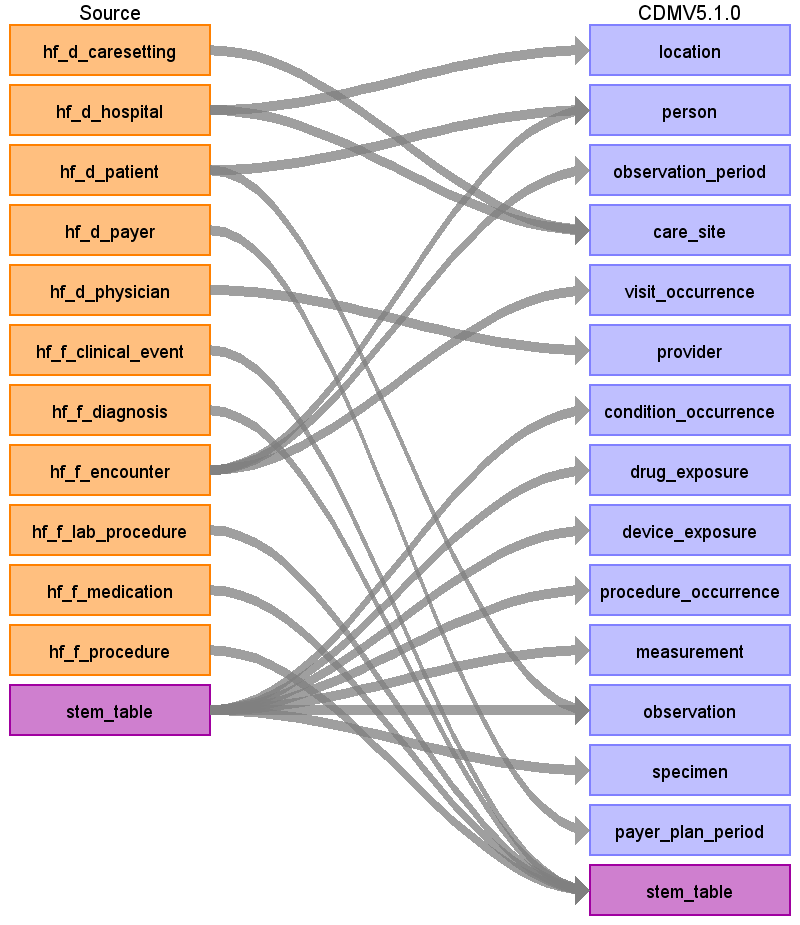
Source Data Mapping Approach to CDMV5.1.0



# Table name: location

Reading from hf\_d\_hospital



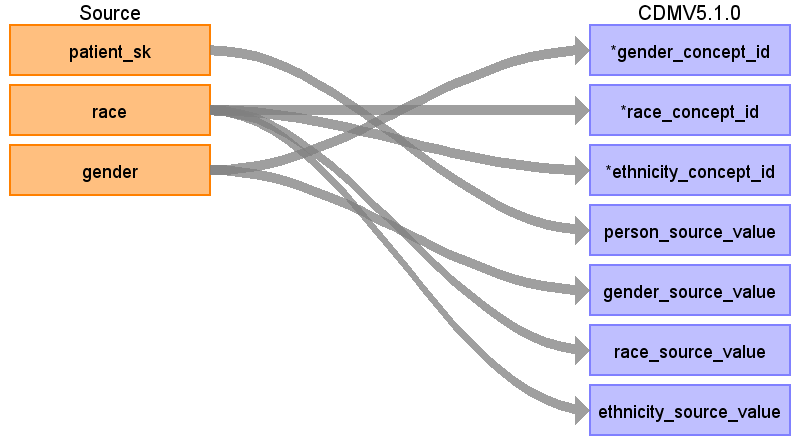
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| location\_id | census\_division |  | Autogenerate |
| address\_1 |  |  |  |
| address\_2 |  |  |  |
| city |  |  |  |
| state |  |  |  |
| zip |  |  |  |
| county |  |  |  |
| location\_source\_value | census\_division | Map the census\_division values as follows:  1= (CT, ME, MA, NH, RI, VT),  2= (NJ, NY, PA),  3= (IA, KS, MN, MO, ND, SD),  4= (IL, IN, MI, OH, WI),  5= (AL, KY, MS, TN),  6= (DE, DC, FL, GA, MD, NC, SC, VA, WV),  7= (AR, LA, OK, TX),  8= (AZ, CO, ID, MT, NV, NM, UT, WY),  9= (AK, CA, HI, OR, WA) |  |

# Table name: person

## Reading from hf\_d\_patient

We will use the hf\_f\_encounter table to identify the most recent patient record. Otherwise we will have multiple patient\_ids per unique person.

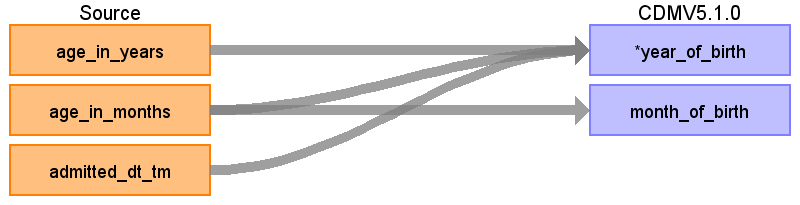
* Delete individuals whose DOBYR < 1900 or > the current year.
* Delete individuals who do not have a valid gender



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  | Auto generate this number. |
| gender\_concept\_id | gender | Male=8507; Female=8532 |  |
| year\_of\_birth |  |  | Admitted date |
| month\_of\_birth |  |  |  |
| day\_of\_birth |  |  |  |
| birth\_datetime |  |  |  |
| race\_concept\_id | race | Caucasian=8527  African American=8516  Hispanic=0  Asian=8515  Native American=8657  Biracial=0  Pacific Islander=38003613  Asian/Pacific Islander=38003613  Mid Eastern Indian=38003615  Take the most recent racial record, if the most recent is something other than what is listed above map to 0. |  |
| ethnicity\_concept\_id | race | Caucasian=38003564  African American=38003564  Hispanic=38003563  Asian=38003564  Native American=38003564  Biracial=38003564  Pacific Islander=38003564  Asian/Pacific Islander=38003564  Mid Eastern Indian=38003564  Take the most recent racial record, if the most recent is something other than what is listed above map to 0. |  |
| location\_id |  |  |  |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| person\_source\_value | patient\_sk |  |  |
| gender\_source\_value | gender | If the most recent record has an unknown gender other than female or male - then exclude. If a person's gender changes (male to female or female to male) at any point in their record then exclude. Otherwise use the most recent gender recorded. |  |
| gender\_source\_concept\_id |  |  |  |
| race\_source\_value | race |  |  |
| race\_source\_concept\_id |  |  |  |
| ethnicity\_source\_value | race |  |  |
| ethnicity\_source\_concept\_id |  |  |  |

## Reading from hf\_f\_encounter

Use the max(discharged\_dt\_tm) to identify the most recent date to identify the most recent patient\_id. Use this patient\_id in the hf\_d\_patient table to find the most recent demographics. This patient\_id can also be used to find the patient\_sk, which is the unique patient identifier.



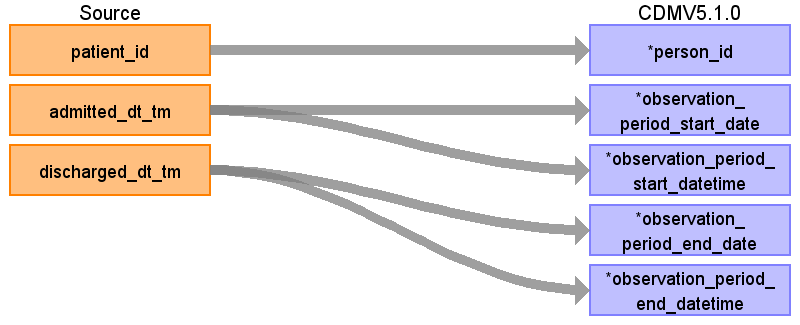
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  | Auto generate this number. |
| gender\_concept\_id |  |  |  |
| year\_of\_birth | age\_in\_years  age\_in\_months  admitted\_dt\_tm | If age\_in\_years <2 then check to see if age\_in\_months is populated. If so, use admission\_dt\_tm - age\_in\_months to find the year\_of\_birth and month\_of\_birth  Using admitted\_dt\_tm, subtract age\_in\_years from year of most recent encounter | Admitted date |
| month\_of\_birth | age\_in\_months |  |  |
| day\_of\_birth |  |  |  |
| birth\_datetime |  |  |  |
| race\_concept\_id |  |  |  |
| ethnicity\_concept\_id |  |  |  |
| location\_id |  |  |  |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| person\_source\_value |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |
| race\_source\_value |  |  |  |
| race\_source\_concept\_id |  |  |  |
| ethnicity\_source\_value |  |  |  |
| ethnicity\_source\_concept\_id |  |  |  |

# Table name: observation\_period

String together any encounters that have 0 days between them into 1 observation period.

If a person has an OBSERVATION\_PERIOD where OBSERVATION\_PERIOD\_END\_DATE < OBSERVATION\_PERIOD\_START\_DATE then set OBSERVATION\_PERIOD\_END\_DATE = OBSERVATION\_PERIOD\_START\_DATE.

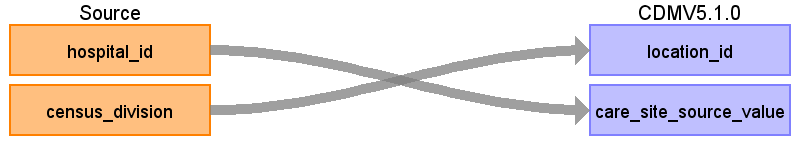
## Reading from hf\_f\_encounter



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_period\_id |  |  |  |
| person\_id | patient\_id | Map patient\_id to hf\_d\_patient to find patient\_sk and map patient\_sk to person\_source\_value to find person\_id. |  |
| observation\_period\_start\_date | admitted\_dt\_tm | Take the date from admitted\_dt\_tm. |  |
| observation\_period\_start\_datetime | admitted\_dt\_tm |  |  |
| observation\_period\_end\_date | discharged\_dt\_tm | Take the date from discharged\_dt\_tm. |  |
| observation\_period\_end\_datetime | discharged\_dt\_tm |  |  |
| period\_type\_concept\_id |  |  |  |

# Table name: care\_site

## Reading from hf\_d\_hospital



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| care\_site\_id |  |  | For every hospital\_id/caresetting\_id pair create a new care\_site\_id. These pairs will be found in hf\_f\_encounter using the following query:  select distinct hospital\_id, discharge\_caresetting\_id, caresetting\_desc  from hf\_f\_encounter e  left join hf\_d\_caresetting c  on e.discharge\_caresetting\_id = c.caresetting\_id |
| care\_site\_name |  |  |  |
| place\_of\_service\_concept\_id |  |  |  |
| location\_id | census\_division |  | Map census division to the correction location\_id |
| care\_site\_source\_value | hospital\_id |  |  |
| place\_of\_service\_source\_value |  |  |  |

## Reading from hf\_d\_caresetting



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| care\_site\_id |  |  | For every hospital\_id/ caresetting\_id pair create a new care\_site\_id. These pairs will be found in hf\_f\_encounter using the following query:  select distinct hospital\_id, discharge\_caresetting\_id, caresetting\_desc  from hf\_f\_encounter e  left join hf\_d\_caresetting c  on e.discharge\_caresetting\_id = c.caresetting\_id |
| care\_site\_name |  |  |  |
| place\_of\_service\_concept\_id | caresetting\_id |  | Map caresetting\_id to a concept\_id using the SOURCE -> STANDARD query with the filter:  WHERE source\_vocabulary\_id = ‘JNJ\_CERNER\_CRSTNG’ |
| location\_id |  |  | Map census division to the correction location\_id |
| care\_site\_source\_value |  |  |  |
| place\_of\_service\_source\_value | caresetting\_desc |  |  |

# Table name: visit\_occurrence

## Reading from hf\_f\_encounter

After assigning a visit\_concept\_id to each record in hf\_f\_encounter, apply the following logic:

For visit\_concept\_id = 9201 (IP):

Sort data in ascending order by person\_id, admitted\_dt\_tm, discharge\_dt\_tm and admitting\_physician\_id. Then by person\_id, collapse records as long as the time between the discharge\_dt\_tm of one line and the admitted\_dt\_tm of the next <= 0 days.

Then set

min(admitted\_dt\_tm) as visit\_start\_date

max(discharge\_dt\_tm) as visit\_end\_date

As you are collapsing records take the admitting\_physician\_id from the first record and assign it to provider\_id for the whole visit. Also take the patient\_type\_id from the first record to find visit\_source\_value.

See if any OP (9202) or ER (9203) records occur during an IP visit. These should be consolidated into that IP visit, unless it is an ER visit that starts and ends on the first day of the IP visit.

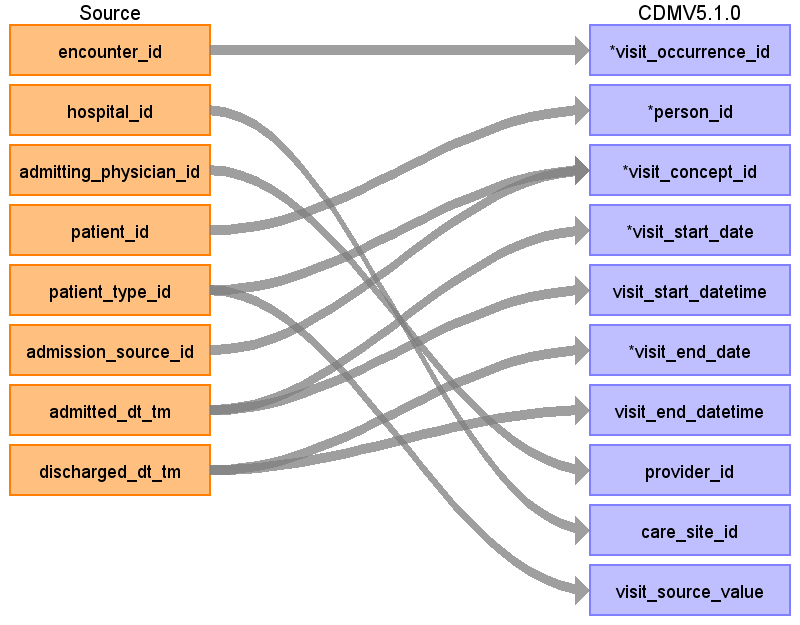
For visit\_concept\_id = 9203 (ER):

Sort data in ascending order by person\_id, admitted\_dt\_tm, discharge\_dt\_tm and admitting\_physician\_id. Then by person\_id, collapse all ER records that start on the same day as one ER visit, then take admitted\_dt\_tm as visit\_start\_date and max(discharge\_dt\_tm) as visit\_end\_date. As you are collapsing records take the admitting\_physician\_id from the first record and assign it to provider\_id for the whole visit.

