

ConcePTION: ETL specification

DAP: JHN

Data source: JHN

ConcePTION CDM version: 2.2

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Introduction

This document describes the procedure to Extract, Transform and Load (ETL) an origin datasource to the Conception CDM, the target source.

The document has two purposes

It serves as a guidance for the programmers who implement the ETL specifications into a computer program

It serves as a reference for investigators to understand the origin of the data they find in the CDM, to design their study and to interpret their results.

This document refers to the following sources

The ConcePTION CDM table specifications document, last version, which is available [at this link](https://docs.google.com/spreadsheets/d/1hc-TBOfEzRBthGP78ZWIa13C0RdhU7bK/edit#gid=1375450620)

The ConcePTION CDM vocabulary specifications document, last version, which is available [at this link](https://docs.google.com/spreadsheets/d/1idAEKC440rkIYIxCSRmEVgEPj_UouUI-I3kxNCpJt3U/edit#gid=1012004819)

The ConcePTION CDM vocabulary suggestions, which is available [at this link](https://docs.google.com/spreadsheets/d/1vPZwzQyjXlmmE1vvx3r1Jkw3Juz2DLjU9dKgEo8MijE/edit#gid=1965917958)

The description and interview answer sheet of the origin data source

The ConcePTION CDM v2.2

The ConcePTION CDM v 2.2 is composed by the following tables

Routine healthcare data

VISIT\_OCCURRENCE

EVENTS

MEDICINES

PROCEDURES

VACCINES

MEDICAL\_OBSERVATIONS

Surveillance

EUROCAT

SURVEY\_ID

SURVEY\_OBSERVATIONS

Curated tables

PERSONS

OBSERVATION\_PERIODS

PERSON\_RELATIONSHIPS

Metadata

PRODUCTS

CDM\_SOURCE

METADATA

INSTANCE

Some details are specified in the following Table

|  |  |  |
| --- | --- | --- |
| Section | Table | Role |
| Routine healthcare data | VISIT\_OCCURRENCE | This table contains a summary description of the visits during which records of EVENTS, PROCEDURES, but possibly also MEDICAL\_OBSERVATIONS or VACCINES or MEDICATIONS were recorded. This serves both to collect visit-level information, and to enable grouping sets of records that were recorded concurrently |
| Routine healthcare data | EVENTS | This table collects diagnoses, symptoms and signs ('events') observed during routine healthcare, such as a hospital admission, a primary care or specialist visit, or other. |
| Routine healthcare data | MEDICINES | This table collects data on drug prescriptions, dispensings or administrations occurred during routine healthcare. |
| Routine healthcare data | PROCEDURES | This table collects procedures administered during routine healthcare. Can be a surgery, or a diagnostic procedure, a rehabilitation procedure, a therapeutical procedure... |
| Routine healthcare data | VACCINES | This table collects dispensations or administrations of vaccines. |
| Routine healthcare data | MEDICAL\_OBSERVATIONS | This table collects observations recorded during routine healthcare. Can be a result from a laboratory test, or a physical measurement, but also level of education, or sex, or a pathology report |
| Surveillance | EUROCAT | This table collects surveillance data on congenital anomalies, following the EUROCAT standard |
| Surveillance | SURVEY\_ID | This table contains a summary description of the survey during which records of SURVEY\_OBSERVATIONS were recorded. This serves both to collect survey-level information, and to enable grouping sets of records that were recorded concurrently |
| Surveillance | SURVEY\_OBSERVATIONS | List of observations in a survey |
| Curated tables | PERSONS | This table records persons that are to enter analysis of this instance of the CDM |
| Curated tables | OBSERVATION\_PERIODS | Periods during which data is collected in the datasource for this person. This table contributes to defining the datasource population |
| Curated tables | PERSON\_RELATIONSHIPS | For any person, this table collects the pairing with the identifier of mother or of other relationships that may be available |
| Metadata | PRODUCTS | This table collects the information associated to each marketed product that may have been prescribed, dispensed or administered to a patient. It contains one row per product |
| Metadata | CDM\_SOURCE | In this table, a high-level, machine-readable description of the instance of the CDM is contained.The scripts of the studies that are deemed to run on this instance will use this information to tailor some choices to the specific DAP and datasource |
| Metadata | METADATA | This table contains some general information about how the local data fit the CDM: for instance, they are used to describe which tables of the standard CDM are populated in this instance; and what coding systems are used for the various data domains. This information is used by the scripts for for quality check (eg check that all the tables that are expected to be findable can indeed be found; and that the coding systems that are observed in the data are indeed those listed here) |
| Metadata | INSTANCE | This table displays the list of the tables and columns of the local data dictionary that are mapped to the instance of the CDM, together with date of last update (both in terms of when the data was accessed by the DAPs, and when the data was actually recorded and can be considered complete). This is to be used, together with a machine-readable version of the ETL, to match the inclusion of the study population and the creation of the study variables to the actual data loaded in the CDM instance. The list is restricted to tables and columns of the local data dictionary that are included in the current ETL document. |

