = 24)
* AO Non-Veteran Households 25+ - at least one household member is over 24 (**HHType** = 1 and **HHVet** = 0 and **HHAdultAge** in (25,55))
* AO Senior Households 55+ - all household members are 55 or older (**HHType** = 1 and **HHAdultAge** = 55)
* AC Parenting Youth 18-24 – all adults in the household are between 18 and 24; there are no household members of unknown age (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

In general, each distinct combination of **HoHID**/**HHType** is counted in all populations identified for associated **HouseholdID**s. Technically, a non-veteran served alone –once at age 24 and again at 25 – is a member of two populations:

* Unaccompanied Young Adults 18-24; and
* Non-Veteran Households 25+.

With a single upload value for **HHAdultAge** in LSAHousehold, it isn’t possible to identify both. Inclusion in youth and senior populations is prioritized over the Non-Veteran Households 25+ population.

## EST/RRH/PSHStatus – LSAHousehold

tlsa\_HHID

tlsa\_Household

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| HHType |
| ProjectType |
| EntryDate |
| ExitDate |
| Active |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTStatus** |
| **RRHStatus** |
| **PSHStatus** |

### Logic

Like tlsa\_Person, tlsa\_Household includes columns to indicate the project groups in which each household was served.

The logic and upload values associated with **ESTStatus**, **RRHStatus**, and **PSHStatus** are identical, aside from the project group. The following sections use ‘x’ in place of the project group identifier – e.g., **xStatus** instead of **ESTStatus**.

Values are based on:

* Earliest *EntryDate* for an active enrollment in project group; and
* A NULL value for *ExitDate* on any active enrollment in the project group OR the latest *ExitDate.*

For every record in tlsa\_Household:

| Earliest x *EntryDate* | Latest x *ExitDate* | xStatus Value |
| --- | --- | --- |
| NULL | n/a | 0 |
| < ReportStart | NULL / there is an active enrollment for x with no *ExitDate* | 11 |
| < ReportStart | Between ReportStart and ReportEnd | 12 |
| >= ReportStart | NULL / there is an active enrollment for x with no *ExitDate* | 21 |
| >= ReportStart | Between ReportStart and ReportEnd | 22 |

Note: 2 is also a valid value for **xStatus** but is not assigned until a later step in section [6.16 Update EST/RRH/PSHStatus](#_Toc525229489).

## RRH/PSHMoveIn – LSAHousehold

tlsa\_HHID

tlsa\_Household

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| HHType |
| MoveInDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **RRHMoveIn** |
| **PSHMoveIn** |

### Logic

Aside from the project type, the logic and upload values associated with **RRHMoveIn** and **PSHMoveIn**are identical. They are based on **RRHStatus** and **PSHStatus**, respectively, and move-in dates for relevant enrollments.

For all records in tlsa\_Household:

| xStatus Value | MoveInDate | xMoveIn Value |
| --- | --- | --- |
| <= 2 | Any | -1 |
| > 2 | There is no *MoveInDate* | 0 |
| > 2 | Most recent *MoveInDate* is between ReportStart and ReportEnd | 1 |
| > 2 | Most recent *MoveInDate* < ReportStart | 2 |

## EST/RRH/PSHGeography – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_ProjectCoC** |
| ProjectID |
| GeographyType |
| **tlsa\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| ProjectID |
| EntryDate |
| ExitDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTGeography** |
| **RRHGeography** |
| **PSHGeography** |

### Logic

Set **xGeography** = -1 for households not served in project group during the report period (**xStatus** < 10).

For households served in the project group during the report period (**xStatus** >= 10), **xGeography** is based on:

* The active enrollment for the project group with the latest active date in the report period; and
* The lsa\_ProjectCoC.*GeographyType* for the project.

If a household has more than one project group enrollment on their most recent active date, use the enrollment with the latest *EntryDate*.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 1 | Urban | 1 |
| 2 | Suburban | 2 |
| 3 | Rural | 3 |

## EST/RRH/PSHLivingSit – LSAHousehold

tlsa\_Enrollment

tlsa\_HHID

tlsa\_Household

hmis\_Enrollment

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| HouseholdID |
| ProjectType |
| EntryDate |
| **tlsa\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |
| **hmis\_Enrollment** |
| EnrollmentID |
| LivingSituation |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTLivingSit** |
| **RRHLivingSit** |
| **PSHLivingSit** |

### Logic

#### LSA Living Situation Categories

| Upload Value | Category |
| --- | --- |
| -1 | Not applicable (not served in project group) |
| 1 | Homeless – Street |
| 2 | Homeless - ES/SH |
| 3 | Interim housing |
| 4 | Homeless - TH |
| 5 | Hotel/Motel - no voucher |
| 6 | Residential project |
| 7 | Family |
| 8 | Friends |
| 9 | PSH |
| 10 | PH – own |
| 11 | PH - rent no subsidy |
| 12 | PH - rent with subsidy |
| 13 | Foster care |
| 14 | Long-term care |
| 15 | Institutions - incarceration |
| 16 | Institutions - medical |
| 99 | Unknown |

Set **xLivingSit** = -1 for households not served in project group during the report period (**xStatus** < 10).

For households served in the project group during the report period (**xStatus** > 2), **xLivingSit** is based *LivingSituation* for the enrollment with the earliest *EntryDate* for the project group using the crosswalk below.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 32 | Host home (non-crisis) | 4 |
| 16 | Place not meant for habitation | 1 |
| 1 | Emergency shelter | 2 |
| 18 | Safe Haven | 2 |
| 27 | Interim housing[[1]](#footnote-2) | 3 |
| 2 | Transitional housing for homeless persons | 4 |
| 14 | Hotel or motel paid for without ES voucher | 5 |
| 29 | Residential project with no homeless criteria | 6 |
| 35 | Staying or living with family | 7 |
| 36 | Staying or living with friends | 8 |
| 3 | Permanent housing for formerly homeless persons | 9 |
| 21 | Owned by client, with ongoing housing subsidy | 10 |
| 11 | Owned by client, no ongoing housing subsidy | 10 |
| 10 | Rental by client, no ongoing housing subsidy | 11 |
| 19 | Rental by client, with VASH subsidy | 12 |
| 28 | Rental by client, with GPD TIP subsidy | 12 |
| 20 | Rental by client, with other housing subsidy (including RRH) | 12 |
| 33 | Rental by client, with HCV voucher (tenant or project based) | 12 |
| 34 | Rental by client in a public housing unit | 12 |
| 15 | Foster care home or foster care group home | 13 |
| 25 | Long-term care facility or nursing home | 14 |
| 7 | Jail, prison or juvenile detention facility | 15 |
| 6 | Hospital or other residential non-psychiatric medical facility | 16 |
| 4 | Psychiatric hospital or other psychiatric facility | 16 |
| 5 | Substance abuse treatment facility or detox center | 16 |
|  | (any other) | 99 |

## EST/RRH/PSHDestination – LSAHousehold

tlsa\_Enrollment

tlsa\_HHID

tlsa\_Household

hmis\_Exit

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| HouseholdID |
| ExitDate |
| ExitDest |
| ProjectType |
| **tlsa\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTDestination** |
| **RRHDestination** |
| **PSHDestination** |

### Logic

See section [3.3 HMIS Household Enrollments](#_ExitDest) for logic associated with setting destination for individual enrollments.

Set **xDestination** = -1 for households not served in project group and households enrolled in project group at ReportEnd (**xStatus** not in (12,22)).

For households that exited the project group during the report period (**xStatus** in (12,22)), **xDestination** is based on the active enrollment with the most recent **ExitDate** for the project group using the tlsa\_HHID.**ExitDest** value.

## EST/RRH/PSH Population Identifiers

tlsa\_HHID

tlsa\_Household

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| ProjectType |
| ActiveHHType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTChronic** |
| **ESTVet** |
| **ESTDisability** |
| **ESTFleeingDV** |
| **ESTAC3Plus** |
| **ESTAdultAge** |
| **ESTParent** |
| **RRHChronic** |
| **RRHVet** |
| **RRHDisability** |
| **RRHFleeingDV** |
| **RRHAC3Plus** |
| **RRHAdultAge** |
| **RRHParent** |
| **PSHChronic** |
| **PSHVet** |
| **PSHDisability** |
| **PSHFleeingDV** |
| **PSHAC3Plus** |
| **PSHAdultAge** |
| **PSHParent** |

### Logic

In section 6.2, a household is included in any given population as long as at least one active **HouseholdID** with the same **HoHID**/**ActiveHHType** meets the criteria.

The population identifiers listed here use similar logic, but are specific to project group – they are only set if there is a record in tlsa\_HHID for the **HoHID**/**ActiveHHType** and the project type is consistent with the relevant project group:

* **EST** – **ProjectType** in (1,2,8)
* **RRH** – **ProjectType** = 13
* **PSH** – **ProjectType** = 3

There are no project-group-specific columns for **HoHRace** and **HoHEthnicity** as those are not subject to change with household composition.

#### EST/RRH/PSHAC3Plus

For records in tlsa\_Household where **HHType** = 2 and **HHChild** = 3, set **EST/RRH/PSHAC3Plus** to 1 if there is any active **HouseholdID** in tlsa\_HHID for the **HoHID** where **ActiveHHType** = **2** and **AC3Plus** = 1 and **ProjectType** is consistent with the project group. For all other records, set to 0.

#### EST/RRH/PSHVet

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHVet** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHVet** to 1. Otherwise, set to 0.

#### EST/RRH/PSHChronic

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHChronic** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHChronic** to 1. Otherwise, set to 0.

#### EST/RRH/PSHDisability

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHDisability** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHDisability** to 1. Otherwise, set to 0.

#### EST/RRH/PSHFleeingDV

If there is any active HHID for the **HoHID** where **ActiveHHType** = **HHType** and **HHFleeingDV** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHFleeingDV** to 1. Otherwise, set to 0.

#### EST/RRH/PSHParent

If there is any active HHID for the **HoHID** where **ActiveHHType** = **HHType** and **HHParent** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHParent** to 1. Otherwise, set to 0.

#### EST/RRH/PSHAdultAge

Set **EST/RRH/PSHAdultAge** based on the first of the criteria below met by any active HHID record for the relevant project group with the same **HoHID** where **ActiveHHType** = **HHType**:

| Priority | tlsa\_HHID | EST/RRH/PSHAdultAge |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

## System Engagement Status and Return Time

tlsa\_HHID

tlsa\_Household

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| **tlsa\_HHID** |
| HoHID |
| EntryDate |
| ExitDate |
| ExitDest |
| ActiveHHType |
| EnrollmentID |
| Active |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **FirstEntry** |
| **Stat** |
| **StatEnrollmentID** |
| **ReturnTime** |

### Logic

System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

| Value | Stat |
| --- | --- |
| 1 | First-time homeless |
| 2 | Return to continuum 15-730 days after exit to permanent destination |
| 3 | Re-engage with continuum 15-730 days after exit to temporary destination |
| 4 | Re-engage with continuum 15-730 days after exit to unknown destination |
| 5 | Continuous engagement with continuum |

#### FirstEntry

A household’s **FirstEntry** is the earliest *EntryDate* associated with any active enrollment.

#### Previous Activity / StatEnrollmentID

**StatEnrollmentID** is the tlsa\_HHID.**EnrollmentID** with the most recent (effective) **ExitDate** where:

* **HoHID** = tlsa\_Household.**HoHID**
* **ActiveHHType**= tlsa\_Household.**HHType**
* **ExitDate** for the earlier enrollment >= [**FirstEntry** – 730 days] and tlsa\_HHID.**ExitDate** < **FirstEntry**

#### ReturnTime

If StatEnrollmentID is NULL, **ReturnTime** = -1

Otherwise, set **ReturnTime** based on the number of days between StatEnrollmentID.**ExitDate** and **FirstEntry**:

| Value | Category |
| --- | --- |
| -1 | 0-14 days |
| 30 | 15-30 days |
| 60 | 31-60 days |
| 90 | 61-90 days |
| 180 | 91-180 days |
| 365 | 181-365 days |
| 547 | 366-547 days |
| 730 | 548-730 days |

#### Stat

If **FirstEntry** < ReportStart, **Stat** = 5 – the active enrollment is part of a period of continuous engagement with the continuum that began prior to the report period. This will include any household whose **EST**/**RRH**/**PSHStatus** is either 11 or 12, which indicate entry prior to the start of the report period

If **FirstEntry** >= ReportStart, it is necessary to look for inactive enrollments for the household in the two years prior to determine status.

Stat is based on **StatEnrollmentID** (if any) and the associated **ExitDate** and **ExitDest**.

|  |  |  |  |
| --- | --- | --- | --- |
| Stat | Category | ExitDest | Other Condition |
| 1 | First-time homeless | (n/a) | **StatEnrollmentID** is NULL |
| 2 | Return 15-730 days after exit to permanent destination | Between 1 and 6 | **ReturnTime** between 15 and 730 |
| 3 | Re-engage 15-730 days after exit to temporary destination | Between 7 and 14 | **ReturnTime** between 15 and 730 |
| 4 | Re-engage 15-730 days after exit to unknown destination | In (15,99) | **ReturnTime** between 15 and 730 |
| 5 | Continuous engagement with continuum | (n/a) | **StatEnrollmentID** is not NULL and **ReturnTime** = -1 |

## RRHPreMoveInDays – LSAHousehold

tlsa\_HHID

tlsa\_Household

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| ProjectType |
| EntryDate |
| MoveInDate |
| ExitDate |
| Active |

#### Target

| **tlsa\_Household** | **Column Description** |
| --- | --- |
| **RRHPreMoveInDays** | Counts of actual days are set in tlsa\_Household; counts of active households are grouped by ranges – e.g., ‘1-7 days’, ‘8-30 days’, etc. – in the corresponding **LSAHousehold** column.  Averages based on the counts of actual days are inserted to LSACalculated. (See section [8.4 Get Average Days for Length of Time in RRH Projects](#_Get_Average_Days_2).) |

### Logic

The logic associated with the LSAHousehold.**RRHPreMoveInDays** column differs from others that count days engaged in various parts of the system, referred to collectively as ‘system use days.’ The other counts resolve potential data conflicts so that each day has a single status and is counted only once. For example, days spent in RRH prior to move-in that overlap with days in emergency shelter are counted as ES days.

The **RRHPreMoveInDays** column is a count of distinct dates when a household was enrolled in any RRH project but not housed, regardless of other system use data.

For each active HHID where **HoHID**/**ActiveHHType** = tlsa\_Household. **HoHID**/**HHType** and **ProjectType** = 13, set **RRHPreMoveInDays** = a count of the distinct dates between any tlsa\_HHID.**EntryDate** and the earliest associated non-NULL value for:

* **MoveInDate** – 1 day
* **ExitDate**
* ReportEnd

## Dates Housed in PSH or RRH (sys\_Time)

tlsa\_Household

tlsa\_HHID

sys\_Time

The primary key for sys\_Time is the unique combination of **HoHID**, **HHType**, and **sysDate** – i.e., no date can be counted with more than one status for any given LSA household.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| ProjectType |
| MoveInDate |
| ExitDate |
| Active |

#### Target

|  |  |
| --- | --- |
| **sys\_Time** | **Column Description** |
| **HoHID** | HoHID – tlsa\_Household |
| **HHType** | HHType – tlsa\_Household |
| **sysDate** | Distinct dates enrolled in a continuum project and/or Street/ES/SH dates from *3.917 Living Situation* |
| **sysStatus** | This step identifies dates when the household was:   * 1 = Housed in PSH * 2 = Housed in RRH   Subsequent steps identify dates:   * 3 = In TH * 4 = In ES/SH * 5 = In PSH pre-move-in * 6 = In RRH pre-move-in * 7 = Street/ES/SH (3.917) |

### Logic

LSAHousehold includes counts of the total number of days that a head of household was either homeless and/or engaged in various parts of the system, referred to collectively as ‘system use days.’ The counts are grouped by the client’s system status – i.e., ‘Days in TH’ or ‘Days Housed in PSH’ – on each relevant date.

