

## Query Presented at HAR Report Writers' Group, 1/26/2018

For questions, email Deborah Scott, Quality Manager at EOEa.

Saved in HAR community folder: *ADRD\_CDS\_and\_enrollments.rdl*

### Brief description of query:

- Ranks consumers' assessments in a date range, (which is specified through parameters) and returns answers to five dementia-related questions. (A rank of 1 is the most recent assessment in the date range.)
- Also returns the consumers' enrollment data.
- Enables users to retrieve the CDS data of Home Care consumers who are enrolled during a particular time period (which is specified through parameters).
- Uses two common table expressions (CTEs).
- CTEs:
  - Start with WITH
  - The report writer names the CTE
  - The keyword AS follows the CTE name
- Basic structure of the query:
  - **CTE named "CDS"** (which uses two tables—HAR\_ASSESSMENTS and HAR\_RESPONSES)
  - **CTE named "ENROLLMENT"** (which uses two tables—HAR\_CONSUMERS and HAR\_CARE\_ENROLLMENTS)
  - **Outer query**—the main section of the query that specifies what is included in the results—(which draws from the two CTEs—CDS and ENROLLMENT)
- More can be done with the query (e.g., adding case statements, so that the text of answer choices appears in the results).
- The query can be exported as a CSV file and then saved as an Excel file. To get the most recent assessment, sort by the RANK column and keep the rows with a rank of 1. (If the user wants to include consumers who do not have an assessment, then also include rows with blanks in the RANK column.)

