Work Plan:
Data Curation Query Package

V4.12
October 8, 2018

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I. Purpose and Scope

The purpose of the Data Curation Query Package v4.12 is to characterize the data in 17 of the PCORnet Common Data Model (CDM) v4.1 tables, and to partially characterize the data in the OBS_GEN and OBS_CLIN tables. The package consists of a code errors query, a data curation query and an Empirical Data Curation Report which summarizes key information from the query output and evaluates the results against PCORnet's Data Check v5. Output tables will be produced by running SAS programs against static local DataMarts in PCORnet CDM v4.1 with SAS data types.

Query results will be used by the PCORnet Coordinating Center's Distributed Research Network Operations Center (DRN OC) to ensure a foundational level of data quality across the networks. Approved results may be used to provide initial feasibility estimates for prep-to-research queries, inform study planning activities, and to create DataMart-level, CDRN-level or network-level reports. Data aggregated at the network level may be shared publicly. DataMart-level results such as the metadata transparency reports may be published within PCORnet upon review and approval by the CDRN principal investigator (PI).

To provide the DRN OC with additional insight into the query results, the ETL Annotated Data Dictionary (ETL ADD) must be updated prior to submitting a query response. The ETL ADD is stored in a REDCap® database.

Low Cell Count Threshold

DataMart Administrators may specify a low cell count threshold that establishes the minimum number of observations required to protect against possible identification of subject data. The default low cell count threshold value is set to eleven (11) in accordance with PCORnet's minimum bin size policy. Query results greater than zero and less than the threshold will be changed to BT (below threshold) and treated as missing. For example, if a DataMart sets a low cell count threshold of 5, cell counts between 1 and 4 will be changed to BT. The DRN OC recommends setting low cell count thresholds no higher than 51. The low cell count threshold applies to all query results except for descriptive statistics. The low cell count threshold treatment for each query is shown in Section IV.

Potential Code Errors Report

The query package produces a Potential Code Errors report which identifies exceptions to the expected code length or content for ICD9/ICD10 diagnosis codes; ICD9/ICD10-PCS and CPT/HCPCS procedure codes; LOINC codes; RXNORM_CUI codes; and NDC codes by applying the heuristics described in Section II.

Data curation output tables

The query package produces up to 199 query output tables depending on how many CDM tables are populated. Information about each output table is provided in Sections IV and Sections X-XXVIII. Please note that for tables which are cross-tabs of two fields, the table shells only contain certain example cells.

Empirical Data Curation Report

The query package produces an Empirical Data Curation (EDC) report. The EDC Report summarizes key information from the data curation query ouput tables and identifies exceptions to the PCORnet Data Checks v5. The table of contents is shown in Section V.

CDM Errata

This query package does not account for CDM Errata.

Lookback Date

Lookback date is the earliest date included in the query results. Lookback date will be calculated by subtracting lookback period from the Query Response Date which is the date the data curation query was run. The default lookback period is 20 years (240 months). **The lookback value should not be modified unless you are instructed to do so**.

This date restriction does not apply to the DEMOGRAPHIC, DEATH, HARVEST, DEATH_CAUSE, or PROVIDER tables. The dates used to select records in the other tables are ENROLLMENT.ENR_START_DATE, ENCOUNTER.ADMIT_DATE, DIAGNOSIS.ADMIT_DATE, PROCEDURES.ADMIT_DATE, VITAL.MEASURE_DATE, DISPENSING.DISPENSE_DATE, LAB_RESULT_CM.RESULT_DATE, CONDITION.REPORT_DATE, PRO_CM.PRO_DATE, PRESCRIBING.RX_ORDER_DATE, PCORNET_TRIAL.TRIAL_ENROLL_DATE, MED_ADMIN.MEDADMIN_START_DATE, OBS_CLIN.OBSCLIN_DATE, and OBS_GEN.OBSGEN_DATE. Since some of these variables do not have to be populated, records with missing dates will also be included in the data curation query.

Questions about this query package should be sent to Laura Qualls (laura.qualls@duke.edu) or Sujung Choi (sujung.choi@duke.edu).

II. PCORnet Code Errors Query

The purpose of the PCORnet Code Errors query is to help network partners identify exceptions to the expected formats for selected codes. The query identifies exceptions to the expected code length or content for ICD9/ICD10 diagnosis codes; ICD9/ICD10-PCS and CPT/HCPCS procedure codes; LOINC codes; RXNORM_CUI codes; and NDC codes by applying the following heuristics. Heuristics are conservative to allow for all potential implementations (e.g. current LOINC codes are 5+ digits, but the program allows for the shorter deprecated codes). These heuristics will **not** identify all erroneous codes, and will only identify codes which are classified as the proper type (e.g. a ICD9 diagnosis code labeled as a SM code type will not be evaluated). The CDM provides guidance on addressing potential errors (see General Implementation Guidance issue #5)

Code	Code Type	Unexpected length (after removing decimals if applicable)	Unexpected string	Unexpected alphabetical character	Unexpected numeric character
DX	09	Not 3-5	000.x	Any alphabetical character other than E or V	No numeric characters
DX	10	Not 3-7	000.x or 999.x	First character is not alphabetical	No numeric characters
PX	CH	Less than 5	00000x or 99999x	n/a	No numeric characters
PX	09	Not 3-4	00.00	Any alphabetical character	n/a[1]
PX	10	Not 7	0000000 or 9999999	n/a	n/a
NDC	n/a	Not 11[2]	00000000000 or 99999999999	Any alphabetical character[2]	n/a[1]
RXNORM_CUI	n/a	Not 2-7	n/a	Any alphabetical character	n/a[1]
LOINC	n/a	Not 3-7	No hyphen in the penultimate position	Any alphabetical character	n/a[1]

1. Redundant with the unexpected alphabetical character rule.
2. Also checked as part of the data curation query.

III. Data Curation Query Definitions

The definitions for variables included in the query output are as follows:

- ADMIT_DATE Mismatch: These fields are replicated from the ENCOUNTER table to the PROCEDURES and DIAGNOSES table. The number of mismatched records is the number of records in PROCEDURES or DIAGNOSIS where these fields do not match the value in the ENCOUNTER table.
- ALL_N or RECORD_N or N: Count of records with non-missing values for the specified field.
- DATASET: CDM table name
- DISTINCT_N: Count of records with unique values for the specified field.
- DISTINCT_ENC_ID_N: Count of records with unique values for ENCOUNTERID.
- DISTINCT_PATID_N: Count of records with unique values for PATID.
- DISTINCT_VISIT_N: Count of unique visits in the ENCOUNTER table. Visits are a concatenation of PATID + PROVIDER_ID + ENC_TYPE + ADMIT_DT.
- ELIG_RECORD_N: Count of records in the ENCOUNTER table where PATID, PROVIDER_ID, ENC_TYPE, and ADMIT_DT are all populated.
- ENC_TYPE Mismatch: These fields are replicated from the ENCOUNTER table to the PROCEDURES and DIAGNOSES table. The number of mismatched records is the number of records in PROCEDURES or DIAGNOSIS where these fields do not match the value in the ENCOUNTER table.
- EXP_SPECIMEN_SOURCE: The expected specimen source based on the values established by LOINC®.
- KNOWN_TEST: Total number of records where LAB_LOINC is not null.
- KNOWN_TEST_RESULT: Total number of records where (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and RESULT_MODIFIER is not null or (3) RESULT_QUAL is in ("BORDERLINE", "POSITIVE", "NEGATIVE" or "UNDETERMINED")
- KNOWN_TEST_RESULT_NUM: Total number of records where the test and result are known, as follows: (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and (3) RESULT_MODIFIER is not null
- KNOWN_TEST_RESULT_NUM_SOURCE: Total number of records where the test and result are known, as follows: (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and (3) RESULT_MODIFIER is not null and (4) SPECIMEN_SOURCE is not null
- KNOWN_TEST_RESULT_NUM_UNIT: Total number of records where the test and result are known, as follows: (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and (3) RESULT_MODIFIER is not null and (4) RESULT_UNIT is not null
- KNOWN_TEST_RESULT_NUM_SRCE_UNIT: Total number of records where the test and result are known, as follows: (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and (3) RESULT_MODIFIER is not null and (4) SPECIMEN_SOURCE is not null and (5) RESULT_UNIT is not null
- KNOWN_TEST_NUM_RESULT_RANGE: Total number of records where the test, numeric result, and normal range are all known, as follows: (1) LAB_LOINC is not null and (2) RESULT_NUM is not null and (3) RESULT_MODIFIER is not null and (4) one of the following is true: (4a) NORM_MODIFIER_LOW='EQ' and NORM_MODIFIER_HIGH='EQ' and NORM_RANGE_LOW is not null and NORM_RANGE_HIGH is not null or (4b) NORM_MODIFIER_LOW in ('GT','GE') and NORM_MODIFER_HIGH='NO' and NORM_RANGE_LOW is not null and NORM_RANGE_HIGH is null or (4c) NORM_MODIFIER_HIGH in ('LE','LT') and NORM_MODIFIER_LOW='NO' and NORM_RANGE_HIGH is not null and NORM_RANGE_LOW is null.
- NMISS or NULL_N: Count of records with null or missing values for the specified field.
- ENCOUNTERID Orphan: An ENCOUNTERID which is not in the ENCOUNTER table and appears in any other table.
- PATID Orphan: A PATID which is not in the DEMOGRAPHIC table and appears in any other table.

- PROVIDERID orphan: A PROVIDERID which is not in the PROVIDER table and appears in any other table.
- RECORD_PCT: The percent of all records. Will be blank for rows with values of 0 or BT (below threshold).
- RECORD_N_RXCUI: Count of records with non-missing values for RXNORM_CUI.
- RECORD_N_LOINC: Count of records with non-missing values for LOINC.
- RESPONSE_DATE: Date the query package was run (ie, SAS system date).
- QUERY_PACKAGE: Query package name.
- RXNORM_CUI_TTY_TIER: The term type (TTY) that the RXNORM_CUI is mapped to. Tier 1: RXNORM_CUI_TTY in ('SCD','SBD','BPCK','GPCK'). Tier 2: RXNORM_CUI_TTY in ('SBDF','SCDF','SBDG','SCDG','SBDC','BN','MIN'). Tier 3: RXNORM_CUI_TTY in ('SCDC', 'PIN','IN'). Tier 4: RXNORM_CUI_TTY in ('DF','DFG'). NULL or missing=RXNORM_CUI_TTY='NULL or missing'.
- STAT: Descriptive statistic (e.g. minimum, maximum, median).
- TAG: CDM field name
- VALID_N: Number of records in a valid format. Used for fields without a prespecified value set.
- VISIT: As stated in the PCORnet Common Data Model, for the Encounter table, "each record will generally reflect a unique combination of PATID, ADMIT_DATE, PROVIDERID, and ENC_TYPE". Thus, a visit is a concatenation of PATID + ADMIT_DATE+ PROVIDERID + ENC_TYPE.

