



Work Plan: Data Curation Query Package

**V5.11
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I. Purpose and Scope

The purpose of the Data Curation Query Package v5.11 is to characterize the data in PCORnet Common Data Model (CDM) v5.1. This package examines all 22 tables but characterization of the HASH_TOKEN table is limited to assessing table-level conformance. The package consists of a potential 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 v7. Output tables will be produced by running SAS programs against static local DataMarts in PCORnet CDM v5.1 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, HPRN/CRN-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 HPRN/CRN 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 the response to this query. The ETL ADD is stored in a REDCap® database.

Low Cell Count Threshold

Users may specify a low cell count threshold that establishes the minimum number of observations required to protect against possible identification of subject data. 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 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.

The default low cell count threshold value is set to zero (0) in accordance with the PCRF Scope of Work. If this value is changed it will be highlighted in orange in the Empirical Data Curation report.

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 257 query output tables depending on how many CDM tables are populated. Information about each output table is provided in Sections IV and Sections XI-XXXIII. 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 v7. The table of contents is shown in Section V.

Lookback Date

The 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 (specifically, the cross-table portion) 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, PROVIDER or LDS_ADDRESS_HISTORY 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, PCORNTRIAL.TRIAL_ENROLL_DATE, MED_ADMIN.MEDADMIN_START_DATE, OBS_CLIN.OBSCLIN_DATE, OBS_GEN.OBSGEN_DATE and IMMUNIZATION.VX_RECORD_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) and Sujung Choi (sujung.choi@duke.edu).

II. Potential Code Errors Query

The purpose of the Potential Code Errors Program is to help network partners identify exceptions to the expected formats for selected codes. Output tables will be produced by running SAS programs against static local DataMarts in PCORnet CDM 5.1 format with SAS data types.

This program identifies exceptions to the expected code length or content for 8 coding terminologies used in one or more CDM tables. 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; ICD10 procedure codes must be 7 alphanumeric chara). These heuristics will **not** identify all erroneous codes, and will only evaluate codes which are classified as one of the qualifying terminologies (e.g. a ICD9 diagnosis code labeled as a SNOMED-CT code type will not be evaluated). The CDM specifications (available on pcornet.org) provide guidance on addressing potential errors (General Implementation Guidance issue #5). The heuristics and CDM tables for each terminology are shown in the table below.

Terminology	Unexpected length (after removing decimals if applicable)	Unexpected string	Unexpected alphabetical character	Unexpected numeric character	CDM tables
ICD9 diagnosis	Not 3-5	000.x	Any alphabetical character other than E or V	No numeric characters	CONDITION; DIAGNOSIS; OBS_GEN
ICD10 diagnosis	Not 3-7	000.x or 999.x	First character is not alphabetical	No numeric characters	CONDITION; DIAGNOSIS; OBS_GEN
CPT/HCPCPS	Less than 5	00000x or 99999x	n/a	No numeric characters	IMMUNIZATION; OBS_GEN; PROCEDURES;
ICD9 procedures	Not 3-4	00.00	Any alphabetical character	n/a ^c	OBS_GEN; PROCEDURES
ICD10 procedures	Not 3-7 ^a	0000000 or 9999999	n/a	n/a	OBS_GEN; PROCEDURES
NDC	Not 11	00000000000 or 99999999999	Any alphabetical character ²	n/a ^c	DISPENSING; IMMUNIZATION; MED_ADMIN; OBS_GEN; PROCEDURES
RXNORM_CUI	Not 2-7	n/a	Any alphabetical character	n/a ^c	IMMUNIZATION; MED_ADMIN; OBS_GEN; PRESCRIBING
LOINC	Not 3-7 ^b	No hyphen in the penultimate position	Any alphabetical character	n/a ^c	LAB_RESULT_CM; OBS_CLIN; OBS_GEN

a. Must be 7 digits for billing but this allows for shorter codes which may appear in electronic health record data.

b. Current LOINC codes are 5+ digits but this allows for shorter deprecated codes.

c. Redundant with the unexpected alphabetical character rule.

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 ENOUNTER 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 ENOUNTER 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 ENOUNTERID.
- DISTINCT_PATID_N: Count of records with unique values for PATID.
- DISTINCT_VISIT_N: Count of unique visits in the ENOUNTER table. Visits are a concatenation of PATID + PROVIDER_ID + ENC_TYPE + ADMIT_DT.
- ELIG_RECORD_N: Count of records in the ENOUNTER table where PATID, PROVIDER_ID, ENC_TYPE, and ADMIT_DT are all populated.
- ENC_TYPE Mismatch: These fields are replicated from the ENOUNTER 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 ENOUNTER 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 in (null, NI, UN, OT) 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 in (null, NI, UN, OT).
- 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 in (null, NI, UN, OT) and (4) SPECIMEN_SOURCE is not in (null, NI, UN, OT, UNK_SUB, SMPLS, SPECIMEN)
- 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 in (null, NI, UN, OT) and (4) RESULT_UNIT is not in (null, NI, UN, OT)
- 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 in (null, NI, UN, OT) and (4) SPECIMEN_SOURCE is not in (null, NI, UN, OT, UNK_SUB, SMPLS, SPECIMEN) and (5) RESULT_UNIT is not in (null, NI, UN, OT)
- 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 in (null, NI, UN, OT) 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_MODIFIER_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.
- ENOUNTERID Orphan: An ENOUNTERID which is not in the ENOUNTER 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
1	CONDITION	cond_l3_condition	CONDITION frequency
2	CONDITION	cond_l3_n	Counts PATID, ENCOUNTERID, and CONDITIONID
3	CONDITION	cond_l3_rdate_y	REPORT_DATE year frequency
4	CONDITION	cond_l3_rdate_ym	REPORT_DATE year month frequency
5	CONDITION	cond_l3_source	CONDITION_SOURCE frequency
6	CONDITION	cond_l3_status	CONDITION_STATUS frequency
7	CONDITION	cond_l3_type	CONDITION_TYPE frequency
8	DEATH	death_l3_date_y	DEATH_DATE year frequency
9	DEATH	death_l3_date_ym	DEATH_DATE year month frequency
10	DEATH	death_l3_impute	DEATH_DATE_IMPUTE frequency
11	DEATH	death_l3_match	DEATH_MATCH_CONFIDENCE frequency
12	DEATH	death_l3_n	Counts non-missing, distinct, and missing PATID and DEATHID
13	DEATH	death_l3_source	DEATH_SOURCE frequency
14	DEATH	death_l3_source_ym	DEATH_SOURCE and DEATH_DATE year month crosstab
15	DEATH_CAUSE	deathc_l3_code	DEATH_CAUSE_CODE frequency
16	DEATH_CAUSE	deathc_l3_conf	DEATH_CAUSE_CONFIDENCE frequency
17	DEATH_CAUSE	deathc_l3_n	Counts PATID, DEATH_CAUSE, and DEATHCID
18	DEATH_CAUSE	deathc_l3_source	DEATH_CAUSE_SOURCE frequency

ID	PCORnet Table(s)	Output table	Output table description
19	DEATH_CAUSE	deathc_l3_type	DEATH_CAUSE_TYPE frequency
20	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.
21	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.
22	DEMOGRAPHIC	dem_l3_genderdist	GENDER_IDENTITY frequency
23	DEMOGRAPHIC	dem_l3_orientdist	SEXUAL_ORIENTATION FREQUENCY
24	DEMOGRAPHIC	dem_l3_hispdist	HISPANIC frequency
25	DEMOGRAPHIC	dem_l3_n	Counts non-missing, distinct, and missing PATID
26	DEMOGRAPHIC	dem_l3_patpreflang	PAT_PREF_LANGUAGE_SPOKEN frequency
27	DEMOGRAPHIC	dem_l3_racedist	RACE frequency
28	DEMOGRAPHIC	dem_l3_sexdist	SEX frequency
29	DIAGNOSIS	dia_l3_adate_y	ADMIT_DATE year frequency
30	DIAGNOSIS	dia_l3_adate_ym	ADMIT_DATE year month frequency
31	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.
32	DIAGNOSIS	dia_l3_dx	DX frequency
33	DIAGNOSIS	dia_l3_dxtype	DX_TYPE frequency
34	DIAGNOSIS	dia_l3_dx_dxtype	DX and DX_TYPE crosstab
35	DIAGNOSIS	dia_l3_dxpoa	DX_POA frequency
36	DIAGNOSIS	dia_l3_dxsource	DX_SOURCE frequency
37	DIAGNOSIS	dia_l3_dxtype_adate_y	DX_TYPE and ADMIT_DATE year crosstab
38	DIAGNOSIS	dia_l3_dxtype_dxsource	DX_TYPE and DX_SOURCE crosstab
39	DIAGNOSIS	dia_l3_dxtype_enctype	DX_TYPE and ENC_TYPE crosstab
40	DIAGNOSIS	dia_l3_enctype	ENC_TYPE frequency
41	DIAGNOSIS	dia_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab
42	DIAGNOSIS	dia_l3_n	Counts PATID, ENCOUNTERID, and DIAGNOSISID
43	DIAGNOSIS	dia_l3_origin	DX_ORIGIN frequency
44	DIAGNOSIS	dia_l3_pdx	PDX frequency
45	DIAGNOSIS	dia_l3_pdx_enctype	PDX and ENC_TYPE crosstab
46	DIAGNOSIS	dia_l3_pdxgrp_enctype	PDX group and ENC_TYPE crosstab
47	DIAGNOSIS	dia_l3_pdx_detail	ENC_TYPE and DX_ORIGIN crosstab for principal diagnosis records
48	DIAGNOSIS	dia_l3_dxdate_y	DX_DATE year frequency
49	DIAGNOSIS	dia_l3_dxdate_ym	DX_DATE year month frequency

ID	PCORnet Table(s)	Output table	Output table description
50	DIAGNOSIS	dia_l3_dcgroupt	Count of PATID by data curation diagnosis group
51	DISPENSING	disp_l3_ndc	NDC frequency
52	DISPENSING	disp_l3_ddate_y	DISPENSE_DATE year frequency
53	DISPENSING	disp_l3_ddate_ym	DISPENSE_DATE year month frequency
54	DISPENSING	disp_l3_dispamt_dist	Descriptive statistics for DISPENSE_AMT
55	DISPENSING	disp_l3_dose_dist	Descriptive statistics for DISPENSE_DOSE_DISP
56	DISPENSING	disp_l3_doseunit	DISPENSE_DOSE_DISP_UNIT frequency
57	DISPENSING	disp_l3_route	DISPENSE_ROUTE frequency
58	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.
59	DISPENSING	disp_l3_supdist2	Record count by category of RX_DAYS_SUPP
60	DISPENSING	disp_l3_source	DISPENSE_SOURCE frequency
61	ENCOUNTER	enc_l3_adate_y	ADMIT_DATE year frequency
62	ENCOUNTER	enc_l3_adate_ym	ADMIT_DATE year month frequency
63	ENCOUNTER	enc_l3_admsrc	ADMITTING_SOURCE frequency
64	ENCOUNTER	enc_l3_dash1	Counts the number of patients with any 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.
65	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.
66	ENCOUNTER	enc_l3_ddate_y	DISCHARGE_DATE year frequency
67	ENCOUNTER	enc_l3_ddate_ym	DISCHARGE_DATE year month frequency
68	ENCOUNTER	enc_l3_disdisp	DISCHARGE_DISPOSITION frequency
69	ENCOUNTER	enc_l3_disstat	DISCHARGE_STATUS frequency
70	ENCOUNTER	enc_l3_drg	DRG frequency.
71	ENCOUNTER	enc_l3_drg_type	DRG_TYPE frequency
72	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

ID	PCORnet Table(s)	Output table	Output table description
			count of records where all fields used to define a visit are populated)
73	ENCOUNTER	enc_l3_enctype_adate_y	ENC_TYPE and ADMIT_DATE year month crosstab
74	ENCOUNTER	enc_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab
75	ENCOUNTER	enc_l3_enctype_admsrc	ENC_TYPE by ADMITTING_SOURCE crosstab
76	ENCOUNTER	enc_l3_enctype_ddate_ym	ENC_TYPE and DISCHARGE_DATE year month crosstab
77	ENCOUNTER	enc_l3_enctype_disdisp	ENC_TYPE and DISCHARGE_DISPOSITION crosstab
78	ENCOUNTER	enc_l3_enctype_disstat	ENC_TYPE and DISCHARGE_STATUS crosstab
79	ENCOUNTER	enc_l3_enctype_drg	ENC_TYPE and DRG_TYPE crosstab
80	ENCOUNTER	enc_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and PROVIDERID, and FACILITYID
81	ENCOUNTER	enc_l3_pertype1	PAYER_TYPE_PRIMARY frequency
82	ENCOUNTER	enc_l3_pertype2	PAYER_TYPE_SECONDARY frequency
83	ENCOUNTER	enc_l3_facilitytype	FACILITY_TYPE frequency
84	ENCOUNTER	enc_l3_facilityloc	FACILITY_LOCATION frequency
85	ENCOUNTER	enc_l3_facilitytype_facilityloc	FACILITY_TYPE and FACILITY_LOCATION(first 3 digits of a zipcode) crosstab
86	ENROLLMENT	enr_l3_basedist	ENR_BASIS frequency
87	ENROLLMENT	enr_l3_dist_end	Descriptive statistics for distinct ENR_END_DATE
88	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.
89	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.
90	ENROLLMENT	enr_l3_dist_start	Descriptive statistics for distinct ENR_START_DATE
91	ENROLLMENT	enr_l3_enr_ym	ENR_START_DATE frequency

ID	PCORnet Table(s)	Output table	Output table description
92	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)
93	ENROLLMENT	enr_l3_per_patid	Descriptive statistics for number of enrollment periods per PATID.
94	ENROLLMENT	enr_l3_chart	CHART frequency
95	LAB_RESULT_CM	lab_l3_abn	ABN_IND frequency
96	LAB_RESULT_CM	lab_l3_dcgroupt	Frequency by DC_LAB_GROUP
97	LAB_RESULT_CM	lab_l3_high	NORM_MODIFIER_HIGH frequency
98	LAB_RESULT_CM	lab_l3_loc	RESULT_LOC frequency
99	LAB_RESULT_CM	lab_l3_loinc	LAB_LOINC frequency
100	LAB_RESULT_CM	lab_l3_loinc_result_num	RESULT_NUM descriptive statistics by LAB_LOINC code
101	LAB_RESULT_CM	lab_l3_loinc_source	LAB_LOINC and SPECIMEN_SOURCE crosstab for a subset of LOINC codes
102	LAB_RESULT_CM	lab_l3_low	NORM_MODIFIER_LOW frequency
103	LAB_RESULT_CM	lab_l3_mod	RESULT_MODIFIER frequency
104	LAB_RESULT_CM	lab_l3_n	Counts non-missing, distinct, and missing PATID, LAB_RESULT_CM_ID, and ENCOUNTERID
105	LAB_RESULT_CM	lab_l3_priority	PRIORITY frequency
106	LAB_RESULT_CM	lab_l3_px_pxtype	LAB_PX and LAB_PXTYPE crosstab
107	LAB_RESULT_CM	lab_l3_px_type	LAB_PX_TYPE frequency
108	LAB_RESULT_CM	lab_l3_qual	RESULT_QUAL frequency
109	LAB_RESULT_CM	lab_l3_raw_name	RAW_LAB_NAME frequency
110	LAB_RESULT_CM	lab_l3_rdate_y	RESULT_DATE year frequency
111	LAB_RESULT_CM	lab_l3_rdate_ym	RESULT_DATE year month frequency
112	LAB_RESULT_CM	lab_l3_recordc	Frequency of records with varying levels of completeness across variables
113	LAB_RESULT_CM	lab_l3_snomed	RESULT_SNOMED frequency
114	LAB_RESULT_CM	lab_l3_source	SPECIMEN_SOURCE frequency
115	LAB_RESULT_CM	lab_l3_unit	RESULT_UNIT frequency
116	LAB_RESULT_CM	lab_l3_loinc_result_num_5y	RESULT_NUM descriptive statistics by LAB_LOINC code in the 5 years of the lookback period
117	LAB_RESULT_CM	lab_l3_loinc_source_5y	LAB_LOINC and SPECIMEN_SOURCE crosstab for a

ID	PCORnet Table(s)	Output table	Output table description
			subset of LOINC codes in the 5 years of lookback period
118	LAB_RESULT_CM	lab_l3_n_5y	Counts PATID, LAB_RESULT_CM_ID, and ENOUNTERID in the 5 years of lookback period
119	LAB_RESULT_CM	lab_l3_recordc_5y	Frequency of records with varying levels of completeness across variables in the 5 years of lookback period
120	LAB_RESULT_CM	lab_l3_rsource	LAB_RESULT_SOURCE frequency
121	LAB_RESULT_CM	lab_l3_lsource	LAB_LOINC_SOURCE frequency
122	LAB_RESULT_CM	lab_l3_loinc_unit	LAB_LOINC and RESULT_UNIT crosstab
123	MED_ADMIN	medadm_l3_doseadm	Descriptive statistics for MEDADMIN_DOSE_ADMIN
124	MED_ADMIN	medadm_l3_doseadmunit	MEDADMIN_DOSE_ADMIN_UNIT frequency
125	MED_ADMIN	medadm_l3_n	Counts MEDADMINID and PATID
126	MED_ADMIN	medadm_l3_route	MEDADMIN_ROUTE frequency
127	MED_ADMIN	medadm_l3_source	MEDADMIN_SOURCE frequency
128	MED_ADMIN	medadm_l3_type	MEDADMIN_TYPE frequency
129	MED_ADMIN	medadm_l3_sdate_y	MEDADMIN_START_DATE year frequency
130	MED_ADMIN	medadm_l3_sdate_ym	MEDADMIN_START_DATE year month frequency
131	MED_ADMIN	medadm_l3_code_type	MEDADMIN_TYPE and MEDADMIN_CODE crosstab
132	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.
133	MULTIPLE	elapsed_all	Displays the query start time, query end time, and query run time for each table created by the data_curation_all program, the cumulative run time for the program and the dataset loading time.
134	MULTIPLE	elapsed_main	Displays the query start time, query end time, and query run time for each table created by the data_curation_main program, the

