# **SSVF Data Quality Summary Report Documentation**

# **FY 2021 (May 2021 revision)**

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# Part 1: How to Understand the Data Quality Summary Report

Below is a table of the data checks found in the Data Quality Summary Report. Below are the definitions of the categories used in the table:

* **Field:** This is the name of the data quality check.
* **Records:** Identifies which client records are included in the check.
* **Issues:** Identifies which client records would cases an issue to be flagged.
* **Issue Type**
	+ **Error:** Indicates that ***all*** of the issues found need to be fixed to meet SSVF requirements. For example, for a Veteran to be enrolled in SSVF, they must provide a valid Social Security Number (SSN) to the grantee. Therefore, all missing or invalid Veteran SSNs would be counted as errors.
	+ **Warning:** Indicates ***possible issues*** with submitted data.
		- Generally, SSVF expects a 95% score for each of these checks, such as Gender, Race/Ethnicity, and OEF/OIF/OND Veteran status. The expectation is not 100% as it is understandable the some clients will not know or refuse to answer some of these questions.
		- There are other warnings that indicate possible issues as a flag to grantees. For example, the “Over Two Years Enrollment” check lets grantees know how many clients have been enrolled for 2 or more years. This may be accurate or a data entry issue (with the entry or exit date). Accurate data should not be updated.
* **CSV File Location:** Indicates the CSV file(s) associated with the check.