For visit\_concept\_id = 9202 (OP):

Sort data in ascending order by person\_id, admitted\_dt\_tm, discharge\_dt\_tm and admitting\_physician\_id. Then by person\_id, collapse all OP records that start on the same day as one OP visit and that have the same admitting\_physician\_id. Then take admitted\_dt\_tm as visit\_start\_date and max(discharge\_dt\_tm) as visit\_end\_date. As you are collapsing records take the admitting\_physician\_id from the first record and assign it to provider\_id for the whole visit.

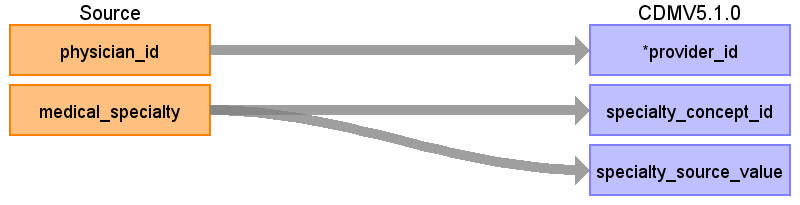
If a person has a visit where VISIT\_END\_DATE < VISIT\_START\_DATE then set VISIT\_END\_DATE = VISIT\_START\_DATE.



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_occurrence\_id | encounter\_id |  |  |
| person\_id | patient\_id | Map patient\_id to find patient\_sk in the hf\_d\_patient table then use patient\_sk to find person\_id by mapping patient\_sk to person\_source\_value |  |
| visit\_concept\_id | patient\_type\_id  admission\_source\_id | Map the visit\_concept\_id as follows:  patient\_type\_id visit\_concept\_id  98 9202 OP  84 9203 ER  87 9201 IP  145,108,86,90 42898160 LTC  All others should be mapped to 9202 |  |
| visit\_start\_date | admitted\_dt\_tm |  |  |
| visit\_start\_datetime | admitted\_dt\_tm |  |  |
| visit\_end\_date | discharged\_dt\_tm |  |  |
| visit\_end\_datetime | discharged\_dt\_tm |  |  |
| visit\_type\_concept\_id |  |  | All records should have the value 44818518, 'Visit derived from EHR record' |
| provider\_id | admitting\_physician\_id | map admitting\_physician\_id to provider\_id in the provider table using admitting\_physician\_id = provider\_source\_value |  |
| care\_site\_id | hospital\_id + discharge\_caresetting\_id | map hospital\_id + discharge\_caresetting\_id to care\_site\_id. Use hospital\_id = care\_site\_source\_value and use the hf\_d\_caresetting to look up caresetting\_desc. Then use caresetting\_desc = place\_of\_service\_source\_value |  |
| visit\_source\_value | patient\_type\_id | Map patient\_type\_id to patient\_type\_desc in the hf\_d\_patient\_type table and store patient\_type\_desc in the visit\_source\_value field |  |
| visit\_source\_concept\_id |  |  |  |

# Table name: provider

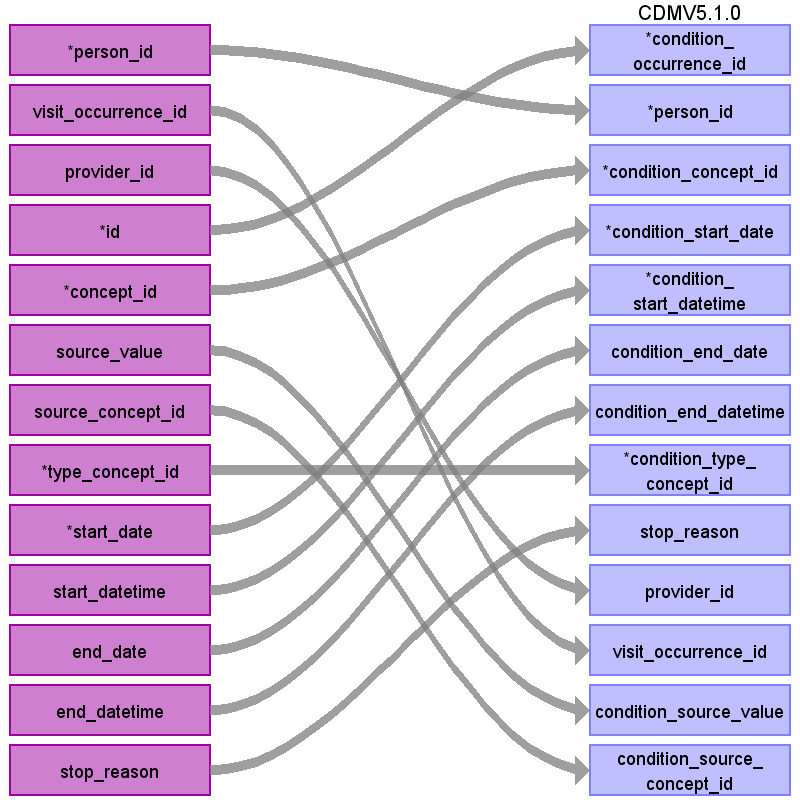
## Reading from hf\_d\_physician



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id | physician\_id | For duplicate physician\_id take the specialty that is not NULL  NULLs include:  Count Medical\_Specialty  ---------------------------------------------  9769557 NULL  1784498  344160 Not Mapped  297872 Not a Medical Speciality  63755 Undefined / Unknown  974 No Value / Undefined  4 Not a Medical Specialty, Not Active  1 Not a Medical Specialty, Obsolete | There should only be 18 physician\_ids with duplicates. |
| provider\_name |  |  |  |
| npi |  |  |  |
| dea |  |  |  |
| specialty\_concept\_id | medical\_specialty | Use the source\_to\_concept\_map to map medical\_specialty using the filter:  Where source\_vocabulary\_id = ‘JNJ\_CERNER\_PROV\_SPEC’ |  |
| care\_site\_id |  |  |  |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value |  |  |  |
| specialty\_source\_value | medical\_specialty |  |  |
| specialty\_source\_concept\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

# Table name: condition\_occurrence

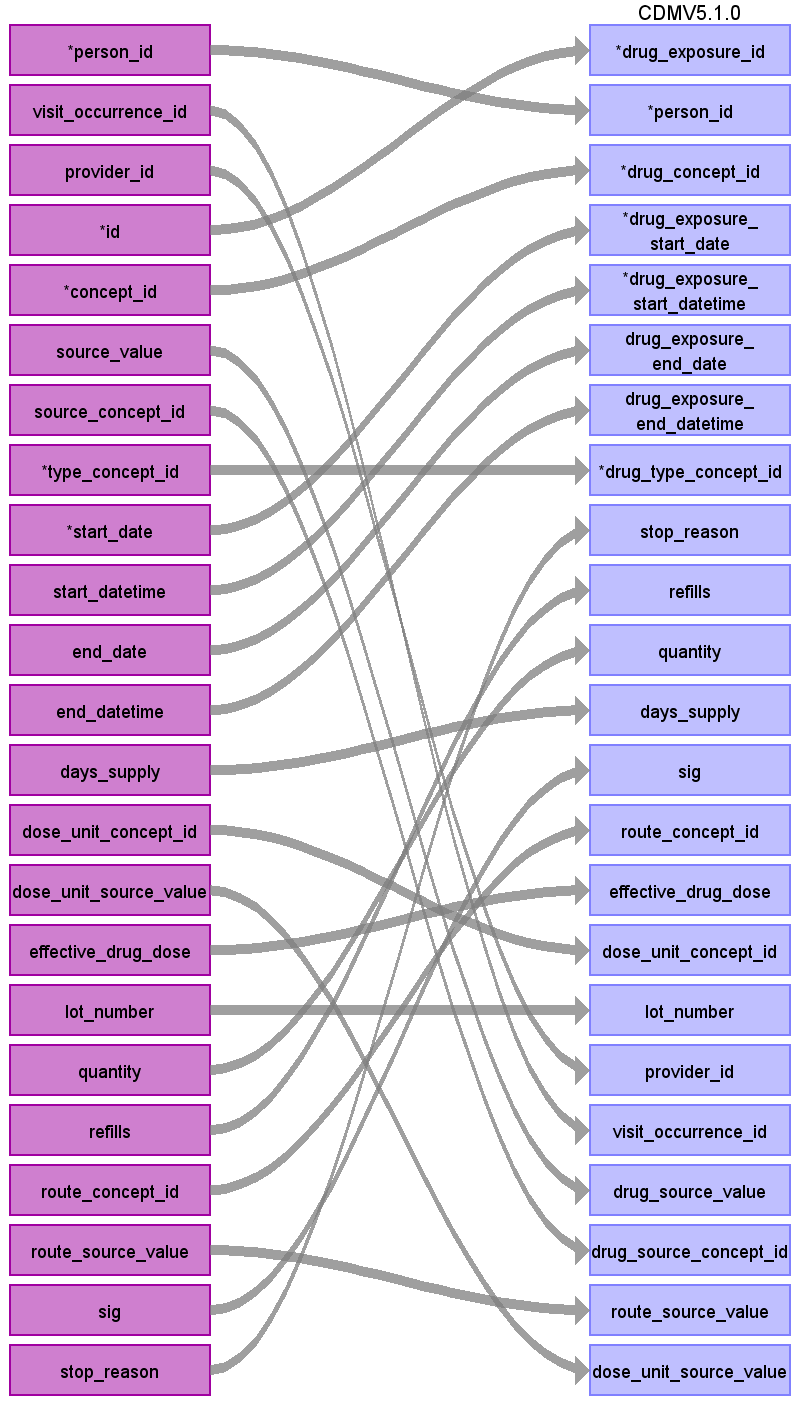
## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id | id |  |  |
| person\_id | person\_id |  |  |
| condition\_concept\_id | concept\_id |  |  |
| condition\_start\_date | start\_date |  |  |
| condition\_start\_datetime | start\_datetime |  |  |
| condition\_end\_date | end\_date |  |  |
| condition\_end\_datetime | end\_datetime |  |  |
| condition\_type\_concept\_id | type\_concept\_id |  |  |
| stop\_reason | stop\_reason |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| condition\_source\_value | source\_value |  |  |
| condition\_source\_concept\_id | source\_concept\_id |  |  |

# Table name: drug\_exposure

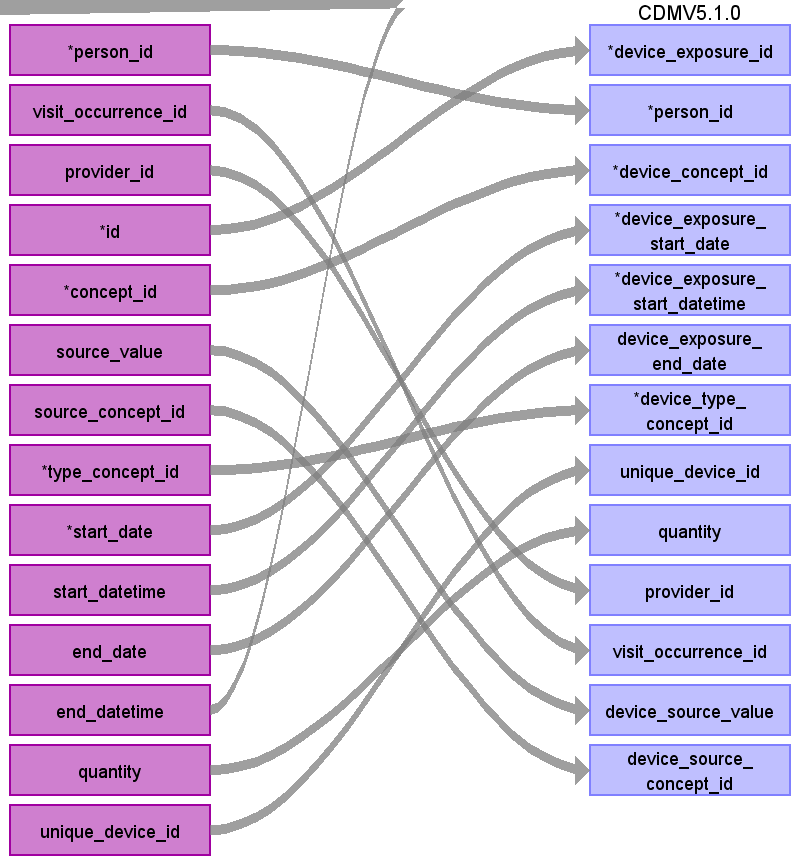
## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| drug\_exposure\_id | id |  |  |
| person\_id | person\_id |  |  |
| drug\_concept\_id | concept\_id |  |  |
| drug\_exposure\_start\_date | start\_date |  |  |
| drug\_exposure\_start\_datetime | start\_datetime |  |  |
| drug\_exposure\_end\_date | end\_date |  |  |
| drug\_exposure\_end\_datetime | end\_datetime |  |  |
| drug\_type\_concept\_id | type\_concept\_id |  |  |
| stop\_reason | stop\_reason |  |  |
| refills | refills |  |  |
| quantity | quantity |  |  |
| days\_supply | days\_supply |  |  |
| sig | sig |  |  |
| route\_concept\_id | route\_concept\_id |  |  |
| effective\_drug\_dose | effective\_drug\_dose |  |  |
| dose\_unit\_concept\_id | dose\_unit\_concept\_id |  |  |
| lot\_number | lot\_number |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| drug\_source\_value | source\_value |  |  |
| drug\_source\_concept\_id | source\_concept\_id |  |  |
| route\_source\_value | route\_source\_value |  |  |
| dose\_unit\_source\_value | dose\_unit\_source\_value |  |  |