2. The data dictionary of this data source

This data source contains the following tables

CDM\_SOURCE

EVENTS

INSTANCE

MEDICAL\_OBSERVATIONS

MEDICINES

METADATA

OBSERVATION\_PERIODS

PERSONS

PROCEDURES

VACCINES

VISIT\_OCCURENCE

3. Pairs “origin table-target table”

3.1 Origin tables and their target tables

Place on the left column of this table the name of all the origin tables that you listed in Section 2, one per row. Then list in the right column all the target tables that correspond to the origin table on the left. Note that each row in the left column may contain multiple table names, and that the same target table may appear in multiple rows. To decide which target table(s) you want to list, use the definitions inSection 1 above, or if you need more details .

|  |  |
| --- | --- |
| Origin table | Corresponding target table(s) |
| Bepaling | MEDICAL\_OBSERVATIONS |
| Contact | VISIT |
| Episode | EVENTS |
| Journaal | EVENTS |
| Journaalregel | EVENTS |
| Medicatie | MEDICINES, VACCINES |
| Patient | PERSONS |
| Patient\_in\_uit | OBSERVATION\_PERIODS |
| Verrichtingen | PROCEDURES |

3.2 Target tables and their origin tables

Conversely, using the table above, reverse the information in the table below. For each target table on the right column, list all the origin tables that are associated with it in the table above.

|  |  |
| --- | --- |
| Target table | Origin table(s) |
| VISIT\_OCCURRENCE | Contact |
| EVENTS | Episode, Journaal, Journaalregel |
| MEDICINES | Medicatie |
| PROCEDURES | Verrichtingen |
| VACCINES | Medicatie |
| MEDICAL\_OBSERVATIONS | Bepaling |
| EUROCAT | N/A |
| SURVEY\_ID | N/A |
| SURVEY\_OBSERVATIONS | N/A |
| PERSONS | Patient |
| OBSERVATION\_PERIODS | Patient\_in\_uit |
| PERSON\_RELATIONSHIPS | N/A |
| PRODUCTS | N/A |
| CDM\_SOURCE | ... |
| METADATA | ... |
| INSTANCE | ... |

The specification tables that illustrate how each source tables must be used to populate the ConcePTION CDM target tables are listed in section 4

4. Specification tables

4.1 Routinary healthcare data

VISIT\_OCCURRENCE

The origin tables feeding this target CDM table are: Contact

VISIT\_OCCURRENCE

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: VISIT\_OCCURRENCE | | | |
| Origin table: Contact | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| visit\_occurrence\_id | Id |  |  |
| visit\_start\_date | Datum |  |  |
| visit\_end\_date | Datum |  |  |
| specialty\_of\_visit | ‘HAG’ |  | Fixed value |
| specialty\_of\_visit\_vocabulary | ‘NHG12’ |  | Fixed value |
| status\_at\_discharge | N/A |  |  |
| status\_at\_discharge\_vocabulary | N/A |  |  |
| meaning\_of\_visit | ‘GP\_visit\_or\_contact’ |  | Fixed value |
| origin\_of\_visit | ‘contact’ |  | Fixed value |

EVENTS

The origin tables feeding this target CDM table are: episode, journaalregel and journaal

EVENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: EVENTS | | | |
| Origin table: episode\*, journaalregel and journaal+ | | | |
| Action:  Episode: Complex, filtering our historic lines, keeping only lines with mutations, assigning begin and end dates based on mutation dates, creating a timeline, keep only active (at the time of extraction) lines  Journaalregel: Join with Journaal to get tot the visit\_occurence\_id | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc\* Patient\_id\_umc+ |  |  |
| start\_date\_record | Begindatum\* Journaal\_Datumtijd+ |  |  |
| end\_date\_record | Einddatum\* N/A+ |  |  |
| event\_code | Icpc\* Icpc+ |  |  |
| event\_record\_vocabulary | ‘Icpc’ or ‘free\_text’\*+ | Depending on source column |  |
| text\_linked\_to\_event\_code | Icpc\_omschrijving\* Soepcode+ |  |  |
| event\_free\_text | Omschrijving\* Tekst+ |  |  |
| present\_on\_admission | N/A\*+ |  |  |
| laterality\_of\_event | N/A\*+ |  |  |
| meaning\_of\_event | ‘primary\_care\_event’\* Journaalregel+ |  | Fixed value |
| origin\_of\_event | ‘episode’\* ‘journaalregel’+ |  | Fixed value |
| visit\_occurrence\_id | N/A\* Contact\_id+ |  |  |

MEDICINES

The origin tables feeding this target CDM table are: medicatie

MEDICINES - ...

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: MEDICINES | | | |
| Origin table: medicatie | | | |
| Action: Filter out any ATC-code starting with J07, these go into vaccines | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| medicinal\_product\_id | N/A |  |  |
| medicinal\_product\_atc\_code | Atc\_code |  |  |
| date\_dispensing | N/A |  |  |
| date\_prescription | Voorschrijfdatum |  |  |
| disp\_number\_medicinal\_product | N/A |  |  |
| presc\_quantity\_per\_day | Hoeveelheid |  | THIS IS NOT CORRECT, actually the total number of units prescribed |
| presc\_quantity\_unit | Aflever\_eenheid |  |  |
| presc\_duration\_days | N/A |  |  |
| product\_lot\_number | N/A |  |  |
| indication\_code | N/A |  |  |
| indication\_code\_vocabulary | N/A |  |  |
| meaning\_of\_drug\_record | ‘Prescription\_in\_general\_practition’ |  | Fixed value |
| origin\_of\_drug\_record | ‘medicatie’ |  | Fixed value |
| prescriber\_speciality | Specialisme |  |  |
| prescriber\_speciality\_vocabulary | ‘NHG12’ |  | Fixed value |
| visit\_occurrence\_id | Contact\_id |  |  |

PROCEDURES

The origin tables feeding this target CDM table are: verrichting

PROCEDURES

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: PROCEDURES | | | |
| Origin table: verrichting | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| procedure\_date | Factuur\_datum |  |  |
| procedure\_code | Vektis\_code, Nhg\_code | If Vektis\_code is empty then Nhg\_code |  |
| procedure\_code\_vocabulary | 'Vektis COD322-NZA, code-element 008' or ‘NHG15’ | See above |  |
| visit\_occurrence\_id | Contact\_id |  |  |
| meaning\_of\_procedure | ‘GP\_procedure’ |  | Fixed value |
| origin\_of\_procedure | ‘verrichting’ |  | Fixed value |

VACCINES

The origin tables feeding this target CDM table are: medicatie

VACCINES

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: VACCINES | | | |
| Origin table: medicatie | | | |
| Action: Only ATC-codes starting with ‘J07’, the rest goes into MEDICINES | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| vx\_record\_date | Voorschrijfdatum |  |  |
| vx\_admin\_date | Afleverdatum |  |  |
| vx\_atc | Atc\_code |  |  |
| vx\_type | N/A |  |  |
| vx\_text | Omschrijving |  |  |
| medicinal\_product\_id | N/A |  |  |
| origin\_of\_vx\_record | ‘medicatie’ |  | Fixed value |
| meaning\_of\_vx\_record | 'Vaccination\_as\_administerd\_or\_reported\_back\_to\_the\_GP' |  | Fixed value |
| vx\_dose | Product\_sterkte |  |  |
| vx\_manufacturer | N/A |  |  |
| vx\_lot\_num | Gebruiksvoorschrift | Only if preceded by the string ‘Batchnummer:’ |  |
| visit\_occurrence\_id | Contact\_id |  |  |