ID	PCORnet Table(s)	Output table	Output table description
			cumulative run time for the program and the dataset loading time.
135	MULTIPLE	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.
136	MULTIPLE	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.
137	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.
138	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.
139	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 DIAGNOSIS.ADMIT_DATE. If the

ID	PCORnet Table(s)	Output table	Output table description
			maximum ADMIT_DATE is in the future, the current date is substituted.
140	MULTIPLE	xtbl_l3_date_logic	Identifies illogical relationships between BIRTH_DATE, DEATH_DATE, and key dates in other tables
141	MULTIPLE	xtbl_l3_dates	Descriptive statistics and counts of records with future dates or dates prior to January 2010 for all date fields.
142	MULTIPLE	xtbl_l3_lab_enctype	# of records and patients with lab records by encounter type.
143	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.
144	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.
145	MULTIPLE	xtbl_l3_non_unique	Identify encounters which are associated with more than 1 patient (PATID) in the same table
146	MULTIPLE	xtbl_l3_pres_enctype	# of records and patients with prescribing records by encounter type.
147	MULTIPLE	xtbl_l3_times	Descriptive statistics for all time fields.
148	MULTIPLE	xtbl_l3_race_enc	# of records and patients by RACE among patients with at least 1 encounter after 2009(from 2010)
149	OBS_CLIN	obsclin_l3_n	Counts OBSCLINID and PATID
150	OBS_CLIN	obsclin_l3_code_type	OBSCLIN_TYPE and OBSCLIN_CODE crosstab
151	OBS_CLIN	obsclin_l3_mod	OBSCLIN_RESULT_MODIFIER frequency
152	OBS_CLIN	obsclin_l3_qual	OBSCLIN_RESULT_QUAL frequency
153	OBS_CLIN	obsclin_l3_runit	OBSCLIN_RESULT_UNIT frequency
154	OBS_CLIN	obsclin_l3_type	OBSCLIN_TYPE frequency
155	OBS_CLIN	obsclin_l3_source	OBSCLIN_SOURCE frequency

ID	PCORnet Table(s)	Output table	Output table description
156	OBS_GEN	obsgen_l3_mod	OBSGEN_RESULT_MODIFIER frequency
157	OBS_GEN	obsgen_l3_tmod	OBSGEN_TABLE_MODIFIER frequency
158	OBS_GEN	obsgen_l3_n	Counts OBSGENID, PATID, ENOUNTERID and OBSGEN_PROVIDERID
159	OBS_GEN	obsgen_l3_qual	OBSGEN_RESULT_QUAL frequency
160	OBS_GEN	obsgen_l3_runit	OBSGEN_RESULT_UNIT frequency
161	OBS_GEN	obsgen_l3_type	OBSGEN_TYPE frequency
162	OBS_GEN	obsgen_l3_code_type	OBSGEN_TYPE and OBSGEN_CODE crosstab
163	OBS_GEN	obsgen_l3_source	OBSGEN_SOURCE frequency
164	PCORNTRIAL	trial_l3_n	Counts PATID, TRIALID, PARTICIPANTID, and TRIAL_KEY
165	PRESCRIBING	pres_l3_basis	RX_BASIS frequency
166	PRESCRIBING	pres_l3_dispaswrtn	RX_DISPENSE_AS_WRITTEN frequency
167	PRESCRIBING	pres_l3_freq	RX_FREQUENCY frequency
168	PRESCRIBING	pres_l3_n	Counts non-missing, distinct, and missing PATID, PRESCRIBINGID, ENOUNTERID, and RX_PROVIDERID
169	PRESCRIBING	pres_l3_odate_y	RX_ORDER_DATE year frequency
170	PRESCRIBING	pres_l3_odate_ym	RX_ORDER_DATE year month frequency
171	PRESCRIBING	pres_l3_prnflag	RX_PRN_FLAG frequency
172	PRESCRIBING	pres_l3_rx cui	RXCUI frequency
173	PRESCRIBING	pres_l3_rx cui_rxsup	Descriptive statistics for RX_DAYS_SUPPLY by RXNORM_CUI
174	PRESCRIBING	pres_l3_rx cui_tier	RXNORM_CUI frequency by tier of term type
175	PRESCRIBING	pres_l3_rx doseform	RX_DOSE_FORM frequency
176	PRESCRIBING	pres_l3_rx doseodr_dist	Descriptive statistics for RX_DOSE_ORDERED
177	PRESCRIBING	pres_l3_rx doseodrunit	RX_DOSE_ORDERED_UNIT frequency
178	PRESCRIBING	pres_l3_rx qty_dist	Descriptive statistics for RX_QUANTITY
179	PRESCRIBING	pres_l3_rx refill_dist	Descriptive statistics for RX_REFILLS
180	PRESCRIBING	pres_l3_route	RX_ROUTE frequency
181	PRESCRIBING	pres_l3_source	RX_SOURCE frequency
182	PRESCRIBING	pres_l3_rawrxmed	RAW_RX_MED_NAME frequency

ID	PCORnet Table(s)	Output table	Output table description
183	PRESCRIBING	pres_l3_supdist2	Record count by category of RX_DAYS_SUPPLY
184	PRESCRIBING	pres_l3_rx cui_5y	RXNORM_CUI frequency and term type information in the 5 years of lookback period
185	PRESCRIBING	pres_l3_rx cui_tier_5y	RXNORM_CUI frequency by tier of term type in the 5 years of lookback period
186	PRO_CM	proc m_l3_cat	PRO_CAT frequency
187	PRO_CM	proc m_l3_itemfullname	PRO_ITEM_FULLNAME frequency
188	PRO_CM	proc m_l3_loinc	PRO_LOINC frequency
189	PRO_CM	proc m_l3_itemnm	PRO_ITEM_NAME frequency
190	PRO_CM	proc m_l3_measure_fullname	PRO_MEASURE_FULLNAME frequency
191	PRO_CM	proc m_l3_measurenm	PRO_MEASURE_NAME frequency
192	PRO_CM	proc m_l3_method	PRO_METHOD frequency
193	PRO_CM	proc m_l3_mode	PRO_MODE frequency
194	PRO_CM	proc m_l3_n	Counts PRO_CM_ID, PATID, and ENOUNTERID
195	PRO_CM	proc m_l3_pdate_y	PRO_DATE year frequency
196	PRO_CM	proc m_l3_pdate_ym	PRO_DATE year month frequency
197	PRO_CM	proc m_l3_type	PRO_TYPE FREQUENCY
198	PRO_CM	proc m_l3_source	PRO_SOURCE frequency
199	PROCEDURES	pro_l3_adate_y	ADMIT_DATE year frequency
200	PROCEDURES	pro_l3_adate_ym	ADMIT_DATE year month frequency
201	PROCEDURES	pro_l3_enctype	ENC_TYPE frequency
202	PROCEDURES	pro_l3_enctype_adate_ym	ENC_TYPE and ADMIT_DATE year month crosstab
203	PROCEDURES	pro_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and PROCEDURESID
204	PROCEDURES	pro_l3_ppx	PPX FREQUENCY
205	PROCEDURES	pro_l3_px	PX frequency
206	PROCEDURES	pro_l3_pxtyp e	PX_TYPE frequency

ID	PCORnet Table(s)	Output table	Output table description
207	PROCEDURES	pro_l3_px_pxtyp	PX and PX_TYPE crosstab
208	PROCEDURES	pro_l3_pxdate_y	PX_DATE year frequency
209	PROCEDURES	pro_l3_pxsource	PX_SOURCE frequency
210	PROCEDURES	pro_l3_pxtype_adate_y	PX_TYPE and ADMIT_DATE year crosstab
211	PROCEDURES	pro_l3_pxtype_enctype	PX_TYPE and ENC_TYPE crosstab
212	PROCEDURES	pro_l3_dcgrou	Count of PATID by data curation procedures group
213	PROVIDER	prov_l3_n	Counts PROVIDERID and PROVIDER_NPI
214	PROVIDER	prov_l3_npiflag	PROVIDER_NPI_FLAG frequency
215	PROVIDER	prov_l3_specialty	PROVIDER_SPECIALTY_PRIMARY frequency
216	PROVIDER	prov_l3_specialty_group	PROVIDER_SPECIALTY_PRIMARY group frequency
217	PROVIDER	prov_l3_sex	PROVIDER_SEX frequency
218	VITAL	vit_l3_bmi	BMI frequency
219	VITAL	vit_l3_bp_position_type	BP_POSITION_TYPE frequency
220	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.
221	VITAL	vit_l3_diastolic	DIASTOLIC frequency
222	VITAL	vit_l3_ht	HT frequency
223	VITAL	vit_l3_ht_dist	Descriptive statistics for HT
224	VITAL	vit_l3_mdate_y	MEASURE_DATE year frequency
225	VITAL	vit_l3_mdate_ym	MEASURE_DATE year month frequency
226	VITAL	vit_l3_n	Counts non-missing, distinct, and missing PATID, ENCOUNTERID, and VITALID
227	VITAL	vit_l3_smoking	SMOKING frequency
228	VITAL	vit_l3_systolic	SYSTOLIC frequency
229	VITAL	vit_l3_tobacco	TOBACCO frequency
230	VITAL	vit_l3_tobacco_type	TOBACCO_TYPE frequency
231	VITAL	vit_l3_vital_source	VITAL_SOURCE frequency
232	VITAL	vit_l3_wt	WT frequency

ID	PCORnet Table(s)	Output table	Output table description
233	VITAL	vit_l3_wt_dist	Descriptive statistics for WT
234	LDS_ADDRESS_HISTORY	ldsadrs_l3_n	Counts for PATID, ADDRESSID
235	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrsuse	ADDRESS_USE frequency
236	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrstype	ADDRESS_TYPE frequency
237	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrspref	ADDRESS_PREFERRED frequency
238	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrscity	ADDRESS_CITY frequency
239	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrsstate	ADDRESS_STATE frequency
240	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrszip5	ADDRESS_ZIP5 frequency
241	LDS_ADDRESS_HISTORY	ldsadrs_l3_adrszip9	ADDRESS_ZIP9 frequency
242	IMMUNIZATION	immune_l3_n	Counts for PATID, IMMUNIZATIONID, ENCOUNTERID, PROCEDURESID, VX_PROVIDERID
243	IMMUNIZATION	immune_l3_rdate_y	VX_RECORD_DATE year frequency
244	IMMUNIZATION	immune_l3_rdate_ym	VX_RECORD_DATE year month frequency
245	IMMUNIZATION	immune_l3_adate_y	VX_ADMIN_DATE year frequency
246	IMMUNIZATION	immune_l3_adate_ym	VX_ADMIN_DATE year month frequency
247	IMMUNIZATION	immune_l3_codetype	VX_CODE_TYPE frequency
248	IMMUNIZATION	immune_l3_code_codetype	VX_CODE and VX_CODETYPE crosstab
249	IMMUNIZATION	immune_l3_status	VX_STATUS frequency
250	IMMUNIZATION	immune_l3_statusreason	VX_STATUS_REASON frequency
251	IMMUNIZATION	immune_l3_source	VX_SOURCE frequency
252	IMMUNIZATION	immune_l3_dose_dist	VX_DOSE descriptive statistics
253	IMMUNIZATION	immune_l3_doseunit	VX_DOSE_UNIT frequency
254	IMMUNIZATION	immune_l3_route	VX_ROUTE frequency
255	IMMUNIZATION	immune_l3_bodysite	VX_BODY_SITE frequency
256	IMMUNIZATION	immune_l3_manufacturer	VX_MANUFACTURER frequency
257	IMMUNIZATION	immune_l3_lotnum	VX_LOT_NUM frequency
258	HASH_TOKEN	hash_l3_n	Counts for PATID

V. Empirical Data Curation Report

The data from all data curation query output tables except for the *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 v7. The report includes a table of contents, a data check exception summary, and up to 52 tables and charts, depending upon the number of CDM tables which are populated. The table of contents is below.

Section	Table	Table Description	Data Check(s)
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, and Body Mass Index (BMI)	n/a
	Table ID	Records, Patients, Encounters, and Date Ranges by Table	n/a
	Table IE	Records Per Table by Encounter Type	n/a
	Table IF	Date Obfuscation or Imputation	n/a
	Table IG	Lab Results For Selected Lab Tests	n/a
	Table IH	Patients with Selected Diagnoses	n/a
	Table II	Patients with Selected Procedures	n/a
	Chart IA	Trend in Vital Measures by Measurement Date, Past 5 Years	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
	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 Medications by Start Date, Past 5 Years	n/a
	Chart IH	Trend in Condition Records by Report Date, Past 5 Years	n/a
	Chart II	Trend in Death Records by Death Date and Source, Past 5 Years	n/a
	Chart IJ	Trend in Immunization Records by Vx Record 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, 1.02, 1.03, 1.04
	Table IIE	Orphan Records, Replication Errors and Encounter Duplication	1.08, 1.09, 1.10, 1.11, 1.12
	Table IIF	Potential Code Errors	1.13
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

	Table IIIG	Monthly Record Volume Outliers, Selected Domains	2.08
	Chart IIIA	Monthly Record Volume Outliers, Encounters	2.08
	Chart IIIB	Monthly Record Volume Outliers, Diagnoses	2.08
	Chart IIIC	Monthly Record Volume Outliers, Procedures	2.08
	Chart IID	Monthly Record Volume Outliers, Vitals	2.08
	Chart IIIE	Monthly Record Volume Outliers, Prescribing	2.08
	Chart IIIF	Monthly Record Volume Outliers, Labs	2.08
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	2.07, 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, Overall and Past 5 Years	3.08
	Table IVI	Laboratory Result Data Completeness, Overall and Past 5 Years	3.09, 3.10, 3.12
	Table IVI_Ref	Laboratory Result Data Completeness Definitions	n/a
	Table VA	Changes in Tables	4.01
	Table VB	Changes in Selected Encounter Types and Domains	4.02
Section V: Data Persistence	Table VC	Changes in Selected Code Types	4.03

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 7 Data Curation Query Package Checklist.pdf

Data Curation Query Package v5.11 Work Plan.pdf

Investigative Data Check 2.06 Exceptions.xlsx

infolder

1. data_curation_query_base.sas
2. data_curation_query_lab.sas
3. data_curation_query_main.sas
4. data_curation_print.sas
5. data_curation_query_xtbl.sas
6. dc_reference.cpt (includes 15 SAS datasets: lab_loinc_ref, lab_dcgroup_ref, rxnorm_cui_ref, _qual, _route, _unit, facility_type, pat_pref_language_spoken, payer_type, rx_dose_form, provider_specialty_primary, specimen_source, dx_dcgroup_ref, px_dcgroup_ref, state, vx_body_site and vx_manufacturer). These datasets are created from the 2019-09-25-PCORnet-Common-Data-Model-v5dot1-parseable.xlsx.
7. edc_prep.sas
8. edc_reference.cpt (includes 8 SAS datasets: dc_summary, dc_tables, footers, headers, missingness, required_structure, toc, and q2_stat_dlg_loinc)
9. edc_report.sas
10. edc_template.sas
11. normalization.sas
12. potential_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). DMID=DataMart ID; DATE=response date

Produced by	File description
pcornet_code_errors.sas	code_error_summary (SAS dataset and csv file) <i>Up to 10 error files, if relevant code types are present:</i> bad_condition (SAS dataset and csv file) bad_dx (SAS dataset and csv file) bad_px (SAS dataset and csv file) bad_pres (SAS dataset and csv file) bad_lab (SAS dataset and csv file) bad_disp (SAS dataset and csv file) bad_medadmin (SAS dataset and csv file) bad_obsclin (SAS dataset and csv file) bad_obsgeen (SAS dataset and csv file) bad_immunization (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;	Up to 258 output tables (SAS dataset and csv file; see section IV) and set.log (contains the output results of the PROC SETINIT procedure. This information is used to populate XLBL_L3_METADATA)
normalization.sas	[DMID]_[DATE]_dc_norm.sas7dat

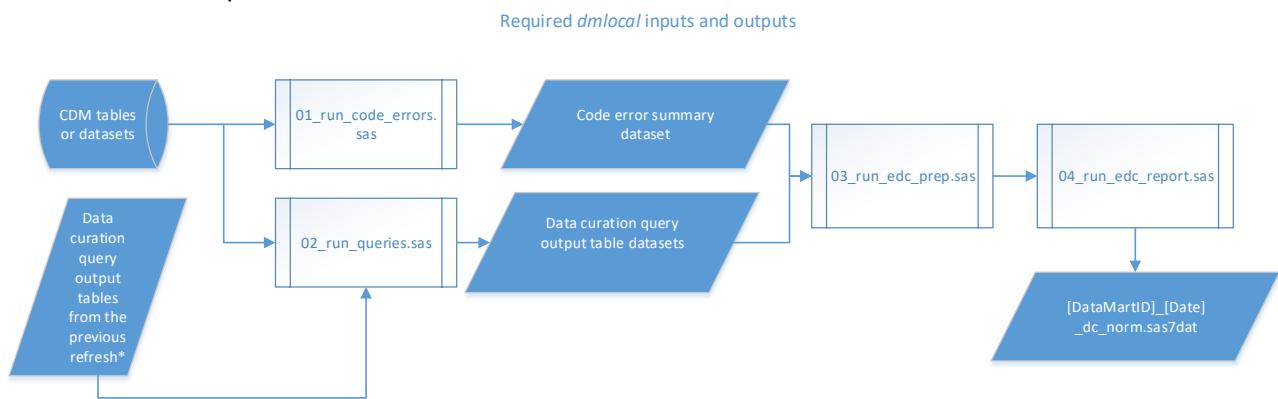
Files to be returned to the DRN OC (*drnoc* folder). DMID=DataMart ID; DATE=response date.