IV. Data Curation Query Output Table List

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
1	CONDITION	cond_l3_condition	CONDITION frequency	Yes
2	CONDITION	cond_l3_n	Counts PATID, ENCOUNTERID, and CONDITIONID	Yes
3	CONDITION	cond_l3_rdate_y	REPORT_DATE year frequency	Yes
4	CONDITION	cond_l3_rdate_ym	REPORT_DATE year month frequency	Yes
5	CONDITION	cond_l3_source	CONDITION_SOURCE frequency	Yes
6	CONDITION	cond_l3_status	CONDITION_STATUS frequency	Yes
7	CONDITION	cond_l3_type	CONDITION_TYPE frequency	Yes
8	DEATH	death_l3_date_y	DEATH_DATE year frequency	Yes
9	DEATH	death_l3_date_ym	DEATH_DATE year month frequency	Yes
10	DEATH	death_l3_impute	DEATH_DATE_IMPUTE frequency	Yes
11	DEATH	death_l3_match	DEATH_MATCH_CONFIDENCE frequency	Yes
12	DEATH	death_l3_n	Counts non-missing, distinct, and missing PATID and DEATHID	Yes
13	DEATH	death_l3_source	DEATH_SOURCE frequency	Yes
14	DEATH_CAUSE	deathc_l3_code	DEATH_CAUSE_CODE frequency	Yes
15	DEATH_CAUSE	deathc_l3_conf	DEATH_CAUSE_CONFIDENCE frequency	Yes
16	DEATH_CAUSE	deathc_l3_n	Counts PATID, DEATH_CAUSE, and DEATHCID	Yes
17	DEATH_CAUSE	deathc_l3_source	DEATH_CAUSE_SOURCE frequency	Yes
18	DEATH_CAUSE	deathc_l3_type	DEATH_CAUSE_TYPE frequency	Yes
19	DEMOGRAPHIC	dem_l3_ageyrsdist1	Descriptive statistics for age. Age is calculated as current age or age at death if death date is known. If multiple death records exist, the earlier death date is used.	No
20	DEMOGRAPHIC	dem_l3_ageyrsdist2	Age group frequency. Age is calculated as current age or age at death if death date is known. If multiple death records exist, the earlier death date is used.	Yes
21	DEMOGRAPHIC	dem_l3_genderdist	GENDER_IDENTITY frequency	Yes
22	DEMOGRAPHIC	dem_l3_orientdist	SEXUAL_ORIENTATION FREQUENCY	Yes
23	DEMOGRAPHIC	dem_l3_hispdist	HISPANIC frequency	Yes
24	DEMOGRAPHIC	dem_l3_n	Counts non-missing, distinct, and missing PATID	Yes
25	DEMOGRAPHIC	dem_l3_patpreflang	PAT_PREF_LANGUAGE_SPOKEN frequency	Yes
26	DEMOGRAPHIC	dem_l3_racedist	RACE frequency	Yes
27	DEMOGRAPHIC	dem_l3_sexdist	SEX frequency	Yes
28	DIAGNOSIS	dia_l3_adate_y	ADMIT_DATE year frequency	Yes
29	DIAGNOSIS	dia_l3_adate_ym	ADMIT_DATE year month frequency	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
30	DIAGNOSIS	dia_l3_dash1	Counts the number of patients with any diagnosis record with a populated ADMIT_DATE during the designated period prior to the maximum ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is used instead.	Yes
31	DIAGNOSIS	dia_l3_dx	DX frequency	Yes
32	DIAGNOSIS	dia_l3_dx_dxtype	DX and DX_TYPE crosstab	Yes
33	DIAGNOSIS	dia_l3_dxpoa	DX_POA frequency	Yes
34	DIAGNOSIS	dia_l3_dxsource	DX_SOURCE frequency	Yes
35	DIAGNOSIS	dia_l3_dxtype_adate_y	DX_TYPE and ADMIT_DATE year crosstab	Yes
36	DIAGNOSIS	dia_l3_dxtype_dxsource	DX_TYPE and DX_SOURCE crosstab	Yes
37	DIAGNOSIS	dia_l3_dxtype_enctype	DX_TYPE and ENC_TYPE crosstab	Yes
38	DIAGNOSIS	dia_l3_enctype	ENC_TYPE frequency	Yes
39	DIAGNOSIS	dia_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab	Yes
40	DIAGNOSIS	dia_l3_n	Counts PATID, ENCOUNTERID, and DIAGNOSISID	Yes
41	DIAGNOSIS	dia_l3_origin	DX_ORIGIN frequency	Yes
42	DIAGNOSIS	dia_l3_pdx	PDX frequency	Yes
43	DIAGNOSIS	dia_l3_pdx_enctype	PDX and ENC_TYPE crosstab	Yes
44	DIAGNOSIS	dia_l3_pdxgrp_enctype	PDX group and ENC_TYPE crosstab	Yes
45	DIAGNOSIS	dia_l3_pdx_detail	ENC_TYPE and DX ORIGIN crosstab for principal diagnosis records	Yes
46	DISPENSING	disp_l3_ndc	NDC frequency	Yes
47	DISPENSING	disp_l3_ddate_y	DISPENSE_DATE year frequency	Yes
48	DISPENSING	disp_l3_ddate_ym	DISPENSE_DATE year month frequency	Yes
49	DISPENSING	disp_l3_dispamt_dist	Descriptive statistics for DISPENSE_AMT	No
50	DISPENSING	disp_l3_dose_dist	Descriptive statistics for DISPENSE_DOSE_DISP	No
51	DISPENSING	disp_l3_doseunit	DISPENSE_DOSE_DISP_UNIT frequency	Yes
52	DISPENSING	disp_l3_route	DISPENSE_ROUTE frequency	Yes
53	DISPENSING	disp_l3_n	Counts non-missing, distinct, and missing PATID, DISPENSINGID. PRESCRIBINGID, NDC, and valid NDCs. Valid NDCs are 11 digits with no dashes, ie. HIPAA format.	Yes
54	DISPENSING	disp_l3_supdist2	Record count by category of RX_DAYS_SUPP	Yes
55	ENCOUNTER	enc_l3_adate_y	ADMIT_DATE year frequency	Yes
56	ENCOUNTER	enc_l3_adate_ym	ADMIT_DATE year month frequency	Yes
57	ENCOUNTER	enc_l3_admsrc	ADMITTING_SOURCE frequency	Yes
58	ENCOUNTER	enc_l3_dash1	Counts the number of patients with any encounter record with a populated ADMIT_DATE during the designated	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
			period prior to the maximum ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is used instead.	
59	ENCOUNTER	enc_l3_dash2	Counts the number of patients with any AV, ED, IP, EI, or OS encounter record with a populated ADMIT_DATE during the designated period prior to the maximum ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is used instead.	Yes
60	ENCOUNTER	enc_l3_ddate_y	DISCHARGE_DATE year frequency	Yes
61	ENCOUNTER	enc_l3_ddate_ym	DISCHARGE_DATE year month frequency	Yes
62	ENCOUNTER	enc_l3_disdisp	DISCHARGE_DISPOSITION frequency	Yes
63	ENCOUNTER	enc_l3_disstat	DISCHARGE_STATUS frequency	Yes
64	ENCOUNTER	enc_l3_drg	DRG frequency.	Yes
65	ENCOUNTER	enc_l3_drg_type	DRG_TYPE frequency	Yes
66	ENCOUNTER	enc_l3_enctype	ENC_TYPE frequency. **(***Note:* Visits are a concatenation of PATID + PROVIDER_ID + ENC_TYPE + ADMIT_DT. ELIG_RECORD_N is a count of records where all fields used to define a visit are populated)	Yes
67	ENCOUNTER	enc_l3_enctype_adate_y	ENC_TYPE and ADMIT_DATE year month crosstab	Yes
68	ENCOUNTER	enc_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab	Yes
69	ENCOUNTER	enc_l3_enctype_admsrc	ENC_TYPE by ADMITTING_SOURCE crosstab	Yes
70	ENCOUNTER	enc_l3_enctype_ddate_ym	ENC_TYPE and DISCHARGE_DATE year month crosstab	Yes
71	ENCOUNTER	enc_l3_enctype_disdisp	ENC_TYPE and DISCHARGE_DISPOSITION crosstab	Yes
72	ENCOUNTER	enc_l3_enctype_disstat	ENC_TYPE and DISCHARGE_STATUS crosstab	Yes
73	ENCOUNTER	enc_l3_enctype_drg	ENC_TYPE and DRG_TYPE crosstab	Yes
74	ENCOUNTER	enc_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and PROVIDERID, and FACILITYID	Yes
75	ENCOUNTER	enr_l3_payertype1	PAYER_TYPE_PRIMARY frequency	Yes
76	ENCOUNTER	enr_l3_payertype2	PAYER_TYPE_SECONDARY frequency	Yes
77	ENCOUNTER	end_l3_facilitytype	FACILITY_TYPE frequency	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
78	ENROLLMENT	enr_l3_basedist	ENR_BASIS frequency	Yes
79	ENROLLMENT	enr_l3_dist_end	Descriptive statistics for distinct ENR_END_DATE	No
80	ENROLLMENT	enr_l3_dist_enrmonth	Distinct number of enrollment month frequency. Enrollment months are calculated as the difference between the ENR_END_DATE and ENR_START_DATE in months. Records with null or missing ENR_END_DATE or ENR_START_DATE are excluded from the calculation.	Yes
81	ENROLLMENT	enr_l3_dist_enryear	Distinct number of enrollment year frequency. Enrollment years are calculated as the difference between the ENR_END_DATE and ENR_START_DATE in years. Records with null or missing ENR_END_DATE or ENR_START_DATE are excluded from the calculation.	Yes
82	ENROLLMENT	enr_l3_dist_start	Descriptive statistics for distinct ENR_START_DATE	No
83	ENROLLMENT	enr_l3_enr_ym	ENR_START_DATE frequency	Yes
84	ENROLLMENT	enr_l3_n	Counts non-missing, distinct, and missing PATID, ENR_START_DATE, and ENROLLID (combination of PATID, ENR_START_DATE, and ENR_BASIS)	Yes
85	ENROLLMENT	enr_l3_per_patid	Descriptive statistics for number of enrollment periods per PATID.	No
86	ENROLLMENT	enr_l3_chart	CHART frequency	Yes
87	LAB_RESULT_CM	lab_l3_abn	ABN_IND frequency	Yes
88	LAB_RESULT_CM	lab_l3_dcgroup	Frequency by DC_LAB_GROUP	Yes
89	LAB_RESULT_CM	lab_l3_high	NORM_MODIFIER_HIGH frequency	Yes
90	LAB_RESULT_CM	lab_l3_loc	RESULT_LOC frequency	Yes
91	LAB_RESULT_CM	lab_l3_loinc	LAB_LOINC frequency	Yes
92	LAB_RESULT_CM	lab_l3_loinc_result_num	RESULT_NUM descriptive statistics by LAB_LOINC code	No
93	LAB_RESULT_CM	lab_l3_loinc_source	LAB_LOINC and SPECIMEN_SOURCE crosstab for a subset of LOINC codes	Yes
94	LAB_RESULT_CM	lab_l3_low	NORM_MODIFIER_LOW frequency	Yes
95	LAB_RESULT_CM	lab_l3_mod	RESULT_MODIFIER frequency	Yes
96	LAB_RESULT_CM	lab_l3_n	Counts non-missing, distinct, and missing PATID, LAB_RESULT_CM_ID, and ENCOUNTERID	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
97	LAB_RESULT_CM	lab_l3_priority	PRIORITY frequency	Yes
98	LAB_RESULT_CM	lab_l3_px_pxtype	LAB_PX and LAB_PXTYPE crosstab	Yes
99	LAB_RESULT_CM	lab_l3_px_type	LAB_PX_TYPE frequency	Yes
100	LAB_RESULT_CM	lab_l3_qual	RESULT_QUAL frequency	Yes
101	LAB_RESULT_CM	lab_l3_raw_name	RAW_LAB_NAME frequency	Yes
102	LAB_RESULT_CM	lab_l3_rdate_y	RESULT_DATE year frequency	Yes
103	LAB_RESULT_CM	lab_l3_rdate_ym	RESULT_DATE year month frequency	Yes
104	LAB_RESULT_CM	lab_l3_recordc	Frequency of records with varying levels of completeness across variables	Yes
105	LAB_RESULT_CM	lab_l3_snomed	RESULT_SNOMED frequency	Yes
106	LAB_RESULT_CM	lab_l3_source	SPECIMEN_SOURCE frequency	Yes
107	LAB_RESULT_CM	lab_l3_unit	RESULT_UNIT frequency	Yes
108	MED_ADMIN	medadm_l3_doseadm	Descriptive statistics for MEDADMIN_DOSE_ADM	No
109	MED_ADMIN	medadm_l3_doseadmunit	MEDADMIN_DOSE_ADMIN_UNIT frequency	Yes
110	MED_ADMIN	medadm_l3_n	Counts MEDADMINID and PATID	Yes
111	MED_ADMIN	medadm_l3_route	MEDADMIN_ROUTE frequency	Yes
112	MED_ADMIN	medadm_l3_source	MEDADMIN_SOURCE frequency	Yes
113	MED_ADMIN	medadm_l3_type	MEDADMIN_TYPE frequency	Yes
114	MED_ADMIN	medadm_l3_sdate_y	MEDADMIN_ START_DATE year frequency	Yes
115	MED_ADMIN	medadm_l3_sdate_ym	MEDADMIN_ START_DATE year month frequency	Yes
116	MED_ADMIN	medadm_l3_code_type	MEDADMIN_TYPE and MEDADMIN_CODE crosstab	Yes
117	MULTIPLE	datamart_all	DataMart metadata including variable names, variable lengths, data types and number of observations. Used to assess conformance to the required SAS structure for the PCORnet Common Data Model (CDM) v3.1.	Yes
118	MULTIPLE	elapsed_main	Displays the query start time, query end time, and query run time for each table created by the	No

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
			data_curation_main program, the cumulative run time for the program and the dataset loading time.	
119		elapsed_lab	Displays the query start time, query end time, and query run time for each table created by the data_curation_lab program, the cumulative run time for the program and the dataset loading time.	No
120		elapsed_xtbl	Displays the query start time, query end time, and query run time for each table created by the data_curation_xtbl program, the cumulative run time for the program and the dataset loading time. The DATAMART_ALL table is not included because it is just a print.	No
121	MULTIPLE	xtbl_l3_dash1	Counts the number of patients with any VITAL record with a populated MEASURE_DATE and a diagnosis record with a populated ADMIT_DATE and DX during the designated period prior to the maximum DIAGNOSIS.ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is substituted.	Yes
122	MULTIPLE	xtbl_l3_dash2	Counts the number of patients with any VITAL record with a populated MEASURE_DATE and a DIAGNOSIS record with a populated DX and ADMIT_DATE and either a PRESCRIBING record with a populated RXNORM_CUI and RX_START_DATE *or* a DISPENSING record with a populated DISPENSE_DATE and NDC during the designated period of time prior to the maximum DIAGNOSIS.ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is substituted.	Yes
123	MULTIPLE	xtbl_l3_dash3	Counts the number of patients with any VITAL record with a populated MEASURE_DATE and a DIAGNOSIS record with a populated DX and ADMIT_DATE and either (a PRESCRIBING record with a populated RXNORM_CUI and RX_ORDER_DATE *or* a DISPENSING record with a populated DISPENSE_DATE and NDC) and a LAB_RESULT_CM record and RESULT_DATE during the designated period of time prior to the maximum	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
			DIAGNOSIS.ADMIT_DATE. If the maximum ADMIT_DATE is in the future, the current date is substituted.	
124	MULTIPLE	xtbl_l3_date_logic	Identifies illogical relationships between BIRTH_DATE, DEATH_DATE, and key dates in other tables	Yes
124	MULTIPLE	xtbl_l3_dates	Descriptive statistics and counts of records with future dates or dates prior to January 2010 for all date fields.	Yes for record counts; No for descriptive statistics
126	MULTIPLE	xtbl_l3_lab_enctype	# of records and patients with lab records by encounter type.	Yes
127	MULTIPLE	xtbl_l3_metadata	HARVEST fields; maximum refresh date; query package; response date; low cell count threshold; operating system; SAS version and packages; SAS datastore (data or views); and query run time. There should only be 1 record in this table. The DATAMARTID and REFRESH_MAX fields are used extensively throughout the query package.	Yes
128	MULTIPLE	xtbl_l3_mismatch	Counts the number of records where there is a mismatch between a parent and child table. These checks include ENCOUNTERIDs that are not in the ENCOUNTER table; PATIDs that are not in the DEMOGRAPHIC table; PROVIDERIDs that are not in the PROVIDER table; and discordance in the fields that are replicated from the ENCOUNTER table to the PROCEDURES and DIAGNOSIS tables.	Yes
129	MULTIPLE	xtbl_l3_non_unique	Identify encounters which are associated with more than 1 patient (PATID) in the same table	Yes
130	MULTIPLE	xtbl_l3_pres_enctype	# of records and patients with prescribing records by encounter type.	Yes
131	MULTIPLE	xtbl_l3_times	Descriptive statistics for all time fields.	No
132	MULTIPLE	xtbl_l3_race_enc	# of records and patients by RACE among patients with at least 1 encounter after 2009(from 2010)	Yes
133	OBS_CLIN	obsclin_l3_n	Counts OBSCLINID and PATID	Yes
134	OBS_CLIN	obsclin_l3_code_type	OBSCLIN_TYPE and OBSCLIN_CODE crosstab	Yes
135	PCORNET_TRIAL	trial_l3_n	Counts PATID, TRIALID, PARTICIPANTID, and TRIAL_KEY	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
136	PRESCRIBING	pres_l3_basis	RX_BASIS frequency	Yes
137	PRESCRIBING	pres_l3_dispaswrtn	RX_DISPENSE_AS_WRITTEN frequency	Yes
138	PRESCRIBING	pres_l3_freq	RX_FREQUENCY frequency	Yes
139	PRESCRIBING	pres_l3_n	Counts non-missing, distinct, and missing PATID, PRESCRIBINGID, ENCOUNTERID, and RX_PROVIDERID	Yes
140	PRESCRIBING	pres_l3_odate_y	RX_ORDER_DATE year frequency	Yes
141	PRESCRIBING	pres_l3_odate_ym	RX_ORDER_DATE year month frequency	Yes
142	PRESCRIBING	pres_l3_prnflag	RX_PRN_FLAG frequency	Yes
143	PRESCRIBING	pres_l3_rxcui	RXCUI frequency	Yes
144	PRESCRIBING	pres_l3_rxcui_rxsup	Descriptive statistics for RX_DAYS_SUPPLY by RXNORM_CUI	No
145	PRESCRIBING	pres_l3_rxcui_tier	RXNORM_CUI frequency by tier of term type	No
146	PRESCRIBING	pres_l3_rxdoseform	RX_DOSE_FORM frequency	Yes
147	PRESCRIBING	pres_l3_rxdoseodr_dist	Descriptive statistics for RX_DOSE_ORDERED	No
148	PRESCRIBING	pres_l3_rxdoseodrunit	RX_DOSE_ORDERED_UNIT frequency	Yes
149	PRESCRIBING	pres_l3_rxqty_dist	Descriptive statistics for RX_QUANTITY	No
150	PRESCRIBING	pres_l3_rxrefill_dist	Descriptive statistics for RX_REFILLS	No
151	PRESCRIBING	pres_l3_route	RX_ROUTE frequency	Yes
152	PRESCRIBING	pres_l3_source	RX_SOURCE frequency	Yes
153	PRESCRIBING	pres_l3_rawrxmed	RAW_RX_MED_NAME frequency	Yes
154	PRESCRIBING	pres_l3_supdist2	Record count by category of RX_DAYS_SUPPLY	Yes
155	PRO_CM	procm_l3_cat	PRO_CAT frequency	Yes
156	PRO_CM	Procm_l3_itemfullname	PRO_ITEM_FULLNAME frequency	Yes
157	PRO_CM	procm_l3_loinc	PRO_LOINC frequency	Yes
158	PRO_CM	procm_l3_itemnm	PRO_ITEM_NAME frequency	Yes
159	PRO_CM	procm_l3_measure_fullname	PRO_MEASURE_FULLNAME frequency	Yes
160	PRO_CM	procm_l3_measurenm	PRO_MEASURE_NAME frequency	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
161	PRO_CM	procm_l3_method	PRO_METHOD frequency	Yes
162	PRO_CM	procm_l3_mode	PRO_MODE frequency	Yes
163	PRO_CM	procm_l3_n	Counts PRO_CM_ID, PATID, and ENCOUNTERID	Yes
164	PRO_CM	procm_l3_pdate_y	PRO_DATE year frequency	Yes
165	PRO_CM	procm_l3_pdate_ym	PRO_DATE year month frequency	Yes
166	PRO_CM	PROCM_L3_TYPE	PRO_TYPE FREQUENCY	Yes
167	PROCEDURES	pro_l3_adate_y	ADMIT_DATE year frequency	Yes
168	PROCEDURES	pro_l3_adate_ym	ADMIT_DATE year month frequency	Yes
169	PROCEDURES	pro_l3_enctype	ENC_TYPE frequency	Yes
170	PROCEDURES	pro_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab	Yes
171	PROCEDURES	pro_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and PROCEDURESID	Yes
172	PROCEDURES	pro_l3_ppx	PPX FREQUENCY	Yes
173	PROCEDURES	pro_l3_px	PX frequency	Yes
174	PROCEDURES	pro_l3_px_pxtype	PX and PX_TYPE crosstab	Yes
175	PROCEDURES	pro_l3_pxdate_y	PX_DATE year frequency	Yes
176	PROCEDURES	pro_l3_pxsource	PX_SOURCE frequency	Yes
177	PROCEDURES	pro_l3_pxtype_adate_y	PX_TYPE and ADMIT_DATE year crosstab	Yes
178	PROCEDURES	pro_l3_pxtype_enctype	PX_TYPE and ENC_TYPE crosstab	Yes
179	PROVIDER	prov_l3_n	Counts PROVIDERID and PROVIDER_NPI	Yes
180	PROVIDER	prov_l3_npiflag	PROVIDER_NPI_FLAG frequency	Yes
181	PROVIDER	prov_l3_specialty	PROVIDER_SPECIALTY_PRIMARY frequency	Yes
182	PROVIDER	prov_l3_specialty_group	PROVIDER_SPECIALTY_PRIMARY group frequency	Yes
183	PROVIDER	prov_l3_sex	PROVIDER_SEX frequency	Yes
184	VITAL	vit_l3_bmi	BMI frequency	Yes
185	VITAL	vit_l3_bp_position_type	BP_POSITION_TYPE frequency	Yes

ID	PCORnet Table(s)	Output table	Output table description	Low cell count threshold?
186	VITAL	vit_l3_dash1	Counts the number of patients with any vital record with a populated MEASURE_DATE during the designated period prior to the maximum MEASURE_DATE. If the maximum MEASURE_DATE is in the future, the current date is substituted.	Yes
187	VITAL	vit_l3_diastolic	DIASTOLIC frequency	Yes
188	VITAL	vit_l3_ht	HT frequency	Yes
189	VITAL	vit_l3_ht_dist	Descriptive statistics for HT	No
190	VITAL	vit_l3_mdate_y	MEASURE_DATE year frequency	Yes
191	VITAL	vit_l3_mdate_ym	MEASURE_DATE year month frequency	Yes
192	VITAL	vit_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and VITALID	Yes
193	VITAL	vit_l3_smoking	SMOKING frequency	Yes
194	VITAL	vit_l3_systolic	SYSTOLIC frequency	Yes
195	VITAL	vit_l3_tobacco	TOBACCO frequency	Yes
196	VITAL	vit_l3_tobacco_type	TOBACCO_TYPE frequency	Yes
197	VITAL	vit_l3_vital_source	VITAL_SOURCE frequency	Yes
198	VITAL	vit_l3_wt	WT frequency	Yes
199	VITAL	vit_l3_wt_dist	Descriptive statistics for WT	No

V. Empirical Data Curation Report

The data from all data curation query output tables except for the 3 *elapsed* datasets is compiled into a normalized dataset. The Empirical Data Curation (EDC) Report is produced from this dataset. The EDC Report summarizes key information from the query ouput tables and identifies exceptions to the PCORnet Data Checks v5. The report includes a table of contents, a data check exception summary, and up to 39 tables and charts, depending upon the number of CDM tables which are populated. The table of contents and table requirements are shown below.

