Source Data Mapping Approach to CDMV5.4

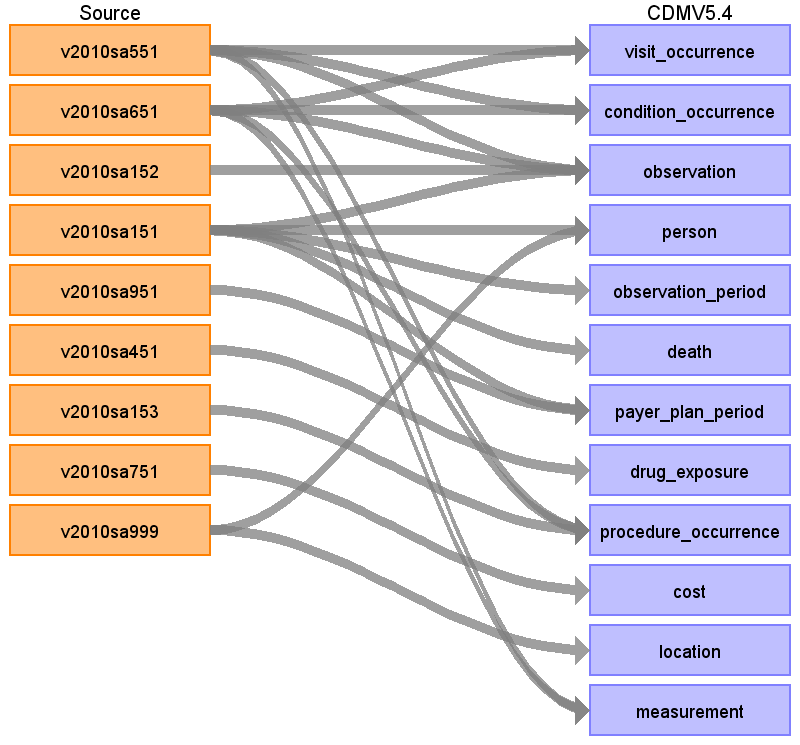


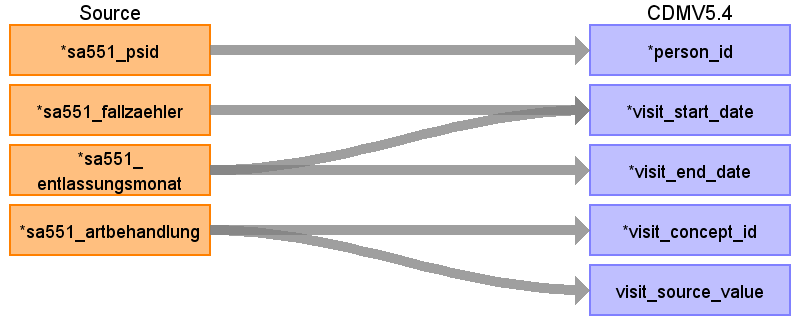
Table name: visit\_occurrence

Reading from v2010sa551

“Stationäre Diagnosen” (Inpatient diagnosis) to visit occurrence

- visit duration

- visit concept (inpatient, outpatient, ...)



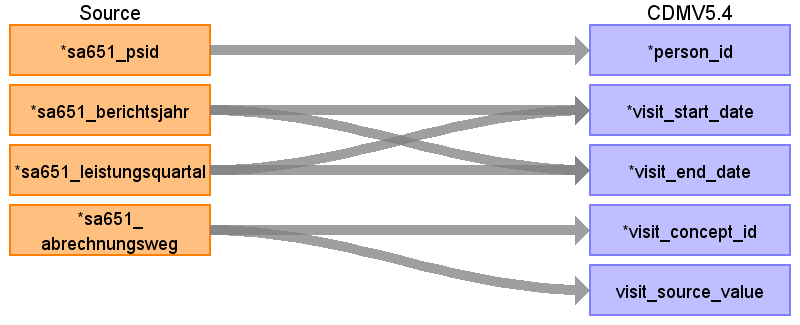
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa551\_psid |  | join on psid of person table |
| visit\_occurrence\_id |  |  | Needs to be generated |
| visit\_start\_date | sa551\_fallzaehler  sa551\_entlassungsmonat |  | 1st of discharge month + sa551\_fallzaheler  (to keep the order of cases)  Only year + month is given  Set to the 1st of the month |
| visit\_start\_datetime |  |  |  |
| visit\_end\_date | sa551\_entlassungsmonat |  | Assumption: Stays till the end of the discharge month (Entlassungsmonat)  Not given; only year  Blood purification should take less than one day, but we do not know how many blood purification where done (only if at least one) |
| visit\_end\_datetime |  |  |  |
| visit\_concept\_id | sa551\_artbehandlung |  | 1 => 9201 Inpatient Visit  2 =>38004207 Ambulatory Clinic / Center  3 => 8756 Outpatient Hospital  0 => otherwise 0 |
| visit\_source\_value | sa551\_artbehandlung |  |  |
| visit\_source\_concept\_id |  |  |  |
| visit\_type\_concept\_id |  |  | 32810 Claim |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| admitted\_from\_concept\_id |  |  |  |
| admitted\_from\_source\_value |  |  |  |
| discharged\_to\_concept\_id |  |  |  |
| discharged\_to\_source\_value |  |  |  |
| preceding\_visit\_occurrence\_id |  |  |  |

Reading from v2010sa651

Ambulante Diagnosen (Outpatient diagnosis) to visit occurrence

- visit duration

- visit concept (outpatient, outpatient hospital ...)