File name	Program produced by	File description
[DMID]_[DATE]_potential_code_errors.log	potential_code_errors.sas	The SAS log file for the program. Must be checked for errors and warnings.
[DMID]_[DATE]_Potential_Code_Errors.pdf	potential_code_errors.sas	The report produced by the program.
[DMID]_[DATE]_code_error_summary.cpt	potential_code_errors.sas	A SAS transport file (similar to a Zip file) containing the code error summary dataset produced by the program
<i>If all data curation queries are run at once</i> [DMID]_[DATE]_data_curation_all.cpt or <i>If data curation queries are run separately</i> [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).
<i>If all data curation queries are run at once</i> [DMID]_[DATE]_data_curation_all.pdf or <i>If data curation queries are run separately</i> [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; data_curation_print.sas	A PDF containing a partial print of the output tables for the benefit of non-programmers. For ease of readability, it excludes the first three columns of the table (DataMartID, Response Date, and Query Package), and large tables are limited to the 100

File name	Program produced by	File description
		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.
[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 <i>elapsed</i> 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.pdf	edc_report.sas	The report produced by the program.

IX. Query Input and Output Diagram

The diagram below illustrates how the query package uses information from the CDM tables and prior data curation results to produce the datasets in the *dmlocal* folder.



X. 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 *drcn* 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) 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 *sasprograms* folder, open **01_run_code_errors.sas**, **02_run_queries.sas** and **04_run_edc_report.sas** and 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=mypassword path=mydbname schema=myschema);
```
 - (2) In the *infolder* folder, open 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 all 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=`, leave the default value of 0.
 - ii) After `%let _grp,` provide one of the query group process option: `all`, `main`, `lab`, or `xtbl`.
 - (1) *To run the programs all at once:* Select “`all`” to run the data curation query programs as a batch; this option is recommended if you are not an experienced SAS user and for the final submission to the DRNOC.
 - (2) *To run the programs sequentially:* This is recommended for partners who have long run times and want to be able to remediate issues which only affect certain tables 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.
 - iii) After `%let lookback=`, leave the default value of 20.
 - d) In the **04_run_edc_report.sas** program, after `%let ppath=`, provide the outer folder containing the most recently approved query results (i.e. results for the previous DataMart refresh).
- 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`). If

you are working in Windows and executing the queries sequentially, you will need to close all open applications (e.g. PC SAS and Microsoft Word) before running the next program. Otherwise, you will get an error message from SAS like “Fatal ODS error has occurred. Unable to continue processing this output destination” and “File is in use”. You can monitor the query progress by checking the [DMID]_[DATE]_data_curation_progress_report.rtf document in the *drnoc* folder. Depending on your SAS processing environment, you may also see the same information in the SAS OUTPUT window or RESULTS window.

- 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. You should see a statement that says “No datasets are missing”. If a dataset is missing, it will be listed in the output. If there is no output, confirm that you entered the correct information after %let qpath=. 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 PDF file. Review the logs and output as instructed in the Query Package Checklist.
- 9) If you need to modify your data after running the queries, follow these guidelines for re-running the **02_run_queries.sas** programs, and then rerun the **03_run_edc_prep.sas** and **04_run_edc_report.sas** programs.
 - a) You must re-run the main program unless the only change you made is to a field in the HARVEST table that is not a REFRESH date or the DATAMARTID.
 - b) You must re-run the *xtbl* program if any of the following changes occurred: records were added or deleted, dates were changed, identifiers were changed, RACE or ENC_TYPE were changed, or anything in the HARVEST table was changed.
 - c) You must re-run the *lab* program if you make any changes to the LAB_RESULT_CM table.
- 10) Update the online ETL Annotated Dictionary as instructed in the Query Package Checklist.
- 11) 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;
```
- 12) Return the files in the *drnoc* folder (see section VIII), a completed Investigative Data Check 2.06 Exceptions spreadsheet if applicable, and a signed Query Package Checklist. If there is more than one version of any of the files in the *drnoc* folder, archive and/or delete the earlier versions and only return the ones with the most recent date (i.e., those reflecting the final results).
- 13) Retain all output from the final run in the *dmlocal* folder for use in future queries as shown in Section IX.

XI. Table Shells: Potential Code Errors

code_summary

Note: This dataset will include 1 row for each observed combination of table and code type.

Field	Description
TABLE	DIAGNOSIS, DISPENSING, LAB_RESULT_CM, MED_ADMIN, OBS_GEN, OBS_CLIN, PRESCRIBING, or PROCEDURES
CODE_TYPE	09,10, CH, ND, LC, or RX
BAD RECORDS	Count of potentially bad records
TOTAL RECORDS	Count of total records
PCT	The percent of records which are potentially bad records.

bad_dx; bad_px; bad_disp; bad_pres; bad_lab; bad_medadmin; bad_obsclin; bad_obsgen

Note: Tables will only be created if the table contains at least 1 record for the relevant code types.

Field	Description
[Varies]	Pseudoidentifier for the table, e.g. encounterID
CODE_TYPE	09,10, CH, ND, LC, or RX
CODE	The code. This field is renamed from the table-specific fields, e.g. DX, PX, LAB_LOINC, and MEDADMIN_CODE.
CODE_CLEAN	Uppercase code 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
TABLE	DIAGNOSIS, DISPENSING, LAB_RESULT_CM, MED_ADMIN, OBS_GEN, OBS_CLIN, PRESCRIBING, or PROCEDURES
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.

XII. Table Shells: DEMOGRAPHIC Queries

dem_l3_n

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	DATA SET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC	PATID			

dem_l3_ageyrsdist1

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

dem_l3_ageyrsdist2

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	AGE GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<0 yrs		
D1TEST	10JAN2020	DC V5.11	0-1 yrs		
D1TEST	10JAN2020	DC V5.11	2-4 yrs		
D1TEST	10JAN2020	DC V5.11	5-9 yrs		
D1TEST	10JAN2020	DC V5.11	10-14 yrs		
D1TEST	10JAN2020	DC V5.11	15-18 yrs		
D1TEST	10JAN2020	DC V5.11	19-21 yrs		
D1TEST	10JAN2020	DC V5.11	22-44 yrs		
D1TEST	10JAN2020	DC V5.11	45-64 yrs		
D1TEST	10JAN2020	DC V5.11	65-74 yrs		
D1TEST	10JAN2020	DC V5.11	75-110 yrs		
D1TEST	10JAN2020	DC V5.11	>110 yrs		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

dem_l3_genderdist

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	GENDER_IDENTITY	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	DC		
D1TEST	10JAN2020	DC V5.11	F		
D1TEST	10JAN2020	DC V5.11	GQ		
D1TEST	10JAN2020	DC V5.11	M		
D1TEST	10JAN2020	DC V5.11	MU		
D1TEST	10JAN2020	DC V5.11	SE		
D1TEST	10JAN2020	DC V5.11	TF		
D1TEST	10JAN2020	DC V5.11	TM		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		
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dem_l3_hispdist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	HISPANIC	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	R		
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dem_l3_racedist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RACE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	04		
D1TEST	10JAN2020	DC V5.11	05		
D1TEST	10JAN2020	DC V5.11	06		
D1TEST	10JAN2020	DC V5.11	07		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dem_l3_orientdist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SEXUAL_ORIENTATION	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AS		
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	DC		
D1TEST	10JAN2020	DC V5.11	GA		
D1TEST	10JAN2020	DC V5.11	LE		
D1TEST	10JAN2020	DC V5.11	MU		
D1TEST	10JAN2020	DC V5.11	QS		
D1TEST	10JAN2020	DC V5.11	QU		
D1TEST	10JAN2020	DC V5.11	SE		
D1TEST	10JAN2020	DC V5.11	ST		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dem_l3_sexdist

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	SEX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	A		
D1TEST	10JAN2020	DC V5.11	F		
D1TEST	10JAN2020	DC V5.11	M		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dem_l3_patpreflang¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	PATIENT_PREF_LANGUAGE_SPOKEN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AAR		
D1TEST	10JAN2020	DC V5.11	ABK		
D1TEST	10JAN2020	DC V5.11	ACE		
D1TEST	10JAN2020	DC V5.11	ACH		
D1TEST	10JAN2020	DC V5.11	ADA		
D1TEST	10JAN2020	DC V5.11	:		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XIII. Table Shells: ENCOUNTER Queries**enc_l3_n**

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	PATID			
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	PROVIDERID			
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	FACILITYID			

enc_l3_admsrc

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ADMITTING_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AF		
D1TEST	10JAN2020	DC V5.11	AL		
D1TEST	10JAN2020	DC V5.11	AV		
D1TEST	10JAN2020	DC V5.11	ED		
D1TEST	10JAN2020	DC V5.11	HH		
D1TEST	10JAN2020	DC V5.11	HO		
D1TEST	10JAN2020	DC V5.11	HS		
D1TEST	10JAN2020	DC V5.11	IP		
D1TEST	10JAN2020	DC V5.11	NH		
D1TEST	10JAN2020	DC V5.11	RH		

D1TEST	10JAN2020	DC V5.11	RS		
D1TEST	10JAN2020	DC V5.11	SN		
D1TEST	10JAN2020	DC V5.11	IH		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

enc_l3_enctype_admsrc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMITTING_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AV	AF		
D1TEST	10JAN2020	DC V5.11	ED	AL		
D1TEST	10JAN2020	DC V5.11	EI	AV		
D1TEST	10JAN2020	DC V5.11	IC	ED		
D1TEST	10JAN2020	DC V5.11	IP	HH		
D1TEST	10JAN2020	DC V5.11	IS	HO		
D1TEST	10JAN2020	DC V5.11	OA	HS		
D1TEST	10JAN2020	DC V5.11	OS	HO		
D1TEST	10JAN2020	DC V5.11	NI	HS		
D1TEST	10JAN2020	DC V5.11	UN	IP		
D1TEST	10JAN2020	DC V5.11	OT	NH		
D1TEST	10JAN2020	DC V5.11	NULL or missing	RH		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	RS		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	SN		
D1TEST	10JAN2020	DC V5.11	AV	IH		
D1TEST	10JAN2020	DC V5.11	AV	NI		
D1TEST	10JAN2020	DC V5.11	UN	UN		
D1TEST	10JAN2020	DC V5.11	IP	OT		
D1TEST	10JAN2020	DC V5.11	AV	NULL or missing		
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			

D1TEST	10JAN2020	DC V5.11	NULL or missing			
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enc_l3_adate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2015_07	
D1TEST	10JAN2020	DC V5.11	2015_08	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

enc_l3_enctype_adate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMIT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV	2015_07		
D1TEST	10JAN2020	DC V5.11	ED	2015_08		
D1TEST	10JAN2020	DC V5.11	EI	NULL or missing		
D1TEST	10JAN2020	DC V5.11	IC	2015_09		
D1TEST	10JAN2020	DC V5.11	IP	2015_10		
D1TEST	10JAN2020	DC V5.11	IS	2015_11		
D1TEST	10JAN2020	DC V5.11	OA	NULL or missing		
D1TEST	10JAN2020	DC V5.11	OS	2015_12		
D1TEST	10JAN2020	DC V5.11	NI	2016_01		
D1TEST	10JAN2020	DC V5.11	UN	2016_02		
D1TEST	10JAN2020	DC V5.11	OT	2016_03		
D1TEST	10JAN2020	DC V5.11	NULL or missing	2016_04		
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	2015			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

enc_l3_ddate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2015_07	
D1TEST	10JAN2020	DC V5.11	2015_08	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

enc_l3_enctype_ddate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DISCHARGE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV	2004_01		
D1TEST	10JAN2020	DC V5.11	AV	2004_02		
D1TEST	10JAN2020	DC V5.11	AV	NULL or missing		
D1TEST	10JAN2020	DC V5.11	ED	2004_01		

D1TEST	10JAN2020	DC V5.11	ED	2004_02		
D1TEST	10JAN2020	DC V5.11	ED	NULL or missing		
D1TEST	10JAN2020	DC V5.11	EI	2004_01		
D1TEST	10JAN2020	DC V5.11	EI	2004_02		
D1TEST	10JAN2020	DC V5.11	EI	NULL or missing		
D1TEST	10JAN2020	DC V5.11	NULL or missing	2004_01		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	2004_02		

enc_l3_disdisp

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_DISPOSITION	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	A		
D1TEST	10JAN2020	DC V5.11	E		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enc_l3_enctype_disdisp

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	DISCHARGE_DISPOSITION	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AV	A		
D1TEST	10JAN2020	DC V5.11	AV	E		
D1TEST	10JAN2020	DC V5.11	AV	NI		
D1TEST	10JAN2020	DC V5.11	AV	UN		
D1TEST	10JAN2020	DC V5.11	AV	OT		
D1TEST	10JAN2020	DC V5.11	AV	NULL or missing		
D1TEST	10JAN2020	DC V5.11	ED	A		
D1TEST	10JAN2020	DC V5.11	ED	E		
D1TEST	10JAN2020	DC V5.11	ED	NI		
D1TEST	10JAN2020	DC V5.11	ED	UN		
D1TEST	10JAN2020	DC V5.11	ED	OT		
D1TEST	10JAN2020	DC V5.11	ED	NULL or missing		
D1TEST	10JAN2020	DC V5.11	ED	Values outside of CDM specifications		

enc_l3_disstat

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISCHARGE_STATUS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AF		
D1TEST	10JAN2020	DC V5.11	AL		
D1TEST	10JAN2020	DC V5.11	AM		
D1TEST	10JAN2020	DC V5.11	AW		
D1TEST	10JAN2020	DC V5.11	EX		
D1TEST	10JAN2020	DC V5.11	HH		
D1TEST	10JAN2020	DC V5.11	HO		
D1TEST	10JAN2020	DC V5.11	HS		

D1TEST	10JAN2020	DC V5.11	IP		
D1TEST	10JAN2020	DC V5.11	NH		
D1TEST	10JAN2020	DC V5.11	RH		
D1TEST	10JAN2020	DC V5.11	RS		
D1TEST	10JAN2020	DC V5.11	SH		
D1TEST	10JAN2020	DC V5.11	SN		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

enc_l3_enctype_disstat¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DISCHARGE_STATUS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AV	HO		
D1TEST	10JAN2020	DC V5.11	ED	HO		
D1TEST	10JAN2020	DC V5.11	EI	HO		
D1TEST	10JAN2020	DC V5.11	IC	AW		
D1TEST	10JAN2020	DC V5.11	IP	HO		
D1TEST	10JAN2020	DC V5.11	IS	HO		
D1TEST	10JAN2020	DC V5.11	OA	HO		
D1TEST	10JAN2020	DC V5.11	OS	NULL or missing		
D1TEST	10JAN2020	DC V5.11	NI	HH		
D1TEST	10JAN2020	DC V5.11	OT	NI		
D1TEST	10JAN2020	DC V5.11	UN	UN		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	Values outside of CDM specifications		

enc_l3_drg¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DRG	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	001		
D1TEST	10JAN2020	DC V5.11	150		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enc_l3_drg_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DRG_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

enc_l3_enctype_drg¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	DRG	RECORD_N	RECORD_PCT
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D1TEST	10JAN2020	DC V5.11	AV	001				
D1TEST	10JAN2020	DC V5.11	AV	150				
D1TEST	10JAN2020	DC V5.11	AV	NULL or missing				
D1TEST	10JAN2020	DC V5.11	ED	001				
D1TEST	10JAN2020	DC V5.11	ED	150				
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	AV					
D1TEST	10JAN2020	DC V5.11	ED					
D1TEST	10JAN2020	DC V5.11	EI					
D1TEST	10JAN2020	DC V5.11	IC					
D1TEST	10JAN2020	DC V5.11	IP					
D1TEST	10JAN2020	DC V5.11	IS					
D1TEST	10JAN2020	DC V5.11	OA					
D1TEST	10JAN2020	DC V5.11	OS					
D1TEST	10JAN2020	DC V5.11	NI					
D1TEST	10JAN2020	DC V5.11	UN					
D1TEST	10JAN2020	DC V5.11	OT					
D1TEST	10JAN2020	DC V5.11	NULL or missing					
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications					

enc_l3_enctype_adate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	ADMIT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV	2004		
D1TEST	10JAN2020	DC V5.11	AV	2005		
D1TEST	10JAN2020	DC V5.11	AV	2006		
D1TEST	10JAN2020	DC V5.11	AV	2007		
D1TEST	10JAN2020	DC V5.11	AV	2008		
D1TEST	10JAN2020	DC V5.11	AV	2009		
D1TEST	10JAN2020	DC V5.11	ED	NULL or missing		
D1TEST	10JAN2020	DC V5.11	ED	2004		
D1TEST	10JAN2020	DC V5.11	ED	2005		
D1TEST	10JAN2020	DC V5.11	ED	2006		
D1TEST	10JAN2020	DC V5.11	ED	2007		
D1TEST	10JAN2020	DC V5.11	ED	2008		
D1TEST	10JAN2020	DC V5.11	ED	2009		
D1TEST	10JAN2020	DC V5.11	ED	NULL or missing		

enc_l3_dash1

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

enc_l3_dash2

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

enc_l3_payertype1¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PAYER_TYPE_PRIMARY_GRP	PAYER_TYPE_PRIMARY	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	MR	1			
D1TEST	10JAN2020	DC V5.11	MR	11			
D1TEST	10JAN2020	DC V5.11	OG	2			
D1TEST	10JAN2020	DC V5.11	:	:			
D1TEST	10JAN2020	DC V5.11	NI	NI			
D1TEST	10JAN2020	DC V5.11	OT	OT			
D1TEST	10JAN2020	DC V5.11	UN	UN			
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	Values outside of CDM specifications			

enc_l3_payertype2¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PAYER_TYPE_SECONDARY_GRP	PAYER_TYPE_SECONDARY	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	MR	1			
D1TEST	10JAN2020	DC V5.11	MR	11			
D1TEST	10JAN2020	DC V5.11	OG	2			
D1TEST	10JAN2020	DC V5.11	:	:			
D1TEST	10JAN2020	DC V5.11	NI	NI			
D1TEST	10JAN2020	DC V5.11	OT	OT			
D1TEST	10JAN2020	DC V5.11	UN	UN			
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	Values outside of			