# Table name: device\_exposure

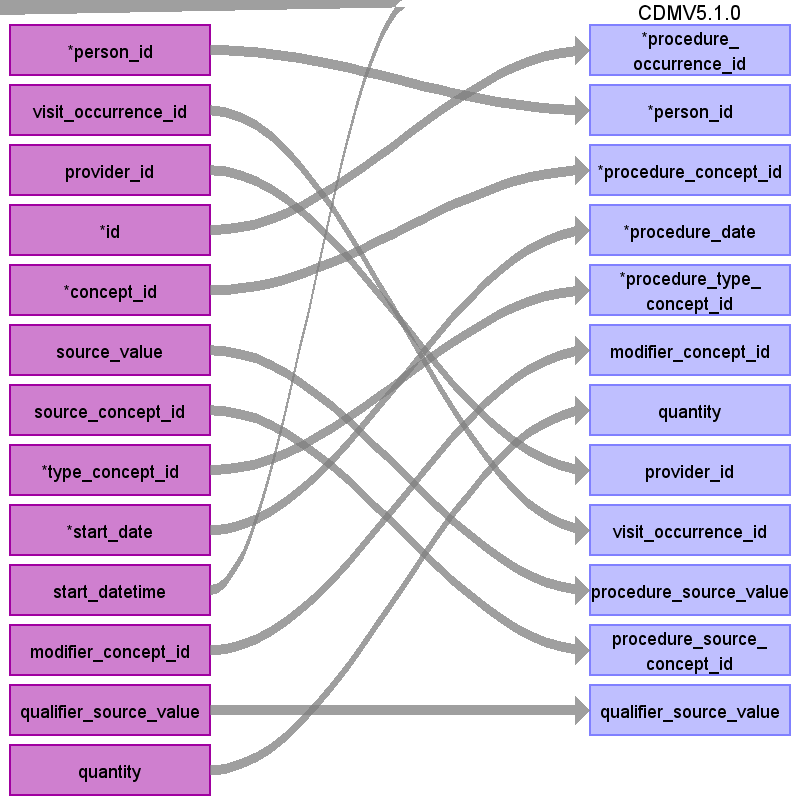
## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| device\_exposure\_id | id |  |  |
| person\_id | person\_id |  |  |
| device\_concept\_id | concept\_id |  |  |
| device\_exposure\_start\_date | start\_date |  |  |
| device\_exposure\_start\_datetime | start\_datetime |  |  |
| device\_exposure\_end\_date | end\_date |  |  |
| device\_exposure\_end\_date |  |  |  |
| device\_type\_concept\_id | type\_concept\_id |  |  |
| unique\_device\_id | unique\_device\_id |  |  |
| quantity | quantity |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| device\_source\_value | source\_value |  |  |
| device\_source\_concept\_id | source\_concept\_id |  |  |

# Table name: procedure\_occurrence

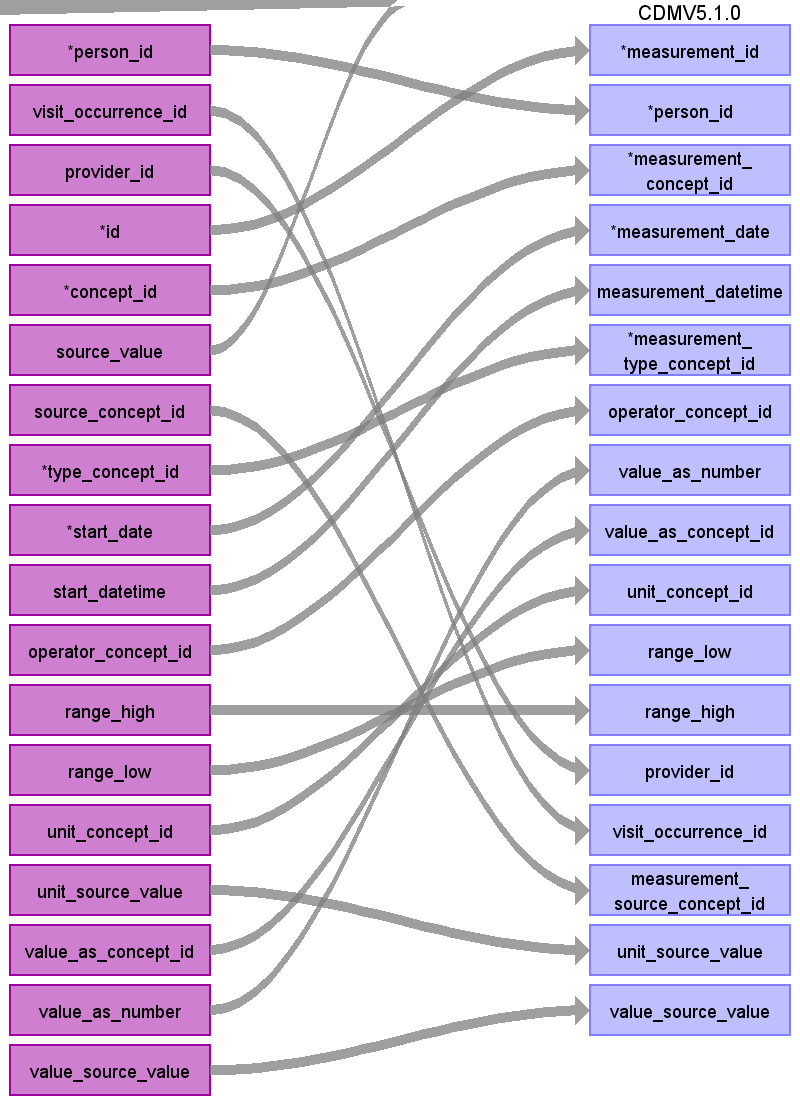
## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_occurrence\_id | id |  |  |
| person\_id | person\_id |  |  |
| procedure\_concept\_id | concept\_id |  |  |
| procedure\_date | start\_date |  |  |
| procedure\_type\_concept\_id | type\_concept\_id |  |  |
| modifier\_concept\_id | modifier\_concept\_id |  |  |
| quantity | quantity |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| procedure\_source\_value | source\_value |  |  |
| procedure\_source\_concept\_id | source\_concept\_id |  |  |
| qualifier\_source\_value | qualifier\_source\_value |  |  |

# Table name: measurement

## Reading from stem\_table

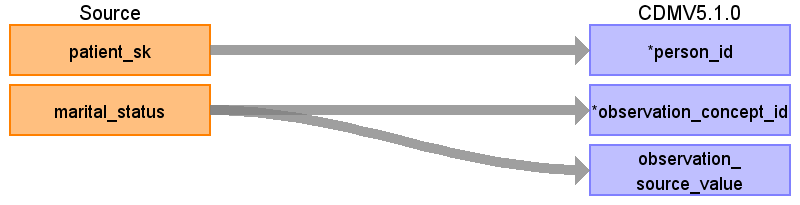


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| measurement\_id | id |  |  |
| person\_id | person\_id |  |  |
| measurement\_concept\_id | concept\_id |  |  |
| measurement\_date | start\_date |  |  |
| measurement\_datetime | start\_datetime |  |  |
| measurement\_type\_concept\_id | type\_concept\_id |  |  |
| operator\_concept\_id | operator\_concept\_id |  |  |
| value\_as\_number | value\_as\_number |  |  |
| value\_as\_concept\_id | value\_as\_concept\_id |  |  |
| unit\_concept\_id | unit\_concept\_id |  |  |
| range\_low | range\_low |  |  |
| range\_high | range\_high |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| measurement\_source\_value |  |  |  |
| measurement\_source\_concept\_id | source\_concept\_id |  |  |
| unit\_source\_value | unit\_source\_value |  |  |
| value\_source\_value | value\_source\_value |  |  |

# Table name: observation

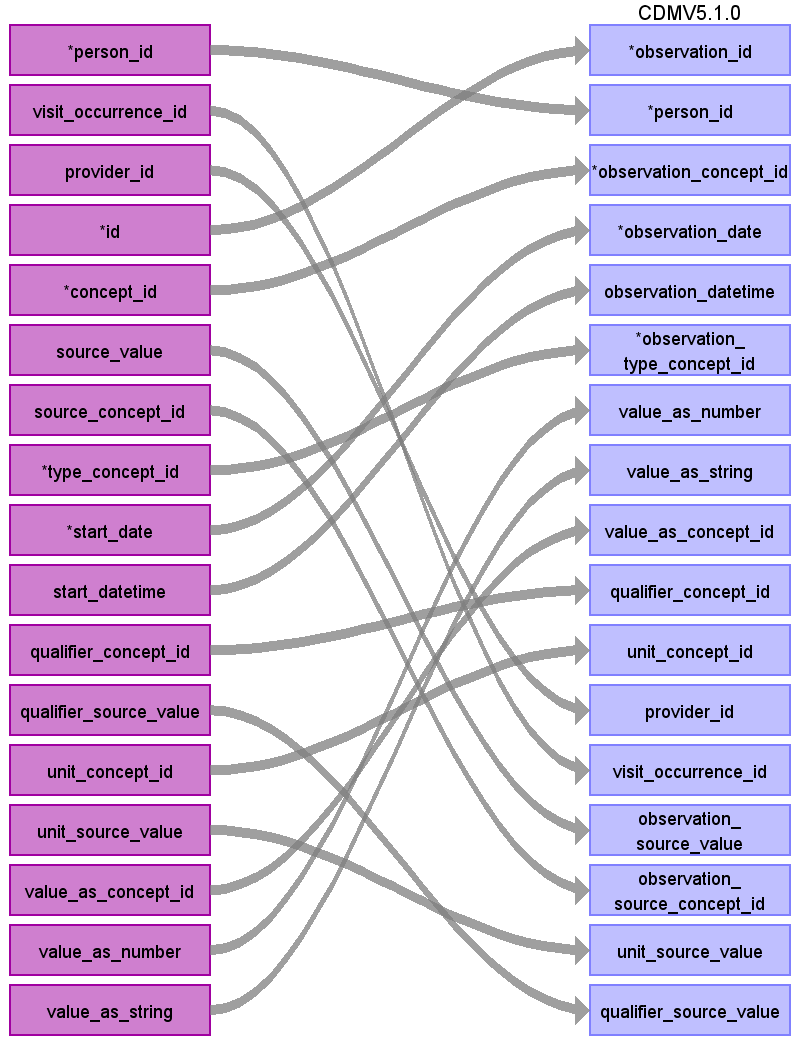
Think about capturing all marital statuses, not just most recent

## Reading from hf\_d\_patient



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  |  |
| person\_id | patient\_sk | Look up in person table using patient\_sk. |  |
| observation\_concept\_id | marital\_status |  |  |
| observation\_date |  |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  | 38000280 ‘Observation recorded from EHR’ |  |
| value\_as\_number |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| observation\_source\_value | marital\_status | Married=4338692  Single=4053842  Divorced=4069297  Widowed=4143188  Legally Separated=4027529  Life Partner=4212893  Using the hf\_f\_encounter table, find the most recent encounter. Use the patient\_id of the most recent encounter to map marital status. Use most recent, all else should be mapped to 0. |  |
| observation\_source\_concept\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |

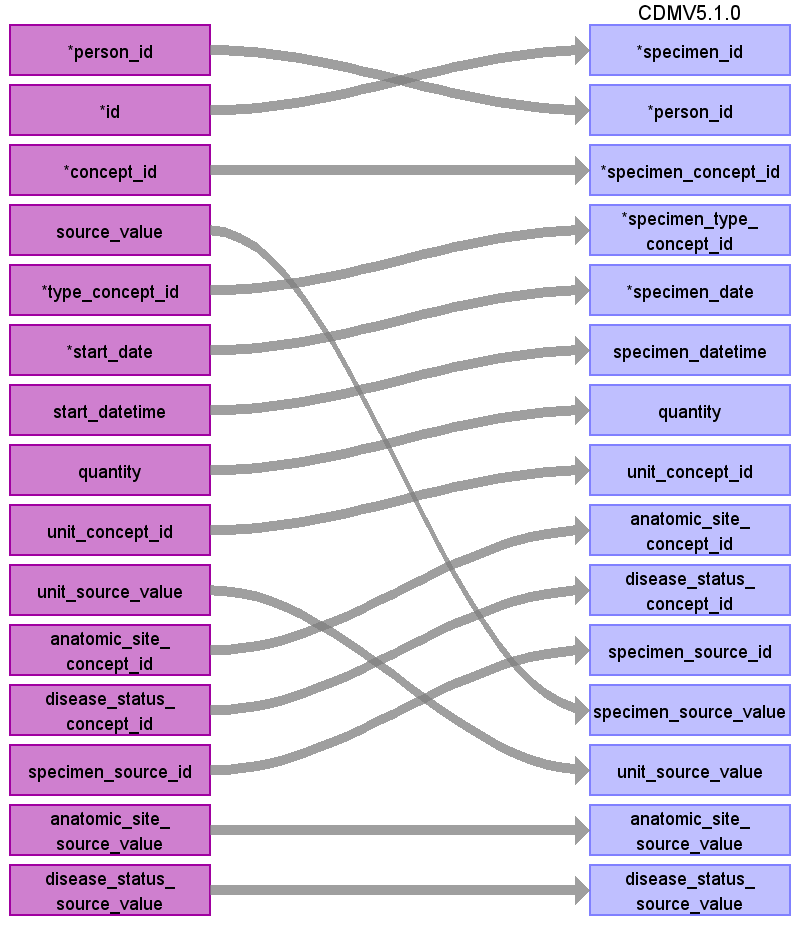
## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id | id |  |  |
| person\_id | person\_id |  |  |
| observation\_concept\_id | concept\_id |  |  |
| observation\_date | start\_date |  |  |
| observation\_datetime | start\_datetime |  |  |
| observation\_type\_concept\_id | type\_concept\_id |  |  |
| value\_as\_number | value\_as\_number |  |  |
| value\_as\_string | value\_as\_string |  |  |
| value\_as\_concept\_id | value\_as\_concept\_id |  |  |
| qualifier\_concept\_id | qualifier\_concept\_id |  |  |
| unit\_concept\_id | unit\_concept\_id |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| observation\_source\_value | source\_value |  |  |
| observation\_source\_concept\_id | source\_concept\_id |  |  |
| unit\_source\_value | unit\_source\_value |  |  |
| qualifier\_source\_value | qualifier\_source\_value |  |  |