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa651\_psid |  |  |
| visit\_occurrence\_id |  |  | Needs to be generated |
| visit\_start\_date | sa651\_leistungsquartal  sa651\_berichtsjahr |  | 1st day and 1st month of the quartal |
| visit\_start\_datetime |  |  |  |
| visit\_end\_date | sa651\_leistungsquartal  sa651\_berichtsjahr |  | 1st day and 1st month of the quartal.  Assume that it takes less than one day since it is an outpatient visit.  Not given; only year  Blood purification should take less than one day, but we do not know how many blood purifications where done (only if at least one) |
| visit\_end\_datetime |  |  |  |
| visit\_concept\_id | sa651\_abrechnungsweg |  | 1 = Diagnose gem. § 295 SGB V => 9202 Outpatient Visit  2 = Diagnose aus ambulanter Behandlung  im Krankenhaus => 8756 Outpatient Hospital  3 = sonstiges => 0 |
| visit\_source\_value | sa651\_abrechnungsweg |  |  |
| visit\_source\_concept\_id |  |  |  |
| visit\_type\_concept\_id |  |  | 32810 Claim |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| admitted\_from\_concept\_id |  |  |  |
| admitted\_from\_source\_value |  |  |  |
| discharged\_to\_concept\_id |  |  |  |
| discharged\_to\_source\_value |  |  |  |
| preceding\_visit\_occurrence\_id |  |  |  |

Table name: condition\_occurrence

Reading from v2010sa551

Stationäre Diagnosen (Inpatient diagnosis) to condition occurrence

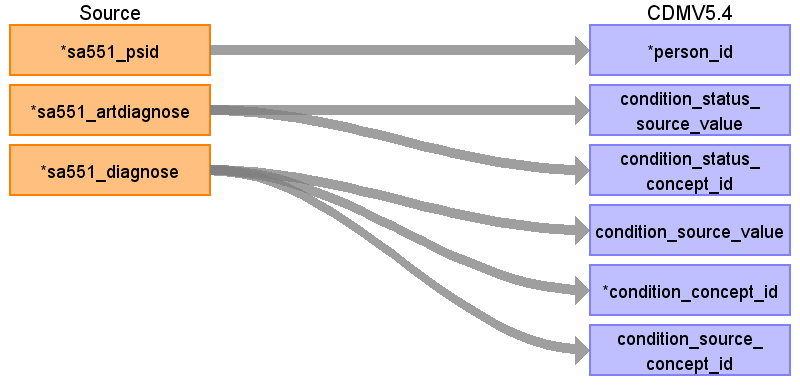
- visit date

- diagnosis

- conditions status (primary, secondary diagnosis)

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

WHERE diagnosis.domain\_id='Condition'



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa551\_psid |  | link person\_id by table visit\_occurrence |
| condition\_occurrence\_id |  |  | Generated |
| visit\_occurrence\_id |  |  | link visit\_occurrence\_id by table visit\_occurrence |
| condition\_start\_date |  |  | link condition\_start\_date by visit\_occurrence |
| condition\_start\_datetime |  |  |  |
| condition\_end\_date |  |  |  |
| condition\_end\_datetime |  |  |  |
| condition\_status\_source\_value | sa551\_artdiagnose |  |  |
| condition\_status\_concept\_id | sa551\_artdiagnose |  | 1 => 32902 Primary diagnosis  2 => 32908 Secondary diagnosis |
| condition\_type\_concept\_id |  |  | 32810 Claim |
| condition\_source\_value | sa551\_diagnose |  | Since diagnose has special characters we do not map it for now. A source\_concept with mapping to standard with special character should be done in the future.  We do not keep the localization |
| condition\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters  ICD10-GM to SNOMED |
| condition\_source\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| stop\_reason |  |  |  |
| provider\_id |  |  |  |
| visit\_detail\_id |  |  |  |

Reading from v2010sa651

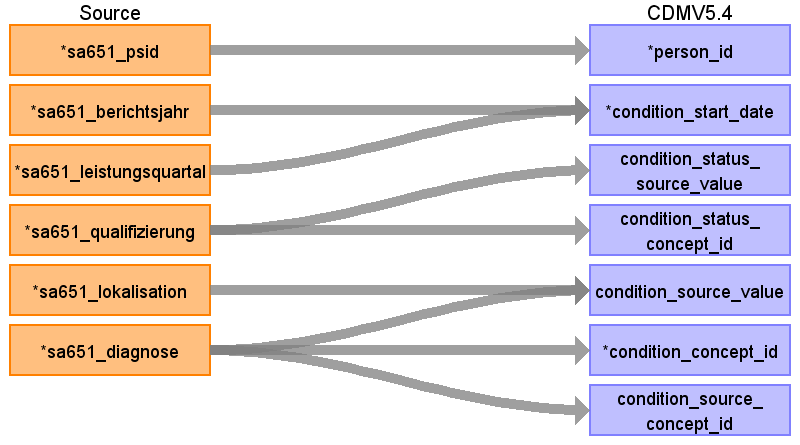
Ambulante Diagnosen (Outpatient diagnosis) to condition occurrence

- visit date

- diagnosis

- conditions status (preliminary, confirmed, .. )

WHERE qualifizierung != 'A'; AND domain\_id='Condition'