				CDM specifications			
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enc_I3_facilitytype¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	FACILITY_TYPE_GRP	FACILITY_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	OTHER_CARE_SITE	ADULT_DAY_CARE_CENTER			
D1TEST	10JAN2020	DC V5.11	OTHER_OP_CARE_SITE	AMBULANCE_BASED_CARE			
D1TEST	10JAN2020	DC V5.11	CL/CENTER_AM_OP_CARE	AMBULATORY_CARE_SITE_OTHER			
D1TEST	10JAN2020	DC V5.11	:	:			
D1TEST	10JAN2020	DC V5.11	NI	NI			
D1TEST	10JAN2020	DC V5.11	UN	UN			
D1TEST	10JAN2020	DC V5.11	OT	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	Values outside of CDM specifications			

enc_I3_facilityloc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	FACILITY_LOCATION	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	77545			
D1TEST	10JAN2020	DC V5.11	77300			
D1TEST	10JAN2020	DC V5.11	76531			
D1TEST	10JAN2020	DC V5.11	:			
D1TEST	10JAN2020	DC V5.11	19600			
D1TEST	10JAN2020	DC V5.11	19401			
D1TEST	10JAN2020	DC V5.11	77511			
D1TEST	10JAN2020	DC V5.11	77512			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

enc_I3_facilitytype_facilityloc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	FACILITY_TYPE	FACILITY_LOCATION	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	ADULT_DAY_CARE_CENTER	77545			
D1TEST	10JAN2020	DC V5.11	AMBULANCE_BASED_CARE	77545			
D1TEST	10JAN2020	DC V5.11	AMBULATORY_CARE_SITE_OTHER	76531			
D1TEST	10JAN2020	DC V5.11	:	:			
D1TEST	10JAN2020	DC V5.11	NI	19401			
D1TEST	10JAN2020	DC V5.11	UN	19401			

D1TEST	10JAN2020	DC V5.11	OT	77511				
D1TEST	10JAN2020	DC V5.11	NULL or missing	77511				
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NULL or missing				

XIV. Table Shells: DIAGNOSIS Queries

dia_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	PATID			
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	DIAGNOSISID			
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	PROVIDERID			

dia_l3_dx¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX		
D1TEST	10JAN2020	DC V5.11	XXX		
D1TEST	10JAN2020	DC V5.11	XXX.X		
D1TEST	10JAN2020	DC V5.11	VXX.X		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX.XX		
D1TEST	10JAN2020	DC V5.11	XXX		
D1TEST	10JAN2020	DC V5.11	XXX		
D1TEST	10JAN2020	DC V5.11	XXX.X		
D1TEST	10JAN2020	DC V5.11	VXX.X		
D1TEST	10JAN2020	DC V5.11	XXX		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

dia_l3_dxtype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	11		
D1TEST	10JAN2020	DC V5.11	SM		
D1TEST	10JAN2020	DC V5.11	NI		

D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dia_l3_dx_dxtype¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX	DX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXX	09		
D1TEST	10JAN2020	DC V5.11	XXX	10		
D1TEST	10JAN2020	DC V5.11	XXX	11		
D1TEST	10JAN2020	DC V5.11	XXX	SM		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	NULL or missing			

dia_l3_dxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AD		
D1TEST	10JAN2020	DC V5.11	DI		
D1TEST	10JAN2020	DC V5.11	FI		
D1TEST	10JAN2020	DC V5.11	IN		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

dia_l3_dxtype_dxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	DX_SOURCE	RECORD_N
D1TEST	10JAN2020	DC V5.11	09	AD	
D1TEST	10JAN2020	DC V5.11	09	DI	
D1TEST	10JAN2020	DC V5.11	09	FI	
D1TEST	10JAN2020	DC V5.11	09	IN	
D1TEST	10JAN2020	DC V5.11	09	NI	
D1TEST	10JAN2020	DC V5.11	09	UN	
D1TEST	10JAN2020	DC V5.11	09	OT	
D1TEST	10JAN2020	DC V5.11	09	NULL or missing	

D1TEST	10JAN2020	DC V5.11	09	Values outside of CDM specifications
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dia_l3_PDX

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PDX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	P		
D1TEST	10JAN2020	DC V5.11	S		
D1TEST	10JAN2020	DC V5.11	X	-	-
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	P	AV			
D1TEST	10JAN2020	DC V5.11	P	ED			
D1TEST	10JAN2020	DC V5.11	P	EI			
D1TEST	10JAN2020	DC V5.11	P	IC			
D1TEST	10JAN2020	DC V5.11	P	IP			
D1TEST	10JAN2020	DC V5.11	P	IS			
D1TEST	10JAN2020	DC V5.11	P	OA			
D1TEST	10JAN2020	DC V5.11	P	OS			
D1TEST	10JAN2020	DC V5.11	P	NI			
D1TEST	10JAN2020	DC V5.11	P	UN			
D1TEST	10JAN2020	DC V5.11	P	OT			
D1TEST	10JAN2020	DC V5.11	P	NULL or missing			
D1TEST	10JAN2020	DC V5.11	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 encounter's principle diagnosis is unknown.

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PDXGRP	ENC_TYPE	DISTINCT_ENCID_N
D1TEST	10JAN2020	DC V5.11	P	AV	
D1TEST	10JAN2020	DC V5.11	P	ED	
D1TEST	10JAN2020	DC V5.11	P	EI	
D1TEST	10JAN2020	DC V5.11	P	IC	
D1TEST	10JAN2020	DC V5.11	P	IP	
D1TEST	10JAN2020	DC V5.11	P	IS	
D1TEST	10JAN2020	DC V5.11	P	OA	
D1TEST	10JAN2020	DC V5.11	P	OS	

D1TEST	10JAN2020	DC V5.11	P	NI	
D1TEST	10JAN2020	DC V5.11	P	UN	
D1TEST	10JAN2020	DC V5.11	P	OT	
D1TEST	10JAN2020	DC V5.11	P	NULL or missing	
D1TEST	10JAN2020	DC V5.11	P	Values outside of CDM specifications	
D1TEST	10JAN2020	DC V5.11	U	AV	
D1TEST	10JAN2020	DC V5.11	U	ED	
D1TEST	10JAN2020	DC V5.11	U	EI	
D1TEST	10JAN2020	DC V5.11	U	IC	
D1TEST	10JAN2020	DC V5.11	U	IP	
D1TEST	10JAN2020	DC V5.11	U	IS	
D1TEST	10JAN2020	DC V5.11	U	OA	
D1TEST	10JAN2020	DC V5.11	U	OS	
D1TEST	10JAN2020	DC V5.11	U	NI	
D1TEST	10JAN2020	DC V5.11	U	UN	
D1TEST	10JAN2020	DC V5.11	U	OT	
D1TEST	10JAN2020	DC V5.11	U	NULL or missing	
D1TEST	10JAN2020	DC V5.11	U	Values outside of CDM specifications	

dia_l3_adate_y

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N	RECORD_PCT	DISTINCT_ENCID_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2015				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

dia_l3_adate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2015_07	
D1TEST	10JAN2020	DC V5.11	2015_08	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

dia_l3_enctype

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ENCTYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV			
D1TEST	10JAN2020	DC V5.11	ED			
D1TEST	10JAN2020	DC V5.11	EI			
D1TEST	10JAN2020	DC V5.11	IC			
D1TEST	10JAN2020	DC V5.11	IP			
D1TEST	10JAN2020	DC V5.11	IS			
D1TEST	10JAN2020	DC V5.11	OA			
D1TEST	10JAN2020	DC V5.11	OS			
D1TEST	10JAN2020	DC V5.11	NI			

D1TEST	10JAN2020	DC V5.11	UN				
D1TEST	10JAN2020	DC V5.11	OT				
D1TEST	10JAN2020	DC V5.11	NULL or missing				
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications				

dia_l3_dxtype_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	ENC_TYPE	RECORD_N
D1TEST	10JAN2020	DC V5.11	09	AV	
D1TEST	10JAN2020	DC V5.11	09	ED	
D1TEST	10JAN2020	DC V5.11	09	EI	
D1TEST	10JAN2020	DC V5.11	09	IC	
D1TEST	10JAN2020	DC V5.11	09	IP	
D1TEST	10JAN2020	DC V5.11	09	IS	
D1TEST	10JAN2020	DC V5.11	09	OA	
D1TEST	10JAN2020	DC V5.11	09	OS	
D1TEST	10JAN2020	DC V5.11	09	NI	
D1TEST	10JAN2020	DC V5.11	09	UN	
D1TEST	10JAN2020	DC V5.11	09	OT	
D1TEST	10JAN2020	DC V5.11	09	NULL or missing	
D1TEST	10JAN2020	DC V5.11	09	Values outside of CDM specifications	

dia_l3_enctype_adate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMIT_DATE	DISTINCT_ENCID_N	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV	2004_01			
D1TEST	10JAN2020	DC V5.11	ED	2004_02			
D1TEST	10JAN2020	DC V5.11	EI	2004_03			
D1TEST	10JAN2020	DC V5.11	IC	2004_04			
D1TEST	10JAN2020	DC V5.11	IP	2004_05			
D1TEST	10JAN2020	DC V5.11	IS	2004_06			
D1TEST	10JAN2020	DC V5.11	OA	2004_07			
D1TEST	10JAN2020	DC V5.11	OS	2004_06			
D1TEST	10JAN2020	DC V5.11	NI	2004_07			
D1TEST	10JAN2020	DC V5.11	UN	2004_08			
D1TEST	10JAN2020	DC V5.11	OT	2004_09			
D1TEST	10JAN2020	DC V5.11	NULL or missing	2004_10			
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	OD			
D1TEST	10JAN2020	DC V5.11	BI			
D1TEST	10JAN2020	DC V5.11	CL			

D1TEST	10JAN2020	DC V5.11	DR			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications			

dia_l3_dash1

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

dia_l3_dxtype_adate_y¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	DX_TYPE	ADMIT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	09	2007	
D1TEST	10JAN2020	DC V5.11	10	2008	
D1TEST	10JAN2020	DC V5.11	11	2009	
D1TEST	10JAN2020	DC V5.11	SM	2010	
D1TEST	10JAN2020	DC V5.11	NI	2011	
D1TEST	10JAN2020	DC V5.11	UN	2012	
D1TEST	10JAN2020	DC V5.11	OT	2013	
D1TEST	10JAN2020	DC V5.11	NULL or missing	2014	
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NULL or missing	

dia_l3_dxpoa

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	DX_POA	RECORD_N	RECORD_PC_T	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	Y			
D1TEST	10JAN2020	DC V5.11	N			
D1TEST	10JAN2020	DC V5.11	U			
D1TEST	10JAN2020	DC V5.11	W			
D1TEST	10JAN2020	DC V5.11	1			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of			

			CDM specifications			
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dia_l3_pdx_detail

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	DX_ORIGIN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AV	OD		
D1TEST	10JAN2020	DC V5.11	ED	BI		
D1TEST	10JAN2020	DC V5.11	EI	CL		
D1TEST	10JAN2020	DC V5.11	IC	DR		
D1TEST	10JAN2020	DC V5.11	IP	NI		
D1TEST	10JAN2020	DC V5.11	IS	UN		
D1TEST	10JAN2020	DC V5.11	OA	OT		
D1TEST	10JAN2020	DC V5.11	OS	NULL or missing		
D1TEST	10JAN2020	DC V5.11	NI	Values outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	UN	OD		
D1TEST	10JAN2020	DC V5.11	OT	BI		
D1TEST	10JAN2020	DC V5.11	NULL or missing	CL		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	DR		

dia_l3_dxdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_DATE	RECORD_N	RECORD_PCT	DISTINCT_ENCID_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2015				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

dia_l3_dxdate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DX_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2015_07	
D1TEST	10JAN2020	DC V5.11	2015_08	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

dia_l3_dcgroup

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DC_DX_GROUP	PEDI	dist_patid_n
D1TEST	10JAN2020	DC V5.11	Acute myocardial infarction [CCS 100]	N	
D1TEST	10JAN2020	DC V5.11	Cardiac dysrhythmias [CCS 106]	N	
D1TEST	10JAN2020	DC V5.11	Congestive heart failure; nonhypertensive [CCS 108]	N	
D1TEST	10JAN2020	DC V5.11	Diabetes mellitus with complications [CCS 50]	N	
D1TEST	10JAN2020	DC V5.11	Diabetes mellitus without complication [CCS 49]	N	
D1TEST	10JAN2020	DC V5.11	Disorders of lipid metabolism [CCS 53]	N	
D1TEST	10JAN2020	DC V5.11	Hypertension with complications and secondary hypertension [CCS 99]	N	
D1TEST	10JAN2020	DC V5.11	Multiple sclerosis [CCS 80]	N	

D1TEST	10JAN2020	DC V5.11	Regional enteritis and ulcerative colitis [CCS 144]	N	
D1TEST	10JAN2020	DC V5.11	Rheumatoid arthritis and related disease [CCS 202]	N	
D1TEST	10JAN2020	DC V5.11	Asthma [CCS 128]	Y	
D1TEST	10JAN2020	DC V5.11	Attention-deficit conduct and disruptive behavior disorders [CCS 652]	Y	
D1TEST	10JAN2020	DC V5.11	Cystic fibrosis [CCS 56]	Y	
D1TEST	10JAN2020	DC V5.11	Developmental disorders [CCS 654]	Y	
D1TEST	10JAN2020	DC V5.11	Otitis media and related conditions [CCS 92]	Y	

XV. Table Shells: PROCEDURES Queries

pro_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PROCEDURES	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	PROCEDURES	PATID			
D1TEST	10JAN2020	DC V5.11	PROCEDURES	PROCEDURESID			
D1TEST	10JAN2020	DC V5.11	PROCEDURES	PROVIDERID			

pro_l3_px¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	00.11		
D1TEST	10JAN2020	DC V5.11	0067T		
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	2015				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

pro_l3_adate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADMIT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2015_07	
D1TEST	10JAN2020	DC V5.11	2015_08	
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	2015				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

pro_l3_enctype

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV			
D1TEST	10JAN2020	DC V5.11	ED			
D1TEST	10JAN2020	DC V5.11	EI			
D1TEST	10JAN2020	DC V5.11	IC			
D1TEST	10JAN2020	DC V5.11	IP			
D1TEST	10JAN2020	DC V5.11	IS			
D1TEST	10JAN2020	DC V5.11	OA			
D1TEST	10JAN2020	DC V5.11	OS			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications			

pro_l3_pxtype_enctype¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PX_TYPE	ENC_TYPE	RECORD_N
D1TEST	10JAN2020	DC V5.11	09	AV	
D1TEST	10JAN2020	DC V5.11	09	ED	
D1TEST	10JAN2020	DC V5.11	09	IC	
D1TEST	10JAN2020	DC V5.11	09	IP	
D1TEST	10JAN2020	DC V5.11	09	IS	
D1TEST	10JAN2020	DC V5.11	09	OA	
D1TEST	10JAN2020	DC V5.11	09	OA	
D1TEST	10JAN2020	DC V5.11	09	OS	
D1TEST	10JAN2020	DC V5.11	09	NI	
D1TEST	10JAN2020	DC V5.11	09	UN	
D1TEST	10JAN2020	DC V5.11	09	OT	
D1TEST	10JAN2020	DC V5.11	09	NULL or missing	
D1TEST	10JAN2020	DC V5.11	09	Values outside of CDM specifications	

pro_l3_enctype_adate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	ADMIT_DATE	RECORD_N	DISTINCT_ENCID_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV	2015_07			
D1TEST	10JAN2020	DC V5.11	ED	2015_07			
D1TEST	10JAN2020	DC V5.11	EI	2015_07			
D1TEST	10JAN2020	DC V5.11	IC	2015_07			
D1TEST	10JAN2020	DC V5.11	IP	2015_07			
D1TEST	10JAN2020	DC V5.11	IS	2015_07			
D1TEST	10JAN2020	DC V5.11	OA	2015_07			
D1TEST	10JAN2020	DC V5.11	OS	2015_07			
D1TEST	10JAN2020	DC V5.11	NI	2015_07			