Similar to the process of counting days for chronic homelessness, a head of household’s system use status for any given date is assigned in priority order, using the *first* status from the list below for which the HoH meets the identified criteria based on values in tlsa\_HHID and, for night-by-night enrollments, bed night dates in hmis\_Services.

| Priority | Status | [Date] |
| --- | --- | --- |
| 1 | Housed in PSH | >= **MoveInDate** and  <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd |
| 2 | Housed in RRH | *=* **MoveInDate** |
| 2 | Housed in RRH | > **MoveInDate** and  <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd |
| 3 | In TH | >= **EntryDate** and  <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd |
| 4 | In entry-exit ES/SH | >= **EntryDate** and  <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd |
| 4 | In night-by-night ES | = *BedNightDate* |
| 5 | Enrolled but not housed in PSH | >= *EntryDate* and  <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd |
| 6 | Enrolled but not housed in RRH | >= *EntryDate* and  <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd |
| 7 | Street/ES/SH (3.917) | >= *DateToStreetESSH* and < *EntryDate* |

In the CH process, enrollment dates are relevant regardless of household type or head of household status for the enrollment. However, system use days for a household are only counted for enrollments where the two defining characteristics of a household – **HoHID** and **ActiveHHType** – match tlsa\_Household.

#### Dates Housed in PSH

Dates housed in PSH are counted only for active enrollments.

For each **HoHID**/**HHType** in tlsa\_Household, create a record with a **sysStatus** = 1 in sys\_Time for any [Date] <= ReportEnd where:

* tlsa\_HHID.**HoHID =** tlsa\_Household**.HoHID;** and
* tlsa\_HHID.**ActiveHHType** = tlsa\_Household.**HHType**; and
* tlsa\_HHID.**Active** = 1; and
* tlsa\_HHID.**ProjectType** = 3; and
* tlsa\_HHID.**MoveInDate** <= [Date] ; and
* tlsa\_HHID.**ExitDate** > [Date] or is NULL

#### Dates Housed in RRH

Dates housed in RRH are counted only for active enrollments. As noted in section 3.3 ([HMIS Data Requirements and Assumptions](#RRHMoveInOnExitDate)) and reflected in the criteria listed below, the *MoveInDate* for an RRH enrollment is counted as a date housed even if it is equal to the *ExitDate*.

For each **HoHID**/**HHType** in tlsa\_Household, create a record with a **sysStatus** = 2 in sys\_Time for any [Date] <= ReportEnd where:

* There is no existing record for the **HoHID**/**HHType**/**Date** in sys\_Time (i.e., the household was not housed in PSH on the date); and
* tlsa\_HHID.**HoHID =** tlsa\_Household**.HoHID;** and
* tlsa\_HHID.**ActiveHHType** = tlsa\_Household.**HHType**; and
* tlsa\_HHID.**Active** = 1; and
* **ProjectType** = 13; and
* **MoveInDate** <= [Date] ; and
* **ExitDate** > [Date] or is NULL

## Get Last Inactive Date

tlsa\_HHID

tlsa\_Household

sys\_TimePadded

hmis\_Services

tlsa\_Household

This step identifies, based on active enrollments and potentially relevant inactive enrollments, the date immediately prior to the first day of continuous system engagement for which all system use days are counted – or the household’s last inactive date.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project AND was not housed in RRH or PSH. This is the date after which all system use days are reportable.

### RelevantData

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| FirstEntry |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| EntryDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |

#### Targets

|  |  |
| --- | --- |
| **sys\_TimePadded** | **Column Description** |
| **HoHID** | From tlsa\_Household |
| **HHType** | From tlsa\_Household |
| **StartDate** | * For tlsa\_HHID **EnrollmentID**s in night-by-night ES, each *BedNightDate* associated with the enrollment between 10/1/2012 and ReportEnd * For all other tlsa\_HHID enrollments, the **EntryDate** |
| **EndDate** | * For tlsa\_HHID **EnrollmentID**s in night-by-night ES, the earlier of [**StartDate** + 6 days] or ReportEnd * For all other tlsa\_HHID enrollments, the earlier non-NULL of [**ExitDate** + 6 days] or ReportEnd |

|  |
| --- |
| **tlsa\_Household** |
| **LastInactive** |

### Logic

**LastInactive** is the later of 9/30/2012 and the most recent date where:

* [Date] < tlsa\_Household.**FirstEntry**
* [Date] is not between a *BedNightDate* and (*BedNightDate* + 6 days) for any enrollment – active or inactive -- in tlsa\_HHID where **ActiveHHType** = tlsa\_Household.**HHType**
  + Note that a *BedNightDate* must be valid – i.e., >= **EntryDate** for the associated enrollment and < **ExitDate** if there is one – in order to be relevant. In systems that allow the creation of invalid bed night data, report code must exclude those records.
* [Date] is not between a tlsa\_HHID.**EntryDate** and the associated (**ExitDate** + 6 days) for any enrollment – active or inactive -- in tlsa\_HHID where **ActiveHHType** = tlsa\_Household.**HHType**

## Get Dates of Other System Use (sys\_Time)

tlsa\_HHID

tlsa\_Household

sys\_Time

hmis\_Services

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| LastInactive |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| ProjectType |
| TrackingMethod |
| EntryDate |
| MoveInDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |

#### Target

See section [6.11 Dates Housed in PSH or RRH](#_Dates_Housed_in_1) for column descriptions.

|  |
| --- |
| **sys\_Time** |
| **HoHID** |
| **HHType** |
| **sysDate** |
| **sysStatus** |

### Logic

In order to create a record in sys\_Time for a household on any given [Date], the following must be true:

* [Date] is not in sys\_Time for the same **HoHID**/**HHType;** and
* [Date] > tlsa\_Household.**LastInactive**; and
* [Date] <= ReportEnd.

The **sysStatus** values referenced in the next sections are based on project type:

| Value | Category |
| --- | --- |
| 3 | In transitional housing |
| 4 | In emergency shelter/Safe Haven |
| 5 | Enrolled but not housed in PSH |
| 6 | Enrolled but not housed in RRH |

If a [Date] meets the criteria for more than one **sysStatus** based on the list below, use the **sysStatus** with the lowest value. For example, if a client has overlapping enrollments in both an emergency shelter (**sysStatus** = 4) and a transitional housing project (**sysStatus** = 3) on a single date, the **sysStatus** for that date should be the lower of the two values (3).

|  |  |
| --- | --- |
| Value | Criteria |
| 3 | **ProjectType** = 2 and  [Date] >= **EntryDate** and  [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd |
| 4 | **ProjectType** = 8 or (**ProjectType** = 1 and **TrackingMethod**= 0) and  [Date] >= **EntryDate** and  [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd |
| 4 | **ProjectType** = 1 and **TrackingMethod**= 3 and  [Date] = *BedNightDate* |
| 5 | **ProjectType** = 3 and  [Date] >= **EntryDate** and  [Date] < **MoveInDate** |
| 5 | **ProjectType** = 3 and  [Date] >= **EntryDate** and  **MoveInDate** is NULL and  [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd |
| 6 | **ProjectType** = 13 and  [Date] >= **EntryDate** and  [Date] < **MoveInDate** |
| 6 | **ProjectType** = 13 and  [Date] >= **EntryDate** and  **MoveInDate** is NULL and  [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd |

## Get Other Dates Homeless from 3.917A/B Living Situation

tlsa\_Household

tlsa\_HHID

tlsa\_Household

hmis\_Enrollment

sys\_Time

Dates that are documented as Street/ES/SH dates in *3.917 Living Situation*, do not have a status based on system use, and are contiguous to the period of continuous engagement should be counted as Street/ES/SH dates for LOTH reporting. Unlike system use, this may include both dates prior to **LastInactive** and dates prior to 10/1/2012**.**

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| LastInactive |
| HoHID |
| HHType |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| EnrollmentID |
| ProjectType |
| EntryDate |
| ExitDate |
| **sys\_Time** |
| HoHID |
| HHType |
| sysDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| EntryDate |
| LivingSituation |
| LengthOfStay |
| PreviousStreetESSH |
| DateToStreetESSH |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **Other3917Days** |

### Logic

For any active enrollment or any **EnrollmentID** from tlsa\_HHID where **HoHID**/**EntryHHType** = tlsa\_Household.**HoHID**/**HHType** and:

* **EntryDate** *>* **LastInactive**; and

*LivingSituation* in (1,18,16) or ProjectType in (1,8); or

*ProjectType* not in (1,8) and *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or

*ProjectType* not in (1,8) and *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1

The value of **Other3917Days** is equal to the count of all dates:

* Between the later of *DateToStreetESSH* or **LastInactive** and the day prior to the associated **EntryDate**where the date does not already have a status based on system use.
* Between any *DateToStreetESSH* and the day prior to **LastInactive** where the associated **EntryDate** is > **LastInactive**.

## Set System Use Days for LSAHousehold

sys\_Time

tlsa\_Household

Counts of actual days are set in tlsa\_Household; counts of active households are grouped by ranges – e.g., ‘1-7 days’, ‘8-30 days’, etc. – in the corresponding **LSAHousehold** column.

The values in tlsa\_Household are the source for averages in LSACalculated; see section [8.1 Get Average Days for Length of Time Homeless](#_Get_Average_Days_3) through section 8.8.

### Relevant Data

#### Source

|  |
| --- |
| **sys\_Time** |
| HoHID |
| HHType |
| sysDate |
| sysStatus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESDays** |
| **THDays** |
| **ESTDays** |
| **RRHPSHPreMoveInDays** |
| **RRHHousedDays** |
| **SystemDaysNotPSHHoused** |
| **SystemHomelessDays** |
| **Other3917Days** |
| **TotalHomelessDays** |
| **PSHHousedDays** |

### Logic

Thevalues for system use days columns in tlsa\_Household should be set to the actual number of days counted and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

#### ESDays

This is the total number of days in emergency shelter or Safe Haven for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. ES days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH or enrolled in a transitional housing project.

Set **ESDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 4 and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### THDays

This is the total number of days in transitional housing for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. TH days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH.

Set **THDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 3 and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### ESTDays

This is the total number of days in emergency shelter, Safe Haven, and/or transitional housing – **ESDays** + **THDays**.

Set **ESTDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (3,4) and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### RRHPSHPreMoveInDays

This is the total number of days enrolled but not housed in RRH and/or PSH projects for active enrollments and for inactive RRH/PSH enrollments *without move-in dates* that fall within a period of continuous system engagement that extends into the report period. Pre-move-in days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH, enrolled in a transitional housing project, or in emergency shelter or Safe Haven.

Set **RRHPSHPreMoveInDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (5,6) and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### SystemHomelessDays

This is the total number of days in emergency shelter, Safe Haven, transitional housing, and/or enrolled but not housed in RRH/PSH – **ESTDays + RRHPSHPreMoveInDays**.

Set **SystemHomelessDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (3,4,5,6) and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### RRHHousedDays

This is the total number of days housed in RRH for active enrollments. RRH housed days are not counted if conflicting enrollment data shows that the household was housed in PSH.

Set **RRHHousedDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 2 and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### SystemDaysNotPSHHoused

This is the total number of days in emergency shelter, Safe Haven, transitional housing, enrolled but not housed in RRH/PSH and/or housed in RRH – **SystemHomelessDays** **+ RRHHousedDays**.

Set **SystemDaysNotPSHHoused**= count of distinct **sysDate**s in sys\_Time where **sysStatus** in (2,3,4,5,6) and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### PSHHousedDays

This is the total number of days housed in PSH for active enrollments.

Set **PSHHHousedDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 1 and **HoHID/HHType** = tlsa\_Household **HoHID/HHType.**

#### Other3917Days

This is the total number of days not already accounted for when the household reported being on the street or in ES/SH in *3.917A/B Prior Living Situation*.

Set **Other3917Days** = the sum of:

* The count of distinct **sysDate**s in sys\_Time where **sysStatus** = 7 and **HoHID/HHType** = tlsa\_Household **HoHID/HHType;** and
* The count of distinct dates between the earliest relevant *DateToStreetESSH* and **LastInactive** – or the difference in days between the earliest *DateToStreetESSH* and **LastInactive**, as described in [section 6.14](#_Get_Other_Dates).

## Update EST/RRH/PSHStatus

sys\_Time

tlsa\_Household

For any **HoHID**/**HHType** in tlsa\_Household where **Stat** = 5 (continuous engagement), the household may have system use days from prior to the report period for project types other than those from the report period. This step updates the values for EST/RRH/PSHStatus to reflect that.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| ESTStatus |
| RRHStatus |
| PSHStatus |
| **sys\_Time** |
| HoHID |
| HHType |
| sysStatus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| **ESTStatus** |
| **RRHStatus** |
| **PSHStatus** |

### Logic

Set **ESTStatus** = 2 (Served in contiguous period prior to report start only) where:

* **ESTStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** in (3,4)

Set **RRHStatus** = 2 (Served in contiguous period prior to report start only) where:

* **RRHStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** = 6

Set **PSHStatus** = 2 (Served in contiguous period prior to report start only) where:

* **PSHStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** = 5

## Set EST/RRH/PSHAHAR

tlsa\_HHID

tlsa\_Household

tlsa\_Household

tlsa\_Enrollment

The EST/RRH/PSHAHAR columns identify households relevant to the AHAR reporting universe, which is limited to those with at least one bednight during the report period.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| HoHID |
| HHType |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| HouseholdID |
| ProjectType |
| MoveInDate |
| ExitDate |
| **tlsa\_Enrollment** |
| PersonalID |
| Active |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tlsa\_Household** |
| ESTAHAR |
| RRHAHAR |
| PSHAHAR |

### Logic

For households with no bed nights in the report period in a given project group, set the value to 0.