| **#** | **Field** | **Records** | **Issues** | **Issue Type** | **CSV File Location** |
| --- | --- | --- | --- | --- | --- |
| 1 | Social Security Number (SSN) | Count all client records | Count all missing/invalid SSNs | Warning | Client.csv |
| 2 | Veteran SSN | Count all veteran records | Count all missing/invalid SSNs | Error | Client.csv |
| 3 | Date of Birth | Count all client records | Count all missing/invalid DOBs | Warning | Client.csv |
| 4 | Gender | Count all client records | Count all missing/invalid Gender | Warning | Client.csv |
| 5 | Race | Count all client records | Count all missing/invalid AmIndAKNativeAsianBlackAfAmericanNativeHIOtherPacificWhiteRaceNone | Warning | Client.csv |
| 6 | Ethnicity | Count all client records | Count all missing/invalid Ethnicity | Warning | Client.csv |
| 7 | Client Location - CoC Code | Count all HOH at Entry | Count all missing/invalid CoCCodeAdd difference between HOH count and HHID count | Error | EnrollmentCoC.csv |
| 8 | Income as Percent of AMI | Count all HOH at Entry | Count all missing/invalid PercentAMIAdd difference between HOH count and HHID count | Warning | Enrollment.csv |
| 9 | HP Targeting Criteria | Count all HP HOH at Entry | Count all missing/invalid HPScreeningScore | Warning | Enrollment.csv |
| 10 | DV Status Missing | Count all HoH and adults at Entry | Count all missing/invalid DomesticViolenceVictim | Warning | HealthandDV.csv |
| 11 | Veteran Status | Count all adult records | Count all missing/invalid VeteranStatus | Error | Client.csv |
| 12 | Last Grade Completed | Count all HOH and adults at Entry | Count all missing/invalid LastGradeCompleted | Warning | EmploymentEducation.csv |
| 13 | Employed | Count all HOH and adults at Entry | Count all missing/invalid Employed | Warning | EmploymentEducation.csv |
| 14 | Living Situation | Count all HOH and adults at Entry | Count all missing/invalid LivingSituation | Error | Enrollment.csv |
| 15 | Homeless HP | Count all HP HOH and adults at Entry | Count all “homeless” LivingSituation (1,16,18) | Warning | Enrollment.csv |
| 16 | Housed RRH | Count all RRH HOH and adults at Entry | Count all “not homeless” LivingSituation(23,21,3,22,19,25,20) | Warning | Enrollment.csv |
| 17 | Disabling Condition | Count all at Entry | Count all missing/invalid DisablingCondition | Warning | Enrollment.csv |
| 18 | Homeless Date Missing (for those from Streets/ES/SH) | Count all RRH HOH and adults at Entry | Count all missing/invalid DateToStreetESSH | Warning | Enrollment.csv |
| 19 | Months Homeless Missing (for those from ES/Streets) | Count all RRH HOH and adults at Entry | Count all missing/invalid MonthsHomelessPastThreeYears | Warning | Enrollment.csv |
| 20 | Times Homeless Missing (for those from ES/Streets) | Count all RRH HOH and adults at Entry | Count all missing/invalid TimesHomelessPastThreeYears | Warning | Enrollment.csv |
| 21 | SOAR Entry | Count all HOH and adults at Entry | Count all missing/invalid ConnectionWithSOAR (DataCollectionStage=1) | Warning | IncomeBenefits.csv |
| 22 | Missing Income at Entry | Count all HOH and adults at Entry | Count all missing/invalid IncomefromAnySource (DataCollectionStage=1) | Error | IncomeBenefits.csv |
| 23 | Missing Income Amount at Entry | Count all HOH and adults at Entry | Count all missing/invalid TotalMonthlyIncome (DataCollectionStage=1) | Error | IncomeBenefits.csv |
| 24 | Incorrect Income Amount at Entry | Count all HOH and adults at Entry | Count all TotalMonthly Income compared to sum of income source amounts that aren’t equal (DataCollectionStage=1) | Error | IncomeBenefits.csv |
| 25 | Missing Benefits at Entry | Count all HOH and adults at Entry | Count all missing/invalid BenefitsFromAnySource (DataCollectionStage=1) | Warning | IncomeBenefits.csv |
| 26 | Missing Health Insurance at Entry | Count all clients at Entry | Count all missing/invalid InsuranceFromAnySource (DataCollectionStage=1) | Warning | IncomeBenefits.csv |
| 27 | Very High Income at Entry | Count all HOH and adults at Entry | Count all TotalMonthlyIncome greater than $5000 (DataCollectionStage=1) | Warning | IncomeBenefits.csv |
| 28 | Missing Destination | Count all clients at Exit | Count all missing/invalid Destination | Warning | Exit.csv |
| 29 | Missing Move In Date (RRH Only) | Count all RRH HOH at PH Exit | Count total number of HH exits to PH with no valid Housing Move-In | Error | Exit.csv + Enrollment.csv |
| 30 | SOAR Exit | Count all HOH and adults at Exit | Count all missing/invalid ConnectionWithSOAR (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 31 | Missing Income at Exit | Count all HOH and adults at Exit | Count all missing/invalid IncomefromAnySource (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 32 | Missing Income Amount at Exit | Count all HOH and adults at Exit | Count all missing/invalid TotalMonthlyIncome (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 33 | Incorrect Income Amount at Exit | Count all HOH and adults at Exit | Count all TotalMonthly Income compared to sum of income source amounts that aren’t equal (DataCollectionStage=3) | Error | IncomeBenefits.csv |
| 34 | Missing Benefits at Exit | Count all HOH and adults at Exit | Count all missing/invalid BenefitsFromAnySource (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 35 | Missing Health Insurance at Exit | Count all clients at Exit | Count all missing/invalid InsuranceFromAnySource (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 36 | Very High Income at Exit | Count all HOH and adults at Exit | Count all TotalMonthlyIncome greater than $5000 (DataCollectionStage=3) | Warning | IncomeBenefits.csv |
| 37 | Veteran with missing Operation Enduring Freedom | Count all veterans | Count all missing/invalid AfghanistanOEF | Error | Client.csv |
| 38 | Veteran with missing Operation Iraqi Freedom | Count all veterans | Count all missing/invalid IraqOIF | Error | Client.csv |
| 39 | Veteran with missing Operation New Dawn | Count all veterans | Count all missing/invalid IraqOND | Error | Client.csv |
| 40 | Veteran with missing Military Branch | Count all veterans | Count all missing/invalid MilitaryBranch | Error | Client.csv |
| 41 | Veteran with missing Discharge Status | Count all veterans | Count all missing/invalid DischargeStatus | Error | Client.csv |
| 42 | No Veteran in Household | Count all Households | Count of HHID where no member of the HH is Veteran | Warning | Client.csv + Enrollment.csv |
| 43 | No Head of Household | Count all Households | Count of HHID where no member of the HH is HOH (RelationshiptoHOH = 1) | Error | Enrollment.csv |
| 44 | Multiple Heads of Household | Count all Households | Count of HHID where more than one member of the HH is HOH (RelationshiptoHOH = 1) | Error | Enrollment.csv |
| 45 | Veteran Under 18 | Count all veterans | Count where (EntryDate minus DOB) < 6570 days | Error | Client.csv |
| 46 | Duplicate Enrollment Detected | Count all client records | Count of clients simultaneously enrolled in two or more SSVF project types. | Error | Enrollment.csv |
| 47 | Over One Year Enrollment | Count all client records | Count of clients enrolled 1 or more years | Warning | Enrollment.csv +Exit.csv |
| 48 | Over Two Years Enrollment | Count all client records | Count of clients enrolled 2 or more years | Warning | Enrollment.csv +Exit.csv |
| 49 | Over One Year Between Project Start and Housing Move-In | Count all RRH HOH and adults at Entry | Count of RRH HOH and adults where MoveInDate minus EntryDate > 366 days | Warning | Enrollment.csv |
| 50 | Housing Move-In After Project Exit | Count all RRH HOH and adults at Entry | Count of RRH HOH and adults where MoveInDate falls after ExitDate | Error | Enrollment.csv + Exit.csv |
| 51 | Housing Move-In Before Project Start | Count all RRH HOH and adults at Entry | Count of RRH HOH and adults where EntryDate falls after EntryDate | Error | Enrollment.csv |
| 52 | Project Exit Before Project Start | Count all client records | Count of RRH HOH and adults where EntryDate falls after ExitDate | Error | Enrollment.csv + Exit.csv |
| 53 | Same Personal ID Different DOB | Count all client records | Count of PersonalID with two or more different Dates of Birth | Error | Client.csv |
| 54 | Older Than 99 | Count all client records | Count where age at Entry was greater than 99 years old | Warning | Client.csv + Enrollment.csv |
| 55 | Client in household is listed as a child of the head of household AND is over 50 years old | Count all client records | Count where Head of Household’s Child’s age at Entry was greater than 50 years old | Warning | Client.csv + Enrollment.csv |
| 56 | CoC Code Not Correct | Count all client records | CoCCode in file is compared to the correct format for CoC Codes (two letter state dash three number code) assigned by HUD [here](https://www.hudexchange.info/resource/5967/fy-2020-coc-geographic-codes/) | Error | EnrollmentCoC.csv |