Section	Table	Table Description	Data Check
n/a	n/a	PCORnet Empirical Data Curation Report Table of Contents	n/a
n/a	n/a	Data Check Exception Summary	n/a
Section I: Descriptive Information	Table IA	Demographic Summary	n/a
	Table IB	Potential Pools of Patients	3.04, 3.05
	Table IC	Height, Weight, Body Mass Index (BMI) and Smoking	n/a
	Chart IA	Vital Measures by Measurement Date, Past 5 Years	n/a
	Table ID	Records, Patients, Encounters, and Date Ranges by Table	n/a
	Table IE	Records Per Table by Encounter Type	n/a
	Chart IB	Trend in Encounters by Admit Date and Encounter Type, Past 5 Years	n/a
	Chart IC	Trend in Institutional Encounters by Discharge Date and Encounter Type, Past 5 Years	n/a
	Table IF	Date Obfuscation or Imputation	n/a
	Table IG	Lab Results for Selected Lab Tests	n/a
	Chart ID	Trend in Laboratory Results by Result Date, Past 5 Years	n/a
	Chart IE	Trend in Prescribed Medications by Rx Order Date, Past 5 Years	n/a
	Chart IF	Trend in Dispensed Medications by Dispense Date, Past 5 Years	n/a
	Chart IG	Trend in Administered Medication Records by Start Date, Past 5 Years	n/a
	Chart IH	Trend in Condition Records by Report Date, Past 5 Years	n/a
Section II: Data Model Conformance	Table IIA	Primary Key Errors	1.05
	Table IIB	Values Outside of Common Data Model (CDM) Specifications	1.06
	Table IIC	Non-Permissible Missing Values	1.07
	Table IID	Diagnostic Errors	1.01- 1.04
	Table IIE	Orphan Records, Replication Errors and Encounter Duplication	1.08-1.12
Section III: Data Plausibility	Table IIIA	Future Dates	2.01
	Table IIIB	Records with Extreme Values	2.02
	Table IIIC	Illogical Dates	2.03
	Table IIID	Encounters Per Visit and Per Patient	2.04
	Table IIIE	Laboratory Result Specimen Source Discrepancies	2.05
	Table IIIF	Quantitative Lab Result Outliers, Selected Tests	2.06
Section IV: Data Completeness and Plausibility	Table IVA	Diagnosis Records Per Encounter, Overall and by Encounter Type	3.01
	Chart IVA	Diagnosis Records Per Encounter by Admit Date and Encounter Type, Past 5 Years	n/a
	Table IVB	Procedure Records Per Encounter, Overall and by Encounter Type	3.02
	Chart IVB	Procedure Records Per Encounter by Admit Date and Encounter Type, Past 5 Years	n/a
	Table IVC	Missing or Unknown Values, Required Tables	3.03
	Table IVD	Missing or Unknown Values, Optional Tables	3.03
	Table IVE	Principal Diagnoses for Institutional Encounters	3.06
	Table IVF	Data Latency and Completeness of Encounter, Diagnosis and Procedure Data, Past 2 Years	3.07
	Table IVG	Data Latency and Completeness of Vital, Prescription, and Lab Data, Past 2 Years	3.11
	Table IVH	RXNORM Term Type Mapping	3.08
	Table IVI	Laboratory Result Data Completeness	3.09, 3.10, 3.12

VI. Program Package File Structure

Each request package distributed by PCORnet's DRN OC contains several sub-folders to organize program inputs and outputs. The subfolders must reside within an outer folder labeled with the query name designated in the DRN Query Tool, e.g. PROD_P02_DQA_FDPRO_DCQ_NSD1_c003_r001.
The subfolders are as follows:

- ***dmlocal***: Contains output generated by the request that should be saved locally but not returned to DRN OC. Output may be used locally or to facilitate follow-up queries.
- ***drnoc***: Contains output generated by the request that should be returned to the DRN OC via the PCORnet DRN Query Tool. These tables consist of aggregate data/output and transfer the minimum required to answer the analytic question.
- ***sasprograms***: Contains the master SAS program that must be edited and then executed locally.
- ***infolder****:* Contains all input programs and files needed to execute the request. These are created for each request by the DRN OC Data Curation team; the contents of this folder should not be edited.

VII. Files Included in Query Request

The following files are included in the Zip file distributed with the query request.

Cycle 5 Data Curation Query Package Checklist.pdf
Data Curation Query Package v4.12 Work Plan.pdf
Refresh_comparison_tool.xlsx

infolder

1. data_curation_query_base.sas
2. data_curation_query_lab.sas
3. data_curation_query_main.sas
4. data_curation_query_xtbl.sas
5. dc_reference.cpt (includes 15 SAS datasets: lab_loinc_ref, lab_dcgroup_ref, rxnorm_cui_ref, _qual, _route, _unit, facility_type, patient_pref_language_spoken, payer_type_, rx_dose_form , provider_primary_specialty, short_dose_x_unit, short_result_unit, short_specimen_source and specimen_source)
6. edc_prep.sas
7. edc_report.sas
8. edc_template.sas
9. edc_reference.cpt (includes 8 SAS datasets: dc_summary, dc_tables, footers, headers, missingness, required_structure, toc, and q2_stat_dlg_loinc)
10. normalization.sas
11. pcornet_code_errors.sas

sas_programs

1. 01_run_code_errors.sas
2. 02_run_queries.sas
3. 03_run_edc_prep.sas
4. 04_run_edc_report.sas

VIII. Output Files

Local files (*dmlocal* folder)

Produced by	File description
pcornet_code_errors.sas	code_error_summary (SAS dataset and csv file) *Up to 5 error files, if relevant code types are present:* baddx (SAS dataset and csv file) badloinc (SAS dataset and csv file) badndc (SAS dataset and csv file) badpx (SAS dataset and csv file) badrxcui (SAS dataset and csv file)
data_curation_query_base.sas; data_curation_query_main.sas; data_curation_query_lab.sas; data_curation_query_xtbl.sas;	199 output tables (SAS dataset and csv file). See section IV. Set.log. This file contains the output results of the PROC SETINIT procedure. This information is used to populate XTBL_L3_METADATA
normalization.sas	([DATAMARTID]_[RESPONSE_DATE]_dc_norm.sas7dat

Files to be returned to the DRN OC (*drnoc* folder). DMID=DataMart ID; DATE=response date.

File name	Program produced by	File description
[DMID]_[DATE]_pcornet_code_errors.log	pcornet_code_errors.sas	The SAS log file for the program. Must be checked for errors and warnings.
[DMID]_[DATE]_Potential_Code_Errors.pdf	pcornet_code_errors.sas	The report produced by the program.
If all data curation queries are run at once [DMID]_[DATE]_data_curation_all.cpt **or** *If data curation queries are run separately* [DMID]_[DATE]_data_curation_main.cpt [DMID]_[DATE]_data_curation_lab.cpt [DMID]_[DATE]_data_curation_xtbl.cpt	data_curation_query_base.sas; data_curation_query_main.sas; data_curation_query_lab.sas; data_curation_query_xtbl.sas	A SAS transport file (similar to a Zip file) containing all the SAS datasets produced by the program(s).
If all data curation queries are run at once [DMID]_[DATE]_data_curation_all.pdf **or** *If data curation queries are run separately* [DMID]_[DATE]_data_curation_main.pdf [DMID]_[DATE]_data_curation_lab.pdf [DMID]_[DATE]_data_curation_xtbl.pdf	data_curation_query_base.sas; data_curation_query_main.sas; data_curation_query_lab.sas; data_curation_query_xtbl.sas	A PDF containing a partial print of the output tables for the benefit of non-programmers. For ease of readibility, it excludes the first three columns of the table (DataMartID, Response Date, and Query Package), and large tables are limited to the 100 most frequent observations. Empty tables are not printed.
If all data curation queries are run at once [DMID]_[DATE]_data_curation_all.log [DMID]_[DATE]_data_curation_base.log **or** *If data curation queries are run separately* [DMID]_[DATE]_data_curation_base.log [DMID]_[DATE]_data_curation_main.log [DMID]_[DATE]_data_curation_lab.log [DMID]_[DATE]_data_curation_xtbl.log	data_curation_query_base.sas; data_curation_query_main.sas; data_curation_query_lab.sas; data_curation_query_xtbl.sas	The SAS log files for the programs. Must be checked for errors and warnings.

File name	Program produced by	File description
[DMID]_[DATE]_dc_norm.cpt	normalization.sas	A SAS transport file (similar to a Zip file) containing a normalized version of all data curation query output tables except the 3 *elapsed* datasets.
[DMID]_[DATE]_normalization.log	normalization.sas	The SAS log file for the program. Must be checked for errors and warnings.
[DMID]_[DATE]_ EDCRPT.log	edc_report.sas	The SAS log file for the program. Must be checked for errors and warnings.
[DMID]_[DATE]_EDCRPT.rtf	edc_report.sas	The report produced by the program.

IX. Responding to the Query Package

1) Prepare for the query as instructed in the Query Package Checklist.
2) Go to the DataMart Client and open the query package. Extract the contents, save them locally as described in Sections VI, and create the *drnoc* and *dmlocal* folders.
3) If the CDM data is stored in database tables, do the following. Otherwise proceed to Step 4.
   a) Consider compressing large tables to improve query response time.
   b) Open the 4 programs in the *sasprograms* folder and the **data_curation_query_base.sas** program in *infolder***.** Modify the user inputs to use appropriate SAS/ACCESS options on a LIBNAME statement so that the program knows where to find the database tables. The examples below show connection information for an Oracle database; connecting to other database systems may require different connection information.
      (1) In the 4 programs in the *sasprograms* folder, edit the `dpath` variable to include the appropriate database connection information. Be sure to use the `%str()` function to mask the embedded equal signs. For example: `%let dpath = %str(oracle user=”myuserid” orapw=mypasswd path=mydbname schema=myschema);`
      (2) In the **data_curation_query_base.sas** program edit the `libname pcordata` statement on Line 32 to remove the quotation marks, as: `libname pcordata &dpath;`
4) Open each of the 4 programs in the *sasprograms* folder and modify the directory paths and inputs as instructed below. For reasons of compatibility and standardization, directory paths must meet the following criteria:

   - DO use forward slashes (e.g. /) which are always compatible on both UNIX and WINDOWS.
   - DO use end of path separators (e.g. /xyz/ and not /xyz) which are assumed by many programs.
   - DO use beginning of path separators (e.g. /xyz) on UNIX.
   - DO NOT use beginning of path separators on WINDOWS (e.g. P:/xyz not /P:/xyz).
   - DO NOT surround directory paths with quotes (e.g. /xyz/ not "/xyz/").

   a) After `%let dpath=`, provide the directory path where your PCORnet CDM SAS data is located.
   b) After `%let qpath=`, provide the outer folder where the required folders were created.
   c) In the **02_run_queries.sas** program, populate the following user inputs.
      i) After `%let threshold=`, provide the low cell count threshold value (default is 11).
      ii) After `%let _grp,` provide one of the query group process option: all, main, lab, or xtbl. “all” will run the data curation query programs as a batch; this option is recommended if you are not an experienced SAS user. Running the 3 programs sequentially is recommended for partners who have long run times and want to be able to remediate issues which only affect certain programs more easily. To do so, select one of the 3 options (main, lab, or xtbl) for the initial run and then repeat with the remaining options as instructed in Step 6. Please note that you must use only one of these choices (“all” or 3 separate runs) for your final submission.
      iii) After `%let lookback=`, leave the default value of 20 unless you are instructed to change it.
5) Open the **01_run_code_errors.sas** program. Run the program and review the log and output as instructed in the Query Package Checklist.
6) Open the **02_run_queries.sas** program. Run the program, either 1 time if you selected `%let _grp=all`, or 3 times in the sequence you desire (e.g. first with `lab`, next with `xtbl`, and finally with `main`). As it processes each query program, the program will print results to a PDF file, create permanent SAS datasets for each output table, and import all permanent SAS datasets into a SAS transport file. Review the logs and output (see section VIII) as instructed in the Query Package Checklist. You may wish to review the output tables which could contain required data check exceptions before proceeding (e.g. from `xtbl`, review XTBL_L3_MISMATCH and XTBL_L3_NONUNIQUE).
7) Open and run the **03_run_edc_prep.sas** program. All data curation datasets must be present before proceeding with the EDC portion of this package. To ensure that this is the case, review the output in the

result window. If necessary, rectify problems by returning to the **02_run_queries.sas** program to create the missing datasets.

8) Open and run the **04_run_edc_report.sas** program. This program will first call the **normalization.sas** program to create a dataset which combines all the data curation query output tables and then call **edc_report.sas** to create the EDC report from the normalized dataset and print results to a RTF file. Review the logs and output as instructed in the Query Package Checklist.
9) Update the online ETL Annotated Dictionary as instructed in the Query Package Checklist.
10) If desired, verify the contents of the cpt files by using a `proc cimport` statement, as shown in the example below:

```
libname outlib 'F:/pcornet/myproject/';
%let infile= 'F:/pcornet/myproject/T1D3_20151101_data_curation.cpt';
proc cimport infile=&infile library=outlib;
run;
```

11) Return the files in the *drnoc* folder (see section VIII) and the signed Checklist as instructed in the Query Package Checklist. If there is more than one version of the PDF and log files in this folder, only return the ones with the most recent date.

X. Table Shells: PCORnet Code Errors

bad_code_summary

Field	Description
Table	Diagnosis, Dispensing, Lab_Result_CM, Prescribing or Procedures
Code_type	09,10, CH, NDC, LAB_LOINC, or RXNORM_CUI
Bad records	Count of potentially bad records
Total records	Count of total records
Pct	The percent of records that are bad records.

baddx

Field	Description
Diagnosisid	
Dx_type	09 or 10
Dx	
code_clean	Uppercase version of dx which discards decimals, dashes, commas, spaces and trailing blanks
code_length	Length of code_clean
anyalpha	The position of the first alphabetical character; 0 if there are no alphabetic characters
anydigit	The position of the first numeric character; 0 if there are no numeric characters
unexp_length	Error indicator. Yes=1; No=0; null=not applicable.
unexp_alpha	Error indicator. Yes=1; No=0; null=not applicable.
unexp_string	Error indicator. Yes=1; No=0; null=not applicable.
unexp_numeric	Error indicator. Yes=1; No=0; null=not applicable.

badpx

Field	Description
proceduresid	
px_type	09, 10, or CH
px	
code_clean	Uppercase version of px which discards decimals, dashes, commas, spaces and trailing blanks
code_length	Length of code_clean
anyalpha	The position of the first alphabetical character; 0 if there are no alphabetic characters
anydigit	The position of the first numeric character; 0 if there are no numeric characters
unexp_length	Error indicator. Yes=1; No=0; null=not applicable.
unexp_string	Error indicator. Yes=1; No=0; null=not applicable.
unexp_numeric	Error indicator. Yes=1; No=0; null=not applicable.
unexp_alpha	Error indicator. Yes=1; No=0; null=not applicable.

badrxcui

Field	Description
prescribingid	
rxnorm_cui	
code_clean	Uppercase version of rxnorm_cui which discards decimals, dashes, commas, spaces and trailing blanks
code_length	Length of code_clean
anyalpha	The position of the first alphabetical character; 0 if there are no alphabetic characters
anydigit	The position of the first numeric character; 0 if there are no numeric characters
unexp_length	Error indicator. Yes=1; No=0; null=not applicable.
unexp_alpha	Error indicator. Yes=1; No=0; null=not applicable.
unexp_string	Error indicator. Yes=1; No=0; null=not applicable.
unexp_numeric	Error indicator. Yes=1; No=0; null=not applicable.

badndc

Field	Description
dispensingid	
ndc	
code_clean	Uppercase version of ndc which discards spaces and trailing blanks
code_length	Length of code_clean
anyalpha	The position of the first alphabetical character; 0 if there are no alphabetic characters
anydigit	The position of the first numeric character; 0 if there are no numeric characters
unexp_length	Error indicator. Yes=1; No=0; null=not applicable.
unexp_alpha	Error indicator. Yes=1; No=0; null=not applicable.
unexp_string	Error indicator. Yes=1; No=0; null=not applicable.
unexp_numeric	Error indicator. Yes=1; No=0; null=not applicable.

badloinc

Field	Description
lab_result_cm_id	
lab_loinc	
code_clean	Uppercase version of lab_loinc which discards trailing blanks
code_length	Length of code_clean
anyalpha	The position of the first alphabetical character; 0 if there are no alphabetic characters
anydigit	The position of the first numeric character; 0 if there are no numeric characters
unexp_alpha	Error indicator. Yes=1; No=0; null=not applicable.
unexp_length	Error indicator. Yes=1; No=0; null=not applicable.
unexp_string	Error indicator. Yes=1; No=0; null=not applicable.
unexp_numeric	Error indicator. Yes=1; No=0; null=not applicable.