### Query:

```
WITH CDS AS (  
SELECT  
HAR_ASSESSMENTS.CONSUMER_UUID  
,HAR_ASSESSMENTS.SESSION_UUID  
,HAR_ASSESSMENTS.SESSION_DATE  
,HAR_ASSESSMENTS.UPDATE_DATETIME  
,HAR_RESPONSES.QUESTION_ID
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,HAR_RESPONSES.RESPONSE_DATA
,HAR_ASSESSMENTS.AGENCY
,HAR_ASSESSMENTS.ASSESSFORM_NAME
,DENSE_RANK() OVER(PARTITION BY HAR_ASSESSMENTS.CONSUMER_UUID
ORDER BY HAR_ASSESSMENTS.SESSION_DATE DESC, HAR_ASSESSMENTS.UPDATE_DATETIME DESC,
HAR_ASSESSMENTS.SESSION_UUID DESC) AS RANK
FROM HAR_ASSESSMENTS INNER JOIN HAR_RESPONSES
ON HAR_ASSESSMENTS.SESSION_UUID = HAR_RESPONSES.SESSION_UUID
WHERE
HAR_ASSESSMENTS.ASSESSFORM_NAME LIKE N'%cds%'
AND HAR_ASSESSMENTS.ASSESSFORM_NAME NOT LIKE N'%Unofficial%'
AND HAR_ASSESSMENTS.ASSESSFORM_NAME NOT LIKE N'%NF%'
AND HAR_RESPONSES.QUESTION_ID IN (N'1146', N'5342', N'7641', N'1209', N'1210')
AND HAR_ASSESSMENTS.SESSION_DATE >= @SESSION_DATE_GT_EQT
AND HAR_ASSESSMENTS.SESSION_DATE <= @SESSION_DATE_LT_EQT
GROUP BY
HAR_ASSESSMENTS.CONSUMER_UUID
,HAR_ASSESSMENTS.SESSION_UUID
,HAR_ASSESSMENTS.SESSION_DATE
,HAR_ASSESSMENTS.UPDATE_DATETIME
,HAR_RESPONSES.QUESTION_ID
,HAR_RESPONSES.RESPONSE_DATA
,HAR_ASSESSMENTS.AGENCY
,HAR_ASSESSMENTS.ASSESSFORM_NAME
),
ENROLLMENT AS (
SELECT
HAR_CONSUMERS.CLIENT_ID
,HAR_CARE_ENROLLMENTS.CONSUMER_UUID
,HAR_CONSUMERS.FULL_NAME
,CASE HAR_CONSUMERS.CONSUMER_AGENCY_DES
WHEN 'BayPath Elder Services' THEN 'BayPath'
WHEN 'Elder Services of Berkshire County, Inc.' THEN 'Berkshire'
WHEN 'Ethos' THEN 'Ethos'
WHEN 'Central Boston Elder Services, Inc.' THEN 'Central Boston'
WHEN 'Boston Senior Home Care' THEN 'Boston Senior'
WHEN 'Bristol Elder Services, Inc' THEN 'Bristol'
WHEN 'Elder Services of Cape Cod and the Islands, Inc.' THEN 'Cape Cod'
WHEN 'Coastline Elderly Services, Inc.' THEN 'Coastline'
WHEN 'Franklin County Home Care Corporation' THEN 'Franklin'
WHEN 'LifePath, Inc.' THEN 'LifePath'
WHEN 'SeniorCare, Inc.' THEN 'SeniorCare'

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WHEN 'Highland Valley Elder Services, Inc.' THEN 'Highland'
WHEN 'WestMass ElderCare, Inc.' THEN 'WestMass'
WHEN 'HESSCO Elder Services' THEN 'HESSCO'
WHEN 'Greater Lynn Senior Services, Inc.' THEN 'Greater Lynn'
WHEN 'Elder Services of Merrimack Valley, Inc.' THEN 'Merrimack'
WHEN 'Minuteman Senior Services' THEN 'Minuteman'
WHEN 'Montachusett Home Care Corporation' THEN 'Montachusett'
WHEN 'Mystic Valley Elder Services, Inc.' THEN 'Mystic Valley'
WHEN 'North Shore Elder Services, Inc.' THEN 'North Shore'
WHEN 'Old Colony Elder Services, Inc.' THEN 'Old Colony'
WHEN 'Somerville/Cambridge Elder Services, Inc.' THEN 'Somerville/Cam.'
WHEN 'South Shore Elder Services, Inc.' THEN 'South Shore'
WHEN 'Greater Springfield Senior Services, Inc.' THEN 'Springfield'
WHEN 'Tri-Valley, Inc.' THEN 'Tri-Valley'
WHEN 'Springwell, Inc.' THEN 'Springwell'
WHEN 'Elder Services of Worcester Area, Inc.' THEN 'Worcester'
END AS ASAP
,HAR_CONSUMERS.PRIMARY_CARE_MANAGER
,HAR_CARE_ENROLLMENTS.CARE_PROGRAM_NAME