# Part 2: SQL Code for Data Quality Summary Report

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[GetDQSummary] Script Date: 04/24/2018 09:23:37 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROC [dbo].[GetDQSummary]

(

 @fileID varchar(15)

)

AS

BEGIN

if object\_id('#dq') is not null drop table #dq

DECLARE @DQSummary TABLE

 (

 Field varchar(255)

 , Checked varchar(255)

 , Records int

 , Issues int

 , Score VARCHAR(255)

 )

 declare @gstart datetime, @gend datetime

 **--set date parameters for report - dynamic based on current fiscal year**

 select @gstart = cast('10/1/' + case

 when datepart(mm, getdate()) in (11, 12) then cast(datepart(yyyy, getdate()) as varchar)

 else cast(datepart(yyyy, getdate())-1 as varchar) end as date)

 **--last day in previous month**

 select @gend = dateadd(day, -1, (dateadd(month, datediff(month, 0, getdate()), 0)))

 select distinct

 Net = (select count(distinct n.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

 **--Total number of heads of household -- these are HoH entries and not individuals.**

 , HHHeads = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1)

 **--Total HP HoH to check screening criteria -- these are HoH entries and not individuals**

 , HPHoH = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 12

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id and n.RelationshipToHoH = 1)

 **--Total number of persons who were 18 or older (i.e., adults) as of a project entry date.**

 , Adults = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id and dateadd(yy, 18, c.dob) <= n.EntryDate)