MEDICAL\_OBSERVATIONS

The origin tables feeding this target CDM table are: bepaling and NHG table 45

MEDICAL\_OBSERVATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: MEDICAL\_OBSERVATIONS | | | |
| Origin table: bepaling and NHG table 45 | | | |
| Action: NHG table 45 is joined to get the mo\_unit | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| mo\_date | Datum |  |  |
| mo\_code | NHGnummer |  |  |
| mo\_record\_vocabulary | ‘NHG45’ |  | Fixed value |
| mo\_source\_table | ‘Bepaling’ |  | Fixed value |
| mo\_source\_column | ‘Uitslag’ if Uitslag is not empty, else ‘Uitslag\_tekst’ |  |  |
| mo\_source\_value | Uitslag if Uitslag is not empty, else Uitslag\_tekst |  |  |
| mo\_unit | eenheid |  | From NHG table 45 |
| mo\_meaning | ‘GP\_lab\_values’ |  | Fixed value |
| mo\_origin | ‘bepaling’ |  | Fixed value |
| visit\_occurrence\_id | Contact\_id |  |  |

4.2 Surveillance

EUROCAT

The origin tables feeding this target CDM table are: N/A

SURVEY\_ID

The origin tables feeding this target CDM table are: N/A

SURVEY\_ID - ...

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: SURVEY\_ID | | | |
| Origin table: N/A | | | |
| Action: … | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | N/A |  |  |
| survey\_id | N/A |  |  |
| survey\_date | N/A |  |  |
| survey\_meaning | N/A |  |  |
| survey\_origin | N/A |  |  |

SURVEY\_OBSERVATIONS

The origin tables feeding this target CDM table are: N/A

SURVEY\_OBSERVATIONS - …

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: SURVEY\_OBSERVATIONS | | | |
| Origin table: N/A | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | N/A |  |  |
| so\_date | N/A |  |  |
| so\_source\_table | N/A |  |  |
| so\_source\_column | N/A |  |  |
| so\_source\_value | N/A |  |  |
| so\_unit | N/A |  |  |
| so\_meaning | N/A |  |  |
| so\_origin | N/A |  |  |
| survey\_id | N/A |  |  |

4.3 Curated tables

PERSONS

The origin tables feeding this target CDM table are: patient

PERSONS - …

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: PERSONS | | | |
| Origin table: patient | | | |
| Action: Keep only the most recent row per patient (with the highest import\_id) | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| day\_of\_birth | N/A |  |  |
| month\_of\_birth | Geboorte\_maand\_jaar | Month part of date |  |
| year\_of\_birth | Geboorte\_maand\_jaar | Year part of date |  |
| day\_of\_death | Uitschrijfdatum | If Uitschrijfreden = 'O' | So, if overleden |
| month\_of\_death | Uitschrijfdatum | If Uitschrijfreden = 'O' | So, if overleden |
| year\_of\_death | Uitschrijfdatum | If Uitschrijfreden = 'O' | So, if overleden |
| sex\_at\_instance\_creation | Geslacht | V -> F |  |
| race | N/A |  |  |
| country\_of\_birth | N/A |  |  |
| quality | N/A |  |  |

OBSERVATION\_PERIODS

The origin tables feeding this target CDM table are: patient\_in\_uit

OBSERVATION\_PERIODS - …

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: OBSERVATION\_PERIODS | | | |
| Origin table: patient\_in\_uit | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | Patient\_id\_umc |  |  |
| op\_start\_date | Inschrijfdatum |  |  |
| op\_end\_date | Uitschrijfdatum |  |  |
| op\_meaning | ‘Registered\_at\_GP’ |  | Fixed value |
| op\_origin | ‘patient\_in\_uit’ |  | Fixed value |

PERSON\_RELATIONSHIPS

The origin tables feeding this target CDM table are: N/A

…

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: PERSON\_RELATIONSHIPS | | | |
| Origin table: N/A | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| person\_id | N/A |  |  |
| related\_id | N/A |  |  |
| meaning\_of\_relationship | N/A |  |  |
| origin\_of\_relationship | N/A |  |  |
| method\_of\_linkage | N/A |  |  |