Set **ESTAHAR** = 1 for households with one or more bednights in ES/SH/TH during the report period:

* tlsa\_HHID(hhid).**ActiveHHType** = **HHType**; and
* hhid.**HoHID** = **HoHID**; and
* tlsa\_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
* n.**Active** = 1; and
* hhid.**ExitDate** is NULL or > ReportStart; and
* hhid.**ProjectType** in (1,2,8)

Set **RRHAHAR** = 1 for households with one or more RRH bed nights in the report period:

* tlsa\_HHID(hhid).**ActiveHHType** = **HHType**; and
* hhid.**HoHID** = **HoHID**; and
* tlsa\_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
* n.**Active** = 1; and
* hhid.MoveInDate is not NULL; and
  + hhid.**ExitDate** is NULL;
  + hhid.**ExitDate** > ReportStart
  + hhid.**ExitDate** = hhid.**MoveInDate** and hhid.**ExitDate** = ReportStart
* hhid.**ProjectType** = 13

Set **PSHAHAR** = 1 for households with one or more PSH bed nights in the report period:

* tlsa\_HHID(hhid).**ActiveHHType** = **HHType**; and
* hhid.**HoHID** = **HoHID**; and
* tlsa\_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
* n.**Active** = 1; and
* hhid.**MoveInDate** is not NULL; and
* hhid.**ExitDate** is NULL or hhid.**ExitDate** > ReportStart; and
* hhid.**ProjectType** = 3

## Set SystemPath for LSAHousehold

tlsa\_Household

The **SystemPath** column is technically redundant – it is based entirely on values in other LSAHousehold columns – but having the value in a single column simplifies the processes of populating LSACalculated and, in the HDX 2.0, generating report tables.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Household** |
| ESTStatus |
| ESDays |
| THDays |
| RRHStatus |
| PSHStatus |
| PSHMoveIn |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column description.

|  |
| --- |
| **tlsa\_Household** |
| **SystemPath** |

### Logic

As noted previously, heads of household housed in PSH at ReportStart who did not enroll in any other project types during the report period are excluded from all reporting on LOTH and system path. For those households, **SystemPath** is always set to -1. The critiera for all values are listed below.

| Name | SystemPath | ESTStatus | ESDays | THDays | RRHStatus | PSHStatus | PSHMoveIn |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Not applicable | -1 | Not in (21,22) | -- | -- | Not in (21,22) | -- | = 2 |
| ES/SH only | 1 | -- | >= 1 | = 0 | = 0 | = 0 | -- |
| TH only | 2 | -- | = 0 | >= 1 | = 0 | = 0 | -- |
| ES/SH + TH | 3 | -- | >= 1 | >= 1 | = 0 | = 0 | -- |
| RRH only | 4 | = 0 | -- | -- | >= 11 | = 0 | -- |
| ES/SH + RRH | 5 | -- | >= 1 | = 0 | >= 2 | = 0 | -- |
| TH + RRH | 6 | -- | = 0 | >= 1 | >= 2 | = 0 | -- |
| ES/SH + TH + RRH | 7 | -- | >= 1 | >= 1 | >= 2 | = 0 | -- |
| PSH only | 8 | = 0 | -- | -- | = 0 | >= 11 | <> 2 |
| ES/SH + PSH | 9 | -- | >= 1 | = 0 | = 0 | >= 11 | <> 2 |
| ES/SH + PSH | 9 | In (21,22) | >= 1 | = 0 | = 0 | >= 11 | = 2 |
| ES/SH + RRH + PSH | 10 | -- | >= 1 | = 0 | >= 2 | >= 11 | <> 2 |
| ES/SH + RRH + PSH | 10 | In (21,22) | >= 1 | = 0 | In (21,22) | >= 11 | = 2 |
| RRH + PSH | 11 | = 0 | -- | -- | >= 2 | >= 11 | <> 2 |
| RRH + PSH | 11 | = 0 | -- | -- | In (21,22) | >= 11 | = 2 |
| All other | 12 | (any combination not specified above) | | | | | |

## LSAHousehold

tlsa\_Household

lsa\_Household

LSAHousehold includes 45 columns. **RowTotal** is a count of distinct combinations of **HoHID** and **HHType** from tlsa\_Household, grouped by the values in all other columns.

In tlsa\_Household, the following columns are populated with actual counts of days because they are needed to generate averages for LSACalculated:

|  |  |  |
| --- | --- | --- |
| **ESDays** | **RRHPreMoveInDays** | **SystemHomelessDays** |
| **THDays** | **RRHPSHPreMoveInDays** | **Other3917Days** |
| **ESTDays** | **RRHHousedDays** | **TotalHomelessDays** |
| **SystemDaysNotPSHHoused** |  |  |

For export, the actual counts are grouped into categories as shown below.

| Value | System Use/Homeless Days | Criteria |
| --- | --- | --- |
| 0 | 0 days | [Days] = 0 |
| 7 | 1-7 days | [Days] between 1 and 7 |
| 30 | 8-30 days | [Days] between 8 and 30 |
| 60 | 31-60 days | [Days] between 31 and 60 |
| 90 | 61-90 days | [Days] between 61 and 90 |
| 180 | 91-180 days | [Days] between 91 and 180 |
| 365 | 181-365 days | [Days] between 181 and 365 |
| 547 | 366-547 days | [Days] between 366 and 547 |
| 730 | 548-730 days | [Days] between 548 and 730 |
| 1094 | 731-1094 days | [Days] between 731 and 1094 |
| 1095 | 1095 days+ | [Days] > 1094 |

Actual values in the **PSHHousedDays** column also have to be grouped into upload categories; the groupings differ from those used for the other columns of system use days:

| Value | Time Housed in PSH | Criteria |
| --- | --- | --- |
| 0 | None | **PSHMoveIn** not in (1,2) |
| 3 | Up to 3 months | **PSHHousedDays** between 1 and 90 |
| 6 | 3-6 months | **PSHHousedDays** between 91 and 180 |
| 12 | 6-12 months | **PSHHousedDays** between 181 and 365 |
| 24 | 12-24 months | **PSHHousedDays** between 366 and 730 |
| 36 | 25-36 months | **PSHHousedDays** between 731 and 1095 |
| 48 | 37-48 months | **PSHHousedDays** between 1096 and 1460 |
| 60 | 49-60 months | **PSHHousedDays** between 1461 and 1825 |
| 84 | 5-7 years | **PSHHousedDays** between 1826 and 2555 |
| 120 | 8-10 years | **PSHHousedDays** between 2556 and 3650 |
| 121 | 10+ years | **PSHHousedDays** > 3650 |

All of the columns in LSAHousehold are integers; none may be NULL.

| # | Column Name |
| --- | --- |
| 1 | **RowTotal** |
| 2 | **Stat** |
| 3 | **ReturnTime** |
| 4 | **HHType** |
| 5 | **HHChronic** |
| 6 | **HHVet** |
| 7 | **HHDisability** |
| 8 | **HHFleeingDV** |
| 9 | **HoHRace** |
| 10 | **HoHEthnicity** |
| 11 | **HHAdult** |
| 12 | **HHChild** |
| 13 | **HHNoDOB** |
| 14 | **HHAdultAge** |
| 15 | **HHParent** |
| 16 | **ESTStatus** |
| 17 | **ESTGeography** |
| 18 | **ESTLivingSit** |
| 19 | **ESTDestination** |
| 20 | **RRHStatus** |
| 21 | **RRHMoveIn** |
| 22 | **RRHGeography** |
| 23 | **RRHLivingSit** |
| 24 | **RRHDestination** |
| 25 | **RRHPreMoveInDays** |
| 26 | **PSHStatus** |
| 27 | **PSHMoveIn** |
| 28 | **PSHGeography** |
| 29 | **PSHLivingSit** |
| 30 | **PSHDestination** |
| 31 | **PSHHousedDays** |
| 32 | **ESDays** |
| 33 | **THDays** |
| 34 | **ESTDays** |
| 35 | **RRHPSHPreMoveInDays** |
| 36 | **RRHHousedDays** |
| 37 | **SystemDaysNotPSHHoused** |
| 38 | **SystemHomelessDays** |
| 39 | **Other3917Days** |
| 40 | **TotalHomelessDays** |
| 41 | **SystemPath** |
| 42 | **ESTAHAR** |
| 43 | **RRHAHAR** |
| 44 | **PSHAHAR** |
| 45 | **ReportID** |

# HMIS Business Logic: LSAExit

Each distinct combination of **Cohort**, the *PersonalID* for the head of household (**HoHID**), and household type (**HHType**) associated with one or more qualifying exits in the cohort period represents a single household/cohort member for LSAExit.

As with the active cohort, a household is identified based on each unique combination of HoHID/HHType. Aside from the dates, there are no differences in logic among the three exit cohorts.

## Identify Qualifying Exits in Exit Cohort Periods

tlsa\_HHID

hmis\_EnrollmentCoC

tlsa\_HHID

lsa\_Project

tlsa\_CohortDates

lsa\_Report

The objective of this step is to identify records in tlsa\_HHID that represent system exits in each exit cohort period.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |
| **tlsa\_HHID** |
| EnrollmentID |
| HoHID |
| ProjectID |
| EntryDate |
| ExitDate |
| ActiveHHType |
| Exit1HHType |
| Exit2HHType |
| **lsa\_Project** |
| ProjectID |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |

#### Target

A household may have multiple qualifying exits in a given cohort period. When this is the case, reporting is based on the earliest qualifying exit to a permanent destination or, if there is no exit to a permanent destination, the earliest exit to any destination.

All qualifying exits are identified in tlsa\_HHID in this step by setting the **ExitCohort** value; reportable exits are selected for each unique combination of HoHID, household type, and cohort in the next step based on the values in the **ExitCohort** and **ExitDest** columns.

|  |
| --- |
| **tlsa\_HHID** |
| **ExitCohort** |

### Logic

#### Qualifying Exits

A qualifying exit is an exit from a continuum ES, SH, TH, RRH, or PSH project – limited in one of the three exit cohort periods followed by at least 14 days when the household was not active in any continuum ES, SH, TH, RRH, or PSH project.

Any given record in tlsa\_HHID represents a qualifying exit (qx) when:

* qx.**ExitDate** between tlsa\_CohortDates.**CohortStart** and **CohortEnd** where **Cohort** between -2 and 0
* hmis\_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent record associated with the qx.**EnrollmentID**
* There is no other record in tlsa\_HHID where:
  + [Other].**HoHID** = qx.**HoHID**
  + Household type values match:
    - If **ExitCohort** = 0, **ActiveHHType**
    - If **ExitCohort** = -1, **Exit1HHType**
    - If **ExitCohort** = -2, **Exit2HHType**
  + [Other].**ExitDate** is NULL or [Other].**ExitDate** > qx.**ExitDate**
  + [Other]hmis\_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent record where *InformationDate* <= [qx.**ExitDate** + 14 days]
  + [Other].**EntryDate** < [qx.**ExitDate** + 14 days]

If lsa\_Report.**LSAScope** = 2 (Project-Focused), exit cohorts are limited to households served in the projects in lsa\_Project – qx.**ProjectID** in lsa\_Project.**ProjectID.** This limitation does not apply to a systemwide LSA (**LSAScope** = 1).

#### ExitCohort

**ExitCohort** is set based on tlsa\_CohortDates.**Cohort**.

## Select Reportable Exits

tlsa\_HHID

tlsa\_Exit

LSAExit includes reporting on households with qualifying exits from a continuum ES/SH/TH/RRH/PSH projects in each of the exit cohort periods.

For households – unique combinations of **HoHID** and relevant household type – with more than one qualifying exit in a single cohort period, only one qualifying exit is reportable. The logic associated with identifying reportable exits is below.

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| ExitCohort |
| ExitDest |
| HoHID |
| HouseholdID |
| ActiveHHType |
| Exit1HHType |
| Exit2HHType |
| EnrollmentID |
| ProjectType |
| EntryDate |
| MoveInDate |
| ExitDate |
| ExitTo |

#### Target

|  |  |
| --- | --- |
| **tlsa\_Exit** | **Column Description** |
| **HoHID** | *PersonalID* for heads of active households; distinct combinations of **HoHID**, **HHType**, and **Cohort** serve as a primary key. |
| **QualifyingExitHHID** | From tlsa\_HHID, the *HouseholdID* for household’s first exit to permanent housing in the cohort period, or – if the household does not have an exit to permanent housing – the first qualifying exit to any destination type. |
| LastInactive | The most recent date prior to the *EntryDate* for the qualifying exit on which the household had not been active in a continuum ES/SH/TH/RRH/PSH project for 7 or more days. |
| **Cohort** | Identifier for the cohort in which the exit occurs – from tlsa\_HHID.**ExitCohort**. |
| Stat | The household status related to continuum engagement in the two years prior to the *EntryDate* for the qualifying exit. |
| **ExitFrom** | Identifies the project type from which household exited and, for RRH/PSH, distinguishes between exits after a permanent housing placement (*MoveInDate*) and exits without placement. |
| **ExitTo** | Identifies the exit destination for the qualifying exit (from tlsa\_HHID **QXDestination**) |
| ReturnTime | For households with at least one enrollment in a continuum ES/SH/TH/RRH/PSH projects in the 15-720 days after the qualifying exit, the number of days between the qualifying exit date and the earliest subsequent *EntryDate*. |
| HHVet | Identifies whether or not the household includes a veteran. |
| HHDisability | Identifies whether or not the head of household or any adult household member was identified as having a disabling condition on the enrollment associated with the qualifying exit. |
| HHFleeingDV | Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on the enrollment associated with the qualifying exit. |
| HoHRace | Identifies race for head of household. |
| HoHEthnicity | Identifies ethnicity for head of household. |
| HHAdultAge | The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group). |
| HHParent | Identifies whether or not any household member has RelationshiptoHoH = 2 (child of the HoH) on any active enrollment in the cohort period. |
| AC3Plus | Identifies AC households that include 3 or more children on any active enrollment in the cohort period. |
| SystemPath | The combinations of system use during the cohort period and in the continuous periods of service prior to the cohort period – i.e., the ‘path’ through the system. It is not dependent on the sequence of service. Categories are mutually exclusive. |
| **ReportID** | From lsa\_Report |

### Logic

#### Exit Households

LSAExit reporting is based on a single record in tlsa\_Exit for each unique combination of:

* tlsa\_HHID.**ExitCohort**; and
* tlsa\_HHID.**HoHID** - the HoHID from tlsa\_HHID for each household with a qualifying exit in the cohort period; and
* Household Type:
  + If **ExitCohort** = 0, **ActiveHHType**
  + If **ExitCohort** = -1, **Exit1HHType**
  + If **ExitCohort** = -2, **Exit2HHType**

#### QualifyingExitHHID

The **QualifyingExitHHID** for an exit household is the tlsa\_HHID.**HouseholdID** associated with:

* The earliest qualifying exit to a permanent destination / earliest **ExitDate** where **ExitDest** between 1 and 6; or
* If there is no qualifying exit to a permanent destination, the earliest exit to a temporary destination / earliest **ExitDate** where **ExitDest** between 7 and 14; or
* If there is no qualifying exit to an identified temporary destination, the earliest qualifying exit.

In the event that there are two or more enrollments with the same exit date within a given destination category:

* Select the one with the lowest **ExitDest** value; or
* If multiple enrollments have the same exit date and **ExitDest** value, select the one with the earliest entry date; or
* If multiple enrollments have the same exit date, **ExitDest** value, and entry date, select the one with the highest **EnrollmentID**.

#### ExitFrom

Crosswalk tlsa\_HHID.**ProjectType** and tlsa\_HHID **MoveInDate** for the reportable exit to the appropriate **ExitFrom** value below.

| ProjectType | MoveInDate | ExitFrom Value | ExitFrom Category Description |
| --- | --- | --- | --- |
| 1 | n/a | 2 | ES |
| 2 | n/a | 3 | TH |
| 8 | n/a | 4 | SH |
| 13 | Not NULL | 5 | RRH after move-in to PH |
| 3 | Not NULL | 6 | PSH after move-in to PH |
| 13 | NULL | 7 | RRH without placement in PH |
| 3 | NULL | 8 | PSH without placement in PH |

## Set ReturnTime for Exit Cohort Households

tlsa\_Exit

tlsa\_HHID

hmis\_EnrollmentCoC

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_HHID** |
| HoHID |
| HouseholdID |
| ExitCohort |
| ActiveHHType |
| Exit1HHType |
| Exit2HHType |
| EntryDate |
| ExitDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **tlsa\_Exit** |
| HHType |
| QualifyingExitHHID |

#### Target

|  |
| --- |
| **tlsa\_Exit** |
| **ReturnTime** |

### Logic

#### Household Returns

A household is reported as a return if there is a later enrollment for the household in tlsa\_HHID after the qualifying exit (qx) where:

* [Return].**HoHID** = tlsa\_Exit.**HoHID**
* [Return].**EntryDate** between [qx.**ExitDate** + 15 days] and [qx.**ExitDate** + 730 days]
* There is an EnrollmentCoC record for the return enrollment where *InformationDate* = **EntryDate** and *CoCCode* = ReportCoC
* The household type matches tlsa\_Exit.**HHType** for the tlsa\_Exit.**Cohort**:
  + If **Cohort** = 0, **ActiveHHType**
  + If **Cohort** = -1, **Exit1HHType**
  + If **Cohort** = -2, **Exit2HHType**

#### ReturnTime

If there is no later enrollment that meets the criteria for a household return, set **ReturnTime**= -1.