# Table name: specimen

## Reading from stem\_table



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| specimen\_id | id |  |  |
| person\_id | person\_id |  |  |
| specimen\_concept\_id | concept\_id |  |  |
| specimen\_type\_concept\_id | type\_concept\_id |  |  |
| specimen\_date | start\_date |  |  |
| specimen\_datetime | start\_datetime |  |  |
| quantity | quantity |  |  |
| unit\_concept\_id | unit\_concept\_id |  |  |
| anatomic\_site\_concept\_id | anatomic\_site\_concept\_id |  |  |
| disease\_status\_concept\_id | disease\_status\_concept\_id |  |  |
| specimen\_source\_id | specimen\_source\_id |  |  |
| specimen\_source\_value | source\_value |  |  |
| unit\_source\_value | unit\_source\_value |  |  |
| anatomic\_site\_source\_value | anatomic\_site\_source\_value |  |  |
| disease\_status\_source\_value | disease\_status\_source\_value |  |  |

# Table name: payer\_plan\_period

## Reading from hf\_d\_payer

Lookup patient\_id and payer\_id in encounter table, and then string encounters together with the same patient\_id and payer\_id and for consecutive encounters with the same payer\_id take min(admit\_date) for payer\_plan\_period\_start\_date and max(discharge\_date) for payer\_plan\_period\_end\_date.



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| payer\_plan\_period\_id | payer\_id | If payer\_id in (20,22,23) then disregard as these are unknown/NULL values |  |
| person\_id |  |  |  |
| payer\_plan\_period\_start\_date |  |  |  |
| payer\_plan\_period\_end\_date |  |  |  |
| payer\_source\_value | payer\_code\_desc |  |  |
| plan\_source\_value |  |  |  |
| family\_source\_value |  |  |  |

Table name: drug\_era

Table name: dose\_era

Table name: condition\_era

Table name: cdm\_source

Table name: cohort

Table name: cohort\_definition

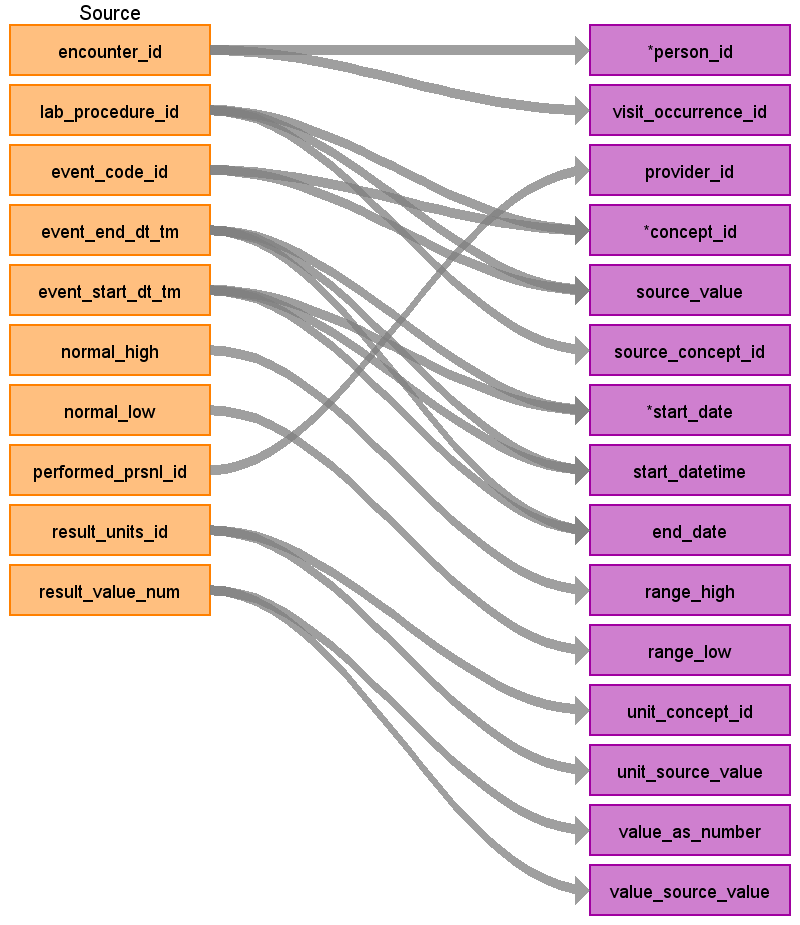
Table name: cohort\_attribute

Table name: attribute\_definition

Table name: cost

# Table name: stem\_table

## Reading from hf\_f\_clinical\_event

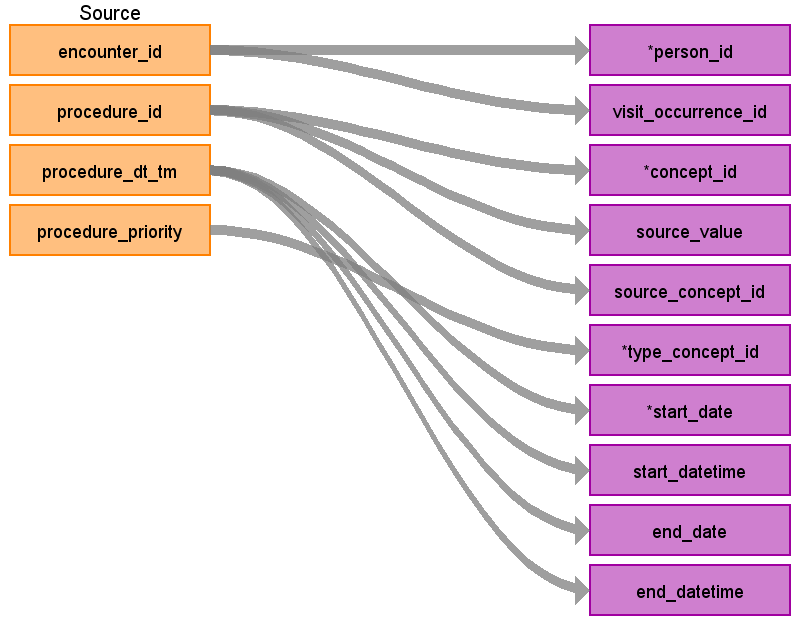


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | encounter\_id | Use encounter\_id to find the patient\_id in the hf\_f\_encounter table, then use the patient\_id to find the patient\_sk in the hf\_d\_patient table and use the patient\_sk as the person\_source\_value to find the person\_id |  |
| visit\_occurrence\_id | encounter\_id | Use encounter\_id to find the visit\_occurrence\_id |  |
| provider\_id | performed\_prsnl\_id | map performed\_prsnl\_id to provider\_source\_value to find provider\_id. If there is no map then set to NULL. |  |
| id |  |  | autogenerated |
| concept\_id | lab\_procedure\_id  event\_code\_id | First, map lab\_procedure\_id to loinc\_code using the hf\_d\_lab\_procedure table. If there is a loinc\_code available, map that code to a standard concept using the source->standard vocabulary query and store that standard concept in the concept\_id value. If there is no loinc code, use the event\_code\_id to map a standard concept using the source->standard vocabulary query with the filter:  Where source\_vocabulary\_id = ‘JNJ\_CERNER\_EVENT\_COD’ |  |
| source\_value | lab\_procedure\_id  event\_code\_id | If the lab\_procedure\_id was used to find a loinc code to map concept\_id, map lab\_procedure\_id to the lab\_procedure\_name in the hf\_d\_lab\_procedure table and store that in the source\_value field.  If the event\_code\_id was used to map concept\_id, map event\_code\_id to event\_code\_desc in the table hf\_d\_event\_code and store event\_code\_desc in the source\_value field |  |
| source\_concept\_id | lab\_procedure\_id | If a loinc code was used to map to a standard concept as the concept\_id, store the source\_concept\_id of the loinc code here. Otherwise, if the event\_code\_id was used to map the concept\_id store a 0 in this field. |  |
| type\_concept\_id |  | Give all records the concept\_id 45754805 (EHR Episode Entry) |  |
| start\_date | event\_end\_dt\_tm  event\_start\_dt\_tm | If event\_start\_dt\_tm is not available, store event\_end\_dt\_tm as start\_date. Otherwise store event\_start\_dt\_tm as start\_date |  |
| start\_datetime | event\_end\_dt\_tm  event\_start\_dt\_tm | If event\_end\_dt\_tm is not available, store event\_start\_dt\_tm as end\_date. Otherwise store event\_end\_dt\_tm as end\_date. |  |
| end\_date | event\_end\_dt\_tm  event\_start\_dt\_tm | If event\_start\_dt\_tm is not available, store event\_end\_dt\_tm as start\_date. Otherwise store event\_start\_dt\_tm as start\_date |  |
| end\_datetime |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_concept\_id |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| effective\_drug\_dose |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| quantity |  |  |  |
| range\_high | normal\_high |  |  |
| range\_low | normal\_low |  |  |
| refills |  |  |  |
| route\_concept\_id |  |  |  |
| route\_source\_value |  |  |  |
| sig |  |  |  |
| stop\_reason |  |  |  |
| unique\_device\_id |  |  |  |
| unit\_concept\_id | result\_units\_id | map result\_units\_id to a concept\_id using the source -> standard query and the filter:  where source\_vocabulary\_id = ‘JNJ\_CERNER\_UNITS’ |  |
| unit\_source\_value | result\_units\_id | map result\_units\_id to unit\_id in hf\_d\_unit and store unit\_desc as unit\_source\_value |  |
| value\_as\_concept\_id |  |  |  |
| value\_as\_number | result\_value\_num |  |  |
| value\_as\_string |  |  |  |
| value\_source\_value | result\_value\_num |  |  |
| anatomic\_site\_concept\_id |  |  |  |
| disease\_status\_concept\_id |  |  |  |
| specimen\_source\_id |  |  |  |
| anatomic\_site\_source\_value |  |  |  |
| disease\_status\_source\_value |  |  |  |

## Reading from hf\_f\_procedure

Use the following table to assign type\_concept\_id:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Associated Visit** | **Procedure\_priority** | **Type\_concept\_id** | **CONCEPT\_NAME** |
| IP | 1 | 38000251 | Inpatient header - 1st position |
| 2 | 38000252 | Inpatient header - 2nd position |
| 3 | 38000253 | Inpatient header - 3rd position |
| 4 | 38000254 | Inpatient header - 4th position |
| 5 | 38000255 | Inpatient header - 5th position |
| 6 | 38000256 | Inpatient header - 6th position |
| 7 | 38000257 | Inpatient header - 7th position |
| 8 | 38000258 | Inpatient header - 8th position |
| 9 | 38000259 | Inpatient header - 9th position |
| 10 | 38000260 | Inpatient header - 10th position |
| 11 | 38000261 | Inpatient header - 11th position |
| 12 | 38000262 | Inpatient header - 12th position |
| 13 | 38000263 | Inpatient header - 13th position |
| 14 | 38000264 | Inpatient header - 14th position |
| 15 | 38000265 | Inpatient header - 15th position |
| >15 | 38000265 | Inpatient header - 15th position |
| ER or OP | 1 | 38000269 | Outpatient header - 1st position |
| 2 | 38000270 | Outpatient header - 2nd position |
| 3 | 38000271 | Outpatient header - 3rd position |
| 4 | 38000272 | Outpatient header - 4th position |
| 5 | 38000273 | Outpatient header - 5th position |
| 6 | 38000274 | Outpatient header - 6th position |
|  | >6 | 38000274 | Outpatient header - 6th position |