4.4 Metadata

PRODUCTS

The origin tables feeding this target CDM table are: N/A

|  |  |  |  |
| --- | --- | --- | --- |
| Target table: PRODUCTS | | | |
| Origin table: N/A | | | |
| Action: N/A | | | |
| Target column | Origin column | Rule | Notes |
| medicinal\_product\_id | N/A |  |  |
| medicinal\_product\_name | N/A |  |  |
| unit\_of\_presentation\_type | N/A |  |  |
| unit\_of\_presentation\_num | N/A |  |  |
| administration\_dose\_form | N/A |  |  |
| administration\_route | N/A |  |  |
| medicinal\_product\_atc\_code | N/A |  |  |
| subst1\_atc\_code | N/A |  |  |
| subst2\_atc\_code | N/A |  |  |
| subst3\_atc\_code | N/A |  |  |
| subst1\_amount\_per\_form | N/A |  |  |
| subst2\_amount\_per\_form | N/A |  |  |
| subst3\_amount\_per\_form | N/A |  |  |
| subst1\_amount\_unit | N/A |  |  |
| subst2\_amount\_unit | N/A |  |  |
| subst3\_amount\_unit | N/A |  |  |
| subst1\_concentration | N/A |  |  |
| subst2\_concentration | N/A |  |  |
| subst3\_concentration | N/A |  |  |
| subst1\_concentration\_unit | N/A |  |  |
| subst2\_concentration\_unit | N/A |  |  |
| subst3\_concentration\_unit | N/A |  |  |
| concentration\_total\_content | N/A |  |  |
| concentration\_total\_content\_unit | N/A |  |  |
| medicinal\_product\_manufacturer | N/A |  |  |

CDM\_SOURCE

Fill as follows

|  |  |  |  |
| --- | --- | --- | --- |
| Target column | Origin column | Rule | Notes |
| data\_access\_provider\_code | No source column, manually filled |  |  |
| data\_access\_provider\_name | No source column, manually filled |  |  |
| data\_source\_name | No source column, manually filled |  |  |
| data\_dictionary\_link | No source column, manually filled |  |  |
| etl\_link | No source column, manually filled |  |  |
| cdm\_version | No source column, manually filled |  |  |
| cdm\_vocabulary\_version | No source column, manually filled |  |  |
| instance\_number | No source column, manually filled |  |  |
| date\_creation | No source column, manually filled |  |  |
| recommended\_end\_date | No source column, manually filled |  |  |

METADATA

Instructions

presence\_of\_table

Step 1: Identify the tables present in your working directory. If a table is present the values column should be set to Yes for presence\_of\_table and No if not present. The tablename column is filled out with the name of the table of interest. columnname and other should be empty. If the EUROCAT table is present, then the other column is left empty and all the other variables are filled out in the same manner. If EUROmediCAT is present, then the other column takes the value EUROmediCAT.

presence\_of\_column

Step 2: Identify non-mandatory and mandatory on condition variables from the table of interest. If a table is not present the values column should be set to No for presence\_of\_column for all variables. If a table is present, the tablename column is filled out with the name of the table of interest, columnname with the names of variables identified above, other should be empty(except when EUROmediCAT is present, it is set to EUROmediCAT for variables of the EUROmediCAT table) and values with Yes or No.

list\_of\_values

Step 3: Identify vocabulary variables from the table of interest. Only variables that have at least one record and are vocabulary variables should be mentioned in list\_of\_values. The tablename column is filled out with the name of the table of interest, columnname with the names of variables identified above, other should be empty(except when EUROmediCAT is present, it is set to EUROmediCAT for variables of the EUROmediCAT table) and values with the values present in your data for that specific variable. If more than one value is present, they should be separated by space.

Subpopulations: if the data has subpopulations the following variables can be used to define them

•subpopulations

•op\_meaning\_sets (according to the OBSERVATION\_PERIODS table)

•op\_meanings\_per\_set (according to the OBSERVATION\_PERIODS table)

•exclude\_meanings

For subpopulations, the variables tablename, columnname and other are left empty. All present subpopulations are filled out in values, separated by space.

For op\_meaning\_sets the variables tablename and columnname are left empty. The name of the subpopulation is mentioned in the other column and the sets of meanings in values.

For op\_meanings\_per\_set the variables tablename and columnname are left empty. The name of the set of meanings is mentioned in the other column and the specific meanings regarding that set in values.

For exclude\_meanings the variable columnname is left empty. The name of the table of interest is mentioned in tablename, the subpopulation in other and the specific meanings to be excluded in values.