XI. Table Shells: DEMOGRAPHIC Queries

dem_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC	PATID			

dem_l3_ageyrsdist1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

dem_l3_ageyrsdist2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	AGE_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<0 yrs		
D1TEST	29OCT2018	DC V4.12	0-1 yrs		
D1TEST	29OCT2018	DC V4.12	2-4 yrs		
D1TEST	29OCT2018	DC V4.12	5-9 yrs		
D1TEST	29OCT2018	DC V4.12	10-14 yrs		
D1TEST	29OCT2018	DC V4.12	15-18 yrs		
D1TEST	29OCT2018	DC V4.12	19-21 yrs		
D1TEST	29OCT2018	DC V4.12	22-44 yrs		
D1TEST	29OCT2018	DC V4.12	45-64 yrs		
D1TEST	29OCT2018	DC V4.12	65-74 yrs		
D1TEST	29OCT2018	DC V4.12	75-110 yrs		
D1TEST	29OCT2018	DC V4.12	>110 yrs		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

dem_l3_genderdist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	GENDER_IDENTITY	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	DC		
D1TEST	29OCT2018	DC V4.12	F		
D1TEST	29OCT2018	DC V4.12	GQ		
D1TEST	29OCT2018	DC V4.12	M		
D1TEST	29OCT2018	DC V4.12	MU		
D1TEST	29OCT2018	DC V4.12	SE		
D1TEST	29OCT2018	DC V4.12	TF		
D1TEST	29OCT2018	DC V4.12	TM		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dem_l3_hispdist

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	HISPANIC	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	R		
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dem_l3_racedist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RACE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	04		
D1TEST	29OCT2018	DC V4.12	05		
D1TEST	29OCT2018	DC V4.12	06		
D1TEST	29OCT2018	DC V4.12	07		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dem_l3_orientdist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SEXUAL_ORIENTATION	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AS		
D1TEST	29OCT2018	DC V4.12	BI		
D1TEST	29OCT2018	DC V4.12	DC		
D1TEST	29OCT2018	DC V4.12	GA		
D1TEST	29OCT2018	DC V4.12	LE		
D1TEST	29OCT2018	DC V4.12	MU		
D1TEST	29OCT2018	DC V4.12	QS		
D1TEST	29OCT2018	DC V4.12	QU		
D1TEST	29OCT2018	DC V4.12	SE		
D1TEST	29OCT2018	DC V4.12	ST		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dem_l3_sexdist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SEX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	A		
D1TEST	29OCT2018	DC V4.12	F		
D1TEST	29OCT2018	DC V4.12	M		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dem_l3_patpreflang[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PATIENT_PREF_LANGUAGE_SPOKEN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AAR		
D1TEST	29OCT2018	DC V4.12	ABK		
D1TEST	29OCT2018	DC V4.12	ACE		
D1TEST	29OCT2018	DC V4.12	ACH		
D1TEST	29OCT2018	DC V4.12	ADA		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XII. Table Shells: ENCOUNTER Queries

enc_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	PATID			
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	PROVIDERID			
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	FACILITYID			

enc_l3_admsrc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMITTING_SOURCE	RECORD_N	RECORD_ PCT
D1TEST	29OCT2018	DC V4.12	AF		
D1TEST	29OCT2018	DC V4.12	AL		
D1TEST	29OCT2018	DC V4.12	AV		
D1TEST	29OCT2018	DC V4.12	ED		
D1TEST	29OCT2018	DC V4.12	HH		
D1TEST	29OCT2018	DC V4.12	HO		
D1TEST	29OCT2018	DC V4.12	HS		
D1TEST	29OCT2018	DC V4.12	IP		
D1TEST	29OCT2018	DC V4.12	NH		
D1TEST	29OCT2018	DC V4.12	RH		
D1TEST	29OCT2018	DC V4.12	RS		
D1TEST	29OCT2018	DC V4.12	SN		
D1TEST	29OCT2018	DC V4.12	IH		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

enc_l3_enctype_admsrc[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMITTING_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AV	AF		
D1TEST	29OCT2018	DC V4.12	ED	AL		
D1TEST	29OCT2018	DC V4.12	EI	AV		
D1TEST	29OCT2018	DC V4.12	IC	ED		
D1TEST	29OCT2018	DC V4.12	IP	HH		
D1TEST	29OCT2018	DC V4.12	IS	HO		
D1TEST	29OCT2018	DC V4.12	OA	HS		
D1TEST	29OCT2018	DC V4.12	OS	HO		
D1TEST	29OCT2018	DC V4.12	NI	HS		
D1TEST	29OCT2018	DC V4.12	UN	IP		
D1TEST	29OCT2018	DC V4.12	OT	NH		
D1TEST	29OCT2018	DC V4.12	NULL or missing	RH		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	RS		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	SN		
D1TEST	29OCT2018	DC V4.12	AV	IH		
D1TEST	29OCT2018	DC V4.12	AV	NI		
D1TEST	29OCT2018	DC V4.12	UN	UN		
D1TEST	29OCT2018	DC V4.12	IP	OT		
D1TEST	29OCT2018	DC V4.12	AV	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	Values outside of CDM specifications		

enc_l3_adate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

enc_l3_adate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2015_07	
D1TEST	29OCT2018	DC V4.12	2015_08	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enc_l3_enctype_adate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMIT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV	2015_07		
D1TEST	29OCT2018	DC V4.12	ED	2015_08		
D1TEST	29OCT2018	DC V4.12	EI	NULL or missing		
D1TEST	29OCT2018	DC V4.12	IC	2015_09		
D1TEST	29OCT2018	DC V4.12	IP	2015_10		
D1TEST	29OCT2018	DC V4.12	IS	2015_11		
D1TEST	29OCT2018	DC V4.12	OA	NULL or missing		
D1TEST	29OCT2018	DC V4.12	OS	2015_12		
D1TEST	29OCT2018	DC V4.12	NI	2016_01		
D1TEST	29OCT2018	DC V4.12	UN	2016_02		
D1TEST	29OCT2018	DC V4.12	OT	2016_03		
D1TEST	29OCT2018	DC V4.12	NULL or missing	2016_04		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	2016_05		

enc_l3_ddate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2015			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

enc_l3_ddate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2015_07	
D1TEST	29OCT2018	DC V4.12	2015_08	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enc_l3_enctype_ddate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DISCHARGE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV	2004_01		
D1TEST	29OCT2018	DC V4.12	AV	2004_02		
D1TEST	29OCT2018	DC V4.12	AV	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	2004_01		
D1TEST	29OCT2018	DC V4.12	ED	2004_02		
D1TEST	29OCT2018	DC V4.12	ED	NULL or missing		
D1TEST	29OCT2018	DC V4.12	EI	2004_01		
D1TEST	29OCT2018	DC V4.12	EI	2004_02		
D1TEST	29OCT2018	DC V4.12	EI	NULL or missing		
D1TEST	29OCT2018	DC V4.12	NULL or missing	2004_01		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	2004_02		

enc_l3_disdisp

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_DISPOSITION	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	A		
D1TEST	29OCT2018	DC V4.12	E		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

enc_l3_enctype_disdisp

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	DISCHARGE_ DISPOSITION	RECORD_N	RECORD _PCT
D1TEST	29OCT2018	DC V4.12	AV	A		
D1TEST	29OCT2018	DC V4.12	AV	E		
D1TEST	29OCT2018	DC V4.12	AV	NI		
D1TEST	29OCT2018	DC V4.12	AV	UN		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	AV	OT		
D1TEST	29OCT2018	DC V4.12	AV	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	A		
D1TEST	29OCT2018	DC V4.12	ED	E		
D1TEST	29OCT2018	DC V4.12	ED	NI		
D1TEST	29OCT2018	DC V4.12	ED	UN		
D1TEST	29OCT2018	DC V4.12	ED	OT		
D1TEST	29OCT2018	DC V4.12	ED	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	Values outside of CDM specifications		

enc_l3_disstat

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_STATUS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AF		
D1TEST	29OCT2018	DC V4.12	AL		
D1TEST	29OCT2018	DC V4.12	AM		
D1TEST	29OCT2018	DC V4.12	AW		
D1TEST	29OCT2018	DC V4.12	EX		
D1TEST	29OCT2018	DC V4.12	HH		
D1TEST	29OCT2018	DC V4.12	HO		
D1TEST	29OCT2018	DC V4.12	HS		
D1TEST	29OCT2018	DC V4.12	IP		
D1TEST	29OCT2018	DC V4.12	NH		
D1TEST	29OCT2018	DC V4.12	RH		
D1TEST	29OCT2018	DC V4.12	RS		
D1TEST	29OCT2018	DC V4.12	SH		
D1TEST	29OCT2018	DC V4.12	SN		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

enc_l3_enctype_disstat [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DISCHARGE_STATUS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AV	HO		
D1TEST	29OCT2018	DC V4.12	ED	HO		
D1TEST	29OCT2018	DC V4.12	EI	HO		
D1TEST	29OCT2018	DC V4.12	IC	AW		
D1TEST	29OCT2018	DC V4.12	IP	HO		
D1TEST	29OCT2018	DC V4.12	IS	HO		
D1TEST	29OCT2018	DC V4.12	OA	HO		
D1TEST	29OCT2018	DC V4.12	OS	NULL or missing		
D1TEST	29OCT2018	DC V4.12	NI	HH		
D1TEST	29OCT2018	DC V4.12	OT	NI		
D1TEST	29OCT2018	DC V4.12	UN	UN		
D1TEST	29OCT2018	DC V4.12	NULL or missing	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	Values outside of CDM specifications		

enc_l3_drg [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DRG	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	001		
D1TEST	29OCT2018	DC V4.12	150		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

enc_l3_drg_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DRG_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

enc_l3_enctype_drg [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	DRG	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AV	001		
D1TEST	29OCT2018	DC V4.12	AV	150		
D1TEST	29OCT2018	DC V4.12	AV	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	001		
D1TEST	29OCT2018	DC V4.12	ED	150		
D1TEST	29OCT2018	DC V4.12	ED	NULL or missing		

enc_l3_enctype

DATAMARTID	RESPONSE_DATE	QUERY_ PACKAGE	ENCTYPE	RECORD_N	RECORD_PCT	DISTINCT_VISIT_N	DISTINCT_ PATID_N	ELIG_ RECORD_N
D1TEST	29OCT2018	DC V4.12	AV					
D1TEST	29OCT2018	DC V4.12	ED					
D1TEST	29OCT2018	DC V4.12	EI					
D1TEST	29OCT2018	DC V4.12	IC					
D1TEST	29OCT2018	DC V4.12	IP					
D1TEST	29OCT2018	DC V4.12	IS					
D1TEST	29OCT2018	DC V4.12	OA					
D1TEST	29OCT2018	DC V4.12	OS					
D1TEST	29OCT2018	DC V4.12	NI					
D1TEST	29OCT2018	DC V4.12	UN					
D1TEST	29OCT2018	DC V4.12	OT					
D1TEST	29OCT2018	DC V4.12	NULL or missing					
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications					

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

enc_l3_enctype_adate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	ADMIT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV	2004		
D1TEST	29OCT2018	DC V4.12	AV	2005		
D1TEST	29OCT2018	DC V4.12	AV	2006		
D1TEST	29OCT2018	DC V4.12	AV	2007		
D1TEST	29OCT2018	DC V4.12	AV	2008		
D1TEST	29OCT2018	DC V4.12	AV	2009		
D1TEST	29OCT2018	DC V4.12	ED	NULL or missing		
D1TEST	29OCT2018	DC V4.12	ED	2004		
D1TEST	29OCT2018	DC V4.12	ED	2005		
D1TEST	29OCT2018	DC V4.12	ED	2006		
D1TEST	29OCT2018	DC V4.12	ED	2007		
D1TEST	29OCT2018	DC V4.12	ED	2008		
D1TEST	29OCT2018	DC V4.12	ED	2009		
D1TEST	29OCT2018	DC V4.12	ED	NULL or missing		

enc_l3_dash1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

enc_l3_dash2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

enc_l3_payertype1 [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PAYER_TYPE_PRIMARY_GRP	PAYER_TYPE_PRIMARY	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	MR	1			
D1TEST	29OCT2018	DC V4.12	MR	11			
D1TEST	29OCT2018	DC V4.12	OG	2			
D1TEST	29OCT2018	DC V4.12	⋮	⋮			
D1TEST	29OCT2018	DC V4.12	NI	NI			
D1TEST	29OCT2018	DC V4.12	OT	OT			
D1TEST	29OCT2018	DC V4.12	UN	UN			
D1TEST	29OCT2018	DC V4.12	NULL or missing	NULL or missing			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	Values outside of CDM specifications			

enc_l3_payertype2 [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PAYER_TYPE_SECONDARY_GRP	PAYER_TYPE_SECONDARY	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	MR	1			
D1TEST	29OCT2018	DC V4.12	MR	11			
D1TEST	29OCT2018	DC V4.12	OG	2			
D1TEST	29OCT2018	DC V4.12	⋮	⋮			
D1TEST	29OCT2018	DC V4.12	NI	NI			
D1TEST	29OCT2018	DC V4.12	OT	OT			
D1TEST	29OCT2018	DC V4.12	UN	UN			
D1TEST	29OCT2018	DC V4.12	NULL or missing	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	Values outside of CDM specifications			

enc_l3_facilitytype [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	FACILITY_TYPE_GRP	FACILITY_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	OTHER_CARE_SITE	ADULT_DAY_CARE_CENTER			
D1TEST	29OCT2018	DC V4.12	OTHER_OP_CARE_SITE	AMBULANCE_BASED_CARE			
D1TEST	29OCT2018	DC V4.12	CL/CENTER_AM_OP_CARE	AMBULATORY_CARE_SITE_OTHER_			
D1TEST	29OCT2018	DC V4.12	⋮	⋮			
D1TEST	29OCT2018	DC V4.12	NI	NI			
D1TEST	29OCT2018	DC V4.12	UN	UN			
D1TEST	29OCT2018	DC V4.12	OT	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	Values outside of CDM specifications			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XIII. Table Shells: DIAGNOSIS Queries

dia_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	PATID			
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	DIAGNOSISID			
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	PROVIDERID			

dia_l3_dx [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX		
D1TEST	29OCT2018	DC V4.12	XXX		
D1TEST	29OCT2018	DC V4.12	XXX.X		
D1TEST	29OCT2018	DC V4.12	VXX.X		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX.XX		
D1TEST	29OCT2018	DC V4.12	XXX		
D1TEST	29OCT2018	DC V4.12	XXX		
D1TEST	29OCT2018	DC V4.12	XXX.X		
D1TEST	29OCT2018	DC V4.12	VXX.X		
D1TEST	29OCT2018	DC V4.12	XXX		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

dia_l3_dx_dxtype [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX	DX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXX	09		
D1TEST	29OCT2018	DC V4.12	XXX	10		
D1TEST	29OCT2018	DC V4.12	XXX	11		
D1TEST	29OCT2018	DC V4.12	XXX	SM		
D1TEST	29OCT2018	DC V4.12	XXX	NI		
D1TEST	29OCT2018	DC V4.12	XXX	UN		
D1TEST	29OCT2018	DC V4.12	XXX	OT		
D1TEST	29OCT2018	DC V4.12	XXX	NULL or missing		
D1TEST	29OCT2018	DC V4.12	XXX	Values outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	NULL or missing			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

dia_l3_dxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AD		
D1TEST	29OCT2018	DC V4.12	DI		
D1TEST	29OCT2018	DC V4.12	FI		
D1TEST	29OCT2018	DC V4.12	IN		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dia_l3_dxtype_dxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	DX_SOURCE	RECORD_N
D1TEST	29OCT2018	DC V4.12	09	AD	
D1TEST	29OCT2018	DC V4.12	09	DI	
D1TEST	29OCT2018	DC V4.12	09	FI	
D1TEST	29OCT2018	DC V4.12	09	IN	
D1TEST	29OCT2018	DC V4.12	09	NI	
D1TEST	29OCT2018	DC V4.12	09	UN	
D1TEST	29OCT2018	DC V4.12	09	OT	
D1TEST	29OCT2018	DC V4.12	09	NULL or missing	
D1TEST	29OCT2018	DC V4.12	09	Values outside of CDM specifications	

