Two queries selecting ALZ-related responses from Completed CDSs

This report demonstrates a technique for retrieving CDS assessments of interest. It uses Q-5507, a date field in the CDS Signature section, as the filter, and as a proxy that enables distinguishing the difference between a Complete and Incomplete CDS.

This report was demonstrated to the HAR Report Writers' Group on Friday Dec 1, 2017.

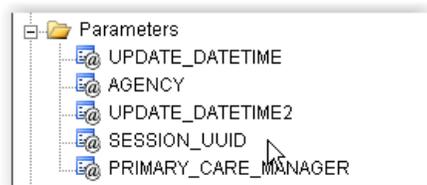Find it here in **Report Library > Community.**

https://har4.harmonyis.net/MA/Report%20Library/Community/selecting%20only%20completed%20CDSs%20--%2020171201.rdl

Note: some of the SQL code below is further annotated in the Comments. To see Comments, turn on Review > Track Changes, and set the view to Final: Show Markup.

// Jim Ospenson, December 5, 2017.

Parameters

The Report Runner selects the Minimum and Maximum date in the Time Period, and selects one or more ASAPs to define the List of CDS Assessments of Interest.

Parameter	Purpose
UPDATE_DATETIME	Collects the Minimum end of the date range used in **Get_List_of_SESSION_UUIDs**
AGENCY	Build a list of Agencies to be used in **Get_List_of_SESSION_UUIDs**
UPDATE_DATETIME2	Collects the Maximum end of the date range used in **Get_List_of_SESSION_UUIDs**
SESSION_UUID	This is the list of SESSION_UUIDs of interest for this report. The list is defined using the other three parameters, and is used by dataset

Param_ASAP_List

This dataset uses HAR_Assessments to load the @AGENCY parameter, providing the list of available ASAPs.

This dataset is grouped and returns an unduplicated list of all distinct values for Agency, from among all of the assessments meeting the filter criteria. By filtering the assessment table to select from new CDS assessments created on or after 1/1/2017, only Agencies that created such assessments in that timeframe are returned, thus the report writer does not need to exclude Boston ElderInfo or Chelsea Revere Winthrop explicitly, since they were not creating CDSs in the time period.
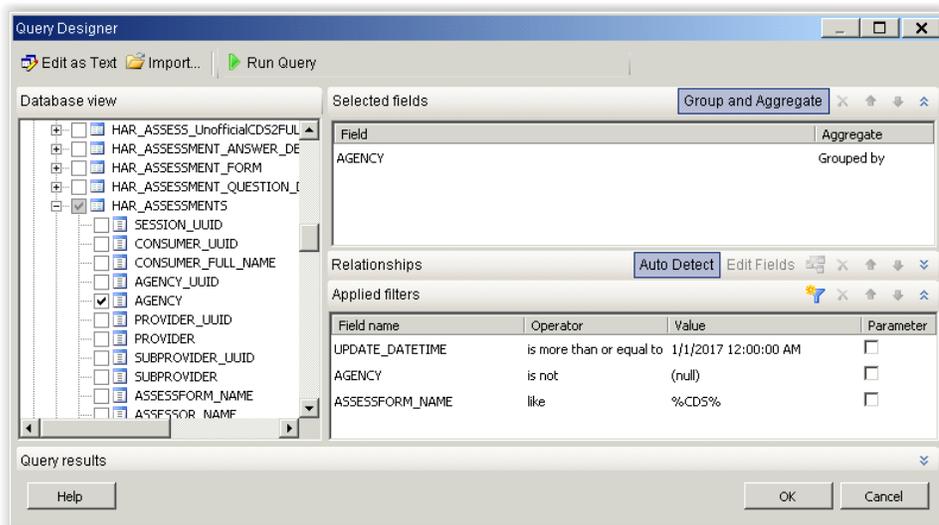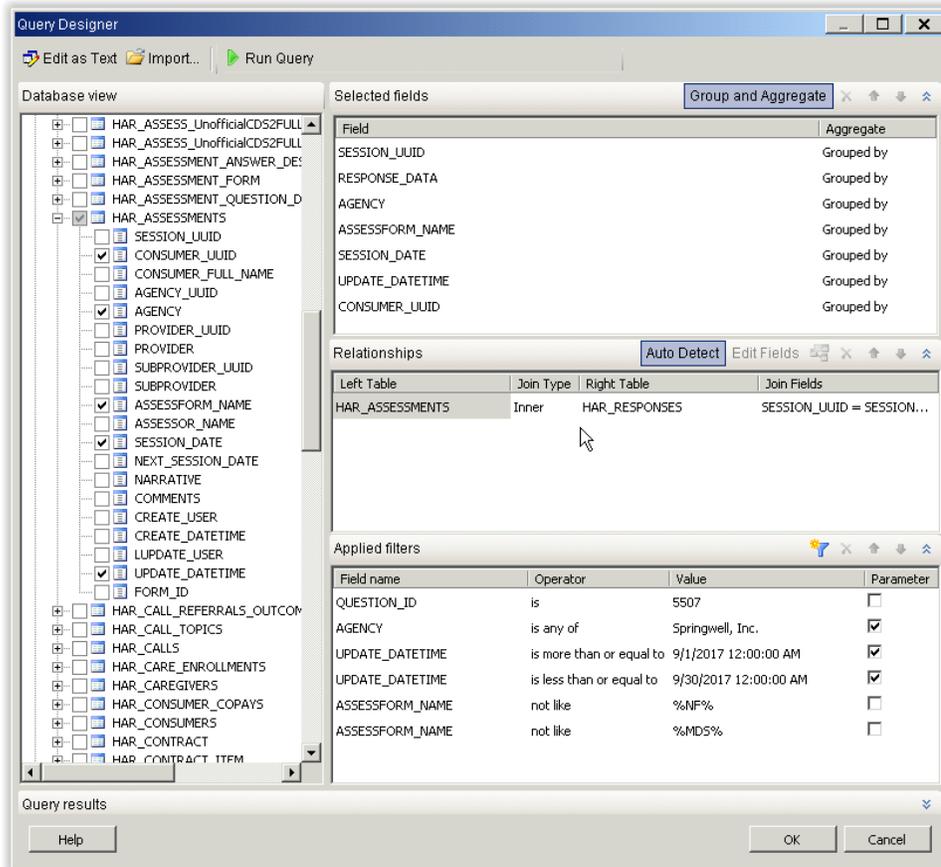