 , AllEntries = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

 **--Total number of project entries for adults.**

 , AdultEntries = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1))

 **--Total number of project exits**

 , AllExits = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id)

 **--Total number of project entries for HoH + adults served in HP.**

 , HPAdults = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 12

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1))

 **--Total number of project entries for HoH + adults served in RRH.**

 , RRHAdults = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 13

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1))

 **--Total number of project exits for adults.**

 , AdultExits = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1))

 **--Total number of veterans served in the report range.**

 , Veterans = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and c.VeteranStatus = 1)

 **--Total number of household entries in the report range.**

 , HHEntries = (select count(distinct n.HouseholdID)

 from td\_Enrollment n

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

 **--RRH exits to permanent housing - used to check for missing MoveInDates**

 , RRHHoHExitToPH = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 13

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1 and x.Destination in (3,31,26,28,19,20,21,10,11,22,23))

 **--****Counts all clients with missing / invalid SSNs.**

 **--Parameters for invalid SSNs are based on Social Security Administration conventions and CSV specs.**

 , SSN = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and (SUBSTRING(c.SSN,1,3) in ('000','666')

 or SUBSTRING(c.SSN,4,2) = '00'

 or SUBSTRING(c.SSN,6,4) ='0000'

 or SUBSTRING(c.SSN,10,1) = 'P'

 or LEN(c.SSN) < 6

 or c.SSN is null

 or c.SSN = ''

 or c.SSN Like '%[A-Z]%'

 or c.SSN Like '%[-=\*]%'

 or left(c.SSN,3) >= '900'

 or c.SSN in ('123456789','111111111','222222222','333333333','444444444'

 ,'555555555','666666666','777777777','888888888','999999999')))

 **--****Counts all Vets with missing / invalid SSNs.**

 **--Parameters for invalid SSNs are based on Social Security Administration conventions and CSV specs.**

 , VetSSN = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and (SUBSTRING(c.SSN,1,3) in ('000','666')

 or SUBSTRING(c.SSN,4,2) = '00'

 or SUBSTRING(c.SSN,6,4) ='0000'

 or SUBSTRING(c.SSN,10,1) = 'P'

 or LEN(c.SSN) < 6

 or c.SSN is null

 or c.SSN = ''

 or c.SSN Like '%[A-Z]%'

 or c.SSN Like '%[-=\*]%'

 or left(c.SSN,3) >= '900'

 or c.SSN in ('123456789','111111111','222222222','333333333','444444444'

 ,'555555555','666666666','777777777','888888888','999999999')))

 **--****Counts all clients with missing / invalid DOBs, including those in the future or too far in the past to be valid.**

 , DOB = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and (c.DOB <='10/10/1910' or c.DOB is null or c.DOB > n.EntryDate

 or c.DOBDataQuality not in (1,2)))

 **--****Counts all clients with missing / invalid Gender.**

 , Gender = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and (c.Gender not in (0,1,2,3,4) or c.Gender is null))

 **--****Counts all clients without at least one of the five races identified.**

 , Race = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and coalesce(c.AmIndAKNative,0) + coalesce(c.Asian,0) + coalesce(c.BlackAfAmerican,0) + coalesce(c.NativeHIOtherPacific,0)

 + coalesce(c.White,0) = 0)

 **--****Counts all clients with missing / invalid Ethnicity.**

 , Ethnicity = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (c.Ethnicity not in (0,1) or c.Ethnicity is null))

 **-****-Counts all enrollments for heads of household entries where there is no CoC Code at project entry. IF each household has an identified**

 **--head of household, this will be the total number of errors.**

 **--If there are HouseholdIDs without an identified head of household, that number will be added to this number to get the total**

 **--number of missing values.**

 , NoCoC = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_EnrollmentCoC ec on ec.EnrollmentID = n.EnrollmentID and ec.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1 and ec.CoCCode is null)

 **--****Counts all enrollments for heads of household where there is no PercentAMI at project entry or it exceeds the max limit.**