dia_l3_PDX

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PDX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	P		
D1TEST	29OCT2018	DC V4.12	S		
~~D1TEST~~	~~29OCT2018~~	~~DC V4.12~~	~~X~~	-	-
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

dia_l3_PDX_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PDX	ENC_TYPE	RECORD_N	DISTINCT_ ENCID_N	DISTINCT_ PATID_N
D1TEST	29OCT2018	DC V4.12	P	AV			
D1TEST	29OCT2018	DC V4.12	P	ED			
D1TEST	29OCT2018	DC V4.12	P	EI			
D1TEST	29OCT2018	DC V4.12	P	IC			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	P	IP			
D1TEST	29OCT2018	DC V4.12	P	IS			
D1TEST	29OCT2018	DC V4.12	P	OA			
D1TEST	29OCT2018	DC V4.12	P	OS			
D1TEST	29OCT2018	DC V4.12	P	NI			
D1TEST	29OCT2018	DC V4.12	P	UN			
D1TEST	29OCT2018	DC V4.12	P	OT			
D1TEST	29OCT2018	DC V4.12	P	NULL or missing			
D1TEST	29OCT2018	DC V4.12	P	Values outside of CDM specifications			

dia_l3_pdxgrp_enctype

This query counts the number of distinct encounters in the DIAGNOSIS table by the presence or absence of any diagnosis with PDX=P. P means that the encounter has at least 1 principle diagnosis; U means that the encounters principle diagnosis is unknown.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PDXGRP	ENC_TYPE	DISTINCT_ENCID_N
D1TEST	29OCT2018	DC V4.12	P	AV	
D1TEST	29OCT2018	DC V4.12	P	ED	
D1TEST	29OCT2018	DC V4.12	P	EI	
D1TEST	29OCT2018	DC V4.12	P	IC	
D1TEST	29OCT2018	DC V4.12	P	IP	
D1TEST	29OCT2018	DC V4.12	P	IS	
D1TEST	29OCT2018	DC V4.12	P	OA	
D1TEST	29OCT2018	DC V4.12	P	OS	
D1TEST	29OCT2018	DC V4.12	P	NI	
D1TEST	29OCT2018	DC V4.12	P	UN	
D1TEST	29OCT2018	DC V4.12	P	OT	
D1TEST	29OCT2018	DC V4.12	P	NULL or missing	
D1TEST	29OCT2018	DC V4.12	P	Values outside of CDM specifications	
D1TEST	29OCT2018	DC V4.12	U	AV	
D1TEST	29OCT2018	DC V4.12	U	ED	
D1TEST	29OCT2018	DC V4.12	U	EI	
D1TEST	29OCT2018	DC V4.12	U	IC	
D1TEST	29OCT2018	DC V4.12	U	IP	
D1TEST	29OCT2018	DC V4.12	U	IS	
D1TEST	29OCT2018	DC V4.12	U	OA	
D1TEST	29OCT2018	DC V4.12	U	OS	
D1TEST	29OCT2018	DC V4.12	U	NI	
D1TEST	29OCT2018	DC V4.12	U	UN	
D1TEST	29OCT2018	DC V4.12	U	OT	
D1TEST	29OCT2018	DC V4.12	U	NULL or missing	
D1TEST	29OCT2018	DC V4.12	U	Values outside of CDM specifications	

dia_l3_adate_y

DATAMARTID	RESPONSE_DATE	QUERY_ PACKAGE	ADMIT_DATE	RECORD_N	RECORD_PCT	DISTINCT_ENCID_N	DISTINCT_ PATID_N

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	2015				
D1TEST	29OCT2018	DC V4.12	NULL or missing				

dia_l3_adate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2015_07	
D1TEST	29OCT2018	DC V4.12	2015_08	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

dia_l3_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	RECORD_N	RECORD_PCT	DISTINCT_ PATID_N
D1TEST	29OCT2018	DC V4.12	AV			
D1TEST	29OCT2018	DC V4.12	ED			
D1TEST	29OCT2018	DC V4.12	EI			
D1TEST	29OCT2018	DC V4.12	IC			
D1TEST	29OCT2018	DC V4.12	IP			
D1TEST	29OCT2018	DC V4.12	IS			
D1TEST	29OCT2018	DC V4.12	OA			
D1TEST	29OCT2018	DC V4.12	OS			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

dia_l3_dxtype_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	ENC_TYPE	RECORD_N
D1TEST	29OCT2018	DC V4.12	09	AV	
D1TEST	29OCT2018	DC V4.12	09	ED	
D1TEST	29OCT2018	DC V4.12	09	EI	
D1TEST	29OCT2018	DC V4.12	09	IC	
D1TEST	29OCT2018	DC V4.12	09	IP	
D1TEST	29OCT2018	DC V4.12	09	IS	
D1TEST	29OCT2018	DC V4.12	09	OA	
D1TEST	29OCT2018	DC V4.12	09	OS	
D1TEST	29OCT2018	DC V4.12	09	NI	
D1TEST	29OCT2018	DC V4.12	09	UN	
D1TEST	29OCT2018	DC V4.12	09	OT	
D1TEST	29OCT2018	DC V4.12	09	NULL or missing	
D1TEST	29OCT2018	DC V4.12	09	Values outside of CDM specifications	

dia_l3_enctype_adate_ym [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	ENC_TYPE	ADMIT_ DATE	DISTINCT_ ENCID_N	RECORD_N	DISTINCT_PATID_N

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	AV	2004_01			
D1TEST	29OCT2018	DC V4.12	ED	2004_02			
D1TEST	29OCT2018	DC V4.12	EI	2004_03			
D1TEST	29OCT2018	DC V4.12	IC	2004_04			
D1TEST	29OCT2018	DC V4.12	IP	2004_05			
D1TEST	29OCT2018	DC V4.12	IS	2004_06			
D1TEST	29OCT2018	DC V4.12	OA	2004_07			
D1TEST	29OCT2018	DC V4.12	OS	2004_06			
D1TEST	29OCT2018	DC V4.12	NI	2004_07			
D1TEST	29OCT2018	DC V4.12	UN	2004_08			
D1TEST	29OCT2018	DC V4.12	OT	2004_09			
D1TEST	29OCT2018	DC V4.12	NULL or missing	2004_10			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	2004_11			

dia_l3_origin

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	DX_ORIGIN	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	OD			
D1TEST	29OCT2018	DC V4.12	BI			
D1TEST	29OCT2018	DC V4.12	CL			
D1TEST	29OCT2018	DC V4.12	DR			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

dia_l3_dash1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

dia_l3_dxtype_adate_y[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	ADMIT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	09	2007	
D1TEST	29OCT2018	DC V4.12	10	2008	
D1TEST	29OCT2018	DC V4.12	11	2009	
D1TEST	29OCT2018	DC V4.12	SM	2010	
D1TEST	29OCT2018	DC V4.12	NI	2011	
D1TEST	29OCT2018	DC V4.12	UN	2012	
D1TEST	29OCT2018	DC V4.12	OT	2013	
D1TEST	29OCT2018	DC V4.12	NULL or missing	2014	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	NULL or missing	

dia_l3_dxpoa

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_POA	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	Y			
D1TEST	29OCT2018	DC V4.12	N			
D1TEST	29OCT2018	DC V4.12	U			
D1TEST	29OCT2018	DC V4.12	W			
D1TEST	29OCT2018	DC V4.12	1			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

dia_l3_pdx_detail

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DX_ORIGIN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AV	OD		
D1TEST	29OCT2018	DC V4.12	ED	BI		
D1TEST	29OCT2018	DC V4.12	EI	CL		
D1TEST	29OCT2018	DC V4.12	IC	DR		
D1TEST	29OCT2018	DC V4.12	IP	NI		
D1TEST	29OCT2018	DC V4.12	IS	UN		
D1TEST	29OCT2018	DC V4.12	OA	OT		
D1TEST	29OCT2018	DC V4.12	OS	NULL or missing		
D1TEST	29OCT2018	DC V4.12	NI	Values outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	UN	OD		
D1TEST	29OCT2018	DC V4.12	OT	BI		
D1TEST	29OCT2018	DC V4.12	NULL or missing	CL		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	DR		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XIV. Table Shells: PROCEDURES Queries

pro_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	PROCEDURES	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	PROCEDURES	PATID			
D1TEST	29OCT2018	DC V4.12	PROCEDURES	PROCEDURESID			
D1TEST	29OCT2018	DC V4.12	PROCEDURES	PROVIDERID			

pro_l3_px [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	00.11		
D1TEST	29OCT2018	DC V4.12	0067T		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

pro_l3_adate_y

DATAMARTID	RESPONSE_DATE	QUERY_ PACKAGE	ADMIT_DATE	RECORD_N	RECORD_PCT	DISTINCT_ENCID_N	DISTINCT_ PATID_N
D1TEST	29OCT2018	DC V4.12	2015				
D1TEST	29OCT2018	DC V4.12	NULL or missing				

pro_l3_adate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2015_07	
D1TEST	29OCT2018	DC V4.12	2015_08	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

pro_l3_pxdate_y

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	PX_ DATE	RECORD_N	RECORD_PCT	DISTINCT_ENCID_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2015				
D1TEST	29OCT2018	DC V4.12	NULL or missing				

pro_l3_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AV		
D1TEST	29OCT2018	DC V4.12	ED		
D1TEST	29OCT2018	DC V4.12	EI		
D1TEST	29OCT2018	DC V4.12	IC		
D1TEST	29OCT2018	DC V4.12	IP		
D1TEST	29OCT2018	DC V4.12	IS		
D1TEST	29OCT2018	DC V4.12	OA		
D1TEST	29OCT2018	DC V4.12	OS		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pro_l3_pxtype_enctype [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX_TYPE	ENC_TYPE	RECORD_N
D1TEST	29OCT2018	DC V4.12	09	AV	
D1TEST	29OCT2018	DC V4.12	09	ED	
D1TEST	29OCT2018	DC V4.12	09	IC	
D1TEST	29OCT2018	DC V4.12	09	IP	
D1TEST	29OCT2018	DC V4.12	09	IS	
D1TEST	29OCT2018	DC V4.12	09	OA	
D1TEST	29OCT2018	DC V4.12	09	OA	
D1TEST	29OCT2018	DC V4.12	09	OS	
D1TEST	29OCT2018	DC V4.12	09	NI	
D1TEST	29OCT2018	DC V4.12	09	UN	
D1TEST	29OCT2018	DC V4.12	09	OT	
D1TEST	29OCT2018	DC V4.12	09	NULL or missing	
D1TEST	29OCT2018	DC V4.12	09	Values outside of CDM specifications	

pro_l3_enctype_adate_ym [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	ENC_TYPE	ADMIT_DATE	RECORD_N	DISTINCT_ENCID_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV	2015_07			
D1TEST	29OCT2018	DC V4.12	ED	2015_07			
D1TEST	29OCT2018	DC V4.12	EI	2015_07			
D1TEST	29OCT2018	DC V4.12	IC	2015_07			
D1TEST	29OCT2018	DC V4.12	IP	2015_07			
D1TEST	29OCT2018	DC V4.12	IS	2015_07			
D1TEST	29OCT2018	DC V4.12	OA	2015_07			
D1TEST	29OCT2018	DC V4.12	OS	2015_07			
D1TEST	29OCT2018	DC V4.12	NI	2015_07			
D1TEST	29OCT2018	DC V4.12	UN	2015_07			
D1TEST	29OCT2018	DC V4.12	OT	2015_07			
D1TEST	29OCT2018	DC V4.12	NULL or missing	2015_07			

pro_l3_px_pxtype [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX	PX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXX	09		
D1TEST	29OCT2018	DC V4.12	XXX	10		
D1TEST	29OCT2018	DC V4.12	XXX	11		
D1TEST	29OCT2018	DC V4.12	XXX	C2		
D1TEST	29OCT2018	DC V4.12	XXX	C3		
D1TEST	29OCT2018	DC V4.12	XXX	C4		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	XXX	H3		
D1TEST	29OCT2018	DC V4.12	XXX	HC		
D1TEST	29OCT2018	DC V4.12	XXX	LC		
D1TEST	29OCT2018	DC V4.12	XXX	ND		
D1TEST	29OCT2018	DC V4.12	XXX	RE		
D1TEST	29OCT2018	DC V4.12	XXX	NI		
D1TEST	29OCT2018	DC V4.12	XXX	UN		
D1TEST	29OCT2018	DC V4.12	XXX	OT		
D1TEST	29OCT2018	DC V4.12	XXX	NULL or missing		
D1TEST	29OCT2018	DC V4.12	XXX	Values Outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	NULL or missing	09		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	09		

pro_l3_pxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	BI		
D1TEST	29OCT2018	DC V4.12	CL		
D1TEST	29OCT2018	DC V4.12	DR		
D1TEST	29OCT2018	DC V4.12	OD		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pro_l3_pxtype_adate_y [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	PX_TYPE	ADMIT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	09	2007	
D1TEST	29OCT2018	DC V4.12	10	2009	
D1TEST	29OCT2018	DC V4.12	11	2010	
D1TEST	29OCT2018	DC V4.12	CH	2011	
D1TEST	29OCT2018	DC V4.12	LC	2012	
D1TEST	29OCT2018	DC V4.12	NI	2013	
D1TEST	29OCT2018	DC V4.12	UN	2014	
D1TEST	29OCT2018	DC V4.12	OT	2015	
D1TEST	29OCT2018	DC V4.12	NULL or missing	2016	
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	NULL or missing	

pro_l3_ppx

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PPX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	P		
D1TEST	29OCT2018	DC V4.12	S		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XV. Table Shells: ENROLLMENT Queries

enr_l3_n

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	ENROLLMENT	PATID			
D1TEST	29OCT2018	DC V4.12	ENROLLMENT	ENR_START_DATE			
D1TEST	29OCT2018	DC V4.12	ENROLLMENT	ENROLLID			

enr_l3_dist_start

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	P1	
D1TEST	29OCT2018	DC V4.12	P5	
D1TEST	29OCT2018	DC V4.12	P25	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	P75	
D1TEST	29OCT2018	DC V4.12	P95	
D1TEST	29OCT2018	DC V4.12	P99	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enr_l3_dist_end

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	P1	
D1TEST	29OCT2018	DC V4.12	P5	
D1TEST	29OCT2018	DC V4.12	P25	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	P75	
D1TEST	29OCT2018	DC V4.12	P95	
D1TEST	29OCT2018	DC V4.12	P99	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enr_l3_dist_enrmonth [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	ENROLL_M	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	0		
D1TEST	29OCT2018	DC V4.12	1		
D1TEST	29OCT2018	DC V4.12	2		
D1TEST	29OCT2018	DC V4.12	3		
D1TEST	29OCT2018	DC V4.12	4		
D1TEST	29OCT2018	DC V4.12	5		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

enr_l3_dist_enryear

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	ENROLL_Y	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	1		
D1TEST	29OCT2018	DC V4.12	2		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

enr_l3_enr_ym [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	MONTH	RECORD_N
D1TEST	29OCT2018	DC V4.12	2015_07	
D1TEST	29OCT2018	DC V4.12	2015_08	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enr_l3_basedist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENR_BASIS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	A		
D1TEST	29OCT2018	DC V4.12	D		
D1TEST	29OCT2018	DC V4.12	E		
D1TEST	29OCT2018	DC V4.12	G		
D1TEST	29OCT2018	DC V4.12	I		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

enr_l3_per_patid

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	P1	
D1TEST	29OCT2018	DC V4.12	P5	
D1TEST	29OCT2018	DC V4.12	P25	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	P75	
D1TEST	29OCT2018	DC V4.12	P95	
D1TEST	29OCT2018	DC V4.12	P99	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

enr_l3_chart

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CHART	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XVI. Table Shells: VITAL Queries

vit_l3_n

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	VITAL	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	VITAL	PATID			
D1TEST	29OCT2018	DC V4.12	VITAL	VITALID			

vit_l3_mdate_y

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	MEASURE_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2015			
D1TEST	29OCT2018	DC V4.12	2016			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

vit_l3_mdate_ym [1]

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	MEASURE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2015_07		
D1TEST	29OCT2018	DC V4.12	2015_08		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

vit_l3_vital_source

DATAMARTID	RESPONSE_ DATE	QUERY_ PACKAGE	VITAL_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	HC		
D1TEST	29OCT2018	DC V4.12	HD		
D1TEST	29OCT2018	DC V4.12	PD		
D1TEST	29OCT2018	DC V4.12	PR		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

vit_l3_ht [2]

DATAMARTID	RESPONSE_ DATE	QUERY_PACKAGE	HT_GROUP	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	<0			
D1TEST	29OCT2018	DC V4.12	0-10			
D1TEST	29OCT2018	DC V4.12	11-20			
D1TEST	29OCT2018	DC V4.12	21-45			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