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa651\_psid |  |  |
| condition\_occurrence\_id |  |  | Needs to be generated |
| visit\_occurrence\_id |  |  | link visit\_occurrence\_id by table visit\_occurrence |
| condition\_start\_date | sa651\_leistungsquartal  sa651\_berichtsjahr |  | 1st day and 1st month  link condition\_start\_date by visit\_occurrence |
| condition\_start\_datetime |  |  |  |
| condition\_end\_date |  |  |  |
| condition\_end\_datetime |  |  |  |
| condition\_status\_source\_value | sa651\_qualifizierung |  |  |
| condition\_status\_concept\_id | sa651\_qualifizierung |  | V = Verdachtsdiagnose => 32899 Preliminary diagnosis  Z = Zustand nach betreffender Diagnose => 32906 Resolved condition  G = gesicherte Diagnose => 32893 Confirmed diagnosis  0 = sonst  A = ausgeschlossene Diagnose => excluded here! |
| condition\_type\_concept\_id |  |  | 32810 Claim |
| condition\_source\_value | sa651\_diagnose  sa651\_lokalisation |  | Since diagnose has special characters we do not map it for now. A source\_concept with mapping to standard with special character should be done in the future. |
| condition\_concept\_id | sa651\_diagnose |  | Special characters need to be removed  ICD10-GM to SNOMED |
| condition\_source\_concept\_id | sa651\_diagnose |  | Special characters need to be removed |
| stop\_reason |  |  |  |
| provider\_id |  |  |  |
| visit\_detail\_id |  |  |  |

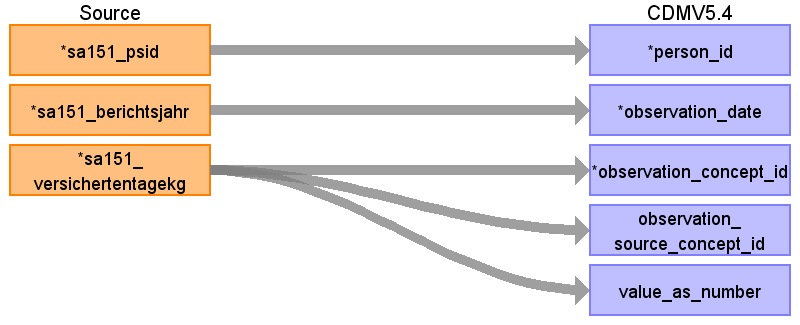
Table name: observation

Reading from v2010sa151

Versichertenstammdaten 151 (Masta data) to observation

- observation date

- insured days because of taking care of child to observation\_concept\_id, value\_as\_number, observation\_source\_value



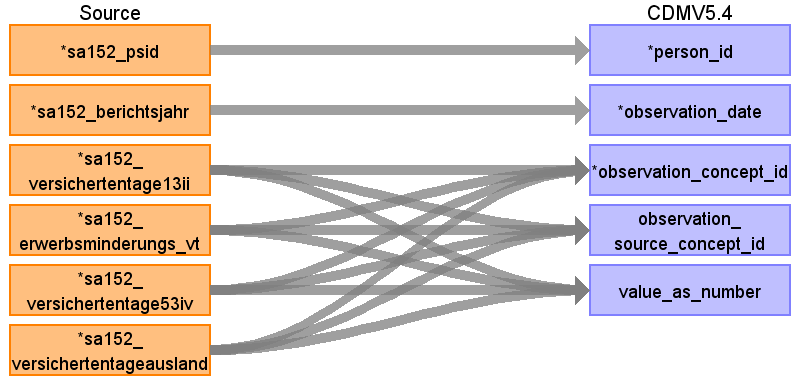
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  | Needs to be generated |
| person\_id | sa151\_psid |  |  |
| observation\_date | sa151\_berichtsjahr |  | Not given, set to first day of the year. |
| observation\_concept\_id | sa151\_versichertentagekg |  | concept\_id 0 |
| observation\_source\_concept\_id | sa151\_versichertentagekg |  | Custom concept: Versichertentage mit allgemeinem Anspruch auf Krankengeld gemäß § 30 Abs. 1 Nr. 11 RSAV |
| observation\_source\_value |  |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  |  | 32810 Claim |
| value\_as\_number | sa151\_versichertentagekg |  | Number of days |
| value\_source\_value |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |
| observation\_event\_id |  |  |  |
| obs\_event\_field\_concept\_id |  |  |  |

Reading from v2010sa152

Versichertenstammdaten 152 (Masta data) to observation

- observation date

- insured days by category (e.g. days abroad) to observation\_concept\_id, value\_as\_number, observation\_source\_value



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  | Generated |
| person\_id | sa152\_psid |  |  |
| observation\_date | sa152\_berichtsjahr |  | Not given, set to first day of the year. |
| observation\_concept\_id | sa152\_erwerbsminderungs\_vt  sa152\_versichertentageausland  sa152\_versichertentage13ii  sa152\_versichertentage53iv |  | concept\_id 0  concept\_id 0  concept\_id 0  concept\_id 0 |
| observation\_source\_concept\_id | sa152\_erwerbsminderungs\_vt  sa152\_versichertentage13ii  sa152\_versichertentage53iv  sa152\_versichertentageausland |  | Custom concept  Custom concept  Custom concept  Custom concept |
| observation\_source\_value |  |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  |  | 32810 Claim |
| value\_as\_number | sa152\_versichertentage13ii  sa152\_erwerbsminderungs\_vt  sa152\_versichertentage53iv  sa152\_versichertentageausland |  |  |
| value\_source\_value |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |
| observation\_event\_id |  |  |  |
| obs\_event\_field\_concept\_id |  |  |  |