 **--IF each household has an identified**

 **--head of household, this will be the total number of errors.**

 **--If there are HouseholdIDs without an identified head of household, that number will be added to this number to get the total**

 **--number of missing values.**

 , PercentAMI = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_EnrollmentCoC ec on ec.EnrollmentID = n.EnrollmentID and ec.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1 and (n.PercentAMI not in (1,2) or n.percentAMI is null))

 , HPTargeting = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 12

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1 and n.HPScreeningScore is null)

 **,** **--Counts all enrollments for HOH and adults where there is no DV Status at project entry**

 **--10. DV Status Missing**

 , DVStatus = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_HealthandDV h on h.EnrollmentID = n.EnrollmentID

 and h.DataCollectionStage = 1 and h.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id and n.file\_id = h.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshiptoHoH = 1)

 and (h.DomesticViolenceVictim in (8,9,99) or h.DomesticViolenceVictim is null))

 **--****Counts the total number of adults with missing / invalid VeteranStatus.**

 **--This may undercount the total number of missing values because it excludes clients without a DOB.**

 , VetStatus = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and dateadd(yy, 18, c.dob) <= n.EntryDate

 and (c.VeteranStatus not in (0,1) or c.VeteranStatus is null))

 , LastGrade = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_EmploymentEducation ee on ee.EnrollmentID = n.EnrollmentID

 and ee.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id and n.file\_id = ee.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ee.LastGradeCompleted in (8,9,99) or ee.LastGradeCompleted is null))

**--13. Missing Employment**

, Employed = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_EmploymentEducation ee on ee.EnrollmentID = n.EnrollmentID

 and ee.DataCollectionStage = 1 and ee.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id and n.file\_id = ee.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ee.Employed in (8,9,99) or ee.Employed is null))

 **--****Counts the total number of enrollments for adults with missing / invalid LivingSituation.**

 , LivingSituation = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (n.LivingSituation in (8,9,99) or n.LivingSituation is null))

 **--Counts enrollments for adults in an HP project with a residence prior to project entry that is unequivocally homeless.**

 **--Not included in error count / score at this time, but critical that grantees review.**

 , HomelessHP = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 12

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and n.LivingSituation in (1,16,18))

 **--****Counts enrollments for adults in an RRH project with a residence prior to project entry that is unequivocally NOT homeless.**

 **--Not included in error count / score at this time, but critical that grantees review.**

 , HousedRRH = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 13

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and n.LivingSituation in (23,21,3,22,19,25,20))

 **--Counts the total number of enrollments for adults with missing / invalid values for listed fields**

 , DisablingCond = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (n.DisablingCondition not in (0,1) or n.DisablingCondition is null))

 **--****For people coming from Street/ES/SH (including prior to short institutional stay) -- checks for**

 **--missing Approximate Date Started / DateToStreetESSH**

 , HomelessDate = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 13

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and ((n.LivingSituation in (1,16,18))

 or (LivingSituation in (4,5,6,7,15,24) and LengthOfStay in (10,11,2,3) and PreviousStreetESSH = 1))

 and (n.DateToStreetESSH is null or n.DateToStreetESSH > n.EntryDate or n.DateToStreetESSH <= '1910-01-01'))

 , MonthsHomeless = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

  **--Only checked for RRH because data standards have no valid answer for HP w/no hx of homelessness**

 and p.ProjectType = 13

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (n.MonthsHomelessPastThreeYears in (8,9,99) or n.MonthsHomelessPastThreeYears is null) )

 , TimesHomeless = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 **--Only checked for RRH because data standards have no valid answer for HP w/no hx of homelessness**

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (n.TimesHomelessPastThreeYears in (8,9,99) or n.TimesHomelessPastThreeYears is null)

 and p.ProjectType = 13)

 , SOAREntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ie.ConnectionWithSOAR not in (0,1) or ie.ConnectionWithSOAR is null))

 **--****Counts the total number of enrollments for adults with missing / invalid values for Income from Any Source at project entry.**

 , AnyIncomeEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ie.IncomeFromAnySource in (8,9,99) or ie.IncomeFromAnySource is null))