Fill out the table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type\_of\_metadata | tablename | columnname | other | values |
| presence\_of\_table | VISIT\_OCCURRENCE |  |  |  |
| presence\_of\_column | VISIT\_OCCURRENCE | visit\_end\_date |  |  |
| presence\_of\_column | VISIT\_OCCURRENCE | speciality\_of\_visit |  |  |
| presence\_of\_column | VISIT\_OCCURRENCE | speciality\_of\_visit\_vocabulary |  |  |
| presence\_of\_column | VISIT\_OCCURRENCE | status\_at\_discharge |  |  |
| presence\_of\_column | VISIT\_OCCURRENCE | status\_at\_discharge\_vocabulary |  |  |
| presence\_of\_table | EVENTS |  |  |  |
| presence\_of\_column | EVENTS | end\_date\_record |  |  |
| presence\_of\_column | EVENTS | event\_code |  |  |
| presence\_of\_column | EVENTS | text\_linked\_to\_event\_code |  |  |
| presence\_of\_column | EVENTS | event\_free\_text |  |  |
| presence\_of\_column | EVENTS | present\_on\_admission |  |  |
| presence\_of\_column | EVENTS | laterality\_of\_event |  |  |
| presence\_of\_column | EVENTS | visit\_occurrence\_id |  |  |
| presence\_of\_table | MEDICINES |  |  |  |
| presence\_of\_column | MEDICINES | medicinal\_product\_id |  |  |
| presence\_of\_column | MEDICINES | date\_dispensing |  |  |
| presence\_of\_column | MEDICINES | date\_prescription |  |  |
| presence\_of\_column | MEDICINES | disp\_number\_medicinal\_product |  |  |
| presence\_of\_column | MEDICINES | presc\_quantity\_per\_day |  |  |
| presence\_of\_column | MEDICINES | presc\_quantity\_unit |  |  |
| presence\_of\_column | MEDICINES | presc\_duration\_days |  |  |
| presence\_of\_column | MEDICINES | product\_lot\_number |  |  |
| presence\_of\_column | MEDICINES | indication\_code |  |  |
| presence\_of\_column | MEDICINES | indication\_code\_vocabulary |  |  |
| presence\_of\_column | MEDICINES | prescriber\_speciality |  |  |
| presence\_of\_column | MEDICINES | prescriber\_speciality\_vocabulary |  |  |
| presence\_of\_column | MEDICINES | visit\_occurrence\_id |  |  |
| presence\_of\_column | MEDICINES | product\_lot\_number |  |  |
| presence\_of\_table | PROCEDURES |  |  |  |
| presence\_of\_column | PROCEDURES | visit\_occurrence\_id |  |  |
| presence\_of\_table | VACCINES |  |  |  |
| presence\_of\_column | VACCINES | vx\_record\_date |  |  |
| presence\_of\_column | VACCINES | vx\_admin\_date |  |  |
| presence\_of\_column | VACCINES | vx\_atc |  |  |
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| presence\_of\_column | VACCINES | vx\_manufacturer |  |  |
| presence\_of\_column | VACCINES | vx\_lot\_num |  |  |
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| presence\_of\_table | PERSON\_RELATIONSHIPS |  |  |  |
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| list\_of\_values | PERSON\_RELATIONSHIPS | meaning\_of\_relationship |  |  |
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| subpopulations |  |  |  |  |
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| op\_meaning\_sets |  |  | PC\_HOSP |  |
| op\_meanings\_list\_per\_set |  |  | meaningsPC |  |
| op\_meanings\_list\_per\_set |  |  | meaningsPHARMA |  |
| op\_meanings\_list\_per\_set |  |  | meaningsHOSP |  |
| exclude\_meaning | EVENTS |  | PC |  |
| exclude\_meaning | PROCEDURES |  | PC |  |
| exclude\_meaning | EVENTS |  | PC\_HOSP |  |

INSTANCE

Fill the table below

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| source\_table\_name | source\_column\_name | included\_in\_instance | date\_when\_data\_last\_updated | since\_when\_data\_complete | up\_to\_when\_data\_complete | restriction\_in\_values | list\_of\_values | restriction\_condition |
|  |  |  | 20240411 | 20190101 | 20240101 |  |  |  |

This is a table is dynamically created in the DRE based on the imported data. It is possible to export the actual table, but that is probably better if we are actuallt sure this is the final data.

5. References

Thurin NH, Pajouheshnia R, Roberto G, Dodd C, Hyeraci G, Bartolini C, et al. From Inception to ConcePTION: Genesis of a Network to Support Better Monitoring and Communication of Medication Safety During Pregnancy and Breastfeeding. Clinical Pharmacology & Therapeutics 2021. Available from: https://onlinelibrary.wiley.com/doi/abs/10.1002/cpt.2476