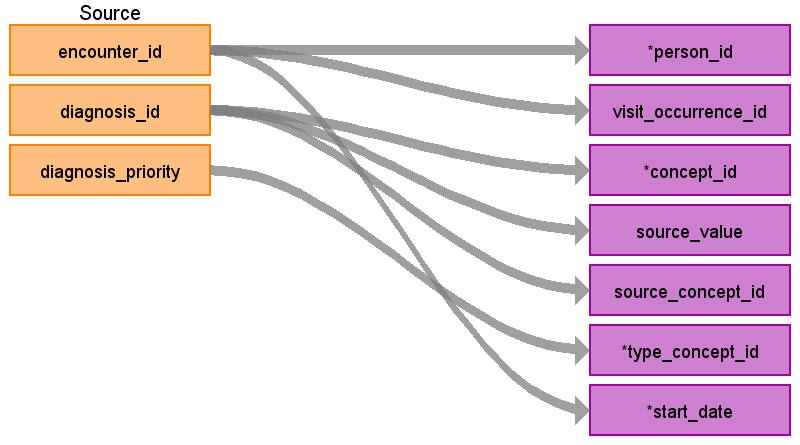


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | encounter\_id | Use encounter\_id to find the patient\_id in the hf\_f\_procedure table, then use the patient\_id to find the patient\_sk in the hf\_d\_patient table and use the patient\_sk as the person\_source\_value to find the person\_id |  |
| visit\_occurrence\_id | encounter\_id | Use encounter\_id to find the visit\_occurrence\_id |  |
| provider\_id |  |  |  |
| id |  |  | autogenerated |
| concept\_id | procedure\_id | Use the procedure\_id to map to procedure code in the hf\_d\_procedure table. Use the procedure\_code and procedure\_type from this table to map to a standard concept using this filter on the source->standard query :  WHERE SOURCE\_VOCABULARY\_ID IN ('ICD9Proc','HCPCS','CPT4',’ICD10PCS’)  AND TARGET\_STANDARD\_CONCEPT IS NOT NULL  AND TARGET\_INVALID\_REASON IS NULL  AND TARGET\_CONCEPT\_CLASS\_ID NOT IN ('HCPCS Modifier','CPT4 Modifier',’CPT4 Hierarchy’, ‘ICD10PCS Hierarchy’) |  |
| source\_value | procedure\_id | Map to procedure\_code in hf\_d\_procedure |  |
| source\_concept\_id | procedure\_id | Use the procedure\_id to map to procedure code in the hf\_d\_procedure table. Use the procedure\_code and procedure\_type from this table to find the source\_concept\_id using this filter on the source->source query :  WHERE SOURCE\_VOCABULARY\_ID IN ('ICD9Proc','HCPCS','CPT4',’ICD10PCS’)  AND TARGET\_VOCABULARY\_ID IN ('ICD9Proc','HCPCS','CPT4',’ICD10PCS’)  AND TARGET\_CONCEPT\_CLASS\_ID NOT IN ('HCPCS Modifier','CPT4 Modifier',’CPT4 Hierarchy’,’ICD10PCS Hierarchy’) |  |
| type\_concept\_id | procedure\_priority | Refer to table above to assign this column |  |
| start\_date | procedure\_dt\_tm | If the procedure\_dt\_tm is blank, use the encounter\_id to find the visit\_occurrence\_id and store visit\_start\_date here instead |  |
| start\_datetime | procedure\_dt\_tm | If the procedure\_dt\_tm is blank, use the encounter\_id to find the visit\_occurrence\_id and store visit\_start\_date here instead |  |
| end\_date |  |  |  |
| end\_datetime |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_concept\_id |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| effective\_drug\_dose |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| quantity |  |  |  |
| range\_high |  |  |  |
| range\_low |  |  |  |
| refills |  |  |  |
| route\_concept\_id |  |  |  |
| route\_source\_value |  |  |  |
| sig |  |  |  |
| stop\_reason |  |  |  |
| unique\_device\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| unit\_source\_value |  |  |  |
| value\_as\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_string |  |  |  |
| value\_source\_value |  |  |  |
| anatomic\_site\_concept\_id |  |  |  |
| disease\_status\_concept\_id |  |  |  |
| specimen\_source\_id |  |  |  |
| anatomic\_site\_source\_value |  |  |  |
| disease\_status\_source\_value |  |  |  |

## Reading from hf\_f\_diagnosis

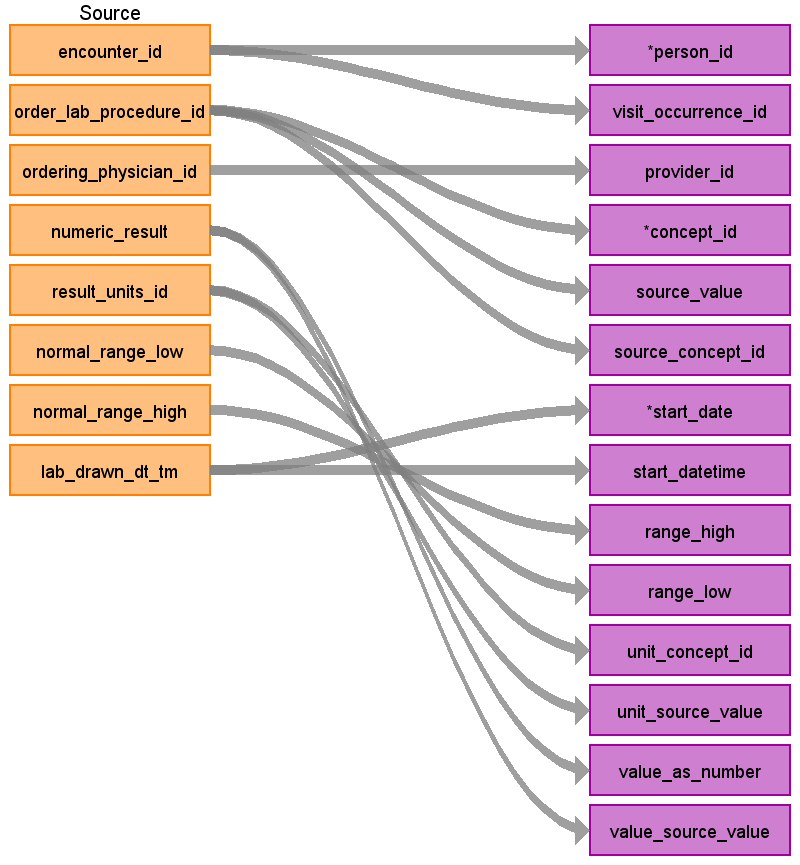
Use the following table to assign type\_concept\_id:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Associated Visit** | **Diagnosis\_priority** | **Type\_concept\_id** | **CONCEPT\_NAME** |
| IP | 1 | 38000200 | Inpatient header - 1st position |
| 2 | 38000201 | Inpatient header - 2nd position |
| 3 | 38000202 | Inpatient header - 3rd position |
| 4 | 38000203 | Inpatient header - 4th position |
| 5 | 38000204 | Inpatient header - 5th position |
| 6 | 38000205 | Inpatient header - 6th position |
| 7 | 38000206 | Inpatient header - 7th position |
| 8 | 38000207 | Inpatient header - 8th position |
| 9 | 38000208 | Inpatient header - 9th position |
| 10 | 38000209 | Inpatient header - 10th position |
| 11 | 38000210 | Inpatient header - 11th position |
| 12 | 38000211 | Inpatient header - 12th position |
| 13 | 38000212 | Inpatient header - 13th position |
| 14 | 38000213 | Inpatient header - 14th position |
| 15 | 38000214 | Inpatient header - 15th position |
| >15 | 38000214 | Inpatient header - 15th position |
| ER or OP | 1 | 38000230 | Outpatient header - 1st position |
| 2 | 38000231 | Outpatient header - 2nd position |
| 3 | 38000232 | Outpatient header - 3rd position |
| 4 | 38000233 | Outpatient header - 4th position |
| 5 | 38000234 | Outpatient header - 5th position |
| 6 | 38000235 | Outpatient header - 6th position |
| 7 | 38000236 | Outpatient header - 7th position |
| 8 | 38000237 | Outpatient header - 8th position |
| 9 | 38000238 | Outpatient header - 9th position |
| 10 | 38000239 | Outpatient header - 10th position |
| 11 | 38000240 | Outpatient header - 11th position |
| 12 | 38000241 | Outpatient header - 12th position |
| 13 | 38000242 | Outpatient header - 13th position |
| 14 | 38000243 | Outpatient header - 14th position |
| 15 | 38000244 | Outpatient header - 15th position |
|  | >15 | 38000244 | Outpatient header - 15th position |



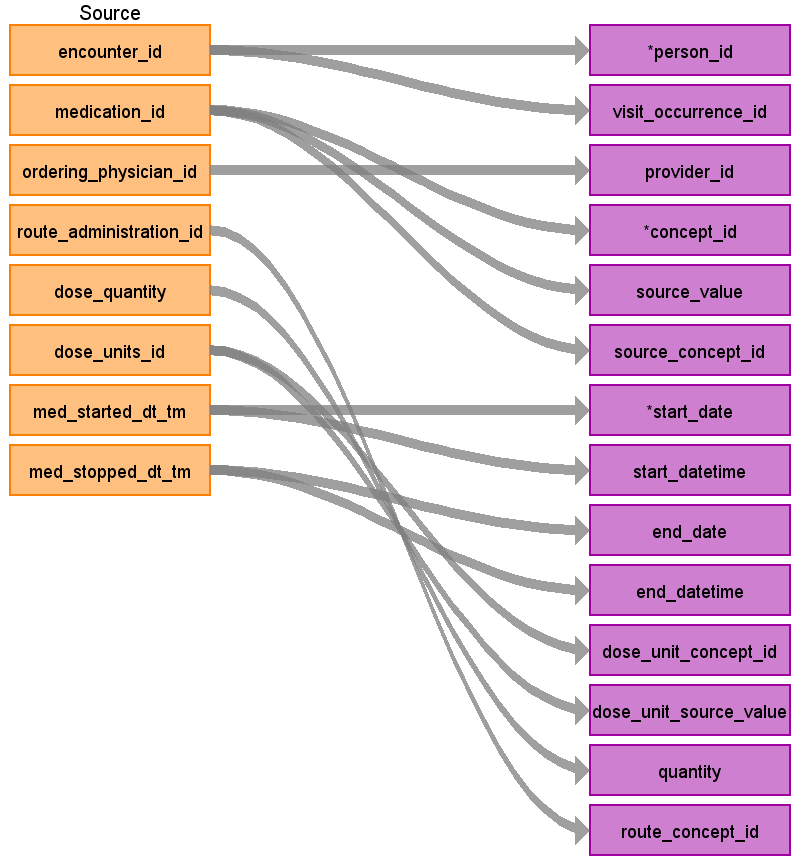
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | encounter\_id | Use encounter\_id to find the patient\_id in the hf\_f\_diagnosis table.  Use patient\_id to find the patient\_sk in the hf\_d\_patient table and use the patient\_sk as the person\_source\_value assign the person\_id. |  |
| visit\_occurrence\_id | encounter\_id | Use encounter\_id to find the visit\_occurrence\_id. |  |
| provider\_id |  |  |  |
| id |  |  | autogenerated |
| concept\_id | diagnosis\_id | Use the diagnosis\_id to map to procedure code in the hf\_d\_diagnosis table. Use the diagnosis\_code and diagnosis\_type from this table to map to a standard concept using this filter on the source->standard query we use in Truven:  If diagnosis\_type = ‘ICD9’ use the filter  WHERE SOURCE\_VOCABULARY\_ID IN ('ICD9CM')  AND TARGET\_STANDARD\_CONCEPT IS NOT NULL  AND TARGET\_INVALID\_REASON IS NULL  If diagnosis\_type = ‘ICD10-CM’ use the filter  WHERE SOURCE\_VOCABULARY\_ID IN ('ICD10CM')  AND TARGET\_STANDARD\_CONCEPT IS NOT NULL  AND TARGET\_INVALID\_REASON IS NULL  AND TARGET\_CONCEPT\_CLASS\_ID NOT IN (‘ICD10CM Hierarchy’) |  |
| source\_value | diagnosis\_id | Map diagnosis\_id to diagnosis\_code in hf\_d\_diagnosis and store diagnosis\_code here. |  |
| source\_concept\_id | diagnosis\_id | Use the diagnosis\_id to map to diagnosis code in the hf\_d\_diagnosis table. Use the diagnosis\_code and diagnosis\_type from this table to find the source\_concept\_id  If diagnosis\_type = ‘ICD9’  Use the source-> source query with the filters:  Where source\_vocabulary\_id in ('ICD9CM')  and target\_vocabulary\_id in ('ICD9CM')  If diagnosis\_type = ‘ICD10-CM’  Use the source-> source query with the filters:  Where source\_vocabulary\_id in ('ICD10CM')  and target\_vocabulary\_id in ('ICD10CM') |  |
| type\_concept\_id | diagnosis\_priority | Refer to the above table to assign this variable |  |
| start\_date | encounter\_id | Use encounter\_id in hf\_f\_encounter to find visit\_start\_date |  |
| start\_datetime |  |  |  |
| end\_date |  |  |  |
| end\_datetime |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_concept\_id |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| effective\_drug\_dose |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| quantity |  |  |  |
| range\_high |  |  |  |
| range\_low |  |  |  |
| refills |  |  |  |
| route\_concept\_id |  |  |  |
| route\_source\_value |  |  |  |
| sig |  |  |  |
| stop\_reason |  |  |  |
| unique\_device\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| unit\_source\_value |  |  |  |
| value\_as\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_string |  |  |  |
| value\_source\_value |  |  |  |
| anatomic\_site\_concept\_id |  |  |  |
| disease\_status\_concept\_id |  |  |  |
| specimen\_source\_id |  |  |  |
| anatomic\_site\_source\_value |  |  |  |
| disease\_status\_source\_value |  |  |  |

## Reading from hf\_f\_lab\_procedure



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | encounter\_id | Use encounter\_id to find the patient\_id in the hf\_f\_encounter table, then use the patient\_id to find the patient\_sk in the hf\_d\_patient table and use the patient\_sk as the person\_source\_value to find the person\_id |  |
| visit\_occurrence\_id | encounter\_id | Use encounter\_id to find the visit\_occurrence\_id |  |
| provider\_id | ordering\_physician\_id | Map ordering\_physician\_id to physician\_source\_value to find provider\_id. If there is no map then set to NULL. |  |
| id |  |  | autogenerated |
| concept\_id | order\_lab\_procedure\_id | Use the order\_lab\_procedure\_id to map to hf\_d\_lab\_procedure.lab\_procedure\_id to find the loinc code associated with the procedure. Then use the source-> standard vocabulary mapping query with the filter:  WHERE SOURCE\_VOCABULARY\_ID = 'LOINC'  AND TARGET\_INVALID\_REASON IS NULL  AND TARGET\_STANDARD\_CONCEPT IS NOT NULL |  |
| source\_value | order\_lab\_procedure\_id | Use the order\_lab\_procedure\_id to map to hf\_d\_lab\_procedure.lab\_procedure\_id to find the loinc code associated with the procedure. |  |
| source\_concept\_id | order\_lab\_procedure\_id | Use the order\_lab\_procedure\_id to map to hf\_d\_lab\_procedure.lab\_procedure\_id to find the loinc code associated with the procedure. Then use the source-> source vocabulary mapping query with the filter:  WHERE SOURCE\_VOCABULARY\_ID = 'LOINC'  AND TARGET\_VOCABULARY\_ID = 'LOINC' |  |
| type\_concept\_id |  | 44818702 ‘Lab result’ |  |
| start\_date | lab\_drawn\_dt\_tm |  |  |
| start\_datetime | lab\_drawn\_dt\_tm |  |  |
| end\_date |  |  |  |
| end\_datetime |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_concept\_id |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| effective\_drug\_dose |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| quantity |  |  |  |
| range\_high | normal\_range\_high |  |  |
| range\_low | normal\_range\_low |  |  |
| refills |  |  |  |
| route\_concept\_id |  |  |  |
| route\_source\_value |  |  |  |
| sig |  |  |  |
| stop\_reason |  |  |  |
| unique\_device\_id |  |  |  |
| unit\_concept\_id | hf\_d\_unit.unit\_display | map the result\_units\_id to unit\_id in hf\_d\_units and then map hf\_d\_unit.unit\_display to a UCUM concept\_id using the source->standard query with the filters:  WHERE source\_vocabulary\_id = 'UCUM'  If there is no map to a UCUM, use the source->standard query with the filter  WHERE source\_vocabulary\_id = 'JNJ\_UNITS' |  |
| unit\_source\_value | hf\_d\_unit.unit\_display | map the result\_units\_id to unit\_id in hf\_d\_units and store hf\_d\_unit.unit\_display in this column |  |
| value\_as\_concept\_id |  |  |  |
| value\_as\_number | numeric\_result |  |  |
| value\_as\_string |  |  |  |
| value\_source\_value | numeric\_result |  |  |
| anatomic\_site\_concept\_id |  |  |  |
| disease\_status\_concept\_id |  |  |  |
| specimen\_source\_id |  |  |  |
| anatomic\_site\_source\_value |  |  |  |
| disease\_status\_source\_value |  |  |  |