D1TEST	10JAN2020	DC V5.11	UN	2015_07			
D1TEST	10JAN2020	DC V5.11	OT	2015_07			
D1TEST	10JAN2020	DC V5.11	NULL or missing	2015_07			

pro_I3_pxtype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	11		
D1TEST	10JAN2020	DC V5.11	C2		
D1TEST	10JAN2020	DC V5.11	C3		
D1TEST	10JAN2020	DC V5.11	C4		
D1TEST	10JAN2020	DC V5.11	H3		
D1TEST	10JAN2020	DC V5.11	HC		
D1TEST	10JAN2020	DC V5.11	LC		
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	RE		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values Outside of CDM specifications		

pro_I3_px_pxtype¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX	PX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXX	09		
D1TEST	10JAN2020	DC V5.11	XXX	10		
D1TEST	10JAN2020	DC V5.11	XXX	11		
D1TEST	10JAN2020	DC V5.11	XXX	C2		
D1TEST	10JAN2020	DC V5.11	XXX	C3		
D1TEST	10JAN2020	DC V5.11	XXX	C4		
D1TEST	10JAN2020	DC V5.11	XXX	H3		
D1TEST	10JAN2020	DC V5.11	XXX	HC		
D1TEST	10JAN2020	DC V5.11	XXX	LC		
D1TEST	10JAN2020	DC V5.11	XXX	ND		
D1TEST	10JAN2020	DC V5.11	XXX	RE		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values Outside of CDM specifications		

D1TEST	10JAN2020	DC V5.11	NULL or missing	09			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	09			

pro_I3_pxsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pro_I3_pxtype_adate_y¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PX_TYPE	ADMIT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	09	2007	
D1TEST	10JAN2020	DC V5.11	10	2009	
D1TEST	10JAN2020	DC V5.11	11	2010	
D1TEST	10JAN2020	DC V5.11	CH	2011	
D1TEST	10JAN2020	DC V5.11	LC	2012	
D1TEST	10JAN2020	DC V5.11	NI	2013	
D1TEST	10JAN2020	DC V5.11	UN	2014	
D1TEST	10JAN2020	DC V5.11	OT	2015	
D1TEST	10JAN2020	DC V5.11	NULL or missing	2016	
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NULL or missing	

pro_I3_ppx

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PPX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	P		
D1TEST	10JAN2020	DC V5.11	S		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pro_I3_dcgroup

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DC_PX_GROUP	PEDI	dist_patid_n
D1TEST	10JAN2020	DC V5.11	Arthroplasty knee [CCS 152]	N	
D1TEST	10JAN2020	DC V5.11	CT scan chest [CCS 178]	N	

D1TEST	10JAN2020	DC V5.11	Coronary artery bypass graft (CABG) [CCS 44]	N	
D1TEST	10JAN2020	DC V5.11	Hip replacement, total and partial [CCS 153]	N	
D1TEST	10JAN2020	DC V5.11	Mammography [CCS 182]	N	
D1TEST	10JAN2020	DC V5.11	Myringotomy [CCS 23]	N	
D1TEST	10JAN2020	DC V5.11	Percutaneous transluminal coronary angioplasty (PTCA) [CCS 45]	N	
D1TEST	10JAN2020	DC V5.11	Tonsillectomy and/or adenoidectomy [CCS 30]	N	

XVI. Table Shells: ENROLLMENT Queries

enr_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	ENROLLMENT	PATID			
D1TEST	10JAN2020	DC V5.11	ENROLLMENT	ENR_START_DATE			
D1TEST	10JAN2020	DC V5.11	ENROLLMENT	ENROLLID			

enr_l3_dist_start

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	P1	
D1TEST	10JAN2020	DC V5.11	P5	
D1TEST	10JAN2020	DC V5.11	P25	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	P75	
D1TEST	10JAN2020	DC V5.11	P95	
D1TEST	10JAN2020	DC V5.11	P99	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

enr_l3_dist_end

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	P1	
D1TEST	10JAN2020	DC V5.11	P5	
D1TEST	10JAN2020	DC V5.11	P25	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	P75	
D1TEST	10JAN2020	DC V5.11	P95	
D1TEST	10JAN2020	DC V5.11	P99	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

enr_l3_dist_enrmonth¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENROLL_M	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	0		

D1TEST	10JAN2020	DC V5.11	1		
D1TEST	10JAN2020	DC V5.11	2		
D1TEST	10JAN2020	DC V5.11	3		
D1TEST	10JAN2020	DC V5.11	4		
D1TEST	10JAN2020	DC V5.11	5		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enr_I3_dist_enryear

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ENROLL_Y	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	1		
D1TEST	10JAN2020	DC V5.11	2		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enr_I3_enr_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	MONTH	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	2015_07		
D1TEST	10JAN2020	DC V5.11	2015_08		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enr_I3_basedist

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	ENR_BASIS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	A		
D1TEST	10JAN2020	DC V5.11	D		
D1TEST	10JAN2020	DC V5.11	E		
D1TEST	10JAN2020	DC V5.11	G		
D1TEST	10JAN2020	DC V5.11	I		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

enr_I3_per_patid

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	MIN		
D1TEST	10JAN2020	DC V5.11	P1		
D1TEST	10JAN2020	DC V5.11	P5		
D1TEST	10JAN2020	DC V5.11	P25		
D1TEST	10JAN2020	DC V5.11	MEDIAN		
D1TEST	10JAN2020	DC V5.11	P75		
D1TEST	10JAN2020	DC V5.11	P95		
D1TEST	10JAN2020	DC V5.11	P99		
D1TEST	10JAN2020	DC V5.11	MAX		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

enr_I3_chart

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	CHART	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XVII. Table Shells: VITAL Queries

vit_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	VITAL	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	VITAL	PATID			
D1TEST	10JAN2020	DC V5.11	VITAL	VITALID			

vit_l3_mdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEASURE_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2015			
D1TEST	10JAN2020	DC V5.11	2016			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

vit_l3_mdate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEASURE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2015_07		
D1TEST	10JAN2020	DC V5.11	2015_08		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

vit_l3_vital_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VITAL_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	HC		
D1TEST	10JAN2020	DC V5.11	HD		
D1TEST	10JAN2020	DC V5.11	PD		
D1TEST	10JAN2020	DC V5.11	PR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

vit_l3_ht²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	HT_GROUP	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	<0			
D1TEST	10JAN2020	DC V5.11	0-10			
D1TEST	10JAN2020	DC V5.11	11-20			
D1TEST	10JAN2020	DC V5.11	21-45			
D1TEST	10JAN2020	DC V5.11	46-52			
D1TEST	10JAN2020	DC V5.11	53-58			
D1TEST	10JAN2020	DC V5.11	59-64			
D1TEST	10JAN2020	DC V5.11	65-70			

D1TEST	10JAN2020	DC V5.11	71-76				
D1TEST	10JAN2020	DC V5.11	77-82				
D1TEST	10JAN2020	DC V5.11	83-88				
D1TEST	10JAN2020	DC V5.11	89-94				
D1TEST	10JAN2020	DC V5.11	>=95				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

vit_l3_ht_dist²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

vit_l3_wt²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	WT_GROUP	RECORD_N	RECORD_PCT	DISTINCT_PATD_N
D1TEST	10JAN2020	DC V5.11	<0			
D1TEST	10JAN2020	DC V5.11	0-1			
D1TEST	10JAN2020	DC V5.11	2-6			
D1TEST	10JAN2020	DC V5.11	7-12			
D1TEST	10JAN2020	DC V5.11	13-20			
D1TEST	10JAN2020	DC V5.11	21-35			
D1TEST	10JAN2020	DC V5.11	36-50			
D1TEST	10JAN2020	DC V5.11	51-75			
D1TEST	10JAN2020	DC V5.11	76-100			
D1TEST	10JAN2020	DC V5.11	101-125			
D1TEST	10JAN2020	DC V5.11	126-150			
D1TEST	10JAN2020	DC V5.11	151-175			
D1TEST	10JAN2020	DC V5.11	176-200			
D1TEST	10JAN2020	DC V5.11	201-225			
D1TEST	10JAN2020	DC V5.11	226-250			
D1TEST	10JAN2020	DC V5.11	251-275			
D1TEST	10JAN2020	DC V5.11	276-300			
D1TEST	10JAN2020	DC V5.11	301-350			
D1TEST	10JAN2020	DC V5.11	>350			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

vit_l3_wt_dist²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	

D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

vit_I3_diastolic²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DIASTOLIC_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<40		
D1TEST	10JAN2020	DC V5.11	40-60		
D1TEST	10JAN2020	DC V5.11	61-75		
D1TEST	10JAN2020	DC V5.11	76-80		
D1TEST	10JAN2020	DC V5.11	81-90		
D1TEST	10JAN2020	DC V5.11	91-100		
D1TEST	10JAN2020	DC V5.11	101-110		
D1TEST	10JAN2020	DC V5.11	111-120		
D1TEST	10JAN2020	DC V5.11	>120		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

vit_I3_systolic²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SYSTOLIC_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<40		
D1TEST	10JAN2020	DC V5.11	41-50		
D1TEST	10JAN2020	DC V5.11	51-60		
D1TEST	10JAN2020	DC V5.11	61-70		
D1TEST	10JAN2020	DC V5.11	71-80		
D1TEST	10JAN2020	DC V5.11	81-90		
D1TEST	10JAN2020	DC V5.11	91-100		
D1TEST	10JAN2020	DC V5.11	101-110		
D1TEST	10JAN2020	DC V5.11	111-120		
D1TEST	10JAN2020	DC V5.11	121-130		
D1TEST	10JAN2020	DC V5.11	131-140		
D1TEST	10JAN2020	DC V5.11	141-150		
D1TEST	10JAN2020	DC V5.11	151-160		
D1TEST	10JAN2020	DC V5.11	161-170		
D1TEST	10JAN2020	DC V5.11	171-180		
D1TEST	10JAN2020	DC V5.11	181-190		
D1TEST	10JAN2020	DC V5.11	191-200		
D1TEST	10JAN2020	DC V5.11	201-210		
D1TEST	10JAN2020	DC V5.11	>210		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

vit_I3_BMI²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	BMI_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<0		

D1TEST	10JAN2020	DC V5.11	0-1			
D1TEST	10JAN2020	DC V5.11	2-5			
D1TEST	10JAN2020	DC V5.11	6-10			
D1TEST	10JAN2020	DC V5.11	11-15			
D1TEST	10JAN2020	DC V5.11	16-20			
D1TEST	10JAN2020	DC V5.11	21-25			
D1TEST	10JAN2020	DC V5.11	26-30			
D1TEST	10JAN2020	DC V5.11	31-35			
D1TEST	10JAN2020	DC V5.11	36-40			
D1TEST	10JAN2020	DC V5.11	41-45			
D1TEST	10JAN2020	DC V5.11	46-50			
D1TEST	10JAN2020	DC V5.11	>50			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

vit_I3_BP_position_type²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	BP_POSITION	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

vit_I3_smoking²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	SMOKING	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	04		
D1TEST	10JAN2020	DC V5.11	05		
D1TEST	10JAN2020	DC V5.11	06		
D1TEST	10JAN2020	DC V5.11	07		
D1TEST	10JAN2020	DC V5.11	08		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

vit_I3_tobacco²

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TOBACCO	RECORD_N	RECORD_PCT
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D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	04		
D1TEST	10JAN2020	DC V5.11	06		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

vit_l3_tobacco_type²

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	TOBACCO_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	04		
D1TEST	10JAN2020	DC V5.11	05		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

vit_l3_dash1

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	3,000
D1TEST	10JAN2020	DC V5.11	2 yrs	4,000
D1TEST	10JAN2020	DC V5.11	3 yrs	5,000
D1TEST	10JAN2020	DC V5.11	4 yrs	6,000
D1TEST	10JAN2020	DC V5.11	5 yrs	7,000
D1TEST	10JAN2020	DC V5.11	All yrs	8,000

XVIII. Table Shells: Cross-Table Queries

elapsed_all, elapsed_main, elapsed_lab, and elapsed_xtbl

Note: elapsed_all will be present if the data curation program is run all at once; if the queries are run sequentially the elapsed_main, elapsed_lab, and elapsed_xtbl datasets will be present.

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_I3_dates

DATA_MARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	MIN	P5	MEDIAN	P95	MAX	N	NMISS	FUTURE_DT_N	PRE2010_N
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC	BIRTH_DATE									
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	ADMIT_DATE									
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	DISCHARGE_DATE									
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	ADMIT_DATE									
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	DX_DATE									
D1TEST	10JAN2020	DC V5.11	PROCEDURES	ADMIT_DATE									
D1TEST	10JAN2020	DC V5.11	PROCEDURES	PX_DATE									
D1TEST	10JAN2020	DC V5.11	VITAL	MEASURE_DATE									
D1TEST	10JAN2020	DC V5.11	ENROLLMENT	ENR_START_DATE									
D1TEST	10JAN2020	DC V5.11	ENROLLMENT	ENR_END_DATE									
D1TEST	10JAN2020	DC V5.11	DEATH	DEATH_DATE									
D1TEST	10JAN2020	DC V5.11	DISPENSING	DISPENSE_DATE									
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	RX_ORDER_DATE									
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	RX_START_DATE									
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	RX_END_DATE									
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	LAB_ORDER_DATE									
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	SPECIMEN_DATE									
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	RESULT_DATE									
D1TEST	10JAN2020	DC V5.11	CONDITION	REPORT_DATE									
D1TEST	10JAN2020	DC V5.11	CONDITION	RESOLVE_DATE									
D1TEST	10JAN2020	DC V5.11	CONDITION	ONSET_DATE									
D1TEST	10JAN2020	DC V5.11	PRO_CM	PRO_DATE									
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMIN_START_DATE									
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMIN_STOP_DATE									
D1TEST	10JAN2020	DC V5.11	OBS_CLIN	OBSCLIN_DATE									
D1TEST	10JAN2020	DC V5.11	OBS_GEN	OBSCLIN_GEN									
D1TEST	10JAN2020	DC V5.11	LDS_ADDRESS_HISTORY	ADDRESS_PE_RIOD_START									
D1TEST	10JAN2020	DC V5.11	LDS_ADDRESS_HISTORY	ADDRESS_PE_RIOD_END									
D1TEST	10JAN2020	DC V5.11	IMMUNIZATION	VX_RECORD_DATE									
D1TEST	10JAN2020	DC V5.11	IMMUNIZATION	VX_ADMIN_DATE									

D1TEST	10JAN2020	DC V5.11	IMMUNIZATION	VX_EXP_DATE									
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xtbl_I3_date_logic

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATE_COMPARISON	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	ADMIT_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	DISCHARGE_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	PX_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	MEASURE_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	DISPENSE_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	RX_START_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	RESULT_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	DEATH_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	VX_RECORD_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	ADMIT_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	DISCHARGE_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	PX_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	MEASURE_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	DISPENSE_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	RX_START_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	RESULT_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	MEDADMIN_START_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	MEDADMIN_START_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	OBSCLIN_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	OBSCLIN_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	OBSGEN_DATE < BIRTH_DATE	
D1TEST	10JAN2020	DC V5.11	OBSGEN_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	VX_RECORD_DATE > DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	PX_DATE < ADMIT_DATE	
D1TEST	10JAN2020	DC V5.11	ADMIT_DATE > DISCHARGE_DATE	

xtbl_I3_times

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	MIN	MEDIAN	MAX	N	NMISS
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC	BIRTH_TIME					
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	ADMIT_TIME					
D1TEST	10JAN2020	DC V5.11	ENCOUNTER	DISCHARGE_TIME					
D1TEST	10JAN2020	DC V5.11	VITAL	MEASURE_TIME					
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	RESULT_TIME					
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	SPECIMEN_TIME					
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	RX_ORDER_TIME					
D1TEST	10JAN2020	DC V5.11	PRO_CM	PRO_TIME					
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMIN_START_TIME					

D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMIN_STOP_TIME					
D1TEST	10JAN2020	DC V5.11	OBS_CLIN	OBSCLIN_TIME					
D1TEST	10JAN2020	DC V5.11	OBS_GEN	OBSGEN_TIME					

xtbl_l3_metadata

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	10JAN2020	DC V5.11	NETWORKID	
D1TEST	10JAN2020	DC V5.11	NETWORK_NAME	
D1TEST	10JAN2020	DC V5.11	DATAMARTID	
D1TEST	10JAN2020	DC V5.11	DATAMART_NAME	
D1TEST	10JAN2020	DC V5.11	DATAMART_PLATFORM	
D1TEST	10JAN2020	DC V5.11	CDM_VERSION	
D1TEST	10JAN2020	DC V5.11	DATAMART CLAIMS	
D1TEST	10JAN2020	DC V5.11	DATAMART_EHR	
D1TEST	10JAN2020	DC V5.11	BIRTH_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	ENR_START_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	ENR_END_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	ADMIT_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	DISCHARGE_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	PX_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	RX_ORDER_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	RX_START_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	RX_END_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	DISPENSE_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	LAB_ORDER_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	SPECIMEN_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	RESULT_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	MEASURE_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	ONSET_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	REPORT_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	RESOLVE_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	PRO_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	DX_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	ADDRESS_PERIOD_START_MGMT	
D1TEST	10JAN2020	DC V5.11	ADDRESS_PERIOD_END_MGMT	
D1TEST	10JAN2020	DC V5.11	VX_RECORD_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	VX_ADMIN_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	VX_EXP_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	REFRESH_DEMOGRAPHIC_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_ENROLLMENT_DATE	