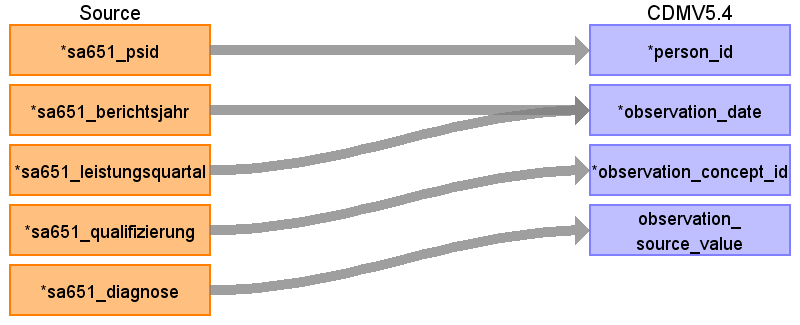
Reading from v2010sa651

1st script

Ambulante Diagnosen (Outpatient diagnosis) to observation of excluded diagnosis

- observation date

- excluded diagnosis



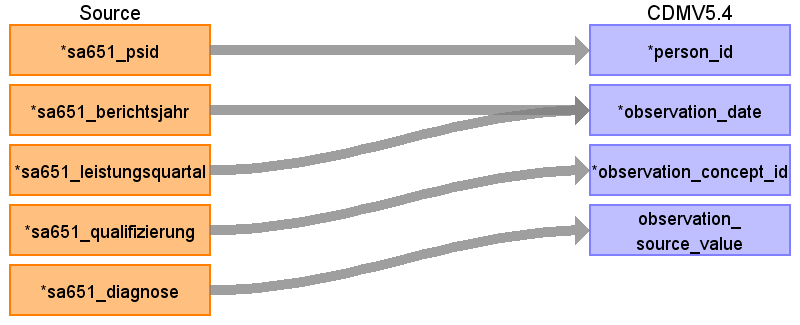
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  | Generated |
| person\_id | sa651\_psid |  |  |
| observation\_date | sa651\_leistungsquartal  sa651\_berichtsjahr |  | 1st day of the 1st month of the quarter |
| observation\_concept\_id | sa651\_qualifizierung |  | Only if == A  Disorder excluded  4199812 |
| observation\_source\_concept\_id |  |  |  |
| observation\_source\_value | sa651\_diagnose |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  |  | 32810 Claim |
| value\_as\_number |  |  |  |
| value\_source\_value |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |
| observation\_event\_id |  |  |  |
| obs\_event\_field\_concept\_id |  |  |  |

Reading from v2010sa651

2nd script

diagnosis WHERE domain\_id='Observation' and qualifizierung != 'A'

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

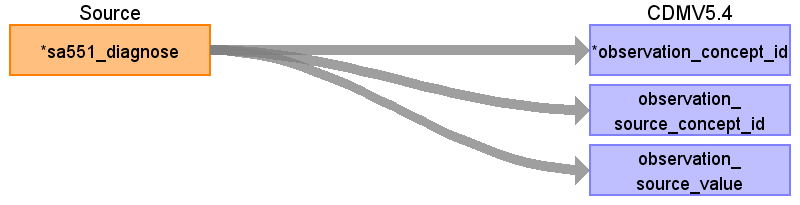


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  | Generated |
| person\_id |  |  |  |
| observation\_date |  |  |  |
| observation\_concept\_id | sa651\_diagnose |  | get by materialized view; remove special characters |
| observation\_source\_concept\_id | sa651\_diagnose |  | get by materialized view; remove special characters |
| observation\_source\_value | sa651\_diagnose |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  |  | 32810 Claim |
| value\_as\_number |  |  |  |
| value\_source\_value |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |
| observation\_event\_id |  |  |  |
| obs\_event\_field\_concept\_id |  |  |  |

Reading from v2010sa551

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

WHERE diagnosis.domain\_id='Observation'



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id |  |  | Generated |
| person\_id |  |  |  |
| observation\_date |  |  |  |
| observation\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| observation\_source\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| observation\_source\_value | sa551\_diagnose |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id |  |  | 32810 Claim |
| value\_as\_number |  |  |  |
| value\_source\_value |  |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value |  |  |  |
| observation\_event\_id |  |  |  |
| obs\_event\_field\_concept\_id |  |  |  |

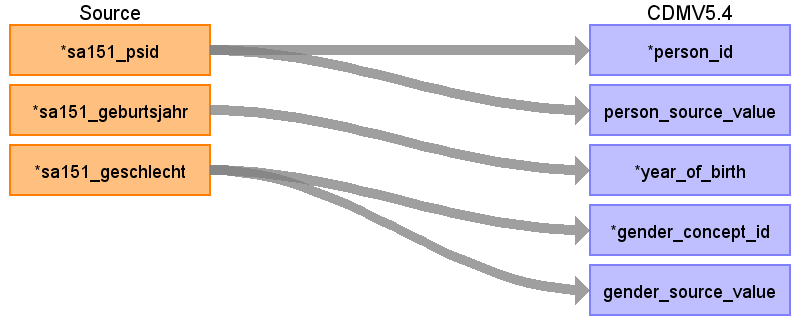
Table name: person

Reading from v2010sa151

Versichertenstammdaten 151 (Masta data) to person

- gender

- year of birth



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa151\_psid |  | generate |
| person\_source\_value | sa151\_psid |  | psid as source person\_source\_value |
| year\_of\_birth | sa151\_geburtsjahr |  |  |
| gender\_concept\_id | sa151\_geschlecht |  | 1 => 8532 FEMALE  2 => 8507 MALE |
| month\_of\_birth |  |  |  |
| day\_of\_birth |  |  |  |
| location\_id |  |  | look up in the location table |
| birth\_datetime |  |  |  |
| race\_concept\_id |  |  | set to 0 (not given) |
| ethnicity\_concept\_id |  |  | set to 0 (not given) |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| gender\_source\_value | sa151\_geschlecht |  |  |
| gender\_source\_concept\_id |  |  |  |
| race\_source\_value |  |  |  |
| race\_source\_concept\_id |  |  |  |
| ethnicity\_source\_value |  |  |  |
| ethnicity\_source\_concept\_id |  |  |  |