Otherwise, **ReturnTime**is the number of days between

1. The **ExitDate** for the **QualifyingExitHHID** and
2. The **EntryDate** for the earliest return enrollment.

The value should be set in tlsa\_Exit to the actual number of days to return and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

**Note**: Both LSAHousehold/tlsa\_Household and LSAExit/tlsa\_Exit have columns named **Stat**and **ReturnTime**.

For both, **Stat** is determined based on a household’s system use **prior to** active enrollments (tlsa\_Household) or a qualifying exit (tlsa\_Exit).

The logic associated with **ReturnTime** is different, however:

* In tlsa\_Household, **ReturnTime** is associated with **Stat**and specifies the length of time between enrollment activity *prior to active enrollments* and the earliest active enrollment.
* In tlsa\_Exit, **ReturnTime** is not associated with **Stat** – it specifies the length of time *after the qualifying exit***.**

## Set Population Identifiers for Exit Cohort Households

tlsa\_Exit

tlsa\_HHID

hmis\_Client

tlsa\_Enrollment

As with the active cohort, population identifiers for exit cohort households are based on the characteristics of all household members.

The underlying logic associated with setting population identifiers for exit cohort households is the same as that for active cohort households with the following exceptions:

* Only data from the enrollment associated with the *HouseholdID* of the qualifying exit is used (as opposed to all enrollments active in the report period).
* There is no exit cohort reporting for the Chronically Homeless Households population, so it is not necessary to determine CH status.

In practice, because there is no person-level reporting for exit cohorts, the population identifiers can be set for the household without the intermediate step of setting detailed values for each person.

### Relevant Data

#### Source

|  |  |
| --- | --- |
| **tlsa\_Exit** | |
| Cohort |
| HoHID |
| HHType |
| QualifyingExitHHID |
| **tlsa\_HHID** |
| HouseholdID |
| ExitCohort |
| **tlsa\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| DisabilityStatus |
| DVStatus |
| ActiveAge |
| Exit1Age |
| Exit2Age |
| **hmis\_Client** |
| PersonalID |
| AmIndAKNative |
| Asian |
| BlackAfAmerican |
| NativeHIOtherPacific |
| White |
| RaceNone |
| Ethnicity |
| VeteranStatus |

#### Target

|  |
| --- |
| **tlsa\_Exit** |

|  |
| --- |
| HouseholdID |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |
| **HoHRace** |
| **HoHEthnicity** |

### Logic

#### HHVet

Set **HHVet** = 1 if any adult household member has a *VeteranStatus* of 1. Otherwise, **HHVet** = 0.

#### HHDisability

Set **HHDisability**= 1 if the HoH or any adult household member has a **DisabilityStatus**= 1 for the enrollment associated with the qualifying exit. Otherwise, **HHDisability**= 0.

#### HHFleeingDV

Set **HHFleeingDV** = 1 if the HoH or any adult household member has **DVStatus** = 1 for the enrollment associated with the qualifying exit. Otherwise, set **HHFleeingDV** = 0

#### HoHRace

Crosswalk HMIS *Race* values for the head of household and set **HoHRace** to the first LSA value in the table below:

| Priority | HMIS Race Values | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 1 | *Client doesn’t know* (8) or *Client refused* (9) | 98 | Client doesn't know/refused |
| 2 | *Data not collected* (99) or no race selected | 99 | Missing/invalid |
| 3 | Two or more *Race* values selected | 6 | Multiple Races |
| 4 | *White* (5) is the only race selected and Ethnicity <> 1 | 0 | White, non-Hispanic/Latino |
| 4 | *White* (5) is the only race selected and Ethnicity = 1 (Hispanic/Latino) | 1 | White, Hispanic/Latino |
| 4 | *Black or African American* (3) is the only race selected | 2 | Black or African American |
| 4 | *Asian* (2) is the only race selected | 3 | Asian |
| 4 | *American Indian or Alaska Native* (1) is the only race selected | 4 | American Indian or Alaska Native |
| 4 | *Native Hawaiian or Other Pacific Islander* (4) is the only race selected | 5 | Native Hawaiian / Other Pacific Islander |

#### HoHEthnicity

Crosswalk HMIS *Ethnicity* values for the head of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Non-Hispanic/Latino | 0 | Non-Hispanic/Latino |
| 1 | Hispanic/Latino | 1 | Hispanic/Latino |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Unknown |

#### HHAdultAge

Set **HHAdultAge** based on the ages of all household members as of the later of *EntryDate* and CohortStart using the first / topmost of the criteria below appropriate to the household:

| Upload Value | Criteria |
| --- | --- |
| -1 | The maximum of all ages is >= 98 (one or more unknown ages) |
| -1 | The maximum of all ages values is <= 17 (no adults in household) |
| 18 | The maximum of all ages is 21 (all adults are between 18 and 21) |
| 24 | The maximum of all ages is 24 (all adults are under 25) |
| 55 | The minimum of all ages is between 55 and 65 (all members are 55+) |
| 25 | (all other households) |

#### HHParent

Set **HHParent** = 1 if at least one household member has a *RelationshipToHoH* = 2 (Child of HoH).

#### AC3Plus

Set **AC3Plus** = 1 if **HHType** = 2 (AC) and there are three or more household members under the age of 18. Otherwise, **AC3Plus** = 0.

## Set System Engagement Status for Exit Cohort Households

tlsa\_Exit

tlsa\_HHID

System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

| Value | Stat |
| --- | --- |
| 1 | First-time homeless |
| 2 | Return to continuum 15-730 days after exit to permanent destination |
| 3 | Re-engage with continuum 15-730 days after exit to temporary destination |
| 4 | Re-engage with continuum 15-730 days after exit to unknown destination |
| 5 | Continuous engagement with continuum |

### Relevant Data

#### Source

|  |  |
| --- | --- |
| **tlsa\_Exit** | |
| Cohort |
| HoHID |
| HHType |
| QualifyingExitHHID |
| **tlsa\_HHID** | |
| HoHID | |
| HouseholdID | |
| ActiveHHType | |
| Exit1HHType | |
| Exit2HHType | |
| EntryDate | |
| ExitDate | |
| ExitDest | |

#### Target

|  |
| --- |
| **tlsa\_Exit** |
| **Stat** |

### Logic

#### Previous Activity

System engagement status is based on the EntryDate for the qualifying exit (qx) and, if it exists, the tlsa\_HHID record with the most recent (effective) **ExitDate** prior to the **ExitDate** for the qualifying exit (qx)where:

* [Previous].**HoHID** = tlsa\_Exit.**HoHID**
* [Previous].**EntryDate** < qx.**EntryDate**
* [Previous]**.ExitDate** between [qx.**EntryDate** – 730 days] and [qx.**ExitDate**]
* The household type matches tlsa\_Exit.**HHType** for the tlsa\_Exit.**Cohort**:
  + If **Cohort** = 0, **ActiveHHType**
  + If **Cohort** = -1, **Exit1HHType**
  + If **Cohort** = -2, **Exit2HHType**

In the event that there are two or more enrollments with the same (most recent) exit date:

* Select the one with the lowest **ExitDest** value; or
* If multiple enrollments have the same exit date and **ExitDest** value, select the one with the most recent entry date; or
* If multiple enrollments have the same exit date, **ExitDest** value, and entry date, select the one with the highest **EnrollmentID**.

#### Stat

If the household had no previous activity consistent with the criteria above, or if the household had previous activity in the 14 days prior to the **EntryDate** for the reportable exit, **Stat** is set regardless of the exit destination for the previous activity.

Otherwise – if the household has an exit 15-730 days prior to the enrollment for the reportable exit – **Stat** is determined by the exit destination for the previous enrollment.

|  |  |  |  |
| --- | --- | --- | --- |
| Priority | Stat | Category | Other Condition |
| 1 | 1 | First-time homeless | (There is no tlsa\_HHID record that meets the criteria for previous activity.) |
| 1 | 5 | Continuous engagement with continuum | [Previous].**ExitDate** > [qx.**EntryDate** – 15 days] |
| 2 | 2 | Return 15-730 days after exit to permanent destination | [Previous].**ExitDest** between 1 and 6 |
| 2 | 3 | Re-engage 15-730 days after exit to temporary destination | [Previous].**ExitDest** between 7 and 14 |
| 2 | 4 | Re-engage 15-730 days after exit to unknown destination | (any other) |

## Last Inactive Date for Exit Cohorts

tlsa\_HHID

tlsa\_Exit

sys\_TimePadded

hmis\_Services

tlsa\_Exit

### RelevantData

|  |
| --- |
| **tlsa\_Exit** |
| Cohort |
| HoHID |
| HHType |
| QualifyingExitHHID |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| Exit1HHType |
| Exit2HHType |
| EntryDate |
| ExitDate |
| ProjectType |
| TrackingMethod |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |

#### Targets

|  |  |
| --- | --- |
| **sys\_TimePadded** | **Column Description** |
| **Cohort** | From tlsa\_Exit |
| **HoHID** | From tlsa\_Exit |
| **HHType** | From tlsa\_Exit |
| **StartDate** | * For tlsa\_HHID **EnrollmentID**s in night-by-night ES, each *BedNightDate* associated with the enrollment between 10/1/2012 and **CohortEnd** * For all other tlsa\_HHID enrollments, the **EntryDate** |
| **EndDate** | * For tlsa\_HHID **EnrollmentID**s in night-by-night ES, the earlier of [**StartDate** + 6 days] or **CohortEnd** * For all other tlsa\_HHID enrollments, the earlier non-NULL of [**ExitDate** + 6 days] or **CohortEnd** |

|  |
| --- |
| **tlsa\_Exit** |
| **LastInactive** |

### Logic

This step identifies, based on the qualifying exit and potentially relevant inactive enrollments from the previous step, the date immediately prior to the first day of continuous system engagement for exit cohort households – or the household’s last inactive date prior to the qualifying exit.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project. Enrollments in tlsa\_HHID that occurred between the last inactive date and the **EntryDate** for the reportable exit are part of the household’s **SystemPath** if they have the same **HoHID** and there is a match for household type:

* If tlsa\_Exit.**Cohort** = 0, **ActiveHHType**
* If tlsa\_Exit.**Cohort** = -1, **Exit1HHType**
* If tlsa\_Exit.**Cohort** = -2, **Exit2HHType**

**LastInactive** is the later of 9/30/2012 and the most recent date where:

* [Date] < tlsa\_Exit.**EntryDate**
* [Date] is not between a *BedNightDate* and (*BedNightDate* + 6 days); and
* [Date] is not between a tlsa\_HHID.**EntryDate** and the associated (**ExitDate** + 6 days) for project types other than ES nbn.

## Set SystemPath for LSAExit

tlsa\_HHID

tlsa\_Exit

tlsa\_Exit

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_Exit** |
| HoHID |
| HHType |
| Cohort |
| LastInactive |
| QualifyingExitHHID |
| **tlsa\_HHID** |
| HoHID |
| ActiveHHType |
| Exit1HHType |
| Exit2HHType |
| EntryDate |
| ExitDate |
| ProjectType |
| HouseholdID |
| MoveInDate |

#### Target

|  |
| --- |
| **tlsa\_Exit** |
| **SystemPath** |

### Logic

**SystemPath** is not relevant for households who were housed in PSH as of **CohortStart** or for households who had been housed in RRH or PSH for at least 365 days as of the date of the qualifying exit.

Set **SystemPath** = -1 for:

* Any record in tlsa\_Exit where **ExitFrom** = 6 (PSH after move-in to PH) and tlsa\_HHID.**MoveInDate** for the qualifying exit < **CohortStart.**
* Any record in tlsa\_Exit where **ExitFrom** in (5,6) (RRH/PSH after move-in to PH) and tlsa\_HHID.**MoveInDate** for the qualifying exit is 365 days or more prior to the qualifying exit date.

For all other records in tlsa\_Exit, set **SystemPath** based on the combination of **ProjectTypes** in tlsa\_HHID where:

* **HoHID =** tlsa\_Exit.**HoHID**; and
* **EntryDate** > tlsa\_Exit.**LastInactive**; and
* **EntryDate** <= the **ExitDate** for the qualifying exit; and
* tlsa\_Exit.HHType =
  + If **ExitCohort** = 0, **ActiveHHType**
  + If **ExitCohort** = -1, **Exit1HHType**
  + If **ExitCohort** = -2, **Exit2HHType**

|  |  |  |
| --- | --- | --- |
| SystemPath | SystemPath Project Types | tlsa\_HHID ProjectType(s) |
| 1 | ES/SH | in (1,8) and  not in (2,3,13) |
| 2 | TH | = 2 and  not in (1,3,8,13) |
| 3 | ES/SH + TH | = 2 and in (1,8) and  Not in (3,13) |
| 4 | RRH | = 13 and  not in (1,3,8,2) |
| 5 | ES/SH + RRH | = 13 and in (1,8) and  not in (2,3) |
| 6 | TH + RRH | = 2 and = 13 and  Not in (1,8,3) |
| 7 | ES/SH + TH + RRH | = 2 and in (1,8) and = 13 and  <> 3 |
| 8 | PSH | = 3 and  Not in (1,2,8,13) |
| 9 | ES/SH + PSH | = 3 and in (1,8) and  Not in (2,13) |
| 10 | ES/SH + RRH + PSH | In (1,8) and = 13 and = 3 and <> 2 |
| 11 | RRH + PSH | = 3 and = 13 and  Not in (1,2,8) |
| 12 | All other combinations | |

## LSAExit

LSAExit includes 17 columns. **RowTotal** is a count of distinct combinations of **Cohort, HoHID** and **HHType** from tlsa\_Exit, grouped by the values in all other columns.

In tlsa\_Exit, **ReturnTime** is populated with actual counts of days because they are needed to generate averages for LSACalculated. For export, the actual counts are grouped into categories as shown below.

| Value | Return Time | From | To |
| --- | --- | --- | --- |
| -1 | Not applicable | -1 | -1 |
| 30 | 15-30 days | 15 | 30 |
| 60 | 31-60 days | 31 | 60 |
| 90 | 61-90 days | 61 | 90 |
| 180 | 91-180 days | 91 | 180 |
| 365 | 181-365 days | 181 | 365 |
| 547 | 366-547 days | 366 | 547 |
| 730 | 548-730 days | 548 | 730 |

All of the columns in LSAExit are integers; none may be NULL.

| # | Column Name |
| --- | --- |
| 1 | **RowTotal** |
| 2 | **Cohort** |
| 3 | **Stat** |
| 4 | **ExitFrom** |
| 5 | **ExitTo** |
| 6 | **ReturnTime** (group as shown above) |
| 7 | **HHType** |
| 8 | **HHVet** |
| 9 | **HHDisability** |
| 10 | **HHFleeingDV** |
| 11 | **HoHRace** |
| 12 | **HoHEthnicity** |
| 13 | **HHAdultAge** |
| 14 | **HHParent** |
| 15 | **AC3Plus** |
| 16 | **SystemPath** |
| 17 | **ReportID** |

# HMIS Business Logic: LSACalculated

As in LSAHousehold, LSAPerson, and LSAExit, records are only included in LSACalculated if there are records in the raw data that represent the combination of household type, population, cohort, etc.