## Reading from hf\_f\_medication



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | encounter\_id |  |  |
| visit\_occurrence\_id | encounter\_id |  |  |
| provider\_id | ordering\_physician\_id | Map ordering\_physician\_id to physician\_source\_value to find provider\_id. If there is no map then set to NULL. |  |
| id |  |  | autogenerated |
| concept\_id | medication\_id | Use medication\_id to link to hf\_d\_medication to find ndc\_code. Use ndc\_code with source->standard query with the filters:  where source\_vocabulary\_id = 'NDC'  and target\_invalid\_reason is null  and target\_vocabulary\_id = 'RxNorm'  and drug\_exposure\_start\_date between valid\_start\_date - 1 yr and valid\_end\_date + 1 yr  When mapping DRUG\_SOURCE\_VALUE to a concept\_id, map the 11-digit NDC code to SOURCE\_CODE in OMOP vocab first. If no mapping found, map the first 9 digits of NDC code to SOURCE\_CODE. If there is still no mapping found, remove leading and trailing zeros from the SOURCE\_CODE in OMOP vocab and then try mapping the NDC code |  |
| source\_value | medication\_id | link to hf\_d\_medication to find ndc\_code. |  |
| source\_concept\_id | medication\_id | link to hf\_d\_medication to find ndc\_code.  Use the source-> source query with the filters:  where source\_vocabulary\_id = 'NDC'  and target\_vocabulary\_id = 'NDC'  and drug\_exposure\_start\_date between valid\_start\_date + 1yr and valid\_end\_date + 1yr  When mapping DRUG\_SOURCE\_VALUE to a concept\_id, map the 11-digit NDC code to SOURCE\_CODE in OMOP vocab first. If no mapping found, map the first 9 digits of NDC code to SOURCE\_CODE. If there is still no mapping found, remove leading and trailing zeros from the SOURCE\_CODE in OMOP vocab and then try mapping the NDC code |  |
| type\_concept\_id |  |  | give all drugs the type concept 581373. |
| start\_date | med\_started\_dt\_tm |  |  |
| start\_datetime | med\_started\_dt\_tm |  |  |
| end\_date | med\_stopped\_dt\_tm |  |  |
| end\_datetime | med\_stopped\_dt\_tm |  |  |
| days\_supply |  |  |  |
| dose\_unit\_concept\_id | dose\_units\_id | map dose\_unit\_id to hf\_d\_unit and then map to a concept\_id using the source-> standard query with the filters:  where source\_vocabulary\_id = 'JNJ\_CERNER\_UNITS' |  |
| dose\_unit\_source\_value | dose\_units\_id |  |  |
| effective\_drug\_dose |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| quantity | dose\_quantity |  |  |
| range\_high |  |  |  |
| range\_low |  |  |  |
| refills |  |  |  |
| route\_concept\_id | route\_administration\_id | Use the source -> standard query to map the field route\_administration\_id using the filter:  Where source\_vocabulary\_id = ‘JNJ\_CERNER\_ROUTE\_ADM’ |  |
| route\_source\_value |  |  |  |
| sig |  |  |  |
| stop\_reason |  |  |  |
| unique\_device\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| unit\_source\_value |  |  |  |
| value\_as\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_string |  |  |  |
| value\_source\_value |  |  |  |
| anatomic\_site\_concept\_id |  |  |  |
| disease\_status\_concept\_id |  |  |  |
| specimen\_source\_id |  |  |  |
| anatomic\_site\_source\_value |  |  |  |
| disease\_status\_source\_value |  |  |  |

Appendix: source tables

Table: \_version

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| version\_id | integer | List truncated... |  |
| version\_date | date | List truncated... |  |

Table: hf\_d\_admission\_source

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| admission\_source\_id | smallint | List truncated... |  |
| admission\_source\_code | character varying | List truncated... |  |
| admission\_source\_code\_desc | character varying | List truncated... |  |

Table: hf\_d\_admission\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| admission\_type\_id | smallint | List truncated... |  |
| admission\_type\_code | character varying | List truncated... |  |
| admission\_type\_code\_desc | character varying | List truncated... |  |

Table: hf\_d\_anesthesia\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| anesthesia\_type\_id | smallint | List truncated... |  |
| anesthesia\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_antimicrobial

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| antimicrobial\_id | smallint | List truncated... |  |
| antimicrobial\_dcode | character varying |  |  |
| antimicrobial\_desc | character varying | List truncated... |  |
| drug\_classification | character varying | quinolones |  |
| antibiogram\_class | character varying |  |  |
| antimicrobial\_mnemonic | character varying |  |  |
| loinc\_long | character varying |  |  |
| loinc\_short | character varying |  |  |

Table: hf\_d\_asa\_class

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| asa\_class\_id | smallint | List truncated... |  |
| asa\_class\_code | character varying | List truncated... |  |
| asa\_class\_desc | character varying | List truncated... |  |

Table: hf\_d\_cancel\_reason

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| cancel\_reason\_id | smallint | List truncated... |  |
| cancel\_reason\_desc | character varying | List truncated... |  |

Table: hf\_d\_caresetting

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| caresetting\_id | smallint | List truncated... |  |
| caresetting\_desc | character varying | List truncated... |  |

Table: hf\_d\_collection\_src\_site

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| collection\_source\_site\_id | smallint | List truncated... |  |
| snomed\_code | character varying |  |  |
| collection\_source\_site\_desc | character varying | List truncated... |  |
| source\_type | character varying |  |  |

Table: hf\_d\_collection\_status

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| collection\_status\_id | smallint | List truncated... |  |
| collection\_status\_code | integer | List truncated... |  |
| collection\_status\_desc | character varying | List truncated... |  |

Table: hf\_d\_compliance\_status

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| compliance\_status\_id | smallint | List truncated... |  |
| compliance\_desc | character varying | List truncated... |  |

Table: hf\_d\_date

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| date\_id | double precision | List truncated... |  |
| year | smallint | 2008 |  |
| quarter | smallint | 3 |  |
| month | smallint | 12 |  |
| month\_name | character varying | OCT |  |
| day\_number\_in\_month | smallint | 19 |  |
| week\_number\_in\_year | smallint | 35 |  |
| day\_of\_week | character varying | MONDAY |  |
| day\_number\_of\_week | smallint | 3 |  |
| holiday\_ind | smallint | 0 |  |
| weekday\_ind | smallint | 1 |  |

Table: hf\_d\_diagnosis

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| diagnosis\_id | integer | List truncated... |  |
| diagnosis\_type | character varying | ICD10-CM |  |
| diagnosis\_code | character varying | List truncated... |  |
| diagnosis\_description | character varying | List truncated... |  |

Table: hf\_d\_diagnosis\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| diagnosis\_type\_id | smallint | List truncated... |  |
| diagnosis\_type\_display | character varying | List truncated... |  |

Table: hf\_d\_diagnostic\_grouping

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| diagnostic\_grouping\_id | smallint | List truncated... |  |
| mdc\_code | character varying | 99 |  |
| mdc\_code\_desc | character varying | Unknown/Invalid |  |
| drg\_code | character varying | 999 |  |
| drg\_code\_desc | character varying | MS Ungroupable |  |
| drg\_id | smallint | -1 |  |
| mdc\_id | smallint | 99 |  |
| drg\_type | character varying | DRG |  |

Table: hf\_d\_dischg\_disp

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| dischg\_disp\_id | smallint | List truncated... |  |
| dischg\_disp\_code | integer | List truncated... |  |
| dischg\_disp\_code\_desc | character varying | List truncated... |  |
| beg\_effective\_dt\_tm | timestamp without time zone | 1800-01-01.000000 |  |
| end\_effective\_dt\_tm | timestamp without time zone | 2100-12-31.000000 |  |

Table: hf\_d\_discontinue\_reason

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| discontinue\_reason\_id | smallint | List truncated... |  |
| discontinue\_reason\_code | character varying | List truncated... |  |
| discontinue\_reason\_desc | character varying | List truncated... |  |

Table: hf\_d\_event\_class

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| event\_class\_id | smallint | List truncated... |  |
| event\_class\_desc | character varying | List truncated... |  |

Table: hf\_d\_event\_code

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| event\_code\_id | smallint | List truncated... |  |
| event\_code\_desc | character varying | List truncated... |  |
| event\_code\_display | character varying | Braden Scale |  |
| event\_code\_group | character varying | Blood Gas Test |  |
| event\_code\_category | character varying | Vital Sign |  |

Table: hf\_d\_event\_reltn

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| event\_reltn\_id | smallint | List truncated... |  |
| event\_reltn\_desc | character varying | List truncated... |  |

Table: hf\_d\_event\_source

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| event\_source\_id | smallint | List truncated... |  |
| event\_source\_desc | character varying | List truncated... |  |

Table: hf\_d\_formulary\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| formulary\_type\_id | smallint | List truncated... |  |
| formulary\_type\_code | character varying | List truncated... |  |
| formulary\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_frequency

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| frequency\_id | smallint | List truncated... |  |
| frequency\_disp | character varying | List truncated... |  |
| frequency\_desc | character varying | List truncated... |  |

Table: hf\_d\_hospital

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| hospital\_id | smallint | List truncated... |  |
| census\_region | character varying | South |  |
| census\_division | character varying | 6 |  |
| bed\_size\_range | character varying | <5 |  |
| teaching\_facility\_ind | smallint | 0 |  |
| cath\_lab\_full\_ind | smallint | 0 |  |
| cath\_lab\_diagnostic\_ind | smallint | 0 |  |
| urban\_rural\_status | character varying | Urban |  |
| acute\_status | character varying | Acute |  |
| alt\_hospital\_id | smallint |  |  |
| alt\_health\_system\_id | smallint | 79 |  |

Table: hf\_d\_interp\_result

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| interp\_result\_id | smallint | List truncated... |  |
| interp\_result\_desc | character varying | List truncated... |  |

Table: hf\_d\_isolate

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| isolate\_id | smallint | List truncated... |  |
| isolate\_name | character varying | List truncated... |  |
| isolate\_type | character varying | Bacteria |  |
| isolate\_category | character varying | Salmonella |  |
| isolate\_group | character varying |  |  |
| isolate\_rept\_category | character varying | Salmonella |  |
| phin\_loinc\_code | character varying |  |  |
| alt\_loinc\_code | character varying |  |  |
| snomed\_code | character varying |  |  |
| snomedct\_code | character varying |  |  |

Table: hf\_d\_lab\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| lab\_procedure\_id | smallint | List truncated... |  |
| lab\_procedure\_mnemonic | character varying | List truncated... |  |
| lab\_procedure\_name | character varying | List truncated... |  |
| lab\_procedure\_group | character varying | Allergy Test |  |
| lab\_super\_group | character varying | General Test |  |
| loinc\_code | character varying |  |  |
| loinc\_ind | character varying |  |  |
| loinc\_long | character varying |  |  |
| loinc\_short | character varying |  |  |

Table: hf\_d\_lab\_result\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| lab\_result\_type\_id | smallint | List truncated... |  |
| lab\_result\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_manufacturer

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| manufacturer\_id | smallint | List truncated... |  |
| manufacturer\_name | character varying | List truncated... |  |
| manufacturer\_alt\_name | character varying |  |  |

Table: hf\_d\_med\_order\_status

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| med\_order\_status\_id | double precision | List truncated... |  |
| med\_order\_status\_desc | character varying | List truncated... |  |

Table: hf\_d\_med\_product

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| med\_product\_id | smallint | List truncated... |  |
| drug\_code | character varying | d03770 |  |
| drug\_mnemonic\_code | character varying | List truncated... |  |
| drug\_desc | character varying | emollients, topical |  |
| drug\_mnemonic\_desc | character varying | List truncated... |  |

Table: hf\_d\_med\_reason

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| med\_reason\_id | smallint | List truncated... |  |
| med\_reason\_desc | character varying | List truncated... |  |

Table: hf\_d\_medication

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| medication\_id | integer | List truncated... |  |
| ndc\_code | double precision | List truncated... |  |
| brand\_name | character varying | Ibuprofen |  |
| generic\_name | character varying | ibuprofen |  |
| product\_strength\_description | character varying |  |  |
| route\_description | character varying | oral |  |
| dose\_form\_description | character varying | tablet |  |
| obsolete\_dt\_tm | timestamp without time zone |  |  |

Table: hf\_d\_mic\_order\_status

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| micro\_order\_status\_id | smallint | List truncated... |  |
| micro\_order\_status\_code | integer | List truncated... |  |
| micro\_order\_status\_desc | character varying | List truncated... |  |