 **--****Counts the total number of enrollments for adults where Income from Any Source at project entry is 'Yes', but**

 **--Total Monthly Income is either $0 or is missing.**

 , MonthlyIncomeEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and ie.IncomeFromAnySource = 1

 and (ie.TotalMonthlyIncome is null or ie.TotalMonthlyIncome <= 0.0))

**--Total number of enrollments where the sum of income source amounts is not equal to the total monthly income amount at project entry.**

 , TotalVsSrcEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (coalesce(ie.AlimonyAmount, 0.0) + coalesce(ie.ChildSupportAmount, 0.0) + coalesce(ie.EarnedAmount, 0.0)

 + coalesce(ie.GAAmount, 0.0) + coalesce(ie.OtherIncomeAmount, 0.0) + coalesce(ie.PensionAmount, 0.0)

 + coalesce(ie.PrivateDisabilityAmount, 0.0) + coalesce(ie.SSDIAmount, 0.0) + coalesce(ie.SSIAmount, 0.0)

 + coalesce(ie.SocSecRetirementAmount, 0.0) + coalesce(ie.TANFAmount, 0.0) + coalesce(ie.UnemploymentAmount, 0.0)

 + coalesce(ie.VADisabilityNonServiceAmount, 0,0) + coalesce(ie.VADisabilityServiceAmount, 0.0)

 + coalesce(ie.WorkersCompAmount, 0.0)) <> coalesce(ie.totalmonthlyincome, 0.0))

 **--****Counts the total number of enrollments for adults with missing / invalid values for Benefits from Any Source at project entry.**

 , AnyBenefitsEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ie.BenefitsFromAnySource in (8,9,99) or ie.BenefitsFromAnySource is null))

 **--****Counts the total number of enrollments with missing / invalid values for Insurance from Any Source at project entry.**

 , AnyInsuranceEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (ie.InsuranceFromAnySource in (8,9,99) or ie.InsuranceFromAnySource is null))

 **--****Counts the total number of enrollments for adults where Total Monthly Income exceeds $5000.**

 , HighIncomeEntry = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_IncomeBenefits ie on ie.file\_id = n.file\_id and ie.EnrollmentID = n.EnrollmentID and ie.DataCollectionStage = 1

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and (ie.TotalMonthlyIncome > 5000.0))

 **--****Counts the total number of exits missing / invalid values for Destination.**

 , Destination = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (x.Destination in (8,9,30,99) or x.Destination is null))

 **--****Counts the total number of HoH exits to permanent housing with no valid MoveInDate.**

 , MoveInDate = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType = 13

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and n.RelationshipToHoH = 1

 and (x.Destination in (3,31,26,28,19,20,21,10,11,22,23))

 and (n.MoveInDate is null or n.MoveInDate < n.EntryDate or n.MoveInDate > x.ExitDate))

 **--Income and benefits at exit -- aside from the data collection stage, logic is the same as at entry.**

 , SOARExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and (ix.ConnectionWithSOAR not in (0,1) or ix.ConnectionWithSOAR is null))

 , AnyIncomeExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and (ix.IncomeFromAnySource not in (0,1) or ix.IncomeFromAnySource is null))

 , MonthlyIncomeExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and ix.IncomeFromAnySource = 1

 and (ix.TotalMonthlyIncome is null or ix.TotalMonthlyIncome = 0.0)

 and n.file\_id = f.file\_id)

 , TotalVsSrcExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and ix.IncomeFromAnySource = 1

 and (coalesce(ix.AlimonyAmount, 0.0) + coalesce(ix.ChildSupportAmount, 0.0)

 + coalesce(ix.EarnedAmount, 0.0) + coalesce(ix.GAAmount, 0.0)

 + coalesce(ix.OtherIncomeAmount, 0.0) + coalesce(ix.PensionAmount, 0.0)

 + coalesce(ix.PrivateDisabilityAmount, 0.0) + coalesce(ix.SSDIAmount, 0.0)

 + coalesce(ix.SSIAmount, 0.0) + coalesce(ix.SocSecRetirementAmount, 0.0)