Get_List_of_SESSION_UUIDs

Below, the basic query used as the starting point for the report. I like to start in the Design View, to refine the joins and grouping. This query will not be used in the final version of the report.

As it stands, this query looks for CDS assessments that contain a non-null value in Question 5507, that were Last Updated between the Minimum and Maximum extremes of the date range. Because it uses an Inner Join, only questions (and therefore assessments) where there is data in Q-5507 are returned. Q-5507 has a special feature -- it is always blank when after a user copies an assessment into a fresh assessment form to update values. By CM/RN training and Program Instructions, it should always reflect the date the CDS & related documentation is completed.

Thus incomplete assessments -- whether they are simply uncompleted within the 7-day period of updateability, or are uncompleted pending receipt of medical documentation, or have been abandoned for whatever reason -- are not returned as items in the list of assessments of interest.

Also, note that Q-5507 is only used in CDS or MDS assessments. Thus non-CDS assessments such as I&R, Nutrition, or Family Caregiver assessments do not need to be excluded. CDS-2 or CDS-3 assessments will be returned, as appropriate based on the Time Period. Only NF (Nursing Facility) or MDS assessments need to be explicitly excluded.

Finally, note that this query will return assessments that contain data entry errors. For example, the user types 10/15/2107 or 10/15/2007 in Q-5507, and saves the assessment without noticing the error.

Get_List_of_SESSION_UUIDs_on_Completion_date

Note that in the query above I used HAR_ASSESSMENT.UPDATE_DATETIME to start off, creating the Min/Max parameters. Using SQL functions I will these values to [Completion Date], which is the value of Q-5507 after conversion to a date value attribute as filter criteria.

```
SET DATEFORMAT mdy;

SELECT
  HAR_RESPONSES.SESSION_UUID
  ,HAR_RESPONSES.RESPONSE_DATA

  -- addition
  ,CAST (HAR_RESPONSES.RESPONSE_DATA AS DATE) AS [Completion Date]

  ,HAR_ASSESSMENTS.AGENCY
  ,HAR_ASSESSMENTS.ASSESSFORM_NAME
  ,HAR_ASSESSMENTS.SESSION_DATE
```

Comment [Jimo1]: This SQL statement is necessary. It removes ambiguity in the date conversion, instructing the application that if a value of HAR_ASSESSMENT.UPDATE_DATETIME is encountered such as 1/9/2017, that January 9th is intended, and not September 1st.