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	10JAN2020	DC V5.11	REFRESH_ENCOUNTER_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_DIAGNOSIS_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_PROCEDURES_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_VITAL_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_DISPENSING_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_LAB_RESULT_CM_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_CONDITION_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_PRO_CM_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_PRESCRIBING_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_PCORNET_TRIAL_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_DEATH_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_DEATH_CAUSE_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_MAX	
D1TEST	10JAN2020	DC V5.11	REFRESH_HASH_TOKEN_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_LDS_ADDRESS_HX_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_IMMUNIZATION_DATE	
D1TEST	10JAN2020	DC V5.11	LOW_CELL_CNT	
D1TEST	10JAN2020	DC V5.11	OPERATING_SYSTEM	
D1TEST	10JAN2020	DC V5.11	QUERY_PACKAGE	
D1TEST	10JAN2020	DC V5.11	RESPONSE_DATE	
D1TEST	10JAN2020	DC V5.11	LOOKBACK_MONTHS	
D1TEST	10JAN2020	DC V5.11	LOOKBACK_DATE	
D1TEST	10JAN2020	DC V5.11	SAS_VERSION	
D1TEST	10JAN2020	DC V5.11	SAS_BASE	
D1TEST	10JAN2020	DC V5.11	SAS_GRAPH	
D1TEST	10JAN2020	DC V5.11	SAS_STAT	
D1TEST	10JAN2020	DC V5.11	SAS_ETS	
D1TEST	10JAN2020	DC V5.11	SAS_AF	
D1TEST	10JAN2020	DC V5.11	SAS_IML	
D1TEST	10JAN2020	DC V5.11	SAS_CONNECT	
D1TEST	10JAN2020	DC V5.11	SAS_MYSQL	
D1TEST	10JAN2020	DC V5.11	SAS_ODBC	
D1TEST	10JAN2020	DC V5.11	SAS_ORACLE	
D1TEST	10JAN2020	DC V5.11	SAS_POSTGRES	
D1TEST	10JAN2020	DC V5.11	SAS_SQL	
D1TEST	10JAN2020	DC V5.11	SAS_TERADATA	
D1TEST	10JAN2020	DC V5.11	DATASTORE	
D1TEST	10JAN2020	DC V5.11	DEATH_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	MEDADMIN_START_DATE_MGMT	

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	VALUE
D1TEST	10JAN2020	DC V5.11	MEDADMIN_END_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	OBSCLIN_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	OBSGEN_DATE_MGMT	
D1TEST	10JAN2020	DC V5.11	REFRESH_MED_ADMIN_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_OBS_CLIN_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_PROVIDER_DATE	
D1TEST	10JAN2020	DC V5.11	REFRESH_OBS_GEN_DATE	
D1TEST	10JAN2020	DC V5.11	DC_PROGRAM_HHMMSS	

xtbl_I3_dash1

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

xtbl_I3_dash2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

xtbl_I3_dash3

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PERIOD	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	1 yr	
D1TEST	10JAN2020	DC V5.11	2 yrs	
D1TEST	10JAN2020	DC V5.11	3 yrs	
D1TEST	10JAN2020	DC V5.11	4 yrs	
D1TEST	10JAN2020	DC V5.11	5 yrs	
D1TEST	10JAN2020	DC V5.11	All yrs	

xtbl_I3_mismatch

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	DISTINCT_N
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and DIAGNOSIS	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and PROCEDURES	ENCOUNTERID Orphan	0

D1TEST	10JAN2020	DC V5.11	ENCOUNTER and VITAL	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and LAB_RESULT_CM	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and PRESCRIBING	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and CONDITION	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and PRO_CM	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and MED_ADMIN	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and OBS_CLIN	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and OBS_GEN	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and IMMUNIZATION	ENCOUNTERID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and ENROLLMENT	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and ENCOUNTER	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and DIAGNOSIS	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and PROCEDURES	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and VITAL	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and LAB_RESULT_CM	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and PRESCRIBING	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and DISPENSING	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and DEATH	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and CONDITION	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and DEATH_CAUSE	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and PRO_CM	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and PCORNTR_TRIAL	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and MED_ADMIN	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and OBS_CLIN	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and OBS_GEN	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and LDS_ADDRESS_HISTORY	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and IMMUNIZATION	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	DEMOGRAPHIC and HASH_TOKEN	PATID Orphan	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and DIAGNOSIS	ENC_TYPE mismatch	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and DIAGNOSIS	ADMIT_DATE mismatch	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and PROCEDURES	ENC_TYPE mismatch	0
D1TEST	10JAN2020	DC V5.11	ENCOUNTER and PROCEDURES	ADMIT_DATE mismatch	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and ENCOUNTER	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and DIAGNOSIS	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and PROCEDURES	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and PRESCRIBING	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and MED_ADMIN	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and OBS_CLIN	PROVIDERID Orphan	0
D1TEST	10JAN2020	DC V5.11	PROVIDER and IMMUNIZATION	PROVIDERID Orphan	0

xtbl_I3_lab_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV			
D1TEST	10JAN2020	DC V5.11	ED			
D1TEST	10JAN2020	DC V5.11	EI			

D1TEST	10JAN2020	DC V5.11	IP				
D1TEST	10JAN2020	DC V5.11	IS				
D1TEST	10JAN2020	DC V5.11	OS				
D1TEST	10JAN2020	DC V5.11	IC				
D1TEST	10JAN2020	DC V5.11	OA				
D1TEST	10JAN2020	DC V5.11	NI				
D1TEST	10JAN2020	DC V5.11	UN				
D1TEST	10JAN2020	DC V5.11	OT				
D1TEST	10JAN2020	DC V5.11	NULL or missing				
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications				

xtbl_l3_pres_enctype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ENC_TYPE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	AV			
D1TEST	10JAN2020	DC V5.11	ED			
D1TEST	10JAN2020	DC V5.11	EI			
D1TEST	10JAN2020	DC V5.11	IP			
D1TEST	10JAN2020	DC V5.11	IS			
D1TEST	10JAN2020	DC V5.11	OS			
D1TEST	10JAN2020	DC V5.11	IC			
D1TEST	10JAN2020	DC V5.11	OA			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	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
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	10JAN2020	DC V5.11	ENCOUNTER	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	DIAGNOSIS	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	PROCEDURES	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	PREScribing	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	VITAL	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	CONDITION	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	PRO_CM	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	ENCOUNTERID	

D1TEST	10JAN2020	DC V5.11	OBS_CLIN	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	OBS_GEN	ENCOUNTERID	
D1TEST	10JAN2020	DC V5.11	IMMUNIZATION	ENCOUNTERID	

xtbl_l3_race_enc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RACE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	01			
D1TEST	10JAN2020	DC V5.11	02			
D1TEST	10JAN2020	DC V5.11	03			
D1TEST	10JAN2020	DC V5.11	04			
D1TEST	10JAN2020	DC V5.11	05			
D1TEST	10JAN2020	DC V5.11	06			
D1TEST	10JAN2020	DC V5.11	07			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications			

XIX. Table Shells: DEATH queries

death_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	DEATH	PATID			
D1TEST	10JAN2020	DC V5.11	DEATH	DEATHID			

death_l3_date_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

death_l3_date_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004_01		
D1TEST	10JAN2020	DC V5.11	2004_02		
D1TEST	10JAN2020	DC V5.11	2004_03		

D1TEST	10JAN2020	DC V5.11	2004_04		
D1TEST	10JAN2020	DC V5.11	2004_05		
D1TEST	10JAN2020	DC V5.11	2004_05		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

death_l3_impute

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_DATE_IMPUTE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	B		
D1TEST	10JAN2020	DC V5.11	D		
D1TEST	10JAN2020	DC V5.11	M		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

death_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	D		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	L		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	S		
D1TEST	10JAN2020	DC V5.11	T		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

death_l3_source_ym

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_SOURCE	DEATH_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	D	2010_05		
D1TEST	10JAN2020	DC V5.11	DR	2010_05		
D1TEST	10JAN2020	DC V5.11	L	2010_05		
D1TEST	10JAN2020	DC V5.11	N	2010_05		
D1TEST	10JAN2020	DC V5.11	S	2010_05		
D1TEST	10JAN2020	DC V5.11	T	2010_05		
D1TEST	10JAN2020	DC V5.11	NI	2010_05		
D1TEST	10JAN2020	DC V5.11	UN	2010_05		
D1TEST	10JAN2020	DC V5.11	OT	2010_05		
D1TEST	10JAN2020	DC V5.11	NULL or missing	2010_05		

D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NULL or missing		
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death_l3_match

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_MATCH_CONFIDENCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	E		
D1TEST	10JAN2020	DC V5.11	F		
D1TEST	10JAN2020	DC V5.11	P		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XX. Table Shells: DEATH_CAUSE queries

deathc_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	DEATH_CAUSE	PATID			
D1TEST	10JAN2020	DC V5.11	DEATH_CAUSE	DEATH_CAUSE			
D1TEST	10JAN2020	DC V5.11	DEATH_CAUSE	DEATHCID			

deathc_l3_code

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_CODE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

deathc_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	C		
D1TEST	10JAN2020	DC V5.11	I		
D1TEST	10JAN2020	DC V5.11	O		
D1TEST	10JAN2020	DC V5.11	U		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		
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deathc_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	D		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	L		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	S		
D1TEST	10JAN2020	DC V5.11	T		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

deathc_l3_conf

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DEATH_CAUSE_CONFIDENCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	E		
D1TEST	10JAN2020	DC V5.11	F		
D1TEST	10JAN2020	DC V5.11	P		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXI. Table Shells: DISPENSING queries

disp_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N	VALID_N
D1TEST	10JAN2020	DC V5.11	DISPENSING	PATID				n/a
D1TEST	10JAN2020	DC V5.11	DISPENSING	DISPENSINGID				n/a
D1TEST	10JAN2020	DC V5.11	DISPENSING	PRESCRIBINGID				n/a
D1TEST	10JAN2020	DC V5.11	DISPENSING	NDC				

disp_l3_ndc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NDC	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	11122211445		
D1TEST	10JAN2020	DC V5.11	21456789010		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

disp_l3_ddate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
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D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

disp_l3_ddate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004_01		
D1TEST	10JAN2020	DC V5.11	2005_02		
D1TEST	10JAN2020	DC V5.11	2006_03		
D1TEST	10JAN2020	DC V5.11	2007_04		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

disp_l3_supdist2

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DISPENSE_SUP_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<1 day		
D1TEST	10JAN2020	DC V5.11	1-15 days		
D1TEST	10JAN2020	DC V5.11	16-30 days		
D1TEST	10JAN2020	DC V5.11	31-60 days		
D1TEST	10JAN2020	DC V5.11	61-90 days		
D1TEST	10JAN2020	DC V5.11	>90 days		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

disp_l3_dispamt_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

disp_l3_dose_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

disp_l3_doseunit¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	DISPENSE DOSE - DISP UNIT	SHORT YN	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	%	NA		
D1TEST	10JAN2020	DC V5.11	cm	NA		
D1TEST	10JAN2020	DC V5.11	g	NA		
D1TEST	10JAN2020	DC V5.11	:	NA		
D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		
D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

disp_l3_route¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	DISPENSE ROUTE	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	OTIC		
D1TEST	10JAN2020	DC V5.11	INTRA_ARTICULAR		
D1TEST	10JAN2020	DC V5.11	GASTROSTOMY		
D1TEST	10JAN2020	DC V5.11	:		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

disp_l3_source

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	DEATH CAUSE SOURCE	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	PM		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXII. Table Shells: PRESCRIBING queries

pres_l3_n

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	PATID			
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	PRESCRIBINGID			
D1TEST	10JAN2020	DC V5.11	PRESCRIBING	ENCOUNTERID			

D1TEST	10JAN2020	DC V5.11	PRESCRIBING	RX_PROVIDERID			
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pres_l3_rx cui¹ (uses the rxnorm_cui_ref reference table)

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI	RXNORM_CUI_TTY	RECORD_N	RECORD_PCT	DIST_PATID_N
D1TEST	10JAN2020	DC V5.11	1811	BN			
D1TEST	10JAN2020	DC V5.11	902	MIN			
D1TEST	10JAN2020	DC V5.11	04	NULL or missing			
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing			

pres_l3_rx cui_5y¹ (uses the rxnorm_cui_ref reference table and limited to the most recent 5 years data)

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI	RXNORM_CUI_TTY	RECORD_N	RECORD_PCT	DIST_PATID_N
D1TEST	10JAN2020	DC V5.11	1811	BN			
D1TEST	10JAN2020	DC V5.11	902	MIN			
D1TEST	10JAN2020	DC V5.11	04	NULL or missing			
D1TEST	10JAN2020	DC V5.11	NULL or missing	NULL or missing			

pres_l3_supdist2

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RX_DAYS_SUPPLY_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	<1 day		
D1TEST	10JAN2020	DC V5.11	1-15 days		
D1TEST	10JAN2020	DC V5.11	16-30 days		
D1TEST	10JAN2020	DC V5.11	31-60 days		
D1TEST	10JAN2020	DC V5.11	61-90 days		
D1TEST	10JAN2020	DC V5.11	>90 days		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

pres_l3_rx cui_rxsup¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI	MIN	MEAN	MAX	N	NMISS
D1TEST	10JAN2020	DC V5.11	XXXX					
D1TEST	10JAN2020	DC V5.11	XXXX					
D1TEST	10JAN2020	DC V5.11	XXXX					
D1TEST	10JAN2020	DC V5.11	XXXX					
D1TEST	10JAN2020	DC V5.11	NULL or missing					

pres_l3_rx cui_tier

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RXNORM_CUI_TIER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Tier 1		
D1TEST	10JAN2020	DC V5.11	Tier 2		
D1TEST	10JAN2020	DC V5.11	Tier 3		
D1TEST	10JAN2020	DC V5.11	Tier 4		

D1TEST	10JAN2020	DC V5.11	NULL or missing		
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pres_l3_rx cui tier_5y (limited to the most recent 5 years data)

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	RXNORM_CUI_TIER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Tier 1		
D1TEST	10JAN2020	DC V5.11	Tier 2		
D1TEST	10JAN2020	DC V5.11	Tier 3		
D1TEST	10JAN2020	DC V5.11	Tier 4		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

pres_l3_basis

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	RX BASIS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_freq

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	RX FREQUENCY	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	01		
D1TEST	10JAN2020	DC V5.11	02		
D1TEST	10JAN2020	DC V5.11	03		
D1TEST	10JAN2020	DC V5.11	04		
D1TEST	10JAN2020	DC V5.11	05		
D1TEST	10JAN2020	DC V5.11	06		
D1TEST	10JAN2020	DC V5.11	07		
D1TEST	10JAN2020	DC V5.11	08		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	11		
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_odate_v

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	RX ORDER DATE	RECORD_N	RECORD_PCT	RECORD_N_RXCUI	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2008				

D1TEST	10JAN2020	DC V5.11	2009					
D1TEST	10JAN2020	DC V5.11	NULL or missing					

pres_l3_odate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RX_ORDER_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004_01		
D1TEST	10JAN2020	DC V5.11	2004_02		
D1TEST	10JAN2020	DC V5.11	2004_03		
D1TEST	10JAN2020	DC V5.11	2004_04		
D1TEST	10JAN2020	DC V5.11	2004_05		
D1TEST	10JAN2020	DC V5.11	2004_05		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

pres_l3_rxqty_dist

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

pres_l3_rxrefill_dist

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

pres_l3_dispaswrtn

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RX_DISPENSE_AS_WRITTEN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_prnflag

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RX_PRN_FLAG	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		

D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_rxdoseform¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DOSE_FORM	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AUGMENTED_TOPICAL_CREAM		
D1TEST	10JAN2020	DC V5.11	AUGMENTED_TOPICAL_GEL		
D1TEST	10JAN2020	DC V5.11	AUGMENTED_TOPICAL_LOTION		
D1TEST	10JAN2020	DC V5.11	AUGMENTED_TOPICAL_OINTMENT		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_rxdoseodr_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

pres_l3_rxdoseodrunit¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_DOSE_ORDERED_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	%	NA		
D1TEST	10JAN2020	DC V5.11	cm	NA		
D1TEST	10JAN2020	DC V5.11	g	NA		
D1TEST	10JAN2020	DC V5.11	⋮	NA		
D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		
D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

pres_l3_route¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_ROUTE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OTIC		
D1TEST	10JAN2020	DC V5.11	INTRA_ARTICULAR		
D1TEST	10JAN2020	DC V5.11	GASTROSTOMY		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		

D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

pres_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications:		

pres_l3_rawrxmed¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RAW_RX_MED_NAME	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	ENBREL		
D1TEST	10JAN2020	DC V5.11	HUMIRA		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

XXIII. TABLE SHELL: LAB_RESULT_CM queries

lab_l3_loc

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_LOC	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	L		
D1TEST	10JAN2020	DC V5.11	P		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	PATID			
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	LAB_RESULT_CM_ID			
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	ENCOUNTERID			

lab_l3_n_5y (limited to the most recent 5 years data)