 + coalesce(ix.TANFAmount, 0.0) + coalesce(ix.UnemploymentAmount, 0.0)

 + coalesce(ix.VADisabilityNonServiceAmount, 0,0) + coalesce(ix.VADisabilityServiceAmount, 0.0)

 + coalesce(ix.WorkersCompAmount, 0.0)) <> coalesce(ix.totalmonthlyincome, 0.0))

 , AnyBenefitsExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and (ix.BenefitsFromAnySource not in (0,1) or ix.IncomeFromAnySource is null))

 , AnyInsExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 left outer join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (ix.InsuranceFromAnySource not in (0,1) or ix.InsuranceFromAnySource is null))

 , HighIncomeExit = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_IncomeBenefits ix on ix.EnrollmentID = n.EnrollmentID and ix.DataCollectionStage = 3

 where x.ExitDate between @gstart and @gend

 and n.file\_id = f.file\_id

 and (dateadd(yy, 18, c.dob) <= x.ExitDate or n.RelationshipToHoH = 1)

 and (ix.TotalMonthlyIncome > 5000.0))

 **--Counts of veterans with specific missing veteran information. Other fields are important and may be added soon,**

 **--but these are the ones most frequently reported on.**

 , OEF = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and (c.AfghanistanOEF not in (0,1) or c.AfghanistanOEF is null))

 , OIF = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and (c.IraqOIF not in (0,1) or c.IraqOIF is null))

 , OND = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and (c.IraqOND not in (0,1) or c.IraqOND is null))

 , MilitaryBranch = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and (c.MilitaryBranch in (8,9,99) or c.MilitaryBranch is null) )

 , DischargeStatus = (select count(distinct c.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and c.file\_id = f.file\_id

 and c.VeteranStatus = 1

 and (c.DischargeStatus in (8,9,99) or c.DischargeStatus is null))

 **--****Count of distinct HouseholdIDs where no member of the household is identified as a veteran**

 , NoVetHH = (select count(dt.householdid) as error\_count

from

(

SELECT n.householdid

--, count(te.householdid) as count\_house

--, count(case tc.veteranstatus when 1 then 1 else null end) as count\_status

 FROM td\_client tc, td\_enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where tc.file\_id = n.file\_id and tc.PersonalID = n.PersonalID

 --and tc.file\_id = '5b0451c87e764' --'5b0447327d4b4'

 and coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 group by householdid

having count(case tc.veteranstatus when 1 then 1 else null end) = 0

 ) dt

 )

 /\*(select count(distinct n.HouseholdID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_enrollment vet on vet.HouseholdID = n.HouseholdID and vet.file\_id = n.file\_id

 left outer join td\_client cvet on cvet.PersonalID = vet.PersonalID and cvet.file\_id = vet.file\_id and cvet.VeteranStatus = 1

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and cvet.PersonalID is null)

 \*/

 **--Count of distinct HouseholdIDs where no member of the household has a relationship to HoH of 1 (Self)**

 , NoHOH = (select count(distinct n.HouseholdID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 left outer join td\_enrollment hoh on hoh.HouseholdID = n.HouseholdID and hoh.file\_id = n.file\_id and hoh.relationshiptoHoH = 1

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and hoh.householdID is null)

 **--Count of distinct HouseholdIDs where more than one member of the household has a relationship to HoH of 1**

 , MultiHOH = (select count(distinct n.HouseholdID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join (select hh.file\_id, hh.HouseholdID

 from td\_enrollment hh

 where hh.RelationshipToHoH = 1

 group by hh.file\_id, hh.HouseholdID

 having count(distinct hh.PersonalID) > 1) hoh on hoh.HouseholdID = n.HouseholdID and hoh.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--45.Veteran Under 18**

 , VetUnder18 = (select count(distinct n.EnrollmentID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id

 and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where coalesce(x.exitdate, @gend) >= @gstart and n.EntryDate <= @gend

 and n.file\_id = f.file\_id

 and (c.VeteranStatus = 1)

 and (dateadd(yy, 18, c.dob) > n.EntryDate))