Reading from v2010sa999

SA999 - Amtlicher Gemeindeschlüssel to person

- Gemeindeschluessel to location\_id



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  |  |
| person\_source\_value | sa999\_psid |  | join sa151 and sa999 to table person on psid |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| month\_of\_birth |  |  |  |
| day\_of\_birth |  |  |  |
| location\_id | sa999\_gs |  | look up in the location table |
| birth\_datetime |  |  |  |
| race\_concept\_id |  |  | set to 0 (not given) |
| ethnicity\_concept\_id |  |  | set to 0 (not given) |
| provider\_id |  |  |  |
| care\_site\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |
| race\_source\_value |  |  |  |
| race\_source\_concept\_id |  |  |  |
| ethnicity\_source\_value |  |  |  |
| ethnicity\_source\_concept\_id |  |  |  |

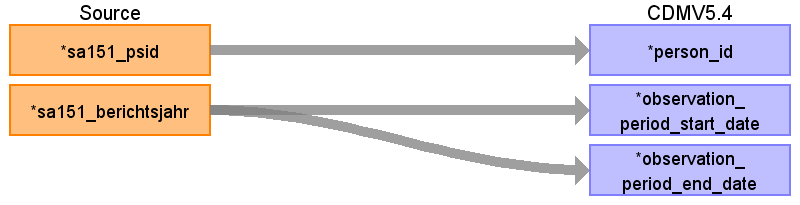
Table name: observation\_period

Reading from v2010sa151

Versichertenstammdaten 151 (Masta data) to observation\_period:

- distinct on psid

- Assumption: period whole year



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa151\_psid |  |  |
| observation\_period\_id |  |  | Needs to be generated |
| observation\_period\_start\_date | sa151\_berichtsjahr |  | 1st January of berichtsjahr |
| observation\_period\_end\_date | sa151\_berichtsjahr |  | Set to 31st of december |
| period\_type\_concept\_id |  |  | 32810 Claim |

Table name: death

Versichertenstammdaten 151 (Masta data) to death:

- death

Reading from v2010sa151

Versichertenstammdaten 151 (Masta data) to death:

- if death, year of death



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | sa151\_psid |  |  |
| death\_date | sa151\_berichtsjahr  sa151\_verstorben |  | If quals 1 then last day of the year.  No date given, only if person is dead. |
| death\_datetime |  |  |  |
| death\_type\_concept\_id |  |  | 32810 Claim |
| cause\_concept\_id |  |  |  |
| cause\_source\_value |  |  |  |
| cause\_source\_concept\_id |  |  |  |

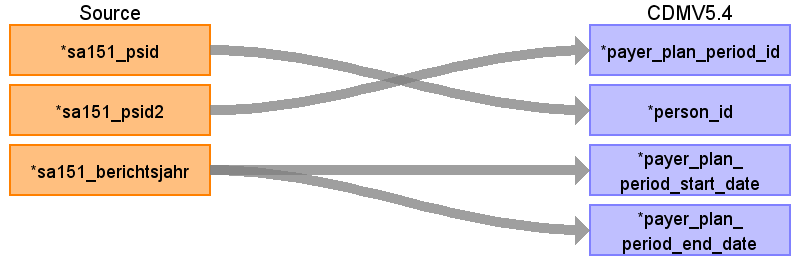
Table name: payer\_plan\_period

Reading from v2010sa151

Versichertenstammdaten 151 (Masta data) to payer\_plan\_period:

- distinct on psid2

- assumption: duration whole year

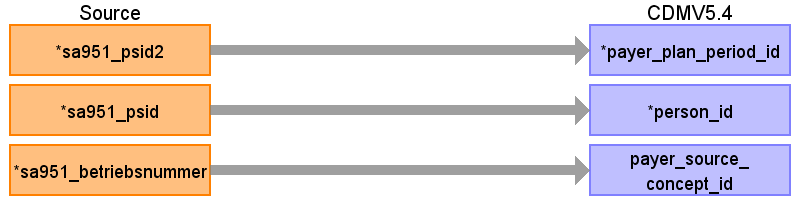


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| payer\_plan\_period\_id | sa151\_psid2 |  |  |
| person\_id | sa151\_psid |  |  |
| payer\_plan\_period\_start\_date | sa151\_berichtsjahr |  | Start on 1st January. Note, if a insured person switched insurance, the person will have two periods with the duration of exactly one year.  This assumption is made because of several reasons:  -It is not possible to apply for data separated by psid2.  -Since we would need to check several tables to identify which insurance started first.  - If a person does not have any diagnosis we would either miss the person or could not say which insurance was first.  - If there exists a diagnosis/procedure/drug\_exposure we kept the order in the according table  Given by 151sa |
| payer\_plan\_period\_end\_date | sa151\_berichtsjahr |  | Assumption: 31st of December |
| payer\_concept\_id |  |  |  |
| payer\_source\_concept\_id |  |  |  |
| payer\_source\_value |  |  |  |
| plan\_concept\_id |  |  |  |
| plan\_source\_value |  |  |  |
| plan\_source\_concept\_id |  |  |  |
| sponsor\_concept\_id |  |  |  |
| sponsor\_source\_value |  |  |  |
| sponsor\_source\_concept\_id |  |  |  |
| family\_source\_value |  |  |  |
| stop\_reason\_concept\_id |  |  |  |
| stop\_reason\_source\_value |  |  |  |
| stop\_reason\_source\_concept\_id |  |  |  |

Reading from v2010sa951

SA951 - Krankenkassenzugehörigkeit (Insurance membership) to payer\_plan\_period:

- Betriebsnummer as payer\_concept\_id



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| payer\_plan\_period\_id | sa951\_psid2 |  |  |
| person\_id | sa951\_psid |  |  |
| payer\_plan\_period\_start\_date |  |  | Given by 151sa |
| payer\_plan\_period\_end\_date |  |  | Assumption: 31st of December |
| payer\_concept\_id |  |  |  |
| payer\_source\_concept\_id | sa951\_betriebsnummer |  |  |
| payer\_source\_value |  |  |  |
| plan\_concept\_id |  |  |  |
| plan\_source\_value |  |  |  |
| plan\_source\_concept\_id |  |  |  |
| sponsor\_concept\_id |  |  |  |
| sponsor\_source\_value |  |  |  |
| sponsor\_source\_concept\_id |  |  |  |
| family\_source\_value |  |  |  |
| stop\_reason\_concept\_id |  |  |  |
| stop\_reason\_source\_value |  |  |  |
| stop\_reason\_source\_concept\_id |  |  |  |

Table name: drug\_exposure

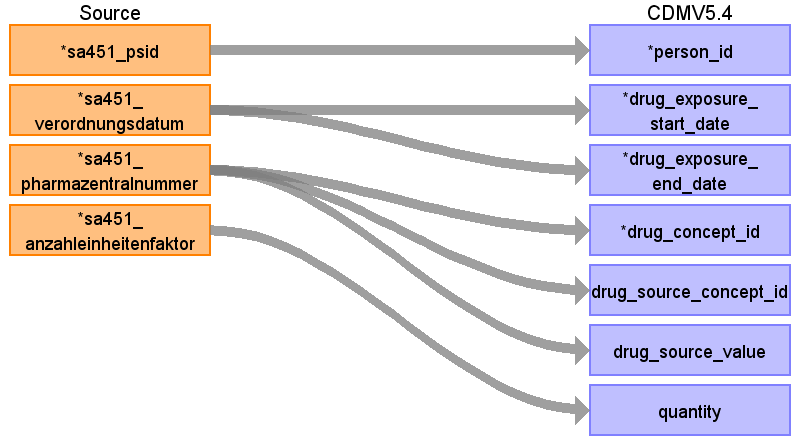
Reading from v2010sa451

Ambulante Arzneimittel (ambulatory drugs) to drug\_exposure:

- Verordnungsdatum as start\_date

- PZN to drug\_concept\_id (no mapping yet)

- anzahleneiniheitsfaktor to quantity

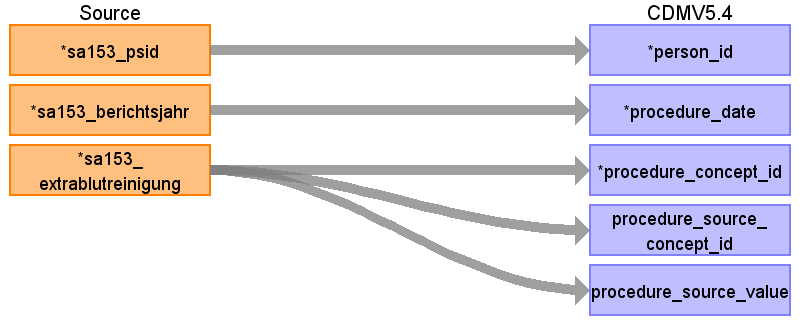


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| drug\_exposure\_id |  |  | Needs to be generated |
| visit\_detail\_id |  |  |  |
| person\_id | sa451\_psid |  |  |
| drug\_exposure\_start\_date | sa451\_verordnungsdatum |  |  |
| drug\_exposure\_end\_date | sa451\_verordnungsdatum |  | drug\_exposure\_end\_date + 7 days |
| drug\_concept\_id | sa451\_pharmazentralnummer |  | PZN to RxNorm not provided -> concept\_id 0 |
| drug\_source\_concept\_id | sa451\_pharmazentralnummer |  | PZN not provided as source concept -> concept\_id 0 |
| drug\_source\_value | sa451\_pharmazentralnummer |  |  |
| drug\_type\_concept\_id |  |  | 32810 Claim |
| quantity | sa451\_anzahleinheitenfaktor |  |  |
| dose\_unit\_source\_value |  |  |  |
| visit\_occurrence\_id |  |  |  |
| drug\_exposure\_start\_datetime |  |  |  |
| drug\_exposure\_end\_datetime |  |  |  |
| verbatim\_end\_date |  |  |  |
| stop\_reason |  |  |  |
| refills |  |  |  |
| days\_supply |  |  |  |
| sig |  |  |  |
| route\_concept\_id |  |  |  |
| lot\_number |  |  |  |
| provider\_id |  |  |  |
| route\_source\_value |  |  |  |

Table name: procedure\_occurrence

Reading from v2010sa153

SA153 - Extrakorporale Blutreinigung to procedure\_occurrence

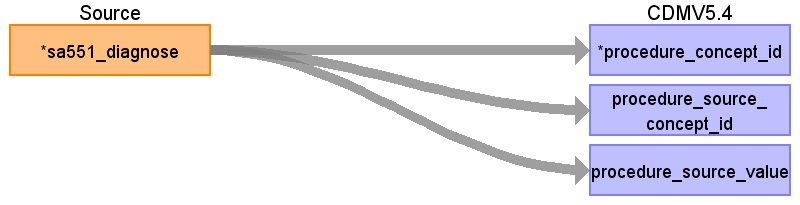


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_occurrence\_id |  |  | Generated |
| visit\_detail\_id |  |  |  |
| person\_id | sa153\_psid |  | by joining with person table on psid |
| procedure\_date | sa153\_berichtsjahr |  | Only year is known. Set to the 1st of January |
| visit\_occurrence\_id |  |  | Visit\_occurrence\_id will be created in table visit\_occurrence. Need to be linked here |
| procedure\_concept\_id | sa153\_extrablutreinigung |  | 4032243 SNOMED |
| procedure\_source\_concept\_id | sa153\_extrablutreinigung |  | 37097686 |
| procedure\_source\_value | sa153\_extrablutreinigung |  | ICD10GM Z49.1  Z49.1 |
| procedure\_datetime |  |  |  |
| procedure\_end\_date |  |  |  |
| procedure\_end\_datetime |  |  |  |
| procedure\_type\_concept\_id |  |  | 32810 Claim |
| modifier\_concept\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| modifier\_source\_value |  |  |  |