* Averages are only included if there is at least one record where the value in the source column is greater than zero for at least one household represented by the combination of household type, population, etc.
* Counts are only included if they are greater than zero.

## Get Average Days for Length of Time Homeless

tlsa\_Household

lsa\_Calculated

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa\_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| Days in ES/SH | **ESDays** | 1 |
| Days in TH | **THDays** | 2 |
| Days in ES/SH or TH | **ESTDays** | 3 |
| Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days) | **RRHPSHPreMoveInDays** | 4 |
| Days documented in ES/SH/TH or RRH/PSH pre-move-in total | **SystemHomelessDays** | 5 |
| Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days) | **Other3917Days** | 6 |
| Days homeless total | **TotalHomelessDays** | 7 |
| Days housed in RRH | **RRHHousedDays** | 8 |
| Days documented homeless or housed in RRH total (excluding self-reported time) | **SystemDaysNotPSHHoused** | 9 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Required populations and household types for rows 1-9 are shown in the table below.

* The ID column is the **Population** value for the LSACalculated file.
* The Household Population column provides a brief description based on the population identifier set in LSAHousehold.
* The **HHType** column indicates the household types for which the population is relevant.
  + Zero (0) represents a count of all records that meet the criteria, regardless of household type.
  + The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Household.**HHType**.
* The Criteria column shows other column values required – in combination with the household type – to identify the population.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

| ID | Household Population | HHType | tlsa\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Unaccompanied Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Unaccompanied Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |
| 11 | AC Household with 3+ Children | 2 | **HHChild** = 3 |
| 12 | First Time Homeless | 0,1,2,3,99 | **Stat** = 1 |
| 13 | Return After Exit to PH | 0,1,2,3,99 | **Stat** = 2 |
| 14 | Move-In to PSH in Report Period | 0,1,2,3,99 | **PSHMoveIn** = 1 |
| 15 | White, non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 0 |
| 16 | White, Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 1 |
| 17 | Black or African American HoH | 0,1,2,3,99 | **HoHRace** = 2 |
| 18 | Asian HoH | 0,1,2,3,99 | **HoHRace** = 3 |
| 19 | American Indian/Alaska Native HoH | 0,1,2,3,99 | **HoHRace** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander HoH | 0,1,2,3,99 | **HoHRace** = 5 |
| 21 | Multi-Racial HoH | 0,1,2,3,99 | **HoHRace** = 6 |
| 22 | Non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** = 0 |
| 23 | Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** =1 |
| 39 | Youth 18-21 - Disabled Adult/HoH | 1 | **HHAdultAge** = 18 and **HHDisability** = 1 |
| 40 | Youth 18-21 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 18 and **HHFleeingDV** = 1 |
| 41 | Youth 18-21 - First Time Homeless | 1 | **HHAdultAge** = 18 and **Stat** = 1 |
| 42 | Youth 18-21 - Returning after Exit to PH | 1 | **HHAdultAge** = 18 and **Stat** = 2 |
| 43 | Youth 18-21 - PSH Move-In During Report Period | 1 | **HHAdultAge** = 18 and **PSHMoveIn** = 1 |
| 44 | Youth 18-21 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 0 |
| 45 | Youth 18-21 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 1 |
| 46 | Youth 18-21 - Black or African American HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 2 |
| 47 | Youth 18-21 - Asian HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 3 |
| 48 | Youth 18-21 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 4 |
| 49 | Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 5 |
| 50 | Youth 18-21 - Multi-Racial HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 6 |
| 51 | Youth 18-21 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** = 0 |
| 52 | Youth 18-21 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** =1 |
| 53 | Youth 22-24 - Disabled Adult/HoH | 1 | **HHAdultAge** = 24 and **HHDisability** = 1 |
| 54 | Youth 22-24 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 24 and **HHFleeingDV** = 1 |
| 55 | Youth 22-24 - First Time Homeless | 1 | **HHAdultAge** = 24 and **Stat** = 1 |
| 56 | Youth 22-24 - Returning after Exit to PH | 1 | **HHAdultAge** = 24 and **Stat** = 2 |
| 57 | Youth 22-24 - PSH Move-In During Report Period | 1 | **HHAdultAge** = 24 and **PSHMoveIn** = 1 |
| 58 | Youth 22-24 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 0 |
| 59 | Youth 22-24 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 1 |
| 60 | Youth 22-24 - Black or African American HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 2 |
| 61 | Youth 22-24 - Asian HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 3 |
| 62 | Youth 22-24 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 4 |
| 63 | Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 5 |
| 64 | Youth 22-24 - Multi-Racial HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 6 |
| 65 | Youth 22-24 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** = 0 |
| 66 | Youth 22-24 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** =1 |
| 67 | Non-Veteran 25+ - Disabled Adult/HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1 |
| 68 | Non-Veteran 25+ - Fleeing Domestic Violence | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1 |
| 69 | Non-Veteran 25+ - First Time Homeless | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1 |
| 70 | Non-Veteran 25+ - Returning after Exit to PH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2 |
| 71 | Non-Veteran 25+ - with PSH Move-In During Report Period | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **PSHMoveIn** = 1 |
| 72 | Non-Veteran 25+ - White, non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0 |
| 73 | Non-Veteran 25+ - White, Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1 |
| 74 | Non-Veteran 25+ - Black or African American HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2 |
| 75 | Non-Veteran 25+ - Asian HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3 |
| 76 | Non-Veteran 25+ - American Indian/Alaska Native HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4 |
| 77 | Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5 |
| 78 | Non-Veteran 25+ - Multi-Racial HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6 |
| 79 | Non-Veteran 25+ - Non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0 |
| 80 | Non-Veteran 25+ - Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1 |
| 81 | Veteran - Disabled Adult/HoH | 0,1,2,99 | **HHVet** = 1 and **HHDisability** = 1 |
| 82 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **HHVet** = 1 and **HHFleeingDV** = 1 |
| 83 | Veteran - First Time Homeless | 0,1,2,99 | **HHVet** = 1 and **Stat** = 1 |
| 84 | Veteran - Returning after Exit to PH | 0,1,2,99 | **HHVet** = 1 and **Stat** = 2 |
| 85 | Veteran - PSH Move-In During Report Period | 0,1,2,99 | **HHVet** = 1 and **PSHMoveIn** = 1 |
| 86 | Veteran - White, non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 0 |
| 87 | Veteran - White, Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 1 |
| 88 | Veteran - Black or African American HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 2 |
| 89 | Veteran - Asian HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 3 |
| 90 | Veteran - American Indian/Alaska Native HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 4 |
| 91 | Veteran - Native Hawaiian/Other Pacific Islander HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 5 |
| 92 | Veteran - Multi-Racial HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 6 |
| 93 | Veteran - Non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** = 0 |
| 94 | Veteran - Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** =1 |
| 95 | Veteran 55+ | 0,1,2 | **HHVet** = 1 and **HHAdultAge** = 55 |
| 96 | Non-Veteran 55+ | 1 | **HHVet** = 0 and **HHAdultAge** = 55 |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is NULL.

## Get Average Days for Length of Time Homeless by System Path

tlsa\_Household

lsa\_Calculated

### ReportRow, SystemPath, and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa\_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The averages for LSACalculated are grouped by the **SystemPath** values from LSAHousehold.

| Report Row Category | Source Column and Criteria | ReportRow |
| --- | --- | --- |
| Days in ES/SH | **ESDays**  where **SystemPath** in (1,3,5,7,9,10,12) | 1 |
| Days in TH | **THDays**  where **SystemPath** in (2,3,6,7,12) | 2 |
| Days in ES/SH or TH | **ESTDays**  where **SystemPath** in (3,7,12) | 3 |
| Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days) | **RRHPSHPreMoveInDays**  where **SystemPath** in (4,5,6,7,8,9,10,11,12) | 4 |
| Days documented in ES/SH/TH or RRH/PSH pre-move-in total | **SystemHomelessDays**  where **SystemPath** in (5,6,7,8,9,10,11,12) | 5 |
| Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days) | **Other3917Days**  where **SystemPath** <> -1 | 6 |
| Days homeless total | **TotalHomelessDays**  where **SystemPath** <> -1 | 7 |
| Days housed in RRH | **RRHHousedDays**  where **SystemPath** in (4,5,6,7,10,11,12) | 8 |
| Days documented homeless or housed in RRH total (excluding self-reported time) | **SystemDaysNotPSHHoused**  where **SystemPath** <> -1 | 9 |

### Population and HHType

Generate rows 10-11 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

| ID | Household Population | HHType | tlsa\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is NULL.

## Get Average Days for Cumulative Length of Time Housed in PSH

tlsa\_Household

lsa\_Calculated

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa\_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

| Report Row Category | Source Column and Criteria | ReportRow |
| --- | --- | --- |
| Days housed in PSH – exited in report period | **PSHHousedDays**  (where **PSHMoveIn** in (1,2) and **PSHStatus** in (12,22)) | 10 |
| Days housed in PSH – housed at report end | **PSHHousedDays**  (where **PSHMoveIn** in (1,2) and **PSHStatus** in (11,21)) | 11 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 10-11 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

| ID | Household Population | HHType | tlsa\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is NULL.

## Get Average Days for Length of Time in RRH Projects

tlsa\_Household

lsa\_Calculated

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** =the average of [Source Column] from tlsa\_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

| Report Row Category | Source Column and Criteria | ReportRow |
| --- | --- | --- |
| RRH start to exit for households not placed in PH before exiting | **RRHPreMoveInDays** where  **RRHStatus** in (12,22) and **RRHMoveIn** in = 0 | 12 |
| RRH start to report end for active households not yet placed in PH | **RRHPreMoveInDays** where  **RRHStatus** in (11, 21) and **RRHMoveIn** in = 0 | 13 |
| RRH start to move-in for all households placed in PH | **RRHPreMoveInDays** where **RRHMoveIn** in (1,2) and **RRHStatus** > 2 | 14 |
| RRH move-in to exit for households placed before exiting | **RRHHousedDays** where **RRHStatus** in (12,22) and **RRHMoveIn** in (1,2) | 15 |
| RRH move-in to report end for active households placed in PH | **RRHHousedDays** where **RRHStatus** in (11,21) and **RRHMoveIn** in (1,2) | 16 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 12-16 for each of the following populations and household types.

* The **HHType** column indicates the household types for which the population is relevant.
  + Zero (0) represents a count of all records that meet the criteria, regardless of household type.
  + The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

| ID | Household Population | HHType | tlsa\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is NULL.

## Get Average Days to Return/Re-engage by Last Project Type

tlsa\_Exit

lsa\_Calculated

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa\_Exit where **ReturnTime** > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

| Report Row Category | Source Column and Criteria | ReportRow |
| --- | --- | --- |
| Days to return after exit from ES | **ReturnTime** where **ExitFrom** = 2 | 18 |
| Days to return after exit from TH | **ReturnTime** where **ExitFrom** = 3 | 19 |
| Days to return after exit from SH | **ReturnTime** where **ExitFrom** = 4 | 20 |
| Days to return after exit from RRH (placed in PH) | **ReturnTime** where **ExitFrom** = 5 | 21 |
| Days to return after exit from PSH (placed in PH) | **ReturnTime** where **ExitFrom** = 6 | 22 |
| Days to return after exit from RRH (not placed) | **ReturnTime** where **ExitFrom** = 7 | 63 |
| Days to return after exit from PSH (not placed) | **ReturnTime** where **ExitFrom** = 8 | 64 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 18-22 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
  + The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

| ID | Household Population | HHType | tlsa\_Exit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 18-22 are required for exit cohorts -2, -1, and 0; lsa\_Calculated.**Cohort** is populated using those values.

The value of **Universe** is based on LSAExit (tlsa\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

## Get Average Days to Return/Re-engage by Population

tlsa\_Exit

lsa\_Calculated

### ReportRow, SystemPath and Source Columns for Value

For **ReportRow** 23, **Value** =the average of **ReturnTime** where **ReturnTime** > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The value of **SystemPath** in LSACalculated should be -1 for these records; records are selected for inclusion regardless of the **SystemPath** value in LSAExit.

### Population and HHType

Generate row 23 for each of the following populations and household types. (Note: LSAExit does not include reporting on Households with a Chronically Homeless Adult/HoH or Households with Move-In to PSH in Report Period; associated population IDs (e.g., 6 and 43) are deliberately omitted from the list below.)

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |
| 11 | AC Household with 3+ Children | 2 | **AC3Plus** = 1 |
| 12 | First Time Homeless | 0,1,2,3,99 | **Stat** = 1 |
| 13 | Return After Exit to PH | 0,1,2,3,99 | **Stat** = 2 |
| 15 | White, non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 0 |
| 16 | White, Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 1 |
| 17 | Black or African American HoH | 0,1,2,3,99 | **HoHRace** = 2 |
| 18 | Asian HoH | 0,1,2,3,99 | **HoHRace** = 3 |
| 19 | American Indian/Alaska Native HoH | 0,1,2,3,99 | **HoHRace** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander HoH | 0,1,2,3,99 | **HoHRace** = 5 |
| 21 | Multi-Racial HoH | 0,1,2,3,99 | **HoHRace** = 6 |
| 22 | Non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** = 0 |
| 23 | Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** =1 |
| 39 | Youth 18-21 - Disabled Adult/HoH | 1 | **HHAdultAge** = 18 and **HHDisability** = 1 |
| 40 | Youth 18-21 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 18 and **HHFleeingDV** = 1 |
| 41 | Youth 18-21 - First Time Homeless | 1 | **HHAdultAge** = 18 and **Stat** = 1 |
| 42 | Youth 18-21 - Returning after Exit to PH | 1 | **HHAdultAge** = 18 and **Stat** = 2 |
| 44 | Youth 18-21 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 0 |
| 45 | Youth 18-21 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 1 |
| 46 | Youth 18-21 - Black or African American HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 2 |
| 47 | Youth 18-21 - Asian HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 3 |
| 48 | Youth 18-21 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 4 |
| 49 | Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 5 |
| 50 | Youth 18-21 - Multi-Racial HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 6 |
| 51 | Youth 18-21 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** = 0 |
| 52 | Youth 18-21 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** =1 |
| 53 | Youth 22-24 - Disabled Adult/HoH | 1 | **HHAdultAge** = 24 and **HHDisability** = 1 |
| 54 | Youth 22-24 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 24 and **HHFleeingDV** = 1 |
| 55 | Youth 22-24 - First Time Homeless | 1 | **HHAdultAge** = 24 and **Stat** = 1 |
| 56 | Youth 22-24 - Returning after Exit to PH | 1 | **HHAdultAge** = 24 and **Stat** = 2 |
| 58 | Youth 22-24 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 0 |
| 59 | Youth 22-24 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 1 |
| 60 | Youth 22-24 - Black or African American HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 2 |
| 61 | Youth 22-24 - Asian HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 3 |
| 62 | Youth 22-24 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 4 |
| 63 | Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 5 |
| 64 | Youth 22-24 - Multi-Racial HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 6 |
| 65 | Youth 22-24 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** = 0 |
| 66 | Youth 22-24 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** =1 |
| 67 | Non-Veteran 25+ - Disabled Adult/HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1 |
| 68 | Non-Veteran 25+ - Fleeing Domestic Violence | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1 |
| 69 | Non-Veteran 25+ - First Time Homeless | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1 |
| 70 | Non-Veteran 25+ - Returning after Exit to PH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2 |
| 72 | Non-Veteran 25+ - White, non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0 |
| 73 | Non-Veteran 25+ - White, Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1 |
| 74 | Non-Veteran 25+ - Black or African American HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2 |
| 75 | Non-Veteran 25+ - Asian HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3 |
| 76 | Non-Veteran 25+ - American Indian/Alaska Native HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4 |
| 77 | Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5 |
| 78 | Non-Veteran 25+ - Multi-Racial HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6 |
| 79 | Non-Veteran 25+ - Non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0 |
| 80 | Non-Veteran 25+ - Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1 |
| 81 | Veteran - Disabled Adult/HoH | 0,1,2,99 | **HHVet** = 1 and **HHDisability** = 1 |
| 82 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **HHVet** = 1 and **HHFleeingDV** = 1 |
| 83 | Veteran - First Time Homeless | 0,1,2,99 | **HHVet** = 1 and **Stat** = 1 |
| 84 | Veteran - Returning after Exit to PH | 0,1,2,99 | **HHVet** = 1 and **Stat** = 2 |
| 86 | Veteran - White, non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 0 |
| 87 | Veteran - White, Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 1 |
| 88 | Veteran - Black or African American HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 2 |
| 89 | Veteran - Asian HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 3 |
| 90 | Veteran - American Indian/Alaska Native HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 4 |
| 91 | Veteran - Native Hawaiian/Other Pacific Islander HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 5 |
| 92 | Veteran - Multi-Racial HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 6 |
| 93 | Veteran - Non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** = 0 |
| 94 | Veteran - Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** =1 |
| 95 | Veteran 55+ | 0,1,2 | **HHVet** = 1 and **HHAdultAge** = 55 |
| 96 | Non-Veteran 55+ | 1 | **HHVet** = 0 and **HHAdultAge** = 55 |