Without this explicit configuration setting, the CAST (HAR_RESPONSES.RESPONSE_DATA AS DATE) function occasionally fails.

Comment [Jimo2]: Add a new column, where the content of HAR_RESPONSES.RESPONSE_DATA is converted to an actual date.

```
    ,HAR_ASSESSMENTS.UPDATE_DATETIME
    ,HAR_ASSESSMENTS.CONSUMER_UUID

FROM
  HAR_ASSESSMENTS
  INNER JOIN HAR_RESPONSES
    ON HAR_ASSESSMENTS.SESSION_UUID = HAR_RESPONSES.SESSION_UUID

WHERE
  HAR_RESPONSES.QUESTION_ID = 5507
  AND HAR_ASSESSMENTS.AGENCY IN (@AGENCY)

--  use as model
--  AND HAR_ASSESSMENTS.UPDATE_DATETIME >= @UPDATE_DATETIME
--  AND HAR_ASSESSMENTS.UPDATE_DATETIME <= @UPDATE_DATETIME2

  -- filter on [Completion Date]
  AND CAST (HAR_RESPONSES.RESPONSE_DATA AS DATE) >= @UPDATE_DATETIME
  AND CAST (HAR_RESPONSES.RESPONSE_DATA AS DATE) <= @UPDATE_DATETIME2

  AND HAR_ASSESSMENTS.ASSESSFORM_NAME NOT LIKE N'%NF%'
  AND HAR_ASSESSMENTS.ASSESSFORM_NAME NOT LIKE N'%MDS%'

GROUP BY
  HAR_RESPONSES.SESSION_UUID
  ,HAR_RESPONSES.RESPONSE_DATA
  ,HAR_ASSESSMENTS.AGENCY
  ,HAR_ASSESSMENTS.ASSESSFORM_NAME
  ,HAR_ASSESSMENTS.SESSION_DATE
  ,HAR_ASSESSMENTS.UPDATE_DATETIME
  ,HAR_ASSESSMENTS.CONSUMER_UUID
```

> **Comment [Jimo3]:** This is residual from the original Design View version of the query. I commented it out to show how it was edited to use CAST (HAR_RESPONSES.RESPONSE_DATA AS DATE).

> **Comment [Jimo4]:** In place of the file LUPDATE, we filter assessments on the data value of HAR_RESPONSES.RESPONSE_DATA.

CDS_Information

This dataset takes as input a list of SESSION_UUIDs, and returns the coded assessment responses for a set of five (5) singles-select questions regarding the consumer's Alzheimer and Related Dementia (ADRD) status (joining HAR_RESPONSES to HAR_ASSESSMENTS). It decodes the coded responses by joining to HAR_RESPONSES to HAR_ASSESSMENT_QUESTION_DESCRIPTIONS on QUESTION_ID for the question prompts for each of the 5 questions, and joining HAR_RESPONSES to HAR_ASSESSMENT_ANSWER_DESCRIPTIONS on QUESTION_ID and RESPONSE_DATA / ITEM_CHOICE_TEXT, converting the coded integer response to plain-English response text.