Reading from v2010sa551

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

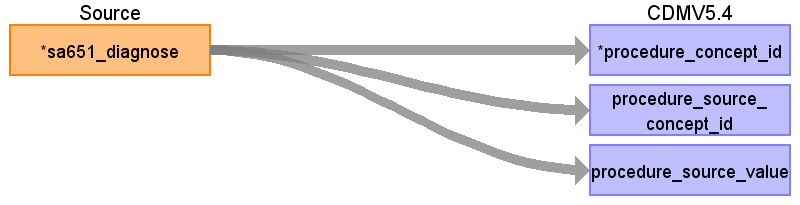
WHERE diagnosis.domain\_id='Procedure' and qualifizierung != 'A'



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_occurrence\_id |  |  | Generated |
| visit\_detail\_id |  |  |  |
| person\_id |  |  |  |
| procedure\_date |  |  |  |
| visit\_occurrence\_id |  |  | Visit\_occurrence\_id will be created in table visit\_occurrence. Need to be linked here |
| procedure\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| procedure\_source\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| procedure\_source\_value | sa551\_diagnose |  | Z49.1 |
| procedure\_datetime |  |  |  |
| procedure\_end\_date |  |  |  |
| procedure\_end\_datetime |  |  |  |
| procedure\_type\_concept\_id |  |  | 32810 Claim |
| modifier\_concept\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| modifier\_source\_value |  |  |  |

Reading from v2010sa651

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_occurrence\_id |  |  | Generated |
| visit\_detail\_id |  |  |  |
| person\_id |  |  |  |
| procedure\_date |  |  |  |
| visit\_occurrence\_id |  |  | Visit\_occurrence\_id will be created in table visit\_occurrence. Need to be linked here |
| procedure\_concept\_id | sa651\_diagnose |  | get by materialized view; remove special characters |
| procedure\_source\_concept\_id | sa651\_diagnose |  | get by materialized view; remove special characters |
| procedure\_source\_value | sa651\_diagnose |  | Z49.1 |
| procedure\_datetime |  |  |  |
| procedure\_end\_date |  |  |  |
| procedure\_end\_datetime |  |  |  |
| procedure\_type\_concept\_id |  |  | 32810 Claim |
| modifier\_concept\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| modifier\_source\_value |  |  |  |

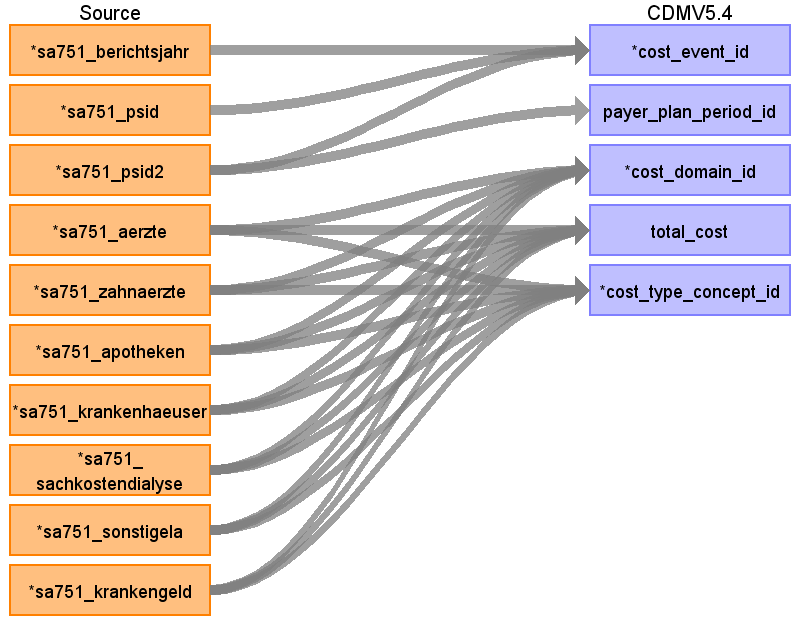
Table name: cost

Reading from v2010sa751

SA751 - Leistungsausgaben to cost

- costs

- and cost domain ( e.g. dental, pharmacy)