### Cohort, Universe, and ProjectID

Row 23 is required for exit cohorts -2, -1, and 0; lsa\_Calculated.**Cohort** is populated using those values. The value of **Universe** is based on LSAExit (tlsa\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is NULL.

## Get Average Days to Return/Re-engage by System Path

tlsa\_Exit

lsa\_Calculated

### ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and **SystemPath** meets the listed criteria, rounded to the nearest whole number.

For **ReportRow**s 24-35, averages are grouped by the **SystemPath** value in LSAExit; the **SystemPath** value in LSACalculated should match the SystemPath value in LSAExit.

**ReportRow** 36 includes all records where the LSAExit value for **SystemPath** <> - 1 – i.e., SystemPath values 1-12. Because the average is for multiple **SystemPath** values, the LSACalculated value for **SystemPath** = -1 for this row.

| Report Row Category | tlsa\_Exit Values | ReportRow |
| --- | --- | --- |
| Days to return after ES/SH only path | **SystemPath** = 1 | 24 |
| Days to return after TH path | **SystemPath** = 2 | 25 |
| Days to return after ES/SH/TH path | **SystemPath** = 3 | 26 |
| Days to return after RRH only path | **SystemPath** = 4 | 27 |
| Days to return after ES/SH/RRH path | **SystemPath** = 5 | 28 |
| Days to return after TH/RRH path | **SystemPath** = 6 | 29 |
| Days to return after ES/SH/TH/RRH path | **SystemPath** = 7 | 30 |
| Days to return after PSH only path | **SystemPath** = 8 | 31 |
| Days to return after ES/SH/PSH path | **SystemPath** = 9 | 32 |
| Days to return after ES/SH/RRH/PSH path | **SystemPath** = 10 | 33 |
| Days to return after RRH/PSH path | **SystemPath** = 11 | 34 |
| Days to return after other path | **SystemPath** = 12 | 35 |
| Days to return after any system path | **SystemPath** = <> -1 | 36 |

### Population and HHType

Generate rows 24-36 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 24-36 are required for exit cohorts -2, -1, and 0; lsa\_Calculated.**Cohort** is populated using those values. The value of **Universe** is based on LSAExit (tlsa\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

## Get Average Days to Return/Re-engage by Exit Destination

tlsa\_Exit

lsa\_Calculated

### ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and tlsa\_Exit.**ExitTo** meets the listed criteria, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The **ExitTo** column in tlsa\_Exit determines the **ReportRow** and **Universe**, which distinguishes between permanent, temporary, and unknown destination types.

| Report Row Category | tlsa\_Exit Identifiers | ReportRow | Universe |
| --- | --- | --- | --- |
| Days to return after PSH destination | **ExitTo** = 1 | 37 | 2 |
| Days to return after PH - rent with temp subsidy destination | **ExitTo** = 2 | 38 | 2 |
| Days to return after PH - rent/own with subsidy destination | **ExitTo** = 3 | 39 | 2 |
| Days to return after PH - rent/own no subsidy destination | **ExitTo** = 4 | 40 | 2 |
| Days to return after Family - permanent destination | **ExitTo** = 5 | 41 | 2 |
| Days to return after Friends - permanent destination | **ExitTo** = 6 | 42 | 2 |
| Days to return after Institutions - group/ assisted destination | **ExitTo** = 7 | 43 | 3 |
| Days to return after Institutions - medical destination | **ExitTo** = 8 | 44 | 3 |
| Days to return after Institutions - incarceration destination | **ExitTo** = 9 | 45 | 3 |
| Days to return after Temporary - not homeless destination | **ExitTo** = 10 | 46 | 3 |
| Days to return after Homeless - ES/SH/TH destination | **ExitTo** = 11 | 47 | 3 |
| Days to return after Homeless - Street destination | **ExitTo** = 12 | 48 | 3 |
| Days to return after Family - temporary destination | **ExitTo** = 13 | 49 | 3 |
| Days to return after Friends - temporary destination | **ExitTo** = 14 | 50 | 3 |
| Days to return after Deceased destination | **ExitTo** = 15 | 51 | 4 |
| Days to return after Unknown destination | **ExitTo** = 99 | 52 | 4 |

The value of LSACalculated.**SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 37-52 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on tlsa\_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 37-52 are required for exit cohorts -2, -1, and 0; lsa\_Calculated.**Cohort** is populated using those values. Rows 37-45 are required for universe 2; Rows 43-50 are required for universe 3; Rows 51-52 are required for universe 4. The value of **Universe** is based on LSAExit (tlsa\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is NULL.

The objective of this step is to calculate specified counts for various groups of households based on identifiers established in tlsa\_Household.

## Get Counts of People by Project and Household Characteristics

lsa\_Calculated

tlsa\_CohortDates

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 53 counts people in households whose members have various characteristics.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **PersonalID***s* in tlsa\_Enrollment where **Active** = 1, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa\_Enrollment where **Active** = 1 and:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_HHID Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of people by project.

## Get Counts of People by Project Type and Household Characteristics

lsa\_Calculated

tlsa\_CohortDates

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, and Value

**ReportRow** 53 counts people in households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **PersonalID***s* in tlsa\_Enrollment where **Active** = 1, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa\_Enrollment where **Active** = 1 and:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_HHID Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of people by project type.

## Get Counts of Households by Project

lsa\_Calculated

tlsa\_CohortDates

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 54 counts households whose members have various characteristics.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **HoHID/ActiveHHType**s in tlsa\_HHID, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include households (distinct **HoHID**/**ActiveHHType**s) in tlsa\_Household where the HoHID has an active enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_HHID Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of households by project.

## Get Counts of Households by Project Type

lsa\_Calculated

tlsa\_CohortDates

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, and Value

**ReportRow** 54 counts households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **HoHID/ActiveHHType**s in tlsa\_HHID where **Active** = 1, grouped by project type (**Universe**), with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Counts are unduplicated across projects, but not across project types.

* A household with overlapping enrollments in two emergency shelters on a given date should be counted once in ES and once in the combined ES/SH/TH project group.
* A household with overlapping enrollments in an emergency shelter and a Safe Haven should be counted once in ES, once in SH, and once in the combined ES/SH/TH project group.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include households (distinct **HoHID**/**ActiveHHType**s) in tlsa\_HHID where **Active** = 1 and:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_HHID Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of households by project type.

## Get Counts of People by Project and Personal Characteristics

lsa\_Calculated

tlsa\_CohortDates

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

tlsa\_Person

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 55 counts people based on a combination of household characteristics and their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **PersonalID**s in tlsa\_Person active in relevant projects (**ProjectID**)during the cohort period (**Cohort**) that meet the criteria for inclusion based on household type and personal characteristics in tlsa\_Person.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa\_Enrollment where **Active** = 1 and:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### HouseholdType and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

* The **HHType** column indicates the household types for which the population is relevant.
* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Population | HHType | Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | tlsa\_Person.**VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | tlsa\_Person.**DisabilityStatus** = 1 and:   * **CHTime** = 365 and **CHTimeStatus** in (1,2); or * **CHTime** = 400 and **CHTimeStatus** = 2 |
| 145 | Age 18-21 in AO Youth Household | 1 | tlsa\_Enrollment.Maximum **ActiveAge** = 21 and  **HHAdultAge** in (18, 24) |
| 146 | Age 22-24 in AO Youth Household | 1 | tlsa\_Enrollment. Maximum **ActiveAge** = 24 and  **HHAdultAge** = 24 |
| 147 | Age 18-21 in AC Parenting Youth Household | 2 | tlsa\_Enrollment. Maximum **ActiveAge** = 21 and  **HHAdultAge** in (18, 24) and  tlsa\_HHID.**HHParent** = 1 |
| 148 | Age 22-24 in AC Parenting Youth Household | 2 | tlsa\_Enrollment. Maximum **ActiveAge** = 24 and  **HHAdultAge** = 24 and  tlsa\_HHID.**HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of people by **ProjectID**.

## Get Counts of People by Project Type and Personal Characteristics

lsa\_Calculated

tlsa\_CohortDates

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

tlsa\_Person

### Report Row, Universe, and Value

**ReportRow** 55 counts people based on their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count. These counts may be included under any circumstances but are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16 = ES/SH/TH combined | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **PersonalID**s in tlsa\_Person active in relevant project types (**Universe**)during the cohort period (**Cohort**) that meet the criteria for based on household type and personal characteristics in tlsa\_Person.

### Cohort

For each of the date ranges in tlsa\_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa\_Enrollment where **Active** = 1 and:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
* **ExitDate** is NULL; or
  + **ExitDate** > **CohortStart**; or
  + **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

Criteria refer to columns in tlsa\_Person unless otherwise specified. Data from tlsa\_HHID and tlsa\_Enrollment is always limited to records where **Active** = 1.

Counts include heads of household and all household members with the exception of counts of parenting children and youth (population IDs 113 – 144). These are limited to heads of household (because it is not possible to identify any other household member as a parent).

| ID | Population | HHType | Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |
| 15 | White, non-Hispanic/Latino | 0,1,2,3,99 | **Race** = 0 |
| 16 | White, Hispanic/Latino | 0,1,2,3,99 | **Race** = 1 |
| 17 | Black or African American | 0,1,2,3,99 | **Race** = 2 |
| 18 | Asian | 0,1,2,3,99 | **Race** = 3 |
| 19 | American Indian/Alaska Native | 0,1,2,3,99 | **Race** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander | 0,1,2,3,99 | **Race** = 5 |
| 21 | Multi-Racial | 0,1,2,3,99 | **Race** = 6 |
| 22 | Non-Hispanic/Latino | 0,1,2,3,99 | **Ethnicity** = 0 |
| 23 | Hispanic/Latino | 0,1,2,3,99 | **Ethnicity** =1 |
| 24 | <1 year | 0,2,3,99 | Maximum **ActiveAge** = 0 |
| 25 | 1 to 2 years | 0,2,3,99 | Maximum **ActiveAge** = 2 |
| 26 | 3 to 5 years | 0,2,3,99 | Maximum **ActiveAge** = 5 |
| 27 | 6 to 17 years | 0,2,3,99 | Maximum **ActiveAge** = 17 |
| 28 | 18 to 21 years | 0,1,2,99 | Maximum **ActiveAge** = 21 |
| 29 | 22 to 24 years | 0,1,2,99 | Maximum **ActiveAge** = 24 |
| 30 | 25 to 34 years | 0,1,2,99 | Maximum **ActiveAge** = 34 |
| 31 | 35 to 44 years | 0,1,2,99 | Maximum **ActiveAge** = 44 |
| 32 | 45 to 54 years | 0,1,2,99 | Maximum **ActiveAge** = 54 |
| 33 | 55 to 64 years | 0,1,2,99 | Maximum **ActiveAge** = 64 |
| 34 | 65 and older | 0,1,2,99 | Maximum **ActiveAge** = 65 |
| 35 | Female | 0,1,2,3,99 | **Gender** = 1 |
| 36 | Male | 0,1,2,3,99 | **Gender** = 2 |
| 37 | Transgender | 0,1,2,3,99 | **Gender** = 3 |
| 38 | Gender non-conforming | 0,1,2,3,99 | **Gender** = 4 |
| 97 | Veteran - Female | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 1 |
| 98 | Veteran - Male | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 2 |
| 99 | Veteran - Transgender | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 3 |
| 100 | Veteran - Gender non-conforming | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 4 |
| 101 | Veteran - White, non-Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Race** = 0 |
| 102 | Veteran - White, Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Race** = 1 |
| 103 | Veteran - Black or African American | 0,1,2,99 | **VetStatus** = 1 and **Race** = 2 |
| 104 | Veteran - Asian | 0,1,2,99 | **VetStatus** = 1 and **Race** = 3 |
| 105 | Veteran - American Indian or Alaska Native | 0,1,2,99 | **VetStatus** = 1 and **Race** = 4 |
| 106 | Veteran - Native Hawaiian / Other Pacific Islander | 0,1,2,99 | **VetStatus** = 1 and **Race** = 5 |
| 107 | Veteran - Multiple Races | 0,1,2,99 | **VetStatus** = 1 and **Race** = 6 |
| 108 | Veteran - Non-Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Ethnicity** = 0 |
| 109 | Veteran - Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Ethnicity** = 1 |
| 110 | Veteran - Chronically Homeless | 0,1,2,99 | **VetStatus** = 1 and **DisabilityStatus** = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 111 | Veteran - Disabled | 0,1,2,99 | **VetStatus** = 1 and **DisabilityStatus** = 1 |
| 112 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **VetStatus** = 1 and **DVStatus** = 1 |
| 113 | Parenting Youth - Female | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) and tlsa\_Person.**Gender** = 1 |
| 114 | Parenting Youth - Male | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) and tlsa\_Person.**Gender** = 2 |
| 115 | Parenting Youth - Transgender | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) and tlsa\_Person.**Gender** = 3 |
| 116 | Parenting Youth - Gender non-conforming | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) and tlsa\_Person.**Gender** = 4 |
| 117 | Parenting Youth - White, non-Hispanic/Latino | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) and tlsa\_Person.**Race** = 0 |
| 118 | Parenting Youth - White, Hispanic/Latino | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24) (21,24) and tlsa\_Person.**Race** = 1 |
| 119 | Parenting Youth - Black or African American | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge**(HoH) in (21,24)and tlsa\_Person.**Race** = 2 |
| 120 | Parenting Youth - Asian | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Race** = 3 |
| 121 | Parenting Youth - American Indian or Alaska Native | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Race** = 4 |
| 122 | Parenting Youth - Native Hawaiian / Other Pacific Islander | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Race** = 5 |
| 123 | Parenting Youth - Multiple Races | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Race** = 6 |
| 124 | Parenting Youth - Non-Hispanic/Latino | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Ethnicity** = 0 |
| 125 | Parenting Youth - Hispanic/Latino | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**Ethnicity** = 1 |
| 126 | Parenting Youth - Chronically Homeless | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**DisabilityStatus** = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 127 | Parenting Youth - Disabled | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**DisabilityStatus** = 1 |
| 128 | Parenting Youth - Fleeing Domestic Violence | 2 | tlsa\_HHID.**HHParent** = 1 and  Maximum **ActiveAge** (HoH) in (21,24)  and tlsa\_Person.**DVStatus** (HoH) = 1 |
| 129 | Parenting Child - Female | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Gender** (HoH) = 1 |
| 130 | Parenting Child - Male | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Gender** (HoH) = 2 |
| 131 | Parenting Child - Transgender | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Gender** (HoH) = 3 |
| 132 | Parenting Child - Gender non-conforming | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Gender** (HoH) = 4 |
| 133 | Parenting Child - White, non-Hispanic/Latino | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 0 |
| 134 | Parenting Child - White, Hispanic/Latino | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 1 |
| 135 | Parenting Child - Black or African American | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 2 |
| 136 | Parenting Child - Asian | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 3 |
| 137 | Parenting Child - American Indian or Alaska Native | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 4 |
| 138 | Parenting Child - Native Hawaiian / Other Pacific Islander | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 5 |
| 139 | Parenting Child - Multiple Races | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Race** (HoH) = 6 |
| 140 | Parenting Child - Non-Hispanic/Latino | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Ethnicity** (HoH) = 0 |
| 141 | Parenting Child - Hispanic/Latino | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**Ethnicity** (HoH) = 1 |
| 142 | Parenting Child - Chronically Homeless | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**DisabilityStatus** (HoH) = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 143 | Parenting Child - Disabled | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**DisabilityStatus**(HoH) = 1 |
| 144 | Parenting Child - Fleeing Domestic Violence | 3 | tlsa\_HHID.**HHParent** = 1 and tlsa\_Person.**DVStatus** (HoH) = 1 |
| 145 | Age 18-21 in AO Youth Household | 1 | tlsa\_HHID.**HHAdultAge** in (18,24) and  Maximum **ActiveAge** = 21 |
| 146 | Age 22-24 in AO Youth Household | 1 | tlsa\_HHID.**HHAdultAge** = 24  Maximum **ActiveAge** = 24 |
| 147 | Age 18-21 in AC Parenting Youth Household | 2 | tlsa\_HHID.**HHParent** = 1 and  tlsa\_HHID.**HHAdultAge** in (18,24)  Maximum **ActiveAge** (any household member) = 21 |
| 148 | Age 22-24 in AC Parenting Youth Household | 2 | tlsa\_HHID.**HHParent** = 1 and  tlsa\_HHID.**HHAdultAge** = 24  tlsa\_Enrollment.**ActiveAge** (any household member) = 24 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of people by project type.