D1TEST	29OCT2018	DC V4.12	46-52			
D1TEST	29OCT2018	DC V4.12	53-58			
D1TEST	29OCT2018	DC V4.12	59-64			
D1TEST	29OCT2018	DC V4.12	65-70			
D1TEST	29OCT2018	DC V4.12	71-76			
D1TEST	29OCT2018	DC V4.12	77-82			
D1TEST	29OCT2018	DC V4.12	83-88			
D1TEST	29OCT2018	DC V4.12	89-94			
D1TEST	29OCT2018	DC V4.12	>=95			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

vit_l3_ht_dist [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

vit_l3_wt [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	WT_GROUP	RECORD_N	RECORD_ PCT	DISTINCT_PATD_N
D1TEST	29OCT2018	DC V4.12	<0			
D1TEST	29OCT2018	DC V4.12	0-1			
D1TEST	29OCT2018	DC V4.12	2-6			
D1TEST	29OCT2018	DC V4.12	7-12			
D1TEST	29OCT2018	DC V4.12	13-20			
D1TEST	29OCT2018	DC V4.12	21-35			
D1TEST	29OCT2018	DC V4.12	36-50			
D1TEST	29OCT2018	DC V4.12	51-75			
D1TEST	29OCT2018	DC V4.12	76-100			
D1TEST	29OCT2018	DC V4.12	101-125			
D1TEST	29OCT2018	DC V4.12	126-150			
D1TEST	29OCT2018	DC V4.12	151-175			
D1TEST	29OCT2018	DC V4.12	176-200			
D1TEST	29OCT2018	DC V4.12	201-225			
D1TEST	29OCT2018	DC V4.12	226-250			
D1TEST	29OCT2018	DC V4.12	251-275			
D1TEST	29OCT2018	DC V4.12	276-300			
D1TEST	29OCT2018	DC V4.12	301-350			
D1TEST	29OCT2018	DC V4.12	>350			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

D1TEST	29OCT2018	DC V4.12	NULL or missing			

vit_l3_wt_dist [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

vit_l3_diastolic [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DIASTOLIC_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<40		
D1TEST	29OCT2018	DC V4.12	40-60		
D1TEST	29OCT2018	DC V4.12	61-75		
D1TEST	29OCT2018	DC V4.12	76-80		
D1TEST	29OCT2018	DC V4.12	81-90		
D1TEST	29OCT2018	DC V4.12	91-100		
D1TEST	29OCT2018	DC V4.12	101-110		
D1TEST	29OCT2018	DC V4.12	111-120		
D1TEST	29OCT2018	DC V4.12	>120		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

vit_l3_systolic [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SYSTOLIC_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<40		
D1TEST	29OCT2018	DC V4.12	41-50		
D1TEST	29OCT2018	DC V4.12	51-60		
D1TEST	29OCT2018	DC V4.12	61-70		
D1TEST	29OCT2018	DC V4.12	71-80		
D1TEST	29OCT2018	DC V4.12	81-90		
D1TEST	29OCT2018	DC V4.12	91-100		
D1TEST	29OCT2018	DC V4.12	101-110		
D1TEST	29OCT2018	DC V4.12	111-120		
D1TEST	29OCT2018	DC V4.12	121-130		
D1TEST	29OCT2018	DC V4.12	131-140		
D1TEST	29OCT2018	DC V4.12	141-150		
D1TEST	29OCT2018	DC V4.12	151-160		
D1TEST	29OCT2018	DC V4.12	161-170		
D1TEST	29OCT2018	DC V4.12	171-180		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

D1TEST	29OCT2018	DC V4.12	181-190		
D1TEST	29OCT2018	DC V4.12	191-200		
D1TEST	29OCT2018	DC V4.12	201-210		
D1TEST	29OCT2018	DC V4.12	>210		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

vit_l3_BMI [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	BMI_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<0		
D1TEST	29OCT2018	DC V4.12	0-1		
D1TEST	29OCT2018	DC V4.12	2-5		
D1TEST	29OCT2018	DC V4.12	6-10		
D1TEST	29OCT2018	DC V4.12	11-15		
D1TEST	29OCT2018	DC V4.12	16-20		
D1TEST	29OCT2018	DC V4.12	21-25		
D1TEST	29OCT2018	DC V4.12	26-30		
D1TEST	29OCT2018	DC V4.12	31-35		
D1TEST	29OCT2018	DC V4.12	36-40		
D1TEST	29OCT2018	DC V4.12	41-45		
D1TEST	29OCT2018	DC V4.12	46-50		
D1TEST	29OCT2018	DC V4.12	>50		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

vit_l3_BP_position_type [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	BP_POSITION	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

vit_l3_smoking [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SMOKING	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	04		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

D1TEST	29OCT2018	DC V4.12	05		
D1TEST	29OCT2018	DC V4.12	06		
D1TEST	29OCT2018	DC V4.12	07		
D1TEST	29OCT2018	DC V4.12	08		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

vit_l3_tobacco [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TOBACCO	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	04		
D1TEST	29OCT2018	DC V4.12	06		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

vit_l3_tobacco_type [2]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TOBACCO_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	04		
D1TEST	29OCT2018	DC V4.12	05		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

vit_l3_dash1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	3,000
D1TEST	29OCT2018	DC V4.12	2 yrs	4,000

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

D1TEST	29OCT2018	DC V4.12	3 yrs	5,000
D1TEST	29OCT2018	DC V4.12	4 yrs	6,000
D1TEST	29OCT2018	DC V4.12	5 yrs	7,000
D1TEST	29OCT2018	DC V4.12	All yrs	8,000

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.
2. NULL or missing rates are expected to be high due to the VITAL table structure

XVII. Table Shells: Cross-Table Queries

elapsed_main, elapsed_lab, and **elapsed_xtbl**

QUERY	_QSTART	_QEND	ELAPSEDTIME	TOTALRUNTIME
DC PROGRAM	03OCT2016:09:35:29	03OCT2016:09:40:20	0:01:06	0:01:06
DEATH	03OCT2016:09:35:30	03OCT2016:09:37:29	0:02:00	0:03:06
DEATH_L3_N	03OCT2016:09:37:30	03OCT2016:09:39:29	0:02:00	0:05:06
DEATH_L3_DATE_Y	03OCT2016:09:39:30	03OCT2016:09:40:20	0:01:00	0:06:06

xtbl_l3_dates

DATA MARTID	RESPONSE_ DATE	QUERY_ PACKAGE	DATASET	TAG	MIN	P5	MEDIAN	P95	MAX	N	NMISS	FUTURE_DT _N	PRE2010_ N
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC	BIRTH_ DATE									
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	ADMIT_DATE									
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	DISCHARGE_ DATE									
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	ADMIT_DATE									
D1TEST	29OCT2018	DC V4.12	PROCEDURES	ADMIT_DATE									
D1TEST	29OCT2018	DC V4.12	PROCEDURES	PX_DATE									
D1TEST	29OCT2018	DC V4.12	VITAL	MEASURE_ DATE									
D1TEST	29OCT2018	DC V4.12	ENROLLMENT	ENR_START_ DATE									
D1TEST	29OCT2018	DC V4.12	ENROLLMENT	ENR_END_ DATE									
D1TEST	29OCT2018	DC V4.12	DEATH	DEATH_DATE									
D1TEST	29OCT2018	DC V4.12	DISPENSING	DISPENSE_DA TE									
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	RX_ORDER_D ATE									
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	RX_START_D ATE									
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	RX_END_DAT E									
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_ CM	LAB_ORDER_ DATE									
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_ CM	SPECIMEN_D ATE									
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_ CM	RESULT_DATE									
D1TEST	29OCT2018	DC V4.12	CONDITION	REPORT_DAT E									
D1TEST	29OCT2018	DC V4.12	CONDITION	RESOLVE_DA TE									
D1TEST	29OCT2018	DC V4.12	CONDITION	ONSET_DATE									
D1TEST	29OCT2018	DC V4.12	PRO_CM	PRO_DATE									
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMIN_ START_DATE									
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMIN_ STOP_DATE									
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	OBSCLIN_DAT E									

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

xtbl_l3_date_logic

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATE_COMPARISON	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	ADMIT_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	DISCHARGE_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	PX_DATE< BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	MEASURE_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	DISPENSE_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	RX_START_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	RESULT_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	DEATH_DATE < BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	ADMIT_DATE >DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	DISCHARGE_DATE >DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	PX_DATE>DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	MEASURE_DATE >DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	DISPENSE_DATE >DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	RX_START_DATE >DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	RESULT_DATE > DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	MEDADMIN_START_DATE<BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	MEDADMIN_START_DATE>DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	OBSCLIN_DATE<BIRTH_DATE	
D1TEST	29OCT2018	DC V4.12	OBSCLIN_DATE>DEATH_DATE	

xtbl_l3_times

DATAMARTID	RESPONSE_ DATE	QUERY_PACKAGE	DATASET	TAG	MIN	MEDIAN	MAX	N	NMISS
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC	BIRTH_TIME					
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	ADMIT_TIME					
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	DISCHARGE_TIME					
D1TEST	29OCT2018	DC V4.12	VITAL	MEASURE_ TIME					
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	RESULT_TIME					
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	SPECIMEN_TIME					
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	RX_ORDER_TIME					
D1TEST	29OCT2018	DC V4.12	PRO_CM	PRO_TIME					
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMIN_ START_TIME					
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMIN_ STOP_TIME					
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	OBSCLIN_TIME					

xtbl_l3_metadata

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	29OCT2018	DC V4.12	NETWORKID	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	29OCT2018	DC V4.12	NETWORK_NAME	
D1TEST	29OCT2018	DC V4.12	DATAMARTID	
D1TEST	29OCT2018	DC V4.12	DATAMART_NAME	
D1TEST	29OCT2018	DC V4.12	DATAMART_PLATFORM	
D1TEST	29OCT2018	DC V4.12	CDM_VERSION	
D1TEST	29OCT2018	DC V4.12	DATAMART_CLAIMS	
D1TEST	29OCT2018	DC V4.12	DATAMART_EHR	
D1TEST	29OCT2018	DC V4.12	BIRTH_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	ENR_START_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	ENR_END_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	ADMIT_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	DISCHARGE_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	PX_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	RX_ORDER_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	RX_START_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	RX_END_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	DISPENSE_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	LAB_ORDER_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	SPECIMEN_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	RESULT_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	MEASURE_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	ONSET_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	REPORT_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	RESOLVE_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	PRO_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	REFRESH_DEMOGRAPHIC_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_ENROLLMENT_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_ENCOUNTER_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_DIAGNOSIS_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_PROCEDURES_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_VITAL_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_DISPENSING_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_LAB_RESULT_CM_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_CONDITION_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_PRO_CM_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_PRESCRIBING_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_PCORNET_TRIAL_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_DEATH_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_DEATH_CAUSE_DATE	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	29OCT2018	DC V4.12	REFRESH_MAX	
D1TEST	29OCT2018	DC V4.12	LOW_CELL_CNT	
D1TEST	29OCT2018	DC V4.12	OPERATING_SYSTEM	
D1TEST	29OCT2018	DC V4.12	QUERY_PACKAGE	
D1TEST	29OCT2018	DC V4.12	RESPONSE_DATE	
D1TEST	29OCT2018	DC V4.12	LOOKBACK_MONTHS	
D1TEST	29OCT2018	DC V4.12	LOOKBACK_DATE	
D1TEST	29OCT2018	DC V4.12	SAS_VERSION	
D1TEST	29OCT2018	DC V4.12	SAS_BASE	
D1TEST	29OCT2018	DC V4.12	SAS_GRAPH	
D1TEST	29OCT2018	DC V4.12	SAS_STAT	
D1TEST	29OCT2018	DC V4.12	SAS_ETS	
D1TEST	29OCT2018	DC V4.12	SAS_AF	
D1TEST	29OCT2018	DC V4.12	SAS_IML	
D1TEST	29OCT2018	DC V4.12	SAS_CONNECT	
D1TEST	29OCT2018	DC V4.12	SAS_MYSQL	
D1TEST	29OCT2018	DC V4.12	SAS_ODBC	
D1TEST	29OCT2018	DC V4.12	SAS_ORACLE	
D1TEST	29OCT2018	DC V4.12	SAS_POSTGRES	
D1TEST	29OCT2018	DC V4.12	SAS_SQL	
D1TEST	29OCT2018	DC V4.12	SAS_TERADATA	
D1TEST	29OCT2018	DC V4.12	DATASTORE	
D1TEST	29OCT2018	DC V4.12	DEATH_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	MEDADMIN_START_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	MEDADMIN_END_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	OBSCLIN_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	OBSGEN_DATE_MGMT	
D1TEST	29OCT2018	DC V4.12	REFRESH_MED_ADMIN_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_OBS_CLIN_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_PROVIDER_DATE	
D1TEST	29OCT2018	DC V4.12	REFRESH_OBS_GEN_DATE	
D1TEST	29OCT2018	DC V4.12	DC_PROGRAM_HHMMSS	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

xtbl_l3_dash1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

xtbl_l3_dash2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

xtbl_l3_dash3

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	1 yr	
D1TEST	29OCT2018	DC V4.12	2 yrs	
D1TEST	29OCT2018	DC V4.12	3 yrs	
D1TEST	29OCT2018	DC V4.12	4 yrs	
D1TEST	29OCT2018	DC V4.12	5 yrs	
D1TEST	29OCT2018	DC V4.12	All yrs	

xtbl_l3_mismatch

DATAMARTID	RESPONSE_DATE	QUERY_ PACKAGE	DATASET	TAG	DISTINCT_N
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and DIAGNOSIS	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and PROCEDURES	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and VITAL	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and LAB_RESULT_CM	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and PRESCRIBING	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and CONDITION	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and PRO_CM	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and MED_ADMIN	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and OBS_CLIN	ENCOUNTERID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and ENROLLMENT	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and ENCOUNTER	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and DIAGNOSIS	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and PROCEDURES	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and VITAL	PATID Orphan	0

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and LAB_RESULT_CM	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and PRESCRIBING	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and DISPENSING	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and DEATH	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and CONDITION	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and DEATH_CAUSE	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and PRO_CM	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and PCORNET_TRIAL	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and MED_ADMIN	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	DEMOGRAPHIC and OBS_CLIN	PATID Orphan	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and DIAGNOSIS	ENC_TYPE mismatch	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and DIAGNOSIS	ADMIT_DATE mismatch	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and PROCEDURES	ENC_TYPE mismatch	0
D1TEST	29OCT2018	DC V4.12	ENCOUNTER and PROCEDURES	ADMIT_DATE mismatch	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and ENCOUNTER	PROVIDERID Orphan	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and DIAGNOSIS	PROVIDERID Orphan	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and PROCEDURES	PROVIDERID Orphan	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and PRESCRIBING	PROVIDERID Orphan	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and MED_ADMIN	PROVIDERID Orphan	0
D1TEST	29OCT2018	DC V4.12	PROVIDER and OBS_CLIN	PROVIDERID Orphan	0

xtbl_l3_lab_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV			
D1TEST	29OCT2018	DC V4.12	ED			
D1TEST	29OCT2018	DC V4.12	EI			
D1TEST	29OCT2018	DC V4.12	IP			
D1TEST	29OCT2018	DC V4.12	IS			
D1TEST	29OCT2018	DC V4.12	OS			
D1TEST	29OCT2018	DC V4.12	IC			
D1TEST	29OCT2018	DC V4.12	OA			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

xtbl_l3_pres_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	AV			
D1TEST	29OCT2018	DC V4.12	ED			
D1TEST	29OCT2018	DC V4.12	EI			
D1TEST	29OCT2018	DC V4.12	IP			
D1TEST	29OCT2018	DC V4.12	IS			
D1TEST	29OCT2018	DC V4.12	OS			

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D1TEST	29OCT2018	DC V4.12	IC			
D1TEST	29OCT2018	DC V4.12	OA			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

datamart_all

Field Name	PROC_CONTENTS output?	Field description
LIBNAME	Yes	PCORData
MEMNAME	Yes	PCORnet Table Name (e.g. DEMOGRAPHIC)
MEMLABEL	Yes	Blank
TYPEMEM	Yes	Blank
NAME	Yes	Variable name (e.g. SEX)
TYPE	Yes	Variable type (1=numeric, 2=character)
LENGTH	Yes	Variable length
VARNUM	Yes	Variable sequence number (not relevant)
LABEL	Yes	Blank
FORMAT	Yes	Format applied to the variable, e.g. DATE
FORMATL	Yes	Format length
FORMATD	Yes	Format decimals
INFORMAT	Yes	Variable informat
INFORML	Yes	Informat length
INFORMD	Yes	Informat decimals
JUST	Yes	Justification
NPOS	Yes	Position in buffer
NOBS	Yes	Observations in dataset. NOTE: will not be accurate for sites using Views.
ENGINE	Yes	SAS engine name, e.g. V9
CRDATE	Yes	Create date
MODATE	Yes	Last modified date
DELOBS	Yes	Deleted observations in dataset
IDXUSAGE	Yes	Use of variable in indexes
MEMTYPE	Yes	Library memtype
IDXCOUNT	Yes	Number of indexes
PROTECT	Yes	Password protection
FLAGS	Yes	Update flags
COMPRESS	Yes	Compression routine
REUSE	Yes	Reuse space
SORTED	Yes	Sorted and/or validated