Table: hf\_d\_micro\_result\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| micro\_result\_type\_id | smallint | List truncated... |  |
| test\_type | character varying | Microbiology |  |
| micro\_result\_type\_code | integer | List truncated... |  |
| micro\_result\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_normalcy

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| normalcy\_id | smallint | List truncated... |  |
| normalcy\_desc | character varying | List truncated... |  |

Table: hf\_d\_normalcy\_method

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| normalcy\_method\_id | smallint | List truncated... |  |
| normalcy\_method\_desc | character varying | List truncated... |  |

Table: hf\_d\_order\_stop\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| order\_stop\_type\_id | smallint | List truncated... |  |
| order\_stop\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_order\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| order\_type\_id | smallint | List truncated... |  |
| order\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_patient

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| patient\_id | integer | List truncated... |  |
| patient\_sk | character varying | List truncated... |  |
| race | character varying | Caucasian |  |
| gender | character varying | Female |  |
| marital\_status | character varying | Single |  |

Table: hf\_d\_patient\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| patient\_type\_id | smallint | List truncated... |  |
| patient\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_payer

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| payer\_id | smallint | List truncated... |  |
| payer\_code | character varying | List truncated... |  |
| payer\_code\_desc | character varying | List truncated... |  |

Table: hf\_d\_physician

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| physician\_id | integer | List truncated... |  |
| medical\_specialty | character varying | NULL |  |

Table: hf\_d\_present\_on\_admit

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| present\_on\_admit\_id | smallint | List truncated... |  |
| present\_on\_admit\_code | character varying | List truncated... |  |
| present\_on\_admit\_desc | character varying | List truncated... |  |

Table: hf\_d\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| procedure\_id | integer | List truncated... |  |
| procedure\_type | character varying | ICD10-PCS |  |
| procedure\_code | character varying | 043EECA7-F13 |  |
| procedure\_description | character varying | CPT |  |

Table: hf\_d\_procedure\_modifier

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| procedure\_modifier\_id | smallint | List truncated... |  |
| procedure\_modifier\_desc | character varying | List truncated... |  |

Table: hf\_d\_reporting\_priority

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| reporting\_priority\_id | smallint | List truncated... |  |
| reporting\_priority\_code | character varying | List truncated... |  |
| reporting\_priority\_desc | character varying | List truncated... |  |

Table: hf\_d\_result\_indicator

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| result\_indicator\_id | smallint | List truncated... |  |
| result\_indicator\_desc | character varying | List truncated... |  |

Table: hf\_d\_result\_type\_proc

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| result\_type\_proc\_id | smallint | List truncated... |  |
| result\_type\_proc\_desc | character varying | List truncated... |  |

Table: hf\_d\_route\_admin

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| route\_admin\_id | smallint | List truncated... |  |
| route\_admin\_display | character varying | List truncated... |  |
| route\_admin\_description | character varying | List truncated... |  |

Table: hf\_d\_surgical\_case\_level

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| surgical\_case\_level\_id | smallint | List truncated... |  |
| surgical\_case\_level\_desc | character varying | List truncated... |  |

Table: hf\_d\_surgical\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| surgical\_procedure\_id | smallint | List truncated... |  |
| surgical\_procedure\_desc | character varying | List truncated... |  |
| order\_type | character varying | Surgery |  |
| order\_specialty | character varying |  |  |
| anatomic\_site | character varying |  |  |
| surgical\_procedure\_device | character varying |  |  |
| icd9\_code | character varying |  |  |
| icd9\_desc | character varying |  |  |
| revision\_ind | smallint |  |  |

Table: hf\_d\_surgical\_specialty

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| surgical\_specialty\_id | smallint | List truncated... |  |
| surgical\_specialty\_desc | character varying | List truncated... |  |

Table: hf\_d\_test\_type

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| test\_type\_id | smallint | List truncated... |  |
| test\_type\_mnemonic | character varying | List truncated... |  |
| test\_type\_desc | character varying | List truncated... |  |

Table: hf\_d\_unit

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| unit\_id | smallint | List truncated... |  |
| unit\_display | character varying | List truncated... |  |
| unit\_desc | character varying | List truncated... |  |

Table: hf\_d\_wound\_class

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| wound\_class\_id | smallint | List truncated... |  |
| wound\_class\_desc | character varying | List truncated... |  |

Table: hf\_f\_clinical\_event

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 634785782 |  |
| accession\_nbr | character varying |  |  |
| lab\_procedure\_id | smallint | 23 |  |
| critical\_high | character varying |  |  |
| critical\_low | character varying |  |  |
| event\_code\_id | smallint | 226 |  |
| event\_class\_id | smallint | 15 |  |
| event\_end\_dt\_tm | timestamp without time zone | 2010-02-19 14:44:00.000000 |  |
| event\_end\_dt\_id | integer | 5530 |  |
| event\_reltn\_id | smallint | 4 |  |
| event\_start\_dt\_tm | timestamp without time zone |  |  |
| event\_start\_dt\_id | integer | 4019 |  |
| event\_expiration\_dt\_tm | timestamp without time zone |  |  |
| event\_expiration\_dt\_id | smallint | 4019 |  |
| event\_normalcy\_id | smallint | -1 |  |
| event\_normalcy\_method\_id | smallint | -1 |  |
| normal\_high | character varying |  |  |
| normal\_low | character varying |  |  |
| performed\_dt\_tm | timestamp without time zone |  |  |
| performed\_dt\_id | smallint | 4019 |  |
| performed\_prsnl\_id | integer | -9 |  |
| result\_normalcy\_flg | smallint | 0 |  |
| result\_time\_unit\_id | smallint | 250 |  |
| result\_units\_id | smallint | 250 |  |
| result\_value\_dt\_tm | timestamp without time zone |  |  |
| result\_value\_dt\_id | smallint | 4019 |  |
| result\_value\_num | numeric |  |  |
| result\_feasible\_ind | smallint | 0 |  |
| result\_inaccurate\_ind | smallint | 0 |  |
| event\_source\_id | smallint | -1 |  |
| verified\_dt\_tm | timestamp without time zone |  |  |
| verified\_dt\_id | smallint | 4019 |  |
| verified\_prsnl\_id | integer | -9 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_diagnosis

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 394231374 |  |
| diagnosis\_id | integer | 7278 |  |
| diagnosis\_priority | integer | 1 |  |
| diagnosis\_type\_id | smallint | 83 |  |
| present\_on\_admit\_id | smallint | 6 |  |
| third\_party\_ind | smallint | 0 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_enc\_history

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 634785782 |  |
| patient\_type\_id | smallint | 98 |  |
| caresetting\_id | smallint | 16 |  |
| begin\_dt\_tm | timestamp without time zone | 2014-01-08 12:00:00.000000 |  |
| end\_dt\_tm | timestamp without time zone | 2014-01-08 12:00:00.000000 |  |
| begin\_dt\_id | smallint | 7739 |  |
| end\_dt\_id | smallint | 7733 |  |
| estimate\_ind | smallint |  |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_encounter

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | List truncated... |  |
| hospital\_id | smallint | 84 |  |
| admitting\_physician\_id | integer | -1 |  |
| discharge\_caresetting\_id | smallint | 16 |  |
| patient\_id | integer | List truncated... |  |
| patient\_type\_id | smallint | 98 |  |
| admitted\_dt\_id | smallint | 4019 |  |
| discharged\_dt\_id | smallint | 4019 |  |
| discharge\_disposition\_id | smallint | 1 |  |
| diagnostic\_grouping\_id | smallint | 1 |  |
| admission\_source\_id | smallint | 1 |  |
| admission\_type\_id | smallint | 3 |  |
| payer\_id | smallint | 22 |  |
| age\_in\_years | smallint |  |  |
| age\_in\_months | smallint |  |  |
| age\_in\_weeks | smallint |  |  |
| age\_in\_days | integer |  |  |
| age\_in\_hours | integer |  |  |
| total\_charges | numeric | 0.000000 |  |
| billing\_ind | smallint | 1 |  |
| weight | double precision |  |  |
| weight\_unit\_id | character varying | 250 |  |
| admitted\_dt\_tm | timestamp without time zone |  |  |
| discharged\_dt\_tm | timestamp without time zone | 2014-01-08.000000 |  |
| admitted\_tm\_valid\_ind | smallint | 1 |  |
| discharged\_tm\_valid\_ind | smallint | 1 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_implant\_log

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| manufacturer\_id | smallint | -9 |  |
| expiration\_dt\_tm | timestamp without time zone |  |  |
| expiration\_dt\_id | smallint | 4019 |  |
| surgical\_case\_id | integer | 6021842 |  |
| encounter\_id | bigint | 360742999 |  |
| \_extractyear | smallint | 2016 |  |

Table: hf\_f\_lab\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 634818267 |  |
| detail\_lab\_procedure\_id | smallint | 13 |  |
| order\_lab\_procedure\_id | smallint | 526 |  |
| ordering\_physician\_id | integer |  |  |
| lab\_order\_caresetting\_id | smallint | 16 |  |
| reporting\_priority\_id | smallint | 1 |  |
| lab\_result\_type\_id | smallint | 7 |  |
| result\_indicator\_id | smallint | 8 |  |
| lab\_ordered\_dt\_id | smallint | 4019 |  |
| lab\_drawn\_dt\_id | smallint | 4019 |  |
| lab\_received\_dt\_id | smallint | 4019 |  |
| lab\_completed\_dt\_id | smallint | 4019 |  |
| lab\_cancelled\_dt\_id | smallint | 4019 |  |
| lab\_performed\_dt\_id | smallint |  |  |
| lab\_verified\_dt\_id | smallint | 4019 |  |
| accession | character varying |  |  |
| date\_result\_id | numeric | 4019.000000 |  |
| numeric\_result | numeric |  |  |
| result\_units\_id | double precision | 250.0 |  |
| normal\_range\_low | character varying |  |  |
| normal\_range\_high | character varying |  |  |
| lab\_ordered\_dt\_tm | timestamp without time zone |  |  |
| lab\_drawn\_dt\_tm | timestamp without time zone |  |  |
| lab\_received\_dt\_tm | timestamp without time zone |  |  |
| lab\_completed\_dt\_tm | timestamp without time zone |  |  |
| lab\_cancelled\_dt\_tm | timestamp without time zone |  |  |
| lab\_performed\_dt\_tm | timestamp without time zone |  |  |
| lab\_verified\_dt\_tm | timestamp without time zone |  |  |
| lab\_ordered\_tm\_vld\_flg | smallint | 1 |  |
| lab\_drawn\_tm\_vld\_flg | smallint | 1 |  |
| lab\_received\_tm\_vld\_flg | smallint | 1 |  |
| lab\_completed\_tm\_vld\_flg | smallint | 1 |  |
| lab\_cancelled\_tm\_vld\_flg | smallint | 0 |  |
| lab\_verified\_tm\_vld\_flg | smallint | 1 |  |
| lab\_performed\_tm\_vld\_flg | smallint | 1 |  |
| lab\_performed\_caresetting\_id | smallint | 174 |  |
| collection\_source\_id | smallint | 522 |  |
| collection\_method\_id | smallint |  |  |
| \_extractyear | smallint |  |  |

Table: hf\_f\_med\_history

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 634785782 |  |
| ordering\_physician\_id | integer | -1 |  |
| med\_history\_flg | smallint | 1 |  |
| req\_start\_dt\_tm | timestamp without time zone |  |  |
| req\_start\_dt\_id | smallint | 4019 |  |
| req\_start\_tm\_vld\_flg | smallint |  |  |
| prn\_ind | smallint |  |  |
| route\_administration\_id | smallint | 57 |  |
| order\_stop\_type\_id | smallint | 4 |  |
| med\_stopped\_dt\_tm | timestamp without time zone |  |  |
| med\_stopped\_dt\_id | smallint | 4019 |  |
| med\_stopped\_tm\_vld\_flg | smallint |  |  |
| frequency\_id | smallint | 111 |  |
| collected\_ind | smallint |  |  |
| order\_strength | double precision |  |  |
| order\_strength\_units\_id | smallint | 250 |  |
| order\_volume | double precision |  |  |
| order\_volume\_units\_id | smallint | 250 |  |
| total\_dispensed\_doses | double precision |  |  |
| duration | integer |  |  |
| duration\_unit\_id | smallint | 250 |  |
| next\_dose\_dt\_tm | timestamp without time zone |  |  |
| next\_dose\_dt\_id | smallint | 4019 |  |
| next\_dose\_tm\_vld\_flg | smallint |  |  |
| infusion\_rate | double precision |  |  |
| infusion\_rate\_units\_id | smallint | 250 |  |
| med\_reason\_id | smallint | -1 |  |
| cancel\_reason\_id | smallint | -1 |  |
| dispensed\_quantity | bigint |  |  |
| dispensed\_quantity\_units\_id | smallint | 250 |  |
| compliance\_status\_id | smallint | -1 |  |
| med\_entered\_dt\_tm | timestamp without time zone | 2015-05-15 08:37:00.000000 |  |
| med\_entered\_dt\_id | smallint | 7137 |  |
| med\_entered\_tm\_vld\_flg | smallint | 1 |  |
| med\_product\_id | smallint | 791 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_medication