Note that in order to run the query, I seeded a list of SESSION_UUIDs, copying and pasting in order to build a short list of SESSION_UUIDs. After Running the query and retrieving some data, I checked the parameter checkbox. When I clicked OK to close the dataset from Design View, the @SESSION_UUID parameter was automatically created.
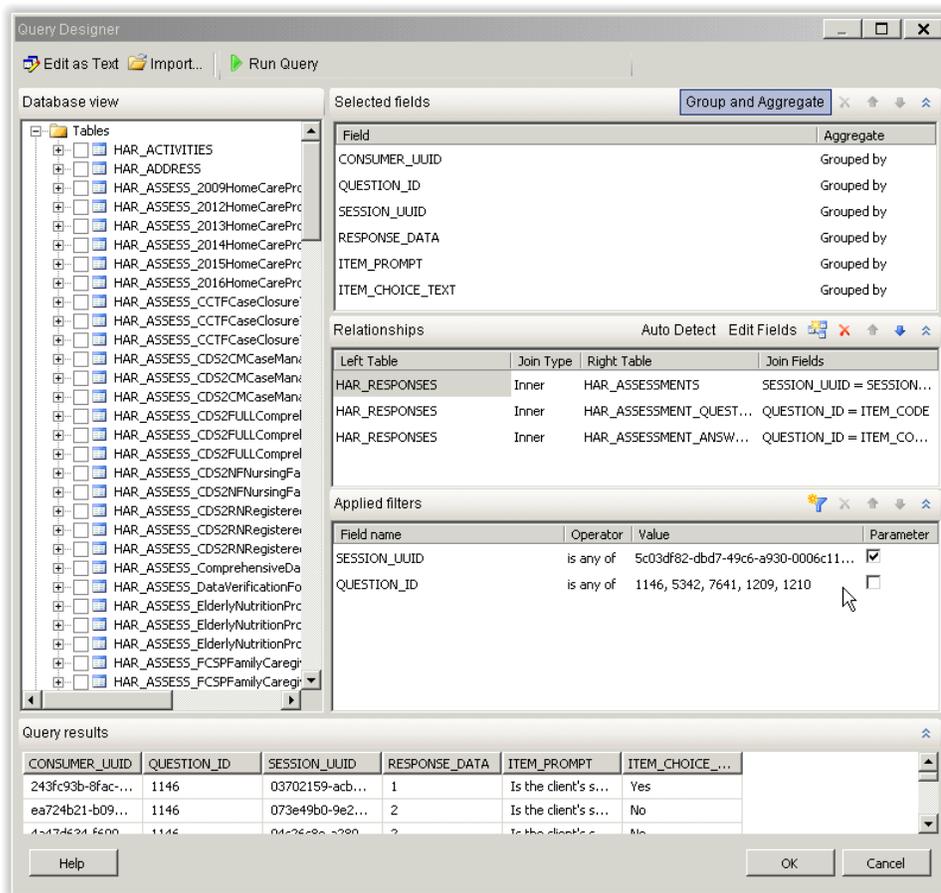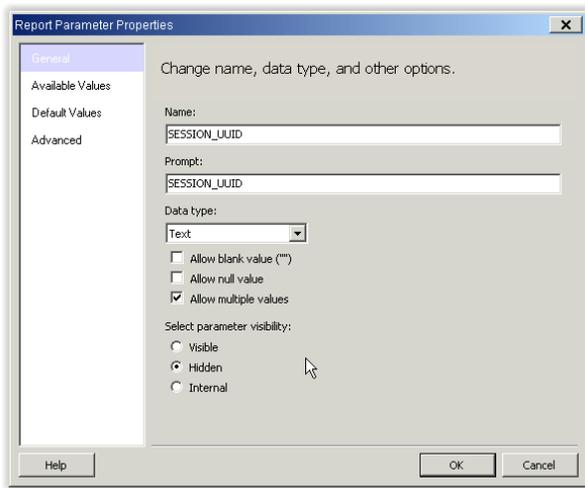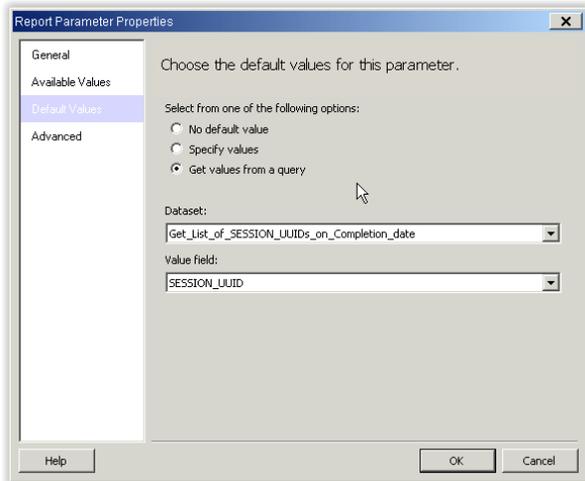
Parameter: SESSION_UUID

After the parameter was created, I reviewed its properties.

I verified that it would Accept multiple values, and would not Allow blank value ("").

I set the parameter visibility to Hidden, because I do not want a Report Runner interacting with this parameter. This means I don't have to worry about Available Values for this parameter, only Default Values.

Next, assign Default Values for this parameter to the output of the SESSION_UUID column resulting from Get_List_of_SESSION_UUIDs_on_Completion_date.

// end //