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

SORTEDBY	Yes	Position of variable in sorted by clause
CHARSET	Yes	Host character set
COLLATE	Yes	Collating sequence
NODUPKEY	Yes	Sort option: no duplicate keys
NODUPREC	Yes	Sort option: no duplicate records
ENCRYPT	Yes	Encryption routine
POINTOBS	Yes	Point to observations
GENMAX	Yes	Maximum number of generations
GENNUM	Yes	Generation number
GENNEXT	Yes	Next generation number
TRANSCOD	Yes	Character variables transcoded.
ORD	No	PCORnet table order. DEMOGRAPHIC is 01, ENROLLMENT is 02, etc.
QUERY_RESPONSE_DATE	No	Date the program was run

xtbl_l3_non_unique

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	DISTINCT_N
D1TEST	29OCT2018	DC V4.12	ENCOUNTER	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	DIAGNOSIS	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	PROCEDURES	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	VITAL	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	CONDITION	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	PRO_CM	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	ENCOUNTERID	
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	ENCOUNTERID	

xtbl_l3_race_enc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RACE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	01			
D1TEST	29OCT2018	DC V4.12	02			
D1TEST	29OCT2018	DC V4.12	03			
D1TEST	29OCT2018	DC V4.12	04			
D1TEST	29OCT2018	DC V4.12	05			
D1TEST	29OCT2018	DC V4.12	06			
D1TEST	29OCT2018	DC V4.12	07			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

			CDM specifications			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XVIII. Table Shells: DEATH queries

death_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	DEATH	PATID			
D1TEST	29OCT2018	DC V4.12	DEATH	DEATHID			

death_l3_date_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

death_l3_date_ym[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004_01		
D1TEST	29OCT2018	DC V4.12	2004_02		
D1TEST	29OCT2018	DC V4.12	2004_03		
D1TEST	29OCT2018	DC V4.12	2004_04		
D1TEST	29OCT2018	DC V4.12	2004_05		
D1TEST	29OCT2018	DC V4.12	2004_05		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

death_l3_impute

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE_IMPUTE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	B		
D1TEST	29OCT2018	DC V4.12	D		
D1TEST	29OCT2018	DC V4.12	M		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

death_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	D		
D1TEST	29OCT2018	DC V4.12	L		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	S		
D1TEST	29OCT2018	DC V4.12	T		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

death_l3_match

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_MATCH_CONFIDENCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	E		
D1TEST	29OCT2018	DC V4.12	F		
D1TEST	29OCT2018	DC V4.12	P		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XIX. Table Shells: DEATH_CAUSE queries

deathc_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	DEATH_CAUSE	PATID			
D1TEST	29OCT2018	DC V4.12	DEATH_CAUSE	DEATH_CAUSE			
D1TEST	29OCT2018	DC V4.12	DEATH_CAUSE	DEATHCID			

deathc_l3_code

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_CODE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	09		
D1TEST	29OCT2018	DC V4.12	10		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

deathc_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	C		
D1TEST	29OCT2018	DC V4.12	I		
D1TEST	29OCT2018	DC V4.12	O		
D1TEST	29OCT2018	DC V4.12	U		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

deathc_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	D		
D1TEST	29OCT2018	DC V4.12	L		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	S		
D1TEST	29OCT2018	DC V4.12	T		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

deathc_l3_conf

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_CONFIDENCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	E		
D1TEST	29OCT2018	DC V4.12	F		
D1TEST	29OCT2018	DC V4.12	P		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XX. Table Shells: DISPENSING queries

disp_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N	VALID_N
D1TEST	29OCT2018	DC V4.12	DISPENSING	PATID				n/a
D1TEST	29OCT2018	DC V4.12	DISPENSING	DISPENSINGID				n/a
D1TEST	29OCT2018	DC V4.12	DISPENSING	PRESCRIBINGID				n/a
D1TEST	29OCT2018	DC V4.12	DISPENSING	NDC				

disp_l3_ndc [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NDC	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	11122211445		
D1TEST	29OCT2018	DC V4.12	21456789010		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

disp_l3_ddate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

disp_l3_ddate_ym[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004_01		
D1TEST	29OCT2018	DC V4.12	2005_02		
D1TEST	29OCT2018	DC V4.12	2006_03		
D1TEST	29OCT2018	DC V4.12	2007_04		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

disp_l3_supdist2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_SUP_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<1 day		
D1TEST	29OCT2018	DC V4.12	1-15 days		
D1TEST	29OCT2018	DC V4.12	16-30 days		
D1TEST	29OCT2018	DC V4.12	31-60 days		
D1TEST	29OCT2018	DC V4.12	61-90 days		
D1TEST	29OCT2018	DC V4.12	>90 days		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

disp_l3_dispamt_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

disp_l3_dose_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

disp_l3_doseunit [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_DOSE_DISP_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	%	Y		
D1TEST	29OCT2018	DC V4.12	cm	Y		
D1TEST	29OCT2018	DC V4.12	g	N		
D1TEST	29OCT2018	DC V4.12	⋮			
D1TEST	29OCT2018	DC V4.12	NI	Y		
D1TEST	29OCT2018	DC V4.12	UN	Y		
D1TEST	29OCT2018	DC V4.12	OT	Y		
D1TEST	29OCT2018	DC V4.12	NULL or missing	Y		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	N		

disp_l3_route [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_ROUTE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	OTIC		
D1TEST	29OCT2018	DC V4.12	INTRA_ARTICULAR		
D1TEST	29OCT2018	DC V4.12	GASTROSTOMY		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXI. Table Shells: PRESCRIBING queries

pres_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	PATID			
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	PRESCRIBINGID			
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	PRESCRIBING	RX_PROVIDERID			

pres_l3_rxcui[1] (uses the *rxnorm_cui_ref* reference table)

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI	RXNORM_CUI_TTY	RECORD_N	RECORD_PCT	DIST_PATID_N
D1TEST	29OCT2018	DC V4.12	1811	BN			
D1TEST	29OCT2018	DC V4.12	902	MIN			
D1TEST	29OCT2018	DC V4.12	04	NULL or missing			
D1TEST	29OCT2018	DC V4.12	NULL or missing	NULL or missing			

pres_l3_supdist2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DAYS_SUPPLY_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	<1 day		
D1TEST	29OCT2018	DC V4.12	1-15 days		
D1TEST	29OCT2018	DC V4.12	16-30 days		
D1TEST	29OCT2018	DC V4.12	31-60 days		
D1TEST	29OCT2018	DC V4.12	61-90 days		
D1TEST	29OCT2018	DC V4.12	>90 days		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

pres_l3_rxcui_rxsup[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI	MIN	MEAN	MAX	N	NMISS
D1TEST	29OCT2018	DC V4.12	XXXX					
D1TEST	29OCT2018	DC V4.12	XXXX					
D1TEST	29OCT2018	DC V4.12	XXXX					
D1TEST	29OCT2018	DC V4.12	XXXX					
D1TEST	29OCT2018	DC V4.12	NULL or missing					

pres_l3_rxcui_tier

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI_TIER	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Tier 1		
D1TEST	29OCT2018	DC V4.12	Tier 2		
D1TEST	29OCT2018	DC V4.12	Tier 3		
D1TEST	29OCT2018	DC V4.12	Tier 4		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

pres_l3_basis

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_BASIS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_freq

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_FREQUENCY	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	01		
D1TEST	29OCT2018	DC V4.12	02		
D1TEST	29OCT2018	DC V4.12	03		
D1TEST	29OCT2018	DC V4.12	04		
D1TEST	29OCT2018	DC V4.12	05		
D1TEST	29OCT2018	DC V4.12	06		
D1TEST	29OCT2018	DC V4.12	07		
D1TEST	29OCT2018	DC V4.12	08		
D1TEST	29OCT2018	DC V4.12	10		
D1TEST	29OCT2018	DC V4.12	11		
~~D1TEST~~	~~29OCT2018~~	~~DC V4.12~~	~~09~~		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_odate_y

DATAMART ID	RESPONSE_ DATE	QUERY_PACKAGE	RX_ORDER_DATE	RECORD_ N	RECORD_PCT	RECORD_N_ RXCUI	DISTINCT_ PATID_N
D1TEST	29OCT2018	DC V4.12	2008				
D1TEST	29OCT2018	DC V4.12	2009				
D1TEST	29OCT2018	DC V4.12	NULL or missing				

pres_l3_odate_ym[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_ORDER_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004_01		
D1TEST	29OCT2018	DC V4.12	2004_02		
D1TEST	29OCT2018	DC V4.12	2004_03		
D1TEST	29OCT2018	DC V4.12	2004_04		
D1TEST	29OCT2018	DC V4.12	2004_05		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	2004_05		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

pres_l3_rxqty_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

pres_l3_rxrefill_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

pres_l3_dispaswrtn

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DISPENSE_AS_WRITTEN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_prnflag

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_PRN_FLAG	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_rxdoseform [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DOSE_FORM	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AUGMENTED_TOPICAL_CREAM		
D1TEST	29OCT2018	DC V4.12	AUGMENTED_TOPICAL_GEL		
D1TEST	29OCT2018	DC V4.12	AUGMENTED_TOPICAL_LOTION		
D1TEST	29OCT2018	DC V4.12	AUGMENTED_TOPICAL_OINTMENT		
D1TEST	29OCT2018	DC V4.12	⋮		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_rxdoseodr_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

pres_l3_rxdoseodrunit[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DOSE_ORDERED_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	%			
D1TEST	29OCT2018	DC V4.12	cm			
D1TEST	29OCT2018	DC V4.12	g			
D1TEST	29OCT2018	DC V4.12	⋮			
D1TEST	29OCT2018	DC V4.12	NI			
D1TEST	29OCT2018	DC V4.12	UN			
D1TEST	29OCT2018	DC V4.12	OT			
D1TEST	29OCT2018	DC V4.12	NULL or missing			
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications			

pres_l3_route [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_ROUTE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	OTIC		
D1TEST	29OCT2018	DC V4.12	INTRA_ARTICULAR		
D1TEST	29OCT2018	DC V4.12	GASTROSTOMY		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

pres_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	OD		
D1TEST	29OCT2018	DC V4.12	DR		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications:		

pres_l3_rawrxmed [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RAW_RX_MED_NAME	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	ENBREL		
D1TEST	29OCT2018	DC V4.12	HUMIRA		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXII. TABLE SHELL: LAB_RESULT_CM queries

lab_l3_loc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_LOC	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	L		
D1TEST	29OCT2018	DC V4.12	P		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	PATID			
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	LAB_RESULT_CM_ID			
D1TEST	29OCT2018	DC V4.12	LAB_RESULT_CM	ENCOUNTERID			

lab_l3_priority

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRIORITY	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	ER		
D1TEST	29OCT2018	DC V4.12	R		
D1TEST	29OCT2018	DC V4.12	S		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_recordc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	ALL_N
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT_NUM	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT_NUM_SOURCE	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT_NUM_UNIT	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT_NUM_SRCE_UNIT	
D1TEST	29OCT2018	DC V4.12	KNOWN_TEST_RESULT_NUM_RANGE	

lab_l3_source [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SPECIMEN_SOURCE	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	ABDOMEN.FNA	Y		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	ABSCESS	Y		
D1TEST	29OCT2018	DC V4.12	ADRENAL_GLAND	Y		
D1TEST	29OCT2018	DC V4.12	AIR	Y		
D1TEST	29OCT2018	DC V4.12	⋮	⋮		
D1TEST	29OCT2018	DC V4.12	NI	Y		
D1TEST	29OCT2018	DC V4.12	UN	Y		
D1TEST	29OCT2018	DC V4.12	OT	Y		
D1TEST	29OCT2018	DC V4.12	NULL or missing	Y		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	N		

lab_l3_px_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_PX_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	09		
D1TEST	29OCT2018	DC V4.12	10		
D1TEST	29OCT2018	DC V4.12	11		
D1TEST	29OCT2018	DC V4.12	CH		
D1TEST	29OCT2018	DC V4.12	LC		
D1TEST	29OCT2018	DC V4.12	ND		
D1TEST	29OCT2018	DC V4.12	RE		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_px_pxtype [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_PX	LAB_PX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXX	09		
D1TEST	29OCT2018	DC V4.12	XXX	10		
D1TEST	29OCT2018	DC V4.12	XXX	11		
D1TEST	29OCT2018	DC V4.12	XXX	CH		
D1TEST	29OCT2018	DC V4.12	XXX	LC		
D1TEST	29OCT2018	DC V4.12	XXX	ND		
D1TEST	29OCT2018	DC V4.12	XXX	RE		
D1TEST	29OCT2018	DC V4.12	XXX	NI		
D1TEST	29OCT2018	DC V4.12	XXX	UN		
D1TEST	29OCT2018	DC V4.12	XXX	OT		
D1TEST	29OCT2018	DC V4.12	XXX	NULL or missing		
D1TEST	29OCT2018	DC V4.12	XXX	Values Outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	NULL or missing	09		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

lab_l3_qual

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_QUAL	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	POSITIVE		
D1TEST	29OCT2018	DC V4.12	NEGATIVE		
D1TEST	29OCT2018	DC V4.12	BORDERLINE		
D1TEST	29OCT2018	DC V4.12	ELEVATED		
D1TEST	29OCT2018	DC V4.12	HIGH		
D1TEST	29OCT2018	DC V4.12	LOW		
D1TEST	29OCT2018	DC V4.12	NORMAL		
D1TEST	29OCT2018	DC V4.12	ABNORMAL		
D1TEST	29OCT2018	DC V4.12	UNDETERMINED		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_mod

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_MOD	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	EQ		
D1TEST	29OCT2018	DC V4.12	GE		
D1TEST	29OCT2018	DC V4.12	GT		
D1TEST	29OCT2018	DC V4.12	LE		
D1TEST	29OCT2018	DC V4.12	LT		
D1TEST	29OCT2018	DC V4.12	TX		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

Lab_l3_low

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NORM_MODIFIER_LOW	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	EQ		
D1TEST	29OCT2018	DC V4.12	GE		
D1TEST	29OCT2018	DC V4.12	GT		
D1TEST	29OCT2018	DC V4.12	NO		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_high

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NORM_MODIFIER_HIGH	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	EQ		
D1TEST	29OCT2018	DC V4.12	GE		
D1TEST	29OCT2018	DC V4.12	GT		
D1TEST	29OCT2018	DC V4.12	NO		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_abn

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ABN_IND	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AB		
D1TEST	29OCT2018	DC V4.12	AH		
D1TEST	29OCT2018	DC V4.12	AL		
D1TEST	29OCT2018	DC V4.12	CH		
D1TEST	29OCT2018	DC V4.12	CL		
D1TEST	29OCT2018	DC V4.12	CR		
D1TEST	29OCT2018	DC V4.12	IN		
D1TEST	29OCT2018	DC V4.12	NL		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

lab_l3_loinc [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	RECORD_N	RECORD_PCT	DIST_PATID_N
D1TEST	29OCT2018	DC V4.12	1234-5			
D1TEST	29OCT2018	DC V4.12	78865-7			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

lab_l3_loinc_source (uses the *lab_loinc_ref* reference table) [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	SPECIMEN_SOURCE	EXP_SPECIMEN_SOURCE	RECORD_N
D1TEST	29OCT2018	DC V4.12	1234-5	BLD	BLD	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	1234-5	PLAS	BLD	
D1TEST	29OCT2018	DC V4.12	⋮	⋮	⋮	
D1TEST	29OCT2018	DC V4.12	78865-7	PLAS	PLAS	
D1TEST	29OCT2018	DC V4.12	78865-7	URINE	URINE	

lab_l3_dcgroup [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DC_LAB_GROUP	INCLUDE_EDC	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	ALBUMIN B/S/P	1			
D1TEST	29OCT2018	DC V4.12	ALBUMIN URINE	0			
D1TEST	29OCT2018	DC V4.12	ALBUMIN URINE 24H	0			
D1TEST	29OCT2018	DC V4.12	ALT	1			
D1TEST	29OCT2018	DC V4.12	AST	1			
D1TEST	29OCT2018	DC V4.12	BICARBONATE	0			
D1TEST	29OCT2018	DC V4.12	BILIRUBIN	0			
D1TEST	29OCT2018	DC V4.12	BK VIRUS	0			
D1TEST	29OCT2018	DC V4.12	NULL or missing	0			

lab_l3_rdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	2010			
D1TEST	29OCT2018	DC V4.12	2011			
D1TEST	29OCT2018	DC V4.12	2012			
D1TEST	29OCT2018	DC V4.12	2013			
D1TEST	29OCT2018	DC V4.12	2014			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

lab_l3_rdate_ym[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2007_01		
D1TEST	29OCT2018	DC V4.12	2008_01		
D1TEST	29OCT2018	DC V4.12	2009_01		
D1TEST	29OCT2018	DC V4.12	2010_01		
D1TEST	29OCT2018	DC V4.12	2011_01		
D1TEST	29OCT2018	DC V4.12	2012_01		
D1TEST	29OCT2018	DC V4.12	2013_01		
D1TEST	29OCT2018	DC V4.12	2014_01		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