,HAR_CARE_ENROLLMENTS.START_DATE
,HAR_CARE_ENROLLMENTS.END_DATE
,HAR_CARE_ENROLLMENTS.TERMINATION_DATE
,DENSE_RANK() OVER(PARTITION BY HAR_CARE_ENROLLMENTS.CONSUMER_UUID
ORDER BY HAR_CARE_ENROLLMENTS.START_DATE DESC,
HAR_CARE_ENROLLMENTS.TERMINATION_DATE DESC, HAR_CARE_ENROLLMENTS.END_DATE DESC,
HAR_CARE_ENROLLMENTS.CARE_PROGRAM_NAME DESC) AS ENROLLRANK
FROM
HAR_CONSUMERS INNER JOIN HAR_CARE_ENROLLMENTS
ON HAR_CONSUMERS.CONSUMER_UUID = HAR_CARE_ENROLLMENTS.CONSUMER_UUID
WHERE
HAR_CARE_ENROLLMENTS.CARE_PROGRAM_NAME IN (N'Choices / Waiver', N'Home Care Basic /
Waiver', N'ECOP / Non-Waiver', N'Home Care Basic / Non-Waiver', N'Respite / Over-Income', N'Home
Care / Over-Income')
AND HAR_CONSUMERS.CLIENT_ID IS NOT NULL
AND HAR_CONSUMERS.CONSUMER_AGENCY_DES NOT IN (N'Boston ElderINFO (Information &
Referral)', N'Old Colony Planning Council', N'Montachusett Opportunity Council, Inc.', N'City of Boston,
Comm. on Affairs of the Elderly', N'Executive Office of Elder Affairs')
AND HAR_CARE_ENROLLMENTS.START_DATE <= @START_DATE_LT_EQT
AND (HAR_CARE_ENROLLMENTS.END_DATE >= @END_DATE_GT_EQT
OR HAR_CARE_ENROLLMENTS.END_DATE IS NULL)
AND (HAR_CARE_ENROLLMENTS.TERMINATION_DATE >= @TERM_DATE_GT_EQT
OR HAR_CARE_ENROLLMENTS.TERMINATION_DATE IS NULL)

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GROUP BY
HAR_CONSUMERS.CLIENT_ID
,HAR_CARE_ENROLLMENTS.CONSUMER_UUID
,HAR_CONSUMERS.FULL_NAME
,HAR_CONSUMERS.CONSUMER_AGENCY_DES
,HAR_CONSUMERS.PRIMARY_CARE_MANAGER
,HAR_CARE_ENROLLMENTS.CARE_PROGRAM_NAME
,HAR_CARE_ENROLLMENTS.START_DATE
,HAR_CARE_ENROLLMENTS.END_DATE
,HAR_CARE_ENROLLMENTS.TERMINATION_DATE
)
SELECT
ENROLLMENT.CLIENT_ID
--,ENROLLMENT.CONSUMER_UUID
,ENROLLMENT.FULL_NAME
,ENROLLMENT.ASAP
,CDS.AGENCY
,ENROLLMENT.PRIMARY_CARE_MANAGER
--,CDS.SESSION_UUID
,CDS.SESSION_DATE
,CDS.UPDATE_DATETIME
,MAX(CASE CDS.QUESTION_ID WHEN 1146 THEN CDS.RESPONSE_DATA ELSE 0 END)
AS SHORT_TERM_MEMORY
,MAX(CASE CDS.QUESTION_ID WHEN 5342 THEN CDS.RESPONSE_DATA ELSE 0 END)
AS PROCEDURAL_MEMORY
,MAX(CASE CDS.QUESTION_ID WHEN 7641 THEN CDS.RESPONSE_DATA ELSE 0 END)
AS MINI_COG
,MAX(CASE CDS.QUESTION_ID WHEN 1209 THEN CDS.RESPONSE_DATA ELSE 0 END)
AS ALZHEIMERS
,MAX(CASE CDS.QUESTION_ID WHEN 1210 THEN CDS.RESPONSE_DATA ELSE 0 END)
AS DEMENTIA
,CDS.ASSESSFORM_NAME
,ENROLLMENT.START_DATE
,ENROLLMENT.END_DATE
,ENROLLMENT.TERMINATION_DATE
,ENROLLMENT.CARE_PROGRAM_NAME
,CDS.RANK
--,ENROLLMENT.ENROLLRANK
FROM
ENROLLMENT LEFT OUTER JOIN CDS
ON ENROLLMENT.CONSUMER_UUID = CDS.CONSUMER_UUID
WHERE

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--CDS.RANK = 1
ENROLLMENT.ENROLLRANK = 1
--AND ENROLLMENT.ASAP = @ASAP
GROUP BY
ENROLLMENT.CLIENT_ID
--,ENROLLMENT.CONSUMER_UUID
,ENROLLMENT.FULL_NAME
,ENROLLMENT.ASAP
,CDS.AGENCY
--,CDS.SESSION_UUID
,ENROLLMENT.PRIMARY_CARE_MANAGER
,CDS.SESSION_DATE
,CDS.UPDATE_DATETIME
,ENROLLMENT.START_DATE
,ENROLLMENT.END_DATE
,ENROLLMENT.TERMINATION_DATE
,ENROLLMENT.CARE_PROGRAM_NAME
,CDS.ASSESSFORM_NAME
,CDS.RANK
--,ENROLLMENT.ENROLLRANK
ORDER BY
ENROLLMENT.CLIENT_ID
,CDS.RANK
--,ENROLLMENT.ENROLLRANK;
```