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 120885265 |  |
| medication\_id | integer | 14883 |  |
| ordering\_physician\_id | integer |  |  |
| med\_dispensed\_caresetting\_id | smallint | 174 |  |
| med\_request\_caresetting\_id | smallint | 174 |  |
| discontinue\_reason\_id | smallint | 1 |  |
| route\_administration\_id | smallint | 56 |  |
| formulary\_type\_id | smallint | 1 |  |
| frequency\_id | smallint | 110 |  |
| order\_stop\_type\_id | smallint | 2 |  |
| order\_type\_id | smallint | 4 |  |
| med\_order\_status\_id | smallint | 4 |  |
| med\_started\_dt\_id | smallint | 7118 |  |
| med\_entered\_dt\_id | smallint | 7118 |  |
| med\_stopped\_dt\_id | smallint | 4019 |  |
| med\_discontinued\_dt\_id | smallint | 4019 |  |
| order\_no | character varying | List truncated... |  |
| total\_dispensed\_doses | double precision | 0.0 |  |
| dose\_quantity | double precision | 1.0 |  |
| initial\_dose\_quantity | double precision | 0.0 |  |
| dose\_units\_id | smallint | 39 |  |
| charge\_quantity | double precision | 0.0 |  |
| credit\_quantity | double precision | 0.0 |  |
| infusion\_rate | double precision | 0.0 |  |
| infusion\_time | double precision |  |  |
| infusion\_time\_units\_id | smallint | 250 |  |
| order\_strength | double precision |  |  |
| order\_strength\_units\_id | smallint | 174 |  |
| order\_volume | double precision | 1.0 |  |
| order\_volume\_units\_id | smallint | 162 |  |
| total\_volume | double precision |  |  |
| unit\_cost | double precision |  |  |
| unit\_price | double precision |  |  |
| med\_started\_dt\_tm | timestamp without time zone | 2011-05-22 08:42:00.000000 |  |
| med\_entered\_dt\_tm | timestamp without time zone | List truncated... |  |
| med\_stopped\_dt\_tm | timestamp without time zone |  |  |
| med\_discontinued\_dt\_tm | timestamp without time zone |  |  |
| med\_started\_tm\_valid\_flg | smallint | 1 |  |
| med\_entered\_tm\_valid\_flg | smallint | 1 |  |
| med\_stopped\_tm\_valid\_flg | smallint | 1 |  |
| med\_discontinued\_tm\_valid\_flg | smallint | 1 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_micro\_susceptibility

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 252004367 |  |
| order\_lab\_procedure\_id | smallint | 337 |  |
| test\_type\_id | smallint | 1 |  |
| isolate\_id | smallint | 2211 |  |
| antimicrobial\_id | smallint | 87 |  |
| interp\_result\_id | smallint | 8 |  |
| interp\_perf\_dt\_id | smallint | 4019 |  |
| interp\_perf\_dt\_tm | timestamp without time zone |  |  |
| interp\_perf\_tm\_vld\_flg | smallint | 0 |  |
| interp\_verf\_dt\_id | smallint | 4019 |  |
| interp\_verf\_dt\_tm | timestamp without time zone |  |  |
| interp\_verf\_tm\_vld\_flg | smallint | 1 |  |
| accession | character varying | List truncated... |  |
| numeric\_result | character varying | 0 |  |
| numeric\_result\_perf\_dt\_id | smallint | 4019 |  |
| numeric\_result\_perf\_dt\_tm | timestamp without time zone |  |  |
| numeric\_result\_perf\_tm\_vld\_flg | smallint | 0 |  |
| numeric\_result\_verf\_dt\_id | smallint | 4019 |  |
| numeric\_result\_verf\_dt\_tm | timestamp without time zone |  |  |
| numeric\_result\_verf\_tm\_vld\_flg | smallint | 1 |  |
| result\_units\_id | smallint | 250 |  |
| collection\_source\_id | smallint | 411 |  |
| collection\_site\_id | smallint | 522 |  |
| collection\_method\_id | smallint |  |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_microbiology

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 559056352 |  |
| order\_lab\_procedure\_id | smallint | 76 |  |
| isolate\_id | smallint | 2521 |  |
| ordering\_physician\_id | integer |  |  |
| micro\_order\_caresetting\_id | smallint | 25 |  |
| micro\_result\_type\_id | smallint | 2 |  |
| result\_type\_procedure\_id | smallint | 24 |  |
| collection\_source\_id | smallint | 29 |  |
| collection\_site\_id | smallint | 522 |  |
| reporting\_priority\_id | smallint | 1 |  |
| micro\_order\_status\_id | smallint | 3 |  |
| collection\_status\_id | smallint | 14 |  |
| micro\_lab\_ordered\_dt\_id | smallint | 6871 |  |
| micro\_lab\_drawn\_dt\_id | smallint | 4019 |  |
| micro\_lab\_received\_dt\_id | smallint | 4019 |  |
| micro\_lab\_completed\_dt\_id | smallint | 4019 |  |
| micro\_lab\_cancelled\_dt\_id | smallint | 4019 |  |
| first\_report\_entered\_dt\_id | smallint | 4019 |  |
| last\_report\_updated\_dt\_id | smallint | 4019 |  |
| accession | character varying |  |  |
| false\_positive\_ind | smallint |  |  |
| total\_report\_updates | smallint | 1 |  |
| micro\_lab\_ordered\_dt\_tm | timestamp without time zone |  |  |
| micro\_lab\_drawn\_dt\_tm | timestamp without time zone |  |  |
| micro\_lab\_received\_dt\_tm | timestamp without time zone |  |  |
| micro\_lab\_completed\_dt\_tm | timestamp without time zone |  |  |
| micro\_lab\_cancelled\_dt\_tm | timestamp without time zone |  |  |
| first\_report\_entered\_dt\_tm | timestamp without time zone |  |  |
| last\_report\_updated\_dt\_tm | timestamp without time zone |  |  |
| micro\_lab\_ordered\_tm\_vld\_flg | smallint |  |  |
| micro\_lab\_drawn\_tm\_vld\_flg | smallint | 1 |  |
| micro\_lab\_received\_tm\_vld\_flg | smallint | 1 |  |
| micro\_lab\_complted\_tm\_vld\_flg | smallint | 1 |  |
| micro\_lab\_cancelled\_tm\_vld\_flg | smallint | 1 |  |
| first\_rpt\_entered\_tm\_vld\_flg | smallint | 0 |  |
| last\_rpt\_updated\_tm\_vld\_flg | smallint |  |  |
| collection\_method\_id | smallint |  |  |
| \_extractyear | smallint | 2013 |  |

Table: hf\_f\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 552264616 |  |
| procedure\_id | integer | 2616 |  |
| procedure\_dt\_id | smallint | 4019 |  |
| procedure\_dt\_tm | timestamp without time zone |  |  |
| procedure\_priority | integer | 1 |  |
| third\_party\_ind | smallint | 0 |  |
| \_extractyear | smallint | 2014 |  |

Table: hf\_f\_surgical\_case

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| surgical\_case\_id | integer | List truncated... |  |
| encounter\_id | bigint | 411950461 |  |
| case\_level\_id | smallint | -9 |  |
| case\_start\_dt\_tm | timestamp without time zone |  |  |
| case\_stop\_dt\_tm | timestamp without time zone |  |  |
| case\_start\_dt\_id | smallint | 4019 |  |
| case\_stop\_dt\_id | smallint | 4019 |  |
| case\_duration | bigint | 10 |  |
| scheduled\_case\_start\_dt\_tm | timestamp without time zone |  |  |
| scheduled\_case\_stop\_dt\_tm | timestamp without time zone |  |  |
| scheduled\_case\_start\_dt\_id | smallint | 4019 |  |
| scheduled\_case\_stop\_dt\_id | smallint | 4019 |  |
| scheduled\_case\_duration | smallint | 60 |  |
| case\_specialty\_id | smallint | -9 |  |
| case\_completed\_ind | smallint | 1 |  |
| case\_cancelled\_dt\_tm | timestamp without time zone |  |  |
| case\_cancelled\_dt\_id | smallint | 4019 |  |
| case\_cancelled\_reason\_id | smallint | -1 |  |
| case\_closing\_start\_dt\_tm | timestamp without time zone |  |  |
| case\_closing\_start\_dt\_id | smallint | 4019 |  |
| transport\_requested\_dt\_tm | timestamp without time zone |  |  |
| transport\_requested\_dt\_id | smallint | 4019 |  |
| operating\_room\_setup\_dt\_tm | timestamp without time zone |  |  |
| operating\_room\_ready\_dt\_tm | timestamp without time zone |  |  |
| operating\_room\_setup\_dt\_id | smallint | 4019 |  |
| operating\_room\_ready\_dt\_id | smallint | 4019 |  |
| patient\_in\_preop\_hold\_dt\_tm | timestamp without time zone |  |  |
| patient\_out\_preop\_hold\_dt\_tm | timestamp without time zone |  |  |
| patient\_in\_preop\_hold\_dt\_id | smallint | 4019 |  |
| patient\_out\_preop\_hold\_dt\_id | smallint | 4019 |  |
| preop\_antibiotic\_admin\_dt\_tm | timestamp without time zone |  |  |
| preop\_antibiotic\_admin\_dt\_id | smallint | 4019 |  |
| patient\_in\_oper\_room\_dt\_tm | timestamp without time zone |  |  |
| patient\_out\_oper\_room\_dt\_tm | timestamp without time zone |  |  |
| patient\_out\_oper\_room\_dt\_id | smallint | 4019 |  |
| anesthesia\_start\_dt\_tm | timestamp without time zone |  |  |
| anesthesia\_induct\_dt\_tm | timestamp without time zone |  |  |
| anesthesia\_stop\_dt\_tm | timestamp without time zone |  |  |
| anesthesia\_start\_dt\_id | smallint | 4019 |  |
| anesthesia\_induct\_dt\_id | smallint | 4019 |  |
| anesthesia\_stop\_dt\_id | smallint | 4019 |  |
| anesthesia\_induct\_stop\_duratn | integer |  |  |
| surgeon\_in\_oper\_room\_dt\_tm | timestamp without time zone |  |  |
| surgeon\_in\_oper\_room\_dt\_id | smallint | 4019 |  |
| patient\_in\_pacu\_dt\_tm | timestamp without time zone |  |  |
| patient\_out\_pacu\_dt\_tm | timestamp without time zone |  |  |
| patient\_in\_pacu\_ii\_dt\_tm | timestamp without time zone |  |  |
| patient\_out\_pacu\_ii\_dt\_tm | timestamp without time zone |  |  |
| patient\_in\_pacu\_dt\_id | smallint | 4019 |  |
| patient\_out\_pacu\_dt\_id | smallint | 4019 |  |
| patient\_in\_pacu\_ii\_dt\_id | smallint | 4019 |  |
| patient\_out\_pacu\_ii\_dt\_id | smallint | 4019 |  |
| patient\_in\_oper\_room\_dt\_id | smallint | 4019 |  |
| \_extractyear | smallint | 2013 |  |

Table: hf\_f\_surgical\_procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| encounter\_id | bigint | 287078471 |  |
| surgical\_case\_id | integer | List truncated... |  |
| surgical\_procedure\_id | smallint | -9 |  |
| wound\_class\_id | smallint | 2 |  |
| asa\_class\_id | smallint | 3 |  |
| procedure\_specialty\_id | smallint | 17 |  |
| procedure\_revision\_ind | smallint | 0 |  |
| procedure\_modifier\_01\_id | smallint | -1 |  |
| procedure\_modifier\_02\_id | smallint | -1 |  |
| procedure\_modifier\_03\_id | smallint | -1 |  |
| procedure\_duration | integer | 10 |  |
| procedure\_start\_dt\_tm | timestamp without time zone | 2012-08-17 13:03:00.000000 |  |
| procedure\_stop\_dt\_tm | timestamp without time zone |  |  |
| procedure\_start\_dt\_id | smallint | 7257 |  |
| procedure\_stop\_dt\_id | smallint | 7257 |  |
| primary\_procedure\_ind | smallint | 1 |  |
| scheduled\_procedure\_duration | smallint | 0 |  |
| procedure\_completion\_ind | smallint | 1 |  |
| concurrent\_procedure\_ind | smallint | 0 |  |
| anesthesia\_type\_id | smallint | 7 |  |
| expected\_case\_level\_id | smallint | -1 |  |
| case\_level\_id | smallint | 9 |  |
| \_extractyear | smallint | 2014 |  |

Table: stem\_table

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| domain\_id | CHARACTER VARYING |  |  |
| person\_id | INTEGER |  |  |
| visit\_occurrence\_id | INTEGER |  |  |
| provider\_id | INTEGER |  |  |
| id | INTEGER |  | autogenerated |
| concept\_id | INTEGER |  |  |
| source\_value | CHARACTER VARYING |  |  |
| source\_concept\_id | INTEGER |  |  |
| type\_concept\_id | INTEGER |  | give all drugs the type concept 581373. |
| start\_date | DATE |  |  |
| start\_datetime | DATETIME |  |  |
| end\_date | DATE |  |  |
| end\_datetime | DATETIME |  |  |
| days\_supply | INTEGER |  |  |
| dose\_unit\_concept\_id | INTEGER |  |  |
| dose\_unit\_source\_value | CHARACTER VARYING |  |  |
| effective\_drug\_dose | FLOAT |  |  |
| lot\_number | CHARACTER VARYING |  |  |
| modifier\_concept\_id | INTEGER |  |  |
| operator\_concept\_id | INTEGER |  |  |
| qualifier\_concept\_id | INTEGER |  |  |
| qualifier\_source\_value | CHARACTER VARYING |  |  |
| quantity | INTEGER |  |  |
| range\_high | FLOAT |  |  |
| range\_low | FLOAT |  |  |
| refills | INTEGER |  |  |
| route\_concept\_id | INTEGER |  |  |
| route\_source\_value | CHARACTER VARYING |  |  |
| sig | CHARACTER VARYING |  |  |
| stop\_reason | CHARACTER VARYING |  |  |
| unique\_device\_id | CHARACTER VARYING |  |  |
| unit\_concept\_id | INTEGER |  |  |
| unit\_source\_value | CHARACTER VARYING |  |  |
| value\_as\_concept\_id | INTEGER |  |  |
| value\_as\_number | DECIMAL |  |  |
| value\_as\_string | CHARACTER VARYING |  |  |
| value\_source\_value | CHARACTER VARYING |  |  |
| anatomic\_site\_concept\_id | INTEGER |  |  |
| disease\_status\_concept\_id | INTEGER |  |  |
| specimen\_source\_id | INTEGER |  |  |
| anatomic\_site\_source\_value | CHARACTER VARYING |  |  |
| disease\_status\_source\_value | CHARACTER VARYING |  |  |