## Get Counts of Bednights by Project and Household Characteristics

lsa\_Calculated

lsa\_Report

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **ProjectID**.

These counts may be included under any circumstances but are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tlsa\_Person that meet the criteria for inclusion in the cohort, universe, household type, and population, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** = 3 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 13 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  = **MoveInDate** and = **ExitDate**; or  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* (hmis\_Services.*DateProvided* where *RecordType* = 200) | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |

### SystemPath

**SystemPath** is always -1 for counts of bednights.

## Get Counts of Bednights by Project Type and Household Characteristics

lsa\_Calculated

lsa\_Report

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

### ReportRow, Universe, and Value

**ReportRow** 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **Universe**. These counts may be included under any circumstances but are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tlsa\_Person active in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tlsa\_Person, where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** = 3 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 13 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  = **MoveInDate** and = **ExitDate**; or  If **ExitDate** is NULL, ReportEnd |
|  |  |  |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |

### SystemPath and ProjectID

**SystemPath** is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

## Get Counts of Bednights by Project and Personal Characteristics

lsa\_Calculated

lsa\_Report

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

tlsa\_Person

### ReportRow, Universe, ProjectID and Value

**ReportRow** 57 counts bed nights for people based on their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count.

These counts may be included under any circumstances but are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of the combination of [Date] and distinct **PersonalID***s* in tlsa\_Person with active enrollments in relevant projects (**ProjectID**)that meet the criteria for inclusion based on household type and personal characteristics in tlsa\_Person, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** = 3 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 13 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  = **MoveInDate** and = **ExitDate**; or  If **ExitDate** is NULL, ReportEnd |
|  |  |  |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

The value in the **ProjectID** column for these counts must match a record in Project.csv.

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project. Criteria are based on tlsa\_Person values.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_Person Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |

### SystemPath

**SystemPath** is always -1 for counts of bednights.

## Get Counts of Bednights by Project Type and Personal Characteristics

lsa\_Calculated

lsa\_Report

tlsa\_Enrollment

tlsa\_HHID

hmis\_Services

tlsa\_Person

### ReportRow, Universe, and Value

**ReportRow** 57 counts bed nights for people based on their own personal characteristics; for example, only bednights for veterans are included in the ‘Veteran’ count.

These counts may be included under any circumstances but are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16= ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tlsa\_Person with active enrollments in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tlsa\_Person, where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** = 3 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 13 | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  = **MoveInDate** and = **ExitDate**; or  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is NULL, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type. Criteria are based on tlsa\_Person.

The **HHType** column indicates the household types for which the population is relevant.

* Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

| ID | Household Population | HHType | tlsa\_Person Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |

### SystemPath and ProjectID

**SystemPath** is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

## Data Quality – Get Counts of Enrollments Active After Project Operating End Date by Project

lsa\_Calculated

hmis\_Exit

tlsa\_Enrollment

hmis\_Project

tlsa\_CohortDates

### ReportRow

**ReportRow**s 58 and 59 count a subset of enrollments in tlsa\_Enrollment

**ReportRow** 58 counts enrollments without an *ExitDate* in continuum ES/SH/TH/RRH/PSH projects that have an *OperatingEndDate* between CohortStart and CohortEnd.

**ReportRow** 59 counts enrollments with an *ExitDate* from a continuum ES/SH/TH/RRH/PSH project where *OperatingEndDate* is between CohortStart and CohortEnd and *ExitDate* > *OperatingEndDate*.

### Cohort

**Cohort** = 20 for these counts – they include all enrollments in continuum ES/SH/TH/RRH/PSH projects active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

### Universe, ProjectID, and Value

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

**Value** = a count of distinct *EnrollmentID*s in hmis\_Enrollment where:

* Project.*OperatingEndDate* between CohortStart and CohortEnd
* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
  + Exit.*ExitDate* is NULL (**ReportRow** 58); or
  + Exit.ExitDate > Project. *OperatingEndDate* (**ReportRow** 59)
* There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC

Records are only included when the count is greater than zero.

### Household Type, Population, and SystemPath

**HHType** and **Population** for these counts is always 0.

**SystemPath** is always -1.

## Data Quality – Get Counts of Night-by-Night Enrollments with Exit Date Discrepancies by Project

lsa\_Calculated

lsa\_Report

hmis\_Exit

tlsa\_HHID

hmis\_Enrollment

hmis\_Project

hmis\_Services

### ReportRow, Universe, and ProjectID

**ReportRow** 60 counts enrollments without an *ExitDate* in continuum night-by-night ES projects that have no record of a bednight in the 90 days ending on ReportEnd.

**ReportRow** 61 counts enrollments with an *ExitDate* in continuum night-by-night ES projects between CohortStart and CohortEnd and where there is no record of a bed night on [*ExitDate* – 1 day].

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

### Cohort

**Cohort** = 20 for these counts. The cohort for these counts is all clients in continuum night-by-night ES projects enrollments active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

### Value

**Value** = a count of distinct *EnrollmentID*s in hmis\_Enrollment where:

* Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3
* Project.*ContinuumProject* = 1
* There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
  + Exit.*ExitDate* is NULL and **LastBednight** <= [CohortEnd – 90 days](**ReportRow** 60); or
  + Exit.*ExitDate* between CohortStart and CohortEnd and **LastBednight** <> *ExitDate* – 1 day] (**ReportRow** 61)

In this context, **LastBednight** is the most recent bednight for the enrollment on or before ReportEnd.

### Household Type, Population, and SystemPath

**HHType** and **Population** for these counts is always 0.

**SystemPath** is always -1.

## Data Quality – Get Counts of Households with no EnrollmentCoC Record by Project

lsa\_Calculated

lsa\_Report

hmis\_Exit

hmis\_Enrollment

lsa\_Project

hmis\_EnrollmentCoC

### ReportRow and Value

**ReportRow** 62 counts households that are active in a continuum ES/SH/TH/RRH/PSH project during the report period and whose enrollment(s) are not associated with any CoC.

**Value** = a count of distinct *HouseholdID*s in hmis\_Enrollment where:

* *ProjectID* = lsa\_Project.**ProjectID** and *ProjectType* is not in (9,10); and
* *EntryDate* <= ReportEnd; and
* hmis\_Exit.*ExitDate* is NULL or
  + Exit*.ExitDate* >= ReportStart; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*
* There is no hmis\_EnrollmentCoC record where:
  + *CoCCode* is not NULL; and
  + *HouseholdID* = hmis\_Enrollment.*HouseholdID*; and
  + *InformationDate* <= ReportEnd

### Universe and ProjectID

The **Universe** for project-level counts is 10.

These counts are grouped by **ProjectID** and limited to **ProjectID**s included in Project.csv.

### Cohort

**Cohort** = 1 for these counts – they are limited to household enrollments active in the report period.

In this case, the cohort only indicates only that the household was active during the report period. The counts do not include any **HouseholdID** in tlsa\_HHID or tlsa\_Enrollment and none of the criteria associated with identifying active households and enrollments in other sections apply – e.g., the count of records where *RelationshipToHoH* = 1 is irrelevant.

### Household Type, Population, and SystemPath

**HHType** and **Population** for these counts is always 0.

**SystemPath** is always -1.

## LSACalculated

LSACalculated has nine columns. With the exception of **ProjectID,** the datatype for all columns is integer and none may be NULL.

**Value** for every record must be greater than zero; neither averages nor counts are generated when there are no records that meet criteria specific to the household type, population, cohort, etc.

The data type for the **ProjectID** column is an alphanumeric string of no more than 32 characters.

* If **Universe** <> 10, **ProjectID** must be NULL.
* If **Universe** = 10, **ProjectID** may not be NULL.
  + Unless otherwise noted (**ReportRow**s 60-62), **ProjectID**s in LSACalculated must match a **ProjectID** in Project.csv.

| # | Column Name |
| --- | --- |
| 1 | **Value** |
| 2 | **Cohort** |
| 3 | **Universe** |
| 4 | **HHType** |
| 5 | **Population** |
| 6 | **SystemPath** |
| 7 | **ProjectID** |
| 8 | **ReportRow** |
| 9 | **ReportID** |

# HMIS Business Logic: LSAReport Data Quality and ReportDate

**Note:** Data quality is assessed systemwide at a much broader level than actual LSA reporting. For example, the data quality columns look at race, ethnicity, etc. for children who are not heads of household. This is done to get a sense of systemwide data quality.

## Get HMIS Enrollments Active in the Three-Year Data Quality Report Period

dq\_Enrollment

hmis\_Exit

hmis\_EnrollmentCoC

hmis\_Enrollment

hmis\_Services

hmis\_Project

tlsa\_CohortDates

### Relevant Data

#### Source

|  |
| --- |
| **tlsa\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| *BedNightDate* (*DateProvided* where *RecordType* = 200) |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

|  |  |
| --- | --- |
| **dq\_Enrollment** |  |
| **EnrollmentID** | From hmis\_Enrollment |
| **PersonalID** | From hmis\_Enrollment |
| **HouseholdID** | From hmis\_Enrollment |
| **RelationshipToHoH** | From hmis\_Enrollment |
| **ProjectType** | From lsa\_Project |
| **EntryDate** | From hmis\_Enrollment |
| **MoveInDate** | From hmis\_Enrollment for RRH/PSH where *RelationshipToHoH* = 1 and *MoveInDate* <= ReportEnd |
| **ExitDate** | From hmis\_Exit where *ExitDate* <= ReportEnd |
| **Status1** | For enrollments active in the report period, based on DOB in relation to the later of *EntryDate* or ReportStart: 0 (child), 1 (adult), 99 (unknown). (A NULL value indicates that the enrollment was not active in the report period.) |
| **Status3** | For all selected enrollments, based on DOB in relation to the later of *EntryDate* or ReportStart-2 years: 0 (child), 1 (adult), 99 (unknown). (All values will be non-NULL because all enrollments in dq\_Enrollment were active in the three year DQ period.) |
| **SSNValid** | 0 (no, does not meet checked criteria), 1 (meets checked criteria). |

### Logic

#### Record Selection

Enrollments included in LSAReport data quality reporting are those in hmis\_Enrollment where :

* There is a record for the **ProjectID** in lsa\_Project; and
* **ProjectType** in (1,2,3,8,13)
* tlsa\_CohortDates.**Cohort** = 20
* *EntryDate* <= **CohortEnd**
* *ExitDate* is NULL or *ExitDate* >= **CohortStart**
* hmis\_EnrollmentCoC.*CoCCode* = ReportCoC[[2]](#footnote-3) for any EnrollmentCoC record where *InformationDate* <= **CohortEnd**

#### Status1

For enrollments where *ExitDate* < **CohortStart** for **Cohort** 1, **Status1** is NULL.

For other enrollments, an individual’s status as adult, child, or unknown is based on *DOBDataQuality* and *DOB* in relation to the later of *EntryDate* or **CohortStart** (**AgeDate**) where **Cohort** = 1.

| Priority | Condition | Status1 |
| --- | --- | --- |
| 1 | *DOBDataQuality* in (8,9) | 99 |
| 2 | *DOBDataQuality* not in (1,2) | 99 |
| 3 | *DOB* is missing or set to a system default | 99 |
| 4 | *DOB* *> EntryDate* | 99 |
| 5 | *RelationshipToHoH* = 1 and *DOB* *= EntryDate* | 99 |
| 5 | [*DOB* *+* 105 years] *<=* **AgeDate** | 99 |
| 6 | [*DOB* *+* 18 years] *<=* **AgeDate** | 1 |
| 7 | (other) | 0 |

#### Status3

An individual’s status as adult, child, or unknown is based on *DOBDataQuality* and *DOB* in relation to the later of *EntryDate* or **CohortStart** (**AgeDate**) where **Cohort** = 20.

| Priority | Condition | Status3 |
| --- | --- | --- |
| 1 | *DOBDataQuality* in (8,9) | 99 |
| 2 | *DOBDataQuality* not in (1,2) | 99 |
| 3 | *DOB* is missing or set to a system default | 99 |
| 4 | *DOB* *> EntryDate* | 99 |
| 5 | *RelationshipToHoH* = 1 and *DOB* *= EntryDate* | 99 |
| 5 | [*DOB* *+* 105 years] *<=* **AgeDate** | 99 |
| 6 | [*DOB* *+* 18 years] *<=* **AgeDate** | 1 |
| 7 | (other) | 0 |

#### SSNValid

**SSNValid** is null for any client record where SSNDataQuality in (8,9).

**SSNValid** = 0 for any *SSN* where:

* Length(*SSN*) <> 9; or
* *SSN* is NULL or set to system default; or
* *SSN* begins with ‘000’, ‘666’, or ‘9’; or
* *SSN* middle 2 digits are ‘00’ (e.g. 999-00-9999); or
* *SSN* last 4 digits are ‘0000’; or
* *SSN* contains any character other than 0-9; or
* *SSN* in (‘123456789’, '111111111', '222222222', '333333333', '444444444', '555555555', '777777777', '888888888')

Otherwise, **SSNValid** = 1. (These checks will not catch every invalid SSN, but those that meet the criteria will be assumed to be valid.)