lab_l3_loinc_result_num[1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	MIN	P1	P5	P25	MEDIAN	P75	P99	MAX	N	NULL OR MSSING
D1TEST	29OCT2018	DC V4.12	XXXX-X										
D1TEST	29OCT2018	DC V4.12	XXXX-X										
D1TEST	29OCT2018	DC V4.12	XXXX-X										
D1TEST	29OCT2018	DC V4.12	XXXX-X										

lab_l3_raw_name [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RAW_LAB_NAME	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	Electrolytes			
D1TEST	29OCT2018	DC V4.12	ANA			
D1TEST	29OCT2018	DC V4.12	CBC			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

lab_l3_snomed [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_SNOMED	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXXXXXXXXX			
D1TEST	29OCT2018	DC V4.12	XXXXXXXXXX			
D1TEST	29OCT2018	DC V4.12	⋮			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

lab_l3_unit [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	10.L/(min.m2)	Y		
D1TEST	29OCT2018	DC V4.12	10.uN.s/(cm5.m2)	N		
D1TEST	29OCT2018	DC V4.12	10*4/uL	y		
D1TEST	29OCT2018	DC V4.12	⋮	⋮		
D1TEST	29OCT2018	DC V4.12	NI	Y		
D1TEST	29OCT2018	DC V4.12	UN	Y		
D1TEST	29OCT2018	DC V4.12	OT	Y		
D1TEST	29OCT2018	DC V4.12	NULL or missing	Y		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	N		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXIII. TABLE SHELLS: CONDITION queries

cond_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	CONDITION	PATID			
D1TEST	29OCT2018	DC V4.12	CONDITION	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	CONDITION	CONDITIONID			
D1TEST	29OCT2018	DC V4.12	CONDITITION	CONDITION			

cond_l3_condition

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	DIABETES			
D1TEST	29OCT2018	DC V4.12	HEADACHE			
D1TEST	29OCT2018	DC V4.12	STOMACH ACHE			
D1TEST	29OCT2018	DC V4.12	FATIGUE			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

cond_l3_rdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	REPORT_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

cond_l3_rdate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	REPORT_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2004_07	
D1TEST	29OCT2018	DC V4.12	2004_08	
D1TEST	29OCT2018	DC V4.12	2004_09	
D1TEST	29OCT2018	DC V4.12	2004_10	
D1TEST	29OCT2018	DC V4.12	2004_11	
D1TEST	29OCT2018	DC V4.12	2004_12	
D1TEST	29OCT2018	DC V4.12	2005_01	
D1TEST	29OCT2018	DC V4.12	2005_02	
D1TEST	29OCT2018	DC V4.12	2005_03	
D1TEST	29OCT2018	DC V4.12	2005_04	
D1TEST	29OCT2018	DC V4.12	2005_05	
D1TEST	29OCT2018	DC V4.12	2005_06	
D1TEST	29OCT2018	DC V4.12	2005_07	
D1TEST	29OCT2018	DC V4.12	2005_08	

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D1TEST	29OCT2018	DC V4.12	2005_09	
D1TEST	29OCT2018	DC V4.12	2005_10	
D1TEST	29OCT2018	DC V4.12	2005_11	
D1TEST	29OCT2018	DC V4.12	2005_12	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

cond_l3_status

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION_STATUS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	AC		
D1TEST	29OCT2018	DC V4.12	IN		
D1TEST	29OCT2018	DC V4.12	RS		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

cond_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	09		
D1TEST	29OCT2018	DC V4.12	10		
D1TEST	29OCT2018	DC V4.12	11		
D1TEST	29OCT2018	DC V4.12	AG		
D1TEST	29OCT2018	DC V4.12	HP		
D1TEST	29OCT2018	DC V4.12	SM		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

cond_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION_STATUS	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	HC		
D1TEST	29OCT2018	DC V4.12	PC		
D1TEST	29OCT2018	DC V4.12	PR		
D1TEST	29OCT2018	DC V4.12	RG		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

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D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXIV. TABLES SHELLS: PRO_CM queries

procm_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	PRO_CM	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	PRO_CM	PATID			
D1TEST	29OCT2018	DC V4.12	PRO_CM	PRO_CM_ID			
~~D1TEST~~	~~29OCT2018~~	~~DC V4.12~~	~~PRO_CM~~	~~PRO_RESPONSE~~			

procm_l3_pdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

procm_l3_pdate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2004_07	
D1TEST	29OCT2018	DC V4.12	2004_08	
D1TEST	29OCT2018	DC V4.12	2004_09	
D1TEST	29OCT2018	DC V4.12	2004_10	
D1TEST	29OCT2018	DC V4.12	2004_11	
D1TEST	29OCT2018	DC V4.12	2004_12	
D1TEST	29OCT2018	DC V4.12	2005_01	
D1TEST	29OCT2018	DC V4.12	2005_02	
D1TEST	29OCT2018	DC V4.12	2005_03	
D1TEST	29OCT2018	DC V4.12	2005_04	
D1TEST	29OCT2018	DC V4.12	2005_05	
D1TEST	29OCT2018	DC V4.12	2005_06	
D1TEST	29OCT2018	DC V4.12	2005_07	
D1TEST	29OCT2018	DC V4.12	2005_08	
D1TEST	29OCT2018	DC V4.12	2005_09	
D1TEST	29OCT2018	DC V4.12	2005_10	
D1TEST	29OCT2018	DC V4.12	2005_11	
D1TEST	29OCT2018	DC V4.12	2005_12	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

procm_l3_method

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_METHOD	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	PA		
D1TEST	29OCT2018	DC V4.12	EC		
D1TEST	29OCT2018	DC V4.12	PH		
D1TEST	29OCT2018	DC V4.12	IV		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

procm_l3_mode

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MODE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	SF		
D1TEST	29OCT2018	DC V4.12	SA		
D1TEST	29OCT2018	DC V4.12	PR		
D1TEST	29OCT2018	DC V4.12	PA		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

procm_l3_loinc [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_LOINC	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	12345-7			
D1TEST	29OCT2018	DC V4.12	56789-1			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

procm_l3_cat

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_CAT	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

procm_l3_itemfullname [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_FULLNAME	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			

procm_l3_itemnm [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_NAME	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	PN_0001		
D1TEST	29OCT2018	DC V4.12	PN_0002		
D1TEST	29OCT2018	DC V4.12	PN_0001		
D1TEST	29OCT2018	DC V4.12	PN_0001		
D1TEST	29OCT2018	DC V4.12	PN_0001		
D1TEST	29OCT2018	DC V4.12	PN_0007		
D1TEST	29OCT2018	DC V4.12	PN_0007		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

procm_l3_measure_fullname [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MEASURE_FULLNAME	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12	NULL or missing		

procm_l3_measurenm [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MEASURE_NAME	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			
D1TEST	29OCT2018	DC V4.12			

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D1TEST	29OCT2018	DC V4.12	NULL or missing		

procm_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	PM		
D1TEST	29OCT2018	DC V4.12	NQ		
D1TEST	29OCT2018	DC V4.12	AM		
D1TEST	29OCT2018	DC V4.12	NT		
D1TEST	29OCT2018	DC V4.12	PC		
D1TEST	29OCT2018	DC V4.12	LC		
D1TEST	29OCT2018	DC V4.12	HC		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXV. TABLE SHELL: PCORNET_TRIAL query

trial_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	PCORNET_TRIAL	PATID			
D1TEST	29OCT2018	DC V4.12	PCORNET_TRIAL	TRIALID			
D1TEST	29OCT2018	DC V4.12	PCORNET_TRIAL	PARTICIPANTID			
D1TEST	29OCT2018	DC V4.12	PCORNET_TRIAL	TRIAL_KEY			

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXVI. TABLE SHELL: PROVIDER queries

prov_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	PROVIDER	PROVIDERID			
D1TEST	29OCT2018	DC V4.12	PROVIDER	PROVIDER_NPI			

prov_l3_npiflag

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_NPI_FLAG	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Y		
D1TEST	29OCT2018	DC V4.12	N		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

prov_l3_specialty [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SPECIALTY_PRIMARY	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	101Y00000X		
D1TEST	29OCT2018	DC V4.12	101YA0400X		
D1TEST	29OCT2018	DC V4.12	101YM0800X		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

prov_l3_specialty_group [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SPECIALTY_GROUP	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	Behavioral Health & Social Service Providers		
D1TEST	29OCT2018	DC V4.12	Chiropractic Providers		
D1TEST	29OCT2018	DC V4.12	Dental Providers		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

prov_l3_sex

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SEX	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	A		
D1TEST	29OCT2018	DC V4.12	F		
D1TEST	29OCT2018	DC V4.12	M		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXVII. TABLE SHELL: MED_ADMIN queries

medadm_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	PATID			
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMINID			
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	MEDADMIN_PROVIDERID			
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	MED_ADMIN	PRESCRIBINGID			

medadm_l3_doseadm

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	29OCT2018	DC V4.12	MIN	
D1TEST	29OCT2018	DC V4.12	MEAN	
D1TEST	29OCT2018	DC V4.12	MEDIAN	
D1TEST	29OCT2018	DC V4.12	MAX	
D1TEST	29OCT2018	DC V4.12	N	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

medadm_l3_doseadmunit [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_DOSE_ADMIN_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	%	Y		
D1TEST	29OCT2018	DC V4.12	cm	Y		
D1TEST	29OCT2018	DC V4.12	Gram	N		
D1TEST	29OCT2018	DC V4.12	⋮			
D1TEST	29OCT2018	DC V4.12	NI	Y		
D1TEST	29OCT2018	DC V4.12	UN	Y		
D1TEST	29OCT2018	DC V4.12	OT	Y		
D1TEST	29OCT2018	DC V4.12	NULL or missing	Y		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications	N		

medadm_l3_route [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_ROUTE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	OTIC		
D1TEST	29OCT2018	DC V4.12	INTRA_ARTICULAR		
D1TEST	29OCT2018	DC V4.12	GASTROSTOMY		
D1TEST	29OCT2018	DC V4.12	⋮		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

medadm_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_SOURCE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	OD		
D1TEST	29OCT2018	DC V4.12	DR		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

medadm_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_TYPE	RECORD_N	RECORD_PCT
D1TEST	29OCT2018	DC V4.12	ND		
D1TEST	29OCT2018	DC V4.12	RX		
D1TEST	29OCT2018	DC V4.12	NI		
D1TEST	29OCT2018	DC V4.12	UN		
D1TEST	29OCT2018	DC V4.12	OT		
D1TEST	29OCT2018	DC V4.12	NULL or missing		
D1TEST	29OCT2018	DC V4.12	Values outside of CDM specifications		

medadm_l3_sdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_ START_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	2004			
D1TEST	29OCT2018	DC V4.12	2005			
D1TEST	29OCT2018	DC V4.12	2006			
D1TEST	29OCT2018	DC V4.12	2007			
D1TEST	29OCT2018	DC V4.12	2008			
D1TEST	29OCT2018	DC V4.12	2009			
D1TEST	29OCT2018	DC V4.12	NULL or missing			

medadm_l3_sdate_ym [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_ START_DATE	RECORD_N
D1TEST	29OCT2018	DC V4.12	2014_07	
D1TEST	29OCT2018	DC V4.12	2014_08	
D1TEST	29OCT2018	DC V4.12	2014_09	
D1TEST	29OCT2018	DC V4.12	2014_10	

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D1TEST	29OCT2018	DC V4.12	2014_11	
D1TEST	29OCT2018	DC V4.12	2014_12	
D1TEST	29OCT2018	DC V4.12	NULL or missing	

medadm_l3_code_type [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_CODE	MEDADMIN_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXX	ND		
D1TEST	29OCT2018	DC V4.12	XXX	RX		
D1TEST	29OCT2018	DC V4.12	XXX	NI		
D1TEST	29OCT2018	DC V4.12	XXX	UN		
D1TEST	29OCT2018	DC V4.12	XXX	OT		
D1TEST	29OCT2018	DC V4.12	XXX	NULL or missing		
D1TEST	29OCT2018	DC V4.12	XXX	Values Outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	⋮	⋮		
D1TEST	29OCT2018	DC V4.12	NULL or missing	ND		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXVIII. TABLE SHELL: OBS_CLIN queries

obsclin_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	PATID			
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	OBSCLINID			
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	ENCOUNTERID			
D1TEST	29OCT2018	DC V4.12	OBS_CLIN	OBSCLIN_PROVIDERID			

obsclin_l3_type_code [1]

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	OBSCLIN_CODE	OBSCLIN_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	29OCT2018	DC V4.12	XXXX-X	LC		
D1TEST	29OCT2018	DC V4.12	XXXXXXXXXX	SM		
D1TEST	29OCT2018	DC V4.12	XXX	NI		
D1TEST	29OCT2018	DC V4.12	XXX	UN		
D1TEST	29OCT2018	DC V4.12	XXX	OT		
D1TEST	29OCT2018	DC V4.12	XXX	NULL or missing		
D1TEST	29OCT2018	DC V4.12	XXX	Values Outside of CDM specifications		
D1TEST	29OCT2018	DC V4.12	⋮	⋮		
D1TEST	29OCT2018	DC V4.12	NULL or missing	LC		

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.

XXIX. Version History

Date	Version	Description
Feb 3, 2016	v3.00	Original release.
Mar 17, 2016	v3.01	Corrected truncation of some query results by increasing field lengths. In VITAL_L3_HT, height categories of "<0" and "0-10" were both displaying as "0-10" due to a precision issue with PROC FORMAT/PROC MEANS; this was corrected. In PRO_L3_PXDATE_Y was incorrectly labeled ADMIT_DATE; this was corrected to PX_DATE. Updated all documentation and code to v3.01.
Nov 7, 2016	v3.02	Added queries of DEATH, DISPENSING, LAB_RESULT_CM, and PRESCRIBING (35 queries). Added 7 cross-table queries. Revised 14 queries (retained backwards compatibility). Revised the low cell count threshold logic to conform to PCORnet's new minimum bin size policy. Added the Empirical Data Curation Report.
Nov 18, 2016	v3.03	Eliminated the need for the SAS ACCESS/Interface to PC Files module. Resolves the following warning: "WARNING: In a call to the CATS function, the buffer allocated for the result was not long enough to contain the concatenation of all the arguments."
Mar 21, 2017	v3.04	Modified the program so that optional variables which are 100% missing will not cause errors or omissions. In ENC_L3_ENCTYPE, corrected the calculations for ELIG_RECORD_N and UNIQUE_VISIT_N. In XTBL_L3_DASH2 and XTBL_L3_DASH3, changed the logic to use PRESCRIBING. RX_ORDER_DATE instead of RX_START_DATE. In XTBL_L3_DASH3, changed the logic to not require LAB_RESULT_CM.LAB_NAME to be populated. In Empirical Data Curation (EDC) Table IIE, corrected the highlighting and added the PRESCRIBING table for orphan ENCOUNTERIDS. In Table IIIB, corrected the percentage calculations. In EDC Table IVD, corrected the "% of encounters without a principal diagnosis" calculation.
Jul 5, 2017	V3.10	Modified queries to conform to CDM v3.1. Added queries of the CONDITION, PCORNET_TRIAL, DEATH_CAUSE, and PRO_CM tables. Added 12 queries pertaining to previously characterized tables. Revised 31 queries. Incorporated PCORnet Data Checks v3.
Sept 18, 2017	V3.11	In the Data Curation query, corrected an omission in the "enc_l3_enctype_disdisp" query. In EDC Table IIB, added RX_QUANTITY_UNIT and corrected calculation for PX_TYPE. In EDC Table IVC, added DX_ORIGIN. In EDC Table IVE, corrected the percentage calculation.
Nov 20, 2017	V3.12	Incorporated the PCORnet Code Errors v3 program. In the Data Curation query, added 13 queries pertaining to previously characterized tables; revised 3 queries; and deprecated 6 queries. In the Empirical Data Curation report, incorporated PCORnet Data Checks v4, added 1 table, and revised 14 tables.
June 8, 2018	V4.10	Modified existing queries to conform to CDM v4.1. Incorporated the PCORnet Code Errors v5 program. In the Data Curation query, added 40 queries (24 pertaining to previously characterized tables; 16 for tables new to CDM v4.1); revised 27 queries; and deprecated 2 queries. In the Empirical Data Curation report, incorporated PCORnet Data Checks v5, added 1 table and 2 charts, and revised 15 tables.
June 29, 2018	V4.11	Corrected the DIAGNOSIS and PROCEDURES information in Table ID. Added additional DATE_MGMT fields to Table IIB.
Oct 8, 2018	V4.12	Corrected minor bugs in v4.11. Split the data curation program into 3 programs. Separated the data curation and code errors "run" programs. In the Data Curation program, modified the lookback logic to remove the date restriction from the DEATH table and include records with non-missing dates. Added an Empirical Data Curation (EDC) preparation program. In the Empirical Data Curation program, updated the reference files to reflect Cycle 5 results and to exclude LOINC codes which have no variation from Data Check 2.06.

1. PDF file limited to the 100 most frequent observations with counts above the low cell count threshold and sorted by descending record count.