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	PATID			

D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	LAB_RESULT_CM_ID			
D1TEST	10JAN2020	DC V5.11	LAB_RESULT_CM	ENCOUNTERID			

lab_l3_priority

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	PRIORITY	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	ER		
D1TEST	10JAN2020	DC V5.11	R		
D1TEST	10JAN2020	DC V5.11	S		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_recordc

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	TAG	ALL N
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_SOURCE	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_UNIT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_SRCE_UNIT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_RANGE	

lab_l3_recordc_5y (limited to the most recent 5 years data)

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	TAG	ALL N
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_SOURCE	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_UNIT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_SRCE_UNIT	
D1TEST	10JAN2020	DC V5.11	KNOWN_TEST_RESULT_NUM_RANGE	

lab_l3_source¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	SPECIMEN SOURCE	SHORT YN	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	ABDOMEN.FNA	NA		
D1TEST	10JAN2020	DC V5.11	ABSCESS	NA		
D1TEST	10JAN2020	DC V5.11	ADRENAL_GLAND	NA		
D1TEST	10JAN2020	DC V5.11	AIR	NA		
D1TEST	10JAN2020	DC V5.11	⋮	NA		
D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		

D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

lab_l3_px_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_PX_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	11		
D1TEST	10JAN2020	DC V5.11	CH		
D1TEST	10JAN2020	DC V5.11	LC		
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	RE		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_px_pxtype¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_PX	LAB_PX_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXX	09		
D1TEST	10JAN2020	DC V5.11	XXX	10		
D1TEST	10JAN2020	DC V5.11	XXX	11		
D1TEST	10JAN2020	DC V5.11	XXX	CH		
D1TEST	10JAN2020	DC V5.11	XXX	LC		
D1TEST	10JAN2020	DC V5.11	XXX	ND		
D1TEST	10JAN2020	DC V5.11	XXX	RE		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values Outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	NULL or missing	09		

lab_l3_qual

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_QUAL	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	POSITIVE		
D1TEST	10JAN2020	DC V5.11	NEGATIVE		
D1TEST	10JAN2020	DC V5.11	BORDERLINE		
D1TEST	10JAN2020	DC V5.11	ELEVATED		

D1TEST	10JAN2020	DC V5.11	HIGH		
D1TEST	10JAN2020	DC V5.11	LOW		
D1TEST	10JAN2020	DC V5.11	NORMAL		
D1TEST	10JAN2020	DC V5.11	ABNORMAL		
D1TEST	10JAN2020	DC V5.11	UNDETECTABLE		
D1TEST	10JAN2020	DC V5.11	UNDETERMINED		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_mod

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_MOD	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	EQ		
D1TEST	10JAN2020	DC V5.11	GE		
D1TEST	10JAN2020	DC V5.11	GT		
D1TEST	10JAN2020	DC V5.11	LE		
D1TEST	10JAN2020	DC V5.11	LT		
D1TEST	10JAN2020	DC V5.11	TX		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_low

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NORM_MODIFIER_LOW	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	EQ		
D1TEST	10JAN2020	DC V5.11	GE		
D1TEST	10JAN2020	DC V5.11	GT		
D1TEST	10JAN2020	DC V5.11	NO		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_high

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	NORM_MODIFIER_HIGH	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	EQ		
D1TEST	10JAN2020	DC V5.11	GE		

D1TEST	10JAN2020	DC V5.11	GT		
D1TEST	10JAN2020	DC V5.11	NO		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_abn

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ABN_IND	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AB		
D1TEST	10JAN2020	DC V5.11	AH		
D1TEST	10JAN2020	DC V5.11	AL		
D1TEST	10JAN2020	DC V5.11	CH		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	CR		
D1TEST	10JAN2020	DC V5.11	IN		
D1TEST	10JAN2020	DC V5.11	NL		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_loinc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	RECORD_N	RECORD_PCT	DIST_PATID_N
D1TEST	10JAN2020	DC V5.11	1234-5			
D1TEST	10JAN2020	DC V5.11	78865-7			
D1TEST	10JAN2020	DC V5.11	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	10JAN2020	DC V5.11	1234-5	BLD	BLD	
D1TEST	10JAN2020	DC V5.11	1234-5	PLAS	BLD	
D1TEST	10JAN2020	DC V5.11	⋮	⋮	⋮	
D1TEST	10JAN2020	DC V5.11	78865-7	PLAS	PLAS	
D1TEST	10JAN2020	DC V5.11	78865-7	URINE	URINE	

lab_l3_loinc_source_5y (uses the lab_loinc_ref reference table, limited to the most recent 5 years data)¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	SPECIMEN_SOURCE	EXP_SPECIMEN_SOURCE	RECORD_N
D1TEST	10JAN2020	DC V5.11	1234-5	BLD	BLD	

D1TEST	10JAN2020	DC V5.11	1234-5	PLAS	BLD		
D1TEST	10JAN2020	DC V5.11	:	:	:		
D1TEST	10JAN2020	DC V5.11	78865-7	PLAS	PLAS		
D1TEST	10JAN2020	DC V5.11	78865-7	URINE	URINE		

lab_l3_dcgrou¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DC_LAB_GROUP	INCLUDE_E_DC	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	ALBUMIN B/S/P	1			
D1TEST	10JAN2020	DC V5.11	ALBUMIN URINE	0			
D1TEST	10JAN2020	DC V5.11	ALBUMIN URINE 24H	0			
D1TEST	10JAN2020	DC V5.11	ALT	1			
D1TEST	10JAN2020	DC V5.11	AST	1			
D1TEST	10JAN2020	DC V5.11	BICARBONATE	0			
D1TEST	10JAN2020	DC V5.11	BILIRUBIN	0			
D1TEST	10JAN2020	DC V5.11	BK VIRUS	0			
D1TEST	10JAN2020	DC V5.11	NULL or missing	0			

lab_l3_rdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	2010			
D1TEST	10JAN2020	DC V5.11	2011			
D1TEST	10JAN2020	DC V5.11	2012			
D1TEST	10JAN2020	DC V5.11	2013			
D1TEST	10JAN2020	DC V5.11	2014			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

lab_l3_rdate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_DATE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2007_01		
D1TEST	10JAN2020	DC V5.11	2008_01		
D1TEST	10JAN2020	DC V5.11	2009_01		
D1TEST	10JAN2020	DC V5.11	2010_01		
D1TEST	10JAN2020	DC V5.11	2011_01		
D1TEST	10JAN2020	DC V5.11	2012_01		
D1TEST	10JAN2020	DC V5.11	2013_01		
D1TEST	10JAN2020	DC V5.11	2014_01		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

lab_l3_loinc_result_num¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	LAB LOI NC	MIN	P1	P5	P25	MEDI AN	P75	P99	MAX	N	NULL OR MISSING
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										

lab_l3_loinc_result_num_5y¹ (limited to the most recent 5 years data)

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	LAB LOI NC	MIN	P1	P5	P25	MEDI AN	P75	P99	MAX	N	NULL OR MISSING
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										
D1TEST	10JAN2020	DC V5.11	XXXX-X										

lab_l3_raw_name¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RAW_LAB_NAME	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	Electrolytes			
D1TEST	10JAN2020	DC V5.11	ANA			
D1TEST	10JAN2020	DC V5.11	CBC			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

lab_l3_snomed¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_SNOMED	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXXXXXXXXX			
D1TEST	10JAN2020	DC V5.11	XXXXXXXXXX			
D1TEST	10JAN2020	DC V5.11	:			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

lab_l3_unit¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	RESULT_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	10.L/(min.m2)	NA		
D1TEST	10JAN2020	DC V5.11	10.uN.s/(cm5.m2)	NA		
D1TEST	10JAN2020	DC V5.11	10*4/uL	NA		
D1TEST	10JAN2020	DC V5.11	:	NA		
D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		

D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

lab_l3_rsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_RESULT_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

lab_l3_lsource

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	IN		
D1TEST	10JAN2020	DC V5.11	LM		
D1TEST	10JAN2020	DC V5.11	HL		
D1TEST	10JAN2020	DC V5.11	DW		
D1TEST	10JAN2020	DC V5.11	PC		
D1TEST	10JAN2020	DC V5.11	DM		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
			NULL or missing		
			Values outside of CDM specifications		

lab_l3_loinc_unit¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	LAB_LOINC	RESULT_UNIT	RECORD_N
D1TEST	10JAN2020	DC V5.11	1234-5	10.L/min	
D1TEST	10JAN2020	DC V5.11	1234-5	10.L/(min.m2)	
D1TEST	10JAN2020	DC V5.11	:		
D1TEST	10JAN2020	DC V5.11	78865-7	10.uN.s/(cm5. m2)	
D1TEST	10JAN2020	DC V5.11	78865-7	10*4/uL	
D1TEST	10JAN2020	DC V5.11	78865-7	NULL or missing	

XXIV. TABLE SHELLS: CONDITION queries

cond_l3_n

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	DATA SET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	CONDITION	PATID			
D1TEST	10JAN2020	DC V5.11	CONDITION	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	CONDITION	CONDITIONID			
D1TEST	10JAN2020	DC V5.11	CONDITION	CONDITION			

cond_l3_condition

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	DIABETES			
D1TEST	10JAN2020	DC V5.11	HEADACHE			
D1TEST	10JAN2020	DC V5.11	STOMACH ACHE			
D1TEST	10JAN2020	DC V5.11	FATIGUE			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

cond_l3_rdate_y

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	REPORT_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

cond_l3_rdate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	REPORT_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2004_07	
D1TEST	10JAN2020	DC V5.11	2004_08	
D1TEST	10JAN2020	DC V5.11	2004_09	
D1TEST	10JAN2020	DC V5.11	2004_10	
D1TEST	10JAN2020	DC V5.11	2004_11	
D1TEST	10JAN2020	DC V5.11	2004_12	
D1TEST	10JAN2020	DC V5.11	2005_01	
D1TEST	10JAN2020	DC V5.11	2005_02	
D1TEST	10JAN2020	DC V5.11	2005_03	
D1TEST	10JAN2020	DC V5.11	2005_04	
D1TEST	10JAN2020	DC V5.11	2005_05	
D1TEST	10JAN2020	DC V5.11	2005_06	
D1TEST	10JAN2020	DC V5.11	2005_07	
D1TEST	10JAN2020	DC V5.11	2005_08	

D1TEST	10JAN2020	DC V5.11	2005_09	
D1TEST	10JAN2020	DC V5.11	2005_10	
D1TEST	10JAN2020	DC V5.11	2005_11	
D1TEST	10JAN2020	DC V5.11	2005_12	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

cond_I3_status

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	CONDITION STATUS	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	AC		
D1TEST	10JAN2020	DC V5.11	IN		
D1TEST	10JAN2020	DC V5.11	RS		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

cond_I3_type

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	CONDITION TYPE	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	09		
D1TEST	10JAN2020	DC V5.11	10		
D1TEST	10JAN2020	DC V5.11	11		
D1TEST	10JAN2020	DC V5.11	AG		
D1TEST	10JAN2020	DC V5.11	HP		
D1TEST	10JAN2020	DC V5.11	SM		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

cond_I3_source

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	CONDITION STATUS	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	HC		
D1TEST	10JAN2020	DC V5.11	PC		
D1TEST	10JAN2020	DC V5.11	PR		
D1TEST	10JAN2020	DC V5.11	RG		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		

D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications			

XXV. TABLES SHELLS: PRO_CM queries

procml3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PRO_CM	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	PRO_CM	PATID			
D1TEST	10JAN2020	DC V5.11	PRO_CM	PRO_CM_ID			
D1TEST	10JAN2020	DC V5.11	PRO_CM	PRO_RESPONSE			

procml3_pdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

procml3_pdate_ym¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2004_07	
D1TEST	10JAN2020	DC V5.11	2004_08	
D1TEST	10JAN2020	DC V5.11	2004_09	
D1TEST	10JAN2020	DC V5.11	2004_10	
D1TEST	10JAN2020	DC V5.11	2004_11	
D1TEST	10JAN2020	DC V5.11	2004_12	
D1TEST	10JAN2020	DC V5.11	2005_01	
D1TEST	10JAN2020	DC V5.11	2005_02	
D1TEST	10JAN2020	DC V5.11	2005_03	
D1TEST	10JAN2020	DC V5.11	2005_04	
D1TEST	10JAN2020	DC V5.11	2005_05	
D1TEST	10JAN2020	DC V5.11	2005_06	
D1TEST	10JAN2020	DC V5.11	2005_07	
D1TEST	10JAN2020	DC V5.11	2005_08	
D1TEST	10JAN2020	DC V5.11	2005_09	
D1TEST	10JAN2020	DC V5.11	2005_10	

D1TEST	10JAN2020	DC V5.11	2005_11	
D1TEST	10JAN2020	DC V5.11	2005_12	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

procml3_method

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_METHOD	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	PA		
D1TEST	10JAN2020	DC V5.11	EC		
D1TEST	10JAN2020	DC V5.11	PH		
D1TEST	10JAN2020	DC V5.11	IV		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

procml3_mode

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MODE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	SF		
D1TEST	10JAN2020	DC V5.11	SA		
D1TEST	10JAN2020	DC V5.11	PR		
D1TEST	10JAN2020	DC V5.11	PA		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

procml3_loinc¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_LOINC	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	12345-7			
D1TEST	10JAN2020	DC V5.11	56789-1			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

procml3_cat

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_CAT	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		

D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

procsm_l3_itemfullname¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_FULLNAME	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			

procsm_l3_itemnm¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_ITEM_NAME	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	PN_0001		
D1TEST	10JAN2020	DC V5.11	PN_0002		
D1TEST	10JAN2020	DC V5.11	PN_0001		
D1TEST	10JAN2020	DC V5.11	PN_0001		
D1TEST	10JAN2020	DC V5.11	PN_0001		
D1TEST	10JAN2020	DC V5.11	PN_0007		
D1TEST	10JAN2020	DC V5.11	PN_0007		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

procsm_l3_measure_fullname¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MEASURE_FULLNAME	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11	NULL or missing		

procsm_l3_measurenm¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_MEASURE_NAME	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			

D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11			
D1TEST	10JAN2020	DC V5.11	NULL or missing		

procml3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PRO_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	PM		
D1TEST	10JAN2020	DC V5.11	NQ		
D1TEST	10JAN2020	DC V5.11	AM		
D1TEST	10JAN2020	DC V5.11	NT		
D1TEST	10JAN2020	DC V5.11	PC		
D1TEST	10JAN2020	DC V5.11	LC		
D1TEST	10JAN2020	DC V5.11	HC		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

procml3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	CONDITION_STATUS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	SR		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXVI. TABLE SHELL: PCORNTRIAL query

trial_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PCORNTRIAL	PATID			

D1TEST	10JAN2020	DC V5.11	PCORNET_TRIAL	TRIALID			
D1TEST	10JAN2020	DC V5.11	PCORNET_TRIAL	PARTICIPANTID			
D1TEST	10JAN2020	DC V5.11	PCORNET_TRIAL	TRIAL_KEY			

XXVII. TABLE SHELL: PROVIDER queries

prov_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PROVIDER	PROVIDERID			
D1TEST	10JAN2020	DC V5.11	PROVIDER	PROVIDER_NPI			

prov_l3_npiflag

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_NPI_FLAG	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

prov_l3_specialty¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SPECIALTY_PRIMARY	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	101Y00000X		
D1TEST	10JAN2020	DC V5.11	101YA0400X		
D1TEST	10JAN2020	DC V5.11	101YM0800X		
D1TEST	10JAN2020	DC V5.11	...		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

prov_l3_specialty_group¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SPECIALTY_GROUP	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Behavioral Health & Social Service Providers		
D1TEST	10JAN2020	DC V5.11	Chiropractic Providers		
D1TEST	10JAN2020	DC V5.11	Dental Providers		
D1TEST	10JAN2020	DC V5.11	...		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		

D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

prov_l3_sex

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	PROVIDER_SEX	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	A		
D1TEST	10JAN2020	DC V5.11	F		
D1TEST	10JAN2020	DC V5.11	M		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXVIII. TABLE SHELL: MED_ADMIN queries

medadm_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	PATID			
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMINID			
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	MEDADMIN_PR OVIDERID			
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	MED_ADMIN	PRESCRIBINGID			

medadm_l3_doseadm

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

medadm_l3_doseadmunit¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_DOSE_ADMIN_UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	%	NA		
D1TEST	10JAN2020	DC V5.11	cm	NA		
D1TEST	10JAN2020	DC V5.11	Gram	NA		
D1TEST	10JAN2020	DC V5.11	:	NA		

D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		
D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

medadm_l3_route¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_ROUTE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OTIC		
D1TEST	10JAN2020	DC V5.11	INTRA_ARTICULAR		
D1TEST	10JAN2020	DC V5.11	GASTROSTOMY		
D1TEST	10JAN2020	DC V5.11	:		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

medadm_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

medadm_l3_type

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	RX		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

medadm_l3_sdate_y

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_START_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

medadm_l3_sdate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_START_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2014_07	
D1TEST	10JAN2020	DC V5.11	2014_08	
D1TEST	10JAN2020	DC V5.11	2014_09	
D1TEST	10JAN2020	DC V5.11	2014_10	
D1TEST	10JAN2020	DC V5.11	2014_11	
D1TEST	10JAN2020	DC V5.11	2014_12	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

medadm_l3_code_type¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	MEDADMIN_CODE	MEDADMIN_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXX	ND		
D1TEST	10JAN2020	DC V5.11	XXX	RX		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values Outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	⋮	⋮		
D1TEST	10JAN2020	DC V5.11	NULL or missing	ND		