## Set LSAReport Data Quality Values

For columns that are reported for both the active cohort and the three-year data quality cohort (e.g., **UnduplicatedClient1** and **UnduplicatedClient3**), cohort dates are as set in tlsa\_CohortDates:

|  |  |  |  |
| --- | --- | --- | --- |
| Cohort | Type | CohortStart | CohortEnd |
| 1 | Active | ReportStart | ReportEnd |
| 20 | Data quality | ([ReportEnd – 3 years] + 1 day) | ReportEnd |

### NoCoC

LSACalculated **ReportRow** 62 (see [section 8.21](#_Data_Quality_–)) includes project-level counts of households served in projects operating in ReportCoC during the report period with no EnrollmentCoC. **NoCoC** is a systemwide count of distinct *HouseholdIDs* in hmis\_Enrollment with the same data quality issue for the three-year DQ cohort period.

|  |  |
| --- | --- |
| **lsa\_Report** | **Notes** |
| ReportCoC | Query parameter |
| **tlsa\_CohortDates** | **Notes** |
| Cohort | 20 |
| CohortStart | Query parameter |
| CohortEnd | Query parameter |
| **hmis\_Enrollment** | **Condition** |
| RelationshipToHoH | 1 |
| EntryDate | <= **CohortEnd** where **Cohort** = 20 |
| **hmis\_Exit** | **Condition** |
| ExitDate | >= **CohortStart** where **Cohort** = 20 or NULL |
| **hmis\_Project** | **Condition** |
| ProjectType | in (1,2,3,8,13) |
| ContinuumProject | = 1 |
| **hmis\_ProjectCoC** | **Condition** |
| CoCCode | = ReportCoC |
| **hmis\_EnrollmentCoC** | **Condition** |
|  | No EnrollmentCoC records exists for the *HouseholdID* where:   * *InformationDate* <= **CohortEnd** and * *CoCCode* is not NULL |

### NotOneHoH1/3

A count of distinct *HouseholdIDs* in hmis\_Enrollment excluded from LSA reporting because there was no head of household or more than one head of household.

|  |  |
| --- | --- |
| **lsa\_Report** | **Condition** |
| ReportCoC | Query parameter |
| **tlsa\_CohortDates** | **Condition** |
| Cohort | 1 (NotOneHoH1) and 20 (NotOneHoH3) |
| CohortStart | Query parameter |
| CohortEnd | Query parameter |
| **hmis\_Enrollment** | **Condition** |
| RelationshipToHoH | 1 |
| COUNT (distinct *EnrollmentID)* | <>1 |
| EntryDate | <= **CohortEnd** |
| **hmis\_Exit** | **Condition** |
| ExitDate | >= **CohortStart** or NULL |
| **hmis\_Project** | **Condition** |
| ProjectType | in (1,2,3,8,13) |
| ContinuumProject | 1 |
| **hmis\_ProjectCoC** | **Condition** |
| CoCCode | ReportCoC |

### SSNNotProvided

A count of distinct **PersonalID**s in dq\_Enrollment where the client either did not know or refused to provide a Social Security number:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| PersonalID | Query parameter |
| SSNValid | Is NULL |

### SSNMissingOrInvalid

A count of distinct **PersonalID**s in dq\_Enrollment where the SSN is not consistent with Social Security Administration guidelines for a valid SSN and the **PersonalID** was not counted in **SSNNotProvided**.

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| PersonalID | Query parameter |
| SSNValid | 0 |

### ClientSSNNotUnique

A count of distinct **PersonalID**s in dq\_Enrollment that have the same (apparently valid) hmis\_Client.*SSN* as one or more other **PersonalID**s that appear in dq\_Enrollment:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| PersonalID | Query parameter |
| SSNValid | 1 |
| hmis\_Client | **Condition** |
| *SSN* | = hmis\_Client.*SSN* where *PersonalID* <> dq\_Enrollment.**PersonalID** |

### DistinctSSNValueNotUnique

A count of distinct (apparently valid) *SSN*values in hmis\_Client which are shared by more than one dq\_Enrollment.**PersonalID**:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| PersonalID | Query parameter |
| SSNValid | 1 |
| **hmis\_Client** | **Condition** |
| PersonalID | in dq\_Enrollment.**PersonalID** |
| Count (distinct PersonalID) | >1 |
| *SSN* | = hmis\_Client.*SSN* where *PersonalID* <> dq\_Enrollment.**PersonalID** |

### UnduplicatedClient1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | Is not NULL |

### UnduplicatedAdult1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | = 1 |

### AdultHoHEntry1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition** | **or Condition 2** |
| Status1/Status3 | = 1 | Is not NULL |
| RelationshipToHoH | -- | 1 |

### ClientEntry1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | Is not NULL |

### ClientExit1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| ExitDate | Between **CohortStart** and **CohortEnd** |

### Household1/3

For the active and data quality cohorts, a count of distinct **HouseholdID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | Is not NULL |

### HoHPermToPH1/3

A count of distinct active **EnrollmentID**s where heads of household served in RRH or PSH projects exited to a permanent housing destination:

|  |  |
| --- | --- |
| **tlsa\_CohortDates** | **Condition** |
| Cohort | 1 (**HoHPermToPH1**) and 20 (**HoHPermToPH3**) |
| CohortStart | Query parameter |
| CohortEnd | Query parameter |
| **dq\_Enrollment** | **Condition** |
| ExitDate | Between **CohortStart** and **CohortEnd** |
| RelationshipToHoH | 1 |
| ProjectType | in (3,13) |
| **hmis\_Exit** | **Condition** |
| Destination | Permanent - in (3,31,19,20,21,26,28,10,11,22,23,33,34) |

### DOB1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | 99 |

### Gender1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition** | |
| Status1/Status3 | (is not NULL) | |
| **hmis\_Client** | **Condition** |
| Gender | Not between 0 and 4 |

### Race1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition** | |
| Status1/Status3 | (is not NULL) | |
| **hmis\_Client** | **Condition** |
| Race | The sum of *AmIndAKNative*, *Asian*, *BlackAfAmerican*, *NativeHIOtherPacific*, and *White* = 0 |
|  | OR |
|  | *RaceNone* in (8,9,99) |

### Ethnicity1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | (is not NULL) |
| **hmis\_Client** | **Condition** |
| Ethnicity | not in (0,1) |

### VetStatus1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition** | |
| Status1/Status3 | 1 | |
| **hmis\_Client** | **Condition** |
| VeteranStatus | Not in (0,1) or is NULL |

### RelationshipToHoH1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | Is not null |
| **hmis\_Enrollment** | **Condition** |
| RelationshipToHoH | Not between 1 and 5 |

### DisablingCond1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| Status1/Status3 | Is not null |
| **hmis\_Enrollment** | **Condition** |
| DisablingCondition | not in (0,1) |

### LivingSituation1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |
| --- | --- |
| **hmis\_Enrollment** | **Condition** |
| LivingSituation | in (8,9,99) or is NULL |

### LengthOfStay1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |
| --- | --- |
| **hmis\_Enrollment** | **Condition** |
| LengthOfStay | in (8,9,99) or is NULL |

### HomelessDate1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **hmis\_Enrollment** | **Condition 1** | **or Condition 2** | **or Condition 3** | **or Condition 4** | **or Condition 5** |
| DateToESSHStreet | > EntryDate | NULL | NULL | NULL | NULL |
| LivingSituation | -- | in (1,16,18,27) | -- | in (4,5,6,7,15,25) | -- |
| LengthOfStay | -- | -- | in (10,11) | in (2,3) | -- |
| PreviousStreetESSH | -- | -- | 1 or is NULL | 1 or is NULL | -- |
| ProjectType | -- | -- | -- | -- | In (1,8) |

### TimesHomeless1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **hmis\_Enrollment** | **Condition 1** | **or Condition 2** | **or Condition 3** | **or Condition 4** |
| TimesHomeless | Not in (1,2,3,4) | Not in (1,2,3,4) | Not in (1,2,3,4) | Not in (1,2,3,4) |
| LivingSituation | in (1,16,18,27) | -- | in (4,5,6,7,15,25) | -- |
| LengthOfStay | -- | in (10,11) | in (2,3) | -- |
| PreviousStreetESSH | -- | 1 | 1 | -- |
| ProjectType | -- | -- | -- | In (1,8) |

### MonthsHomeless1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **hmis\_Enrollment** | **Condition 1** | **or Condition 2** | **or Condition 3** | **or Condition 4** |
| MonthsHomeless | Not between 101 and 113 | Not between 101 and 113 | Not between 101 and 113 | Not between 101 and 113 |
| LivingSituation | in (1,16,18,27) | -- | in (4,5,6,7,15,25) | -- |
| LengthOfStay | -- | in (10,11) | in (2,3) | -- |
| PreviousStreetESSH | -- | 1 | 1 | -- |
| ProjectType | -- | -- | -- | In (1,8) |

### DV1/3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |  |
| --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** |
| Status1/Status3 | 1 | Not NULL | |
| RelationshipToHoH | -- | 1 |

And:

|  |  |  |  |
| --- | --- | --- | --- |
| **hmis\_HealthAndDV** | **Condition 1** | **or Condition 2** | **or Condition 3** |
| DataCollectionStage | 1 | 1 | (no record = 1) |
| DomesticViolenceVictim | Not in (0,1) or is NULL | 1 |  |
| CurrentlyFleeing | (any) | Not in (0,1) or is NULL |  |

### Destination1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| **dq\_Enrollment** | **Condition** |
| ExitDate | **Destination1**: >=ReportStart  **Destination3**: is not NULL |
| **hmis\_Exit** | **Condition** |
| Destination | in (8,9,17,30,99) or is NULL |

### MoveInDate1/3

A count of distinct **EnrollmentID**s for RRH/PSH projects in dq\_Enrollment where **MoveInDate** < **EntryDate** or **MoveInDate** > **ExitDate** or the head of household exited to a permanent housing destination and **MoveInDate** is NULL.

|  |  |  |  |
| --- | --- | --- | --- |
| **dq\_Enrollment** | **Condition 1** | **or Condition 2** | **or Condition 3** |
| ExitDate | Between **CohortStart** and **CohortEnd** | Between **CohortStart** and **CohortEnd** | -- |
| RelationshipToHoH | 1 | 1 | 1 |
| ProjectType | in (3,13) | in (3,13) | in (3,13) |
| MoveInDate | is NULL | **>** **ExitDate** | **<** **EntryDate** |
| **hmis\_Exit** | **Condition** | **--** | **--** |
| Destination | Permanent - in (3,31,19,20,21,26,28,10,11,22,23,33,34) | -- | -- |

## Set LSAReport ReportDate

Set LSAReport.**ReportDate** = the system date/time when all other data required to produce the LSA CSV files has been generated.

## LSAReport

LSAReport has 61 columns; none may be NULL. Data types are shown below.

| # | Column Name | Data Type |
| --- | --- | --- |
| 1 | **ReportID** | Integer |
| 2 | **ReportDate** | Date/time |
| 3 | **ReportStart** | Date |
| 4 | **ReportEnd** | Date |
| 5 | **ReportCoC** | 6 character string (XX-999) |
| 6 | **SoftwareVendor** | String; up to 50 characters or ‘n/a’ |
| 7 | **SoftwareName** | String; up to 50 characters or ‘n/a’ |
| 8 | **VendorContact** | String; up to 50 characters or ‘n/a’ |
| 9 | **VendorEmail** | String; up to 50 characters or ‘n/a’ |
| 10 | **LSAScope** | Integer |
| 11 | **UnduplicatedClient1** | Integer |
| 12 | **UnduplicatedClient3** | Integer |
| 13 | **UnduplicatedAdult1** | Integer |
| 14 | **UnduplicatedAdult3** | Integer |
| 15 | **AdultHoHEntry1** | Integer |
| 16 | **AdultHoHEntry3** | Integer |
| 17 | **ClientEntry1** | Integer |
| 18 | **ClientEntry3** | Integer |
| 19 | **ClientExit1** | Integer |
| 20 | **ClientExit3** | Integer |
| 21 | **Household1** | Integer |
| 22 | **Household3** | Integer |
| 23 | **HoHPermToPH1** | Integer |
| 24 | **HoHPermToPH3** | Integer |
| 25 | **NoCoC** | Integer |
| 26 | **SSNNotProvided** | Integer |
| 27 | **SSNMissingOrInvalid** | Integer |
| 28 | **ClientSSNNotUnique** | Integer |
| 29 | **DistinctSSNValueNotUnique** | Integer |
| 30 | **DOB1** | Integer |
| 31 | **DOB3** | Integer |
| 32 | **Gender1** | Integer |
| 33 | **Gender3** | Integer |
| 34 | **Race1** | Integer |
| 35 | **Race3** | Integer |
| 36 | **Ethnicity1** | Integer |
| 37 | **Ethnicity3** | Integer |
| 38 | **VetStatus1** | Integer |
| 39 | **VetStatus3** | Integer |
| 40 | **RelationshipToHoH1** | Integer |
| 41 | **RelationshipToHoH3** | Integer |
| 42 | **DisablingCond1** | Integer |
| 43 | **DisablingCond3** | Integer |
| 44 | **LivingSituation1** | Integer |
| 45 | **LivingSituation3** | Integer |
| 46 | **LengthOfStay1** | Integer |
| 47 | **LengthOfStay3** | Integer |
| 48 | **HomelessDate1** | Integer |
| 49 | **HomelessDate3** | Integer |
| 50 | **TimesHomeless1** | Integer |
| 51 | **TimesHomeless3** | Integer |
| 52 | **MonthsHomeless1** | Integer |
| 53 | **MonthsHomeless3** | Integer |
| 54 | **DV1** | Integer |
| 55 | **DV3** | Integer |
| 56 | **Destination1** | Integer |
| 57 | **Destination3** | Integer |
| 58 | **NotOneHoH1** | Integer |
| 59 | **NotOneHoH3** | Integer |
| 60 | **MoveInDate1** | Integer |
| 61 | **MoveInDate3** | Integer |

1. ‘Interim housing’ (27) was a valid response category for *3.917A/B Living Situation* prior to 10/1/2019, the effective date of the FY2020 HMIS Data Standards. In case any records are still stored with this value, we are retaining this as a valid report category for the LSA, regardless of entry/exit dates. [↑](#footnote-ref-2)
2. The **NoCoC** column is an exception to this; it counts records in hmis\_Enrollment that do not have an associated EnrollmentCoC record with a non-NULL *CoCCode*. [↑](#footnote-ref-3)