**--46.Duplicate Enrollment Detected**

 , DuplicateEnrollmentDetected = (select count(distinct n.PersonalID)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join (select de.PersonalID, de.EnrollmentID, de.file\_id

 from td\_enrollment de

 group by de.PersonalID, de.EnrollmentID, de.file\_id

 having count(distinct de.PersonalID) > 1) pe on pe.PersonalID = n.PersonalID and pe.file\_id = n.file\_id

 where ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--47.Over one year of project enrollment**

 , OverOneYearEnrollment = (select count(distinct n.enrollmentid)

 from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 where (x.ExitDate is null) and

 (DATEDIFF(day,n.EntryDate, n.UploadDate) > '365') and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--48.Over two years of project enrollment'**

 , OverTwoYearsEnrollment = (select count(distinct n.enrollmentID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (x.ExitDate is null) and

 (DATEDIFF(day,n.EntryDate, n.UploadDate) > '720') and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--49.Over one year between Project Start and Housing Move in Date'**

 , OverOneYearBetweenProjectStartAndHousingMoveIn = (select count(distinct n.enrollmentID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (DATEDIFF(day,n.EntryDate, n.MoveInDate) > '365')

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--50.Housing Move In Date must be on or before Project Exit Date'**

 , HousingMoveInAfterProjectExit = (select count(distinct n.enrollmentID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (n.MoveInDate > x.ExitDate)

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1)

 and ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--51.Housing Move In Date must be on or after Project Start Date'**

 , HousingMoveInBeforeProjectStart = (select count(distinct n.enrollmentid)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (n.MoveInDate <> '1900-01-01') and

 (n.MoveInDate < n.EntryDate)

 and (dateadd(yy, 18, c.dob) <= n.EntryDate or n.RelationshipToHoH = 1) and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--52.Project Exit Date must be on or after Project Start Date' as QueryName,**

 , ProjectExitBeforeProjectStart = (select count(distinct n.enrollmentid)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (x.ExitDate < n.EntryDate) and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--53.Same PersonalID but different Date of Birth' as QueryName,**

 , SamePersonalIDDifferentDOB = (select count(distinct c.PersonalID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 inner join td\_enrollment n2 on n2.PersonalID = n.PersonalID and n2.file\_id = n.file\_id

 inner join td\_Client c2 on c2.PersonalID = n.PersonalID and c2.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (n.personalid = n2.personalid) and (c.dob <> c2.dob) and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--54.Person Older than 99 years'**

 , OlderThan99 = (select count(distinct c.PersonalID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (c.DOB <> '1900-01-01') and

 (DATEDIFF(YEAR, c.DOB, n.UploadDate) > '99') and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--55.Child Older than 50**

 , ChildOver50 = (select count(distinct c.PersonalID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

where (c.DOB <> '1900-01-01') and

 (DATEDIFF(YEAR, c.DOB, n.EntryDate) > '50') and

 (n.RelationshipToHoH = '2') and

 ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)

**--56.CoC Code not formatted correctly**

 , CoCCodeNotCorrect = (select count(distinct n.enrollmentID)

from td\_Enrollment n

 inner join td\_Project p on p.ProjectID = n.ProjectID and p.file\_id = n.file\_id and p.ProjectType in (12,13)

 inner join td\_Client c on c.PersonalID = n.PersonalID and c.file\_id = n.file\_id

 left outer join td\_Exit x on x.EnrollmentID = n.EnrollmentID and x.file\_id = n.file\_id

 inner join td\_EnrollmentCoC ec on ec.EnrollmentID = n.EnrollmentID and ec.file\_id = n.file\_id

where ((LEN(ec.CoCCode) > 6) or

 (SUBSTRING(ec.CoCCode,1,2) = 'integers') or

 (SUBSTRING(ec.CoCCode,3,1) <> '-') or

 (SUBSTRING(ec.CoCCode,4,3) = 'letters'))

 and ((x.ExitDate is null) or (x.ExitDate >= @gstart)) and n.EntryDate <= @gend

 and n.file\_id = f.file\_id)