XXIX. TABLE SHELL: OBS_CLIN queries

obsclin_l3_n

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
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D1TEST	10JAN2020	DC V5.11	OBS_CLIN	PATID			
D1TEST	10JAN2020	DC V5.11	OBS_CLIN	OBSCLINID			
D1TEST	10JAN2020	DC V5.11	OBS_CLIN	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	OBS_CLIN	OBSCLIN_PROVIDERID			

obsclin_l3_type_code¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	OBSCLIN_CODE	OBSCLIN_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXXX-X	LC		
D1TEST	10JAN2020	DC V5.11	XXXXXXXXXX	SM		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values Outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	:	:		
D1TEST	10JAN2020	DC V5.11	NULL or missing	LC		

obsclin_l3_mod

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	OBSCLIN_RESULT_MODIFIER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	EQ		
D1TEST	10JAN2020	DC V5.11	GE		
D1TEST	10JAN2020	DC V5.11	GT		
D1TEST	10JAN2020	DC V5.11	LE		
D1TEST	10JAN2020	DC V5.11	LT		
D1TEST	10JAN2020	DC V5.11	TX		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obsclin_l3_qual

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	OBSCLIN_RESULT_QUAL	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	POSITIVE		
D1TEST	10JAN2020	DC V5.11	NEGATIVE		
D1TEST	10JAN2020	DC V5.11	BORDERLINE		
D1TEST	10JAN2020	DC V5.11	ELEVATED		
D1TEST	10JAN2020	DC V5.11	HIGH		
D1TEST	10JAN2020	DC V5.11	LOW		
D1TEST	10JAN2020	DC V5.11	NORMAL		

D1TEST	10JAN2020	DC V5.11	ABNORMAL		
D1TEST	10JAN2020	DC V5.11	UNDETECTABLE		
D1TEST	10JAN2020	DC V5.11	UNDETERMINED		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obsclin_l3_runit¹

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	OBSCLIN RESULT UNIT	SHORT YN	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	10.L/min			
D1TEST	10JAN2020	DC V5.11	10.L/(min.m2)			
D1TEST	10JAN2020	DC V5.11	10.uN.s/(cm5.m2)			
D1TEST	10JAN2020	DC V5.11	10*4/uL			
D1TEST	10JAN2020	DC V5.11	⋮			
D1TEST	10JAN2020	DC V5.11	NI			
D1TEST	10JAN2020	DC V5.11	UN			
D1TEST	10JAN2020	DC V5.11	OT			
D1TEST	10JAN2020	DC V5.11	NULL or missing			
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications			

obsclin_l3_type

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	OBSCLIN TYPE	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	LC		
D1TEST	10JAN2020	DC V5.11	SM		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obaclin_l3_source

DATA MART ID	RESPONSE DATE	QUERY PACKAGE	OBSCLIN SOURCE	RECORD N	RECORD PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	BI		
D1TEST	10JAN2020	DC V5.11	CL		
D1TEST	10JAN2020	DC V5.11	RG		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		

D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXX. TABLE SHELL: OBS_GEN queries

obsgen_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	DATASET	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	OBS_GEN	PATID			
D1TEST	10JAN2020	DC V5.11	OBS_GEN	OBSGENID			
D1TEST	10JAN2020	DC V5.11	OBS_GEN	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	OBS_GEN	OBSGEN_PROVIDERID			

obsgen_l3_code_type¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	OBSGEN_CODE	OBSGEN_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXXX-X	09DX		
D1TEST	10JAN2020	DC V5.11	XXXX-X	09PX		
D1TEST	10JAN2020	DC V5.11	XXXXXXXXXX	10DX		
D1TEST	10JAN2020	DC V5.11	XXXXXXXXXX	10PX		
D1TEST	10JAN2020	DC V5.11	XXX	11DX		
D1TEST	10JAN2020	DC V5.11	XXX	11PX		
D1TEST	10JAN2020	DC V5.11	XXX	ON		
D1TEST	10JAN2020	DC V5.11	XXX	SM		
D1TEST	10JAN2020	DC V5.11	XXX	HP		
D1TEST	10JAN2020	DC V5.11	XXX	HG		
D1TEST	10JAN2020	DC V5.11	NULL or missing	LC		
D1TEST	10JAN2020	DC V5.11	XXXX	RX		

obsgen_l3_mod

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	OBSGEN_RESULT_MODIFIER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	EQ		
D1TEST	10JAN2020	DC V5.11	GE		
D1TEST	10JAN2020	DC V5.11	GT		
D1TEST	10JAN2020	DC V5.11	LE		
D1TEST	10JAN2020	DC V5.11	LT		
D1TEST	10JAN2020	DC V5.11	TX		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obsgen_l3_tmod

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	OBSGEN_RESULT_MODIFIER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	ENR		
D1TEST	10JAN2020	DC V5.11	ENC		
D1TEST	10JAN2020	DC V5.11	DX		
D1TEST	10JAN2020	DC V5.11	PX		
D1TEST	10JAN2020	DC V5.11	VT		
D1TEST	10JAN2020	DC V5.11	DSP		
D1TEST	10JAN2020	DC V5.11	LAB		
D1TEST	10JAN2020	DC V5.11	CON		
D1TEST	10JAN2020	DC V5.11	PRO		
D1TEST	10JAN2020	DC V5.11	RX		
D1TEST	10JAN2020	DC V5.11	PT		
D1TEST	10JAN2020	DC V5.11	DTH		
D1TEST	10JAN2020	DC V5.11	MA		
D1TEST	10JAN2020	DC V5.11	OC		
D1TEST	10JAN2020	DC V5.11	OB		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obsgen_l3_qual

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	OBSGEN_RESULT_QUAL	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	POSITIVE		
D1TEST	10JAN2020	DC V5.11	NEGATIVE		
D1TEST	10JAN2020	DC V5.11	BORDERLINE		
D1TEST	10JAN2020	DC V5.11	ELEVATED		
D1TEST	10JAN2020	DC V5.11	HIGH		
D1TEST	10JAN2020	DC V5.11	LOW		
D1TEST	10JAN2020	DC V5.11	NORMAL		
D1TEST	10JAN2020	DC V5.11	ABNORMAL		
D1TEST	10JAN2020	DC V5.11	UNDETECTABLE		
D1TEST	10JAN2020	DC V5.11	UNDETERMINED		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

obsgen_l3_runit¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	OBS GEN RESULT UNIT	SHORT_YN	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	10.L/min	NA		
D1TEST	10JAN2020	DC V5.11	10.L/(min.m2)	NA		
D1TEST	10JAN2020	DC V5.11	10.uN.s/(cm5.m2)	NA		
D1TEST	10JAN2020	DC V5.11	10*4/uL	NA		
D1TEST	10JAN2020	DC V5.11	:	NA		
D1TEST	10JAN2020	DC V5.11	NI	NA		
D1TEST	10JAN2020	DC V5.11	UN	NA		
D1TEST	10JAN2020	DC V5.11	OT	NA		
D1TEST	10JAN2020	DC V5.11	NULL or missing	NA		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications	NA		

obs gen l3_type

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	OBS GEN TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	09DX		
D1TEST	10JAN2020	DC V5.11	09PX		
D1TEST	10JAN2020	DC V5.11	10DX		
D1TEST	10JAN2020	DC V5.11	10PX		
D1TEST	10JAN2020	DC V5.11	11DX		
D1TEST	10JAN2020	DC V5.11	11PX		
D1TEST	10JAN2020	DC V5.11	ON		
D1TEST	10JAN2020	DC V5.11	SM		
D1TEST	10JAN2020	DC V5.11	HP		
D1TEST	10JAN2020	DC V5.11	HG		
D1TEST	10JAN2020	DC V5.11	LC		
D1TEST	10JAN2020	DC V5.11	RX		
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	CH		
D1TEST	10JAN2020	DC V5.11	HC		
D1TEST	10JAN2020	DC V5.11	GM		
D1TEST	10JAN2020	DC V5.11	UD_*		
D1TEST	10JAN2020	DC V5.11	PC_*		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

XXXI. TABLE SHELL: LDS_ADDRESS_HISTORY queries

ldsadrs_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PATID			
D1TEST	10JAN2020	DC V5.11	ADDRESSID			

ldsadrs_l3_adrsuse

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_USE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	HO		
D1TEST	10JAN2020	DC V5.11	WO		
D1TEST	10JAN2020	DC V5.11	TP		
D1TEST	10JAN2020	DC V5.11	OL		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

ldsadrs_l3_adrstype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	PO		
D1TEST	10JAN2020	DC V5.11	PH		
D1TEST	10JAN2020	DC V5.11	BO		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

ldsadrs_l3_adrspref

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_PREFERRED	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	Y		
D1TEST	10JAN2020	DC V5.11	N		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

ldsadrs_l3_adrscty¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_CITY	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	DURHAM		
D1TEST	10JAN2020	DC V5.11			

D1TEST	10JAN2020	DC V5.11	NULL or missing		
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ldsadrs_l3_adrsstate

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_STATE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	NC		
D1TEST	10JAN2020	DC V5.11	TX		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

ldsadrs_l3_adrszip5¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_ZIP5	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	27701		
D1TEST	10JAN2020	DC V5.11	27705		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

ldsadrs_l3_adrszip9¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	ADDRESS_ZIP9	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	277014567		
D1TEST	10JAN2020	DC V5.11	277052345		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

XXXII. TABLE SHELL: IMMUNIZATION queries

immune_l3_n

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PATID			
D1TEST	10JAN2020	DC V5.11	IMMUNIZATIONID			
D1TEST	10JAN2020	DC V5.11	ENCOUNTERID			
D1TEST	10JAN2020	DC V5.11	PROCEDURESID			
D1TEST	10JAN2020	DC V5.11	VX_PROVIDERID			
D1TEST	10JAN2020	DC V5.11	PATID			

immune_l3_rdate_y

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_RECORD_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			

D1TEST	10JAN2020	DC V5.11	2009				
D1TEST	10JAN2020	DC V5.11	NULL or missing				

immune_l3_rdate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	VX_RECORD_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2014_07	
D1TEST	10JAN2020	DC V5.11	2014_08	
D1TEST	10JAN2020	DC V5.11	2014_09	
D1TEST	10JAN2020	DC V5.11	2014_10	
D1TEST	10JAN2020	DC V5.11	2014_11	
D1TEST	10JAN2020	DC V5.11	2014_12	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

immune_l3_adate_y

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	VX_ADMIN_DATE	RECORD_N	RECORD_PCT	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	2004			
D1TEST	10JAN2020	DC V5.11	2005			
D1TEST	10JAN2020	DC V5.11	2006			
D1TEST	10JAN2020	DC V5.11	2007			
D1TEST	10JAN2020	DC V5.11	2008			
D1TEST	10JAN2020	DC V5.11	2009			
D1TEST	10JAN2020	DC V5.11	NULL or missing			

immune_l3_adate_ym¹

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	VX_ADMIN_DATE	RECORD_N
D1TEST	10JAN2020	DC V5.11	2014_07	
D1TEST	10JAN2020	DC V5.11	2014_08	
D1TEST	10JAN2020	DC V5.11	2014_09	
D1TEST	10JAN2020	DC V5.11	2014_10	
D1TEST	10JAN2020	DC V5.11	2014_11	
D1TEST	10JAN2020	DC V5.11	2014_12	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

immune_l3_codetype

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	VX_CODE_TYPE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	CX		
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	CH		
D1TEST	10JAN2020	DC V5.11	RX		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		

D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_l3_code_codetype

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_CODE	VX_CODE_TYPE	RECORD_N	DISTINCT_PATID_N
D1TEST	10JAN2020	DC V5.11	XXX	CX		
D1TEST	10JAN2020	DC V5.11	XXX	ND		
D1TEST	10JAN2020	DC V5.11	XXX	CH		
D1TEST	10JAN2020	DC V5.11	XXX	RX		
D1TEST	10JAN2020	DC V5.11	XXX	CX		
D1TEST	10JAN2020	DC V5.11	XXX	ND		
D1TEST	10JAN2020	DC V5.11	XXX	CH		
D1TEST	10JAN2020	DC V5.11	XXX	RX		
D1TEST	10JAN2020	DC V5.11	XXX	NI		
D1TEST	10JAN2020	DC V5.11	XXX	UN		
D1TEST	10JAN2020	DC V5.11	XXX	OT		
D1TEST	10JAN2020	DC V5.11	XXX	NULL or missing		
D1TEST	10JAN2020	DC V5.11	XXX	Values Outside of CDM specifications		
D1TEST	10JAN2020	DC V5.11	NULL or missing	CX		

immune_l3_status

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_STATUS	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	CP		
D1TEST	10JAN2020	DC V5.11	ER		
D1TEST	10JAN2020	DC V5.11	ND		
D1TEST	10JAN2020	DC V5.11	IC		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_l3_statusreason

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_STATUS_REASON	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	IM		
D1TEST	10JAN2020	DC V5.11	MP		
D1TEST	10JAN2020	DC V5.11	OS		
D1TEST	10JAN2020	DC V5.11	PO		
D1TEST	10JAN2020	DC V5.11	NI		

D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_l3_source

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_SOURCE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OD		
D1TEST	10JAN2020	DC V5.11	EF		
D1TEST	10JAN2020	DC V5.11	IS		
D1TEST	10JAN2020	DC V5.11	PR		
D1TEST	10JAN2020	DC V5.11	DR		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_l3_dose_dist

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	STAT	RECORD_N
D1TEST	10JAN2020	DC V5.11	MIN	
D1TEST	10JAN2020	DC V5.11	MEAN	
D1TEST	10JAN2020	DC V5.11	MEDIAN	
D1TEST	10JAN2020	DC V5.11	MAX	
D1TEST	10JAN2020	DC V5.11	N	
D1TEST	10JAN2020	DC V5.11	NULL or missing	

immune_l3_doseunit¹

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_DOSE_UNIT	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	%		
D1TEST	10JAN2020	DC V5.11	cm		
D1TEST	10JAN2020	DC V5.11	g		
D1TEST	10JAN2020	DC V5.11	:		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_l3_route

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_ROUTE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	OTIC		

D1TEST	10JAN2020	DC V5.11	INTRA_ARTICULAR		
D1TEST	10JAN2020	DC V5.11	GASTROSTOMY		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_I3_bodysite

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_BODY_SITE	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	BE		
D1TEST	10JAN2020	DC V5.11	BN		
D1TEST	10JAN2020	DC V5.11	BU		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_I3_manufacturer

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_MANUFACTURER	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	AB		
D1TEST	10JAN2020	DC V5.11	ACA		
D1TEST	10JAN2020	DC V5.11	AD		
D1TEST	10JAN2020	DC V5.11	⋮		
D1TEST	10JAN2020	DC V5.11	NI		
D1TEST	10JAN2020	DC V5.11	UN		
D1TEST	10JAN2020	DC V5.11	OT		
D1TEST	10JAN2020	DC V5.11	NULL or missing		
D1TEST	10JAN2020	DC V5.11	Values outside of CDM specifications		

immune_I3_lotnum

DATAMARTID	RESPONSE_DATE	QUERY_PACKAGE	VX_LOT_NUM	RECORD_N	RECORD_PCT
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	XXXXXX		
D1TEST	10JAN2020	DC V5.11	NULL or missing		

XXXIII. TABLE SHELL: HASH_TOKEN queries

hash_l3_n

DATA MART ID	RESPONSE_DATE	QUERY_PACKAGE	TAG	ALL_N	DISTINCT_N	NULL_N
D1TEST	10JAN2020	DC V5.11	PATID			

XXXIV. 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, PCORNTRIAL, 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_disisp" 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.
Dec 20, 2018	V4.13	Full data curation for OBS_CLIN and OBS_GEN tables. For the data curation query, added query progress check report; updated Value Set Reference File to v1.5; and added dia_l3_dxtype and pro_l3_pxtype. Updated Potential Code Errors to v6 which incorporates OBS_CLIN, OBS_GEN, and MED_ADMIN. In the Empirical Data Curation report, incorporated PCORnet Data Checks v6, added 4 tables and 1 chart, revised 11 tables and charts and switched to PDF format.
Mar 19, 2019	V4.14	Corrected minor bugs in v4.13 affecting PRO_L3_PXTYPE and Data Check 2.07. Updated the Data Curation Lab Group reference file to v3.1 and the network-wide results displayed in the EDC report to the most recently available data.
Jun 17, 2019	V4.15	Set the low cell count threshold to 0. Added Section IX: Query Input and Output Diagram. Added information about the new CDM Value Set Conformance Query to Section X: Responding to the Query Package.
Oct 7, 2019	V5.10	Additions and revisions to support CDM v5.1 and PCORnet Data Checks v7. In the Data Curation query, added 42 queries (17 pertaining to previously characterized tables; 25 for tables new to CDM v5.1); revised 30 queries; and updated the reference files for Data Curation Lab Groups, RXCUIs, and lab outliers. In the Empirical Data Curation report, revised 21 tables and added 4 tables and 7 charts.
Jan 6, 2020	V5.11	Corrected minor bugs in V5.10. Updated the Data Check programming so that (a) Data Check 2.08 (monthly outliers) will work for DataMarts that have SAS_ETS, and (b) in Data Check 2.06 (lab outliers) the pediatric lab reference range will be applied to pediatric DataMarts created in October 2019.