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| cost\_id |  |  | Need to be generated |
| cost\_event\_id | sa751\_psid2  sa751\_psid  sa751\_berichtsjahr |  | From payer\_plan\_period\_id? |
| payer\_plan\_period\_id | sa751\_psid2 |  |  |
| cost\_domain\_id | sa751\_aerzte  sa751\_zahnaerzte  sa751\_apotheken  sa751\_krankenhaeuser  sa751\_sonstigela  sa751\_sachkostendialyse  sa751\_krankengeld |  | Visit  Visit  Drug  Visit  Payer  Procedure  Payer  31985 Cost |
| total\_cost | sa751\_aerzte  sa751\_zahnaerzte  sa751\_apotheken  sa751\_krankenhaeuser  sa751\_sonstigela  sa751\_sachkostendialyse  sa751\_krankengeld |  |  |
| cost\_type\_concept\_id | sa751\_zahnaerzte  sa751\_aerzte  sa751\_krankenhaeuser  sa751\_sachkostendialyse  sa751\_krankengeld  sa751\_apotheken  sa751\_sonstigela |  | zahnaerzte => 32816 Dental claim  aerzte => 32871 Professional claim  krankenhaeuser => 32852 Hospital cost  sachkostendialyse => ?  krankengeld => ?  apotheken => 32869 Pharmacy claim  sonstigela => 0 |
| currency\_concept\_id |  |  |  |
| total\_charge |  |  |  |
| total\_paid |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_patient |  |  |  |
| paid\_patient\_copay |  |  |  |
| paid\_patient\_coinsurance |  |  |  |
| paid\_patient\_deductible |  |  |  |
| paid\_by\_primary |  |  |  |
| paid\_ingredient\_cost |  |  |  |
| paid\_dispensing\_fee |  |  |  |
| amount\_allowed |  |  |  |
| revenue\_code\_concept\_id |  |  |  |
| revenue\_code\_source\_value |  |  |  |
| drg\_concept\_id |  |  |  |
| drg\_source\_value |  |  |  |

Table name: location

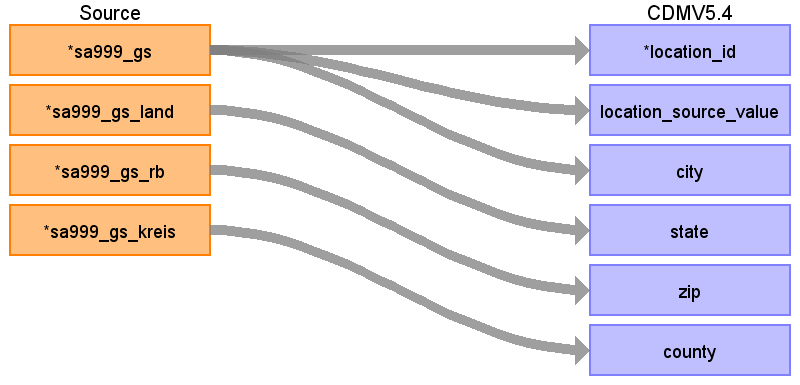
Reading from v2010sa999

Take unique sa999\_gs

SA999 - Amtlicher Gemeindeschlüssel to location

- Gemeindeschluessel to location\_id

- state, county, zip



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| location\_id | sa999\_gs |  |  |
| address\_1 |  |  |  |
| address\_2 |  |  |  |
| location\_source\_value | sa999\_gs |  |  |
| city | sa999\_gs |  |  |
| state | sa999\_gs\_land |  |  |
| zip | sa999\_gs\_rb |  |  |
| county | sa999\_gs\_kreis |  |  |
| country\_concept\_id |  |  |  |
| country\_source\_value |  |  |  |
| latitude |  |  |  |
| longitude |  |  |  |

Table name: visit\_detail

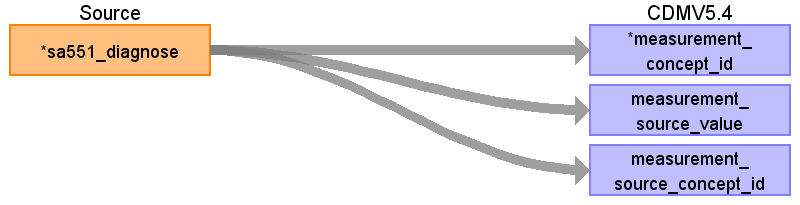
Table name: device\_exposure

Table name: measurement

Reading from v2010sa551

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

WHERE diagnosis.domain\_id='Measurement'

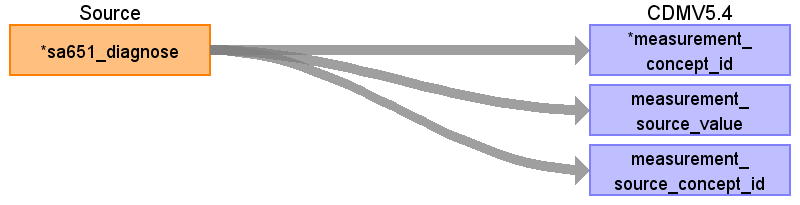


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| measurement\_id |  |  | generated |
| person\_id |  |  |  |
| measurement\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| measurement\_date |  |  |  |
| measurement\_datetime |  |  |  |
| measurement\_time |  |  |  |
| measurement\_type\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| range\_low |  |  |  |
| range\_high |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| measurement\_source\_value | sa551\_diagnose |  |  |
| measurement\_source\_concept\_id | sa551\_diagnose |  | get by materialized view; remove special characters |
| unit\_source\_value |  |  |  |
| unit\_source\_concept\_id |  |  |  |
| value\_source\_value |  |  |  |
| measurement\_event\_id |  |  |  |
| meas\_event\_field\_concept\_id |  |  |  |

Reading from v2010sa651

Linked with visit\_occurrence table to get information about visit\_occurrence\_id, dates, person\_id

WHERE diagnosis.domain\_id='Measurement' and qualifizierung != 'A'



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| measurement\_id |  |  | generated |
| person\_id |  |  |  |
| measurement\_concept\_id | sa651\_diagnose |  | get by materialized view; remove special characters |
| measurement\_date |  |  |  |
| measurement\_datetime |  |  |  |
| measurement\_time |  |  |  |
| measurement\_type\_concept\_id |  |  |  |
| operator\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| range\_low |  |  |  |
| range\_high |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| visit\_detail\_id |  |  |  |
| measurement\_source\_value | sa651\_diagnose |  | get by materialized view; remove special characters |
| measurement\_source\_concept\_id | sa651\_diagnose |  |  |
| unit\_source\_value |  |  |  |
| unit\_source\_concept\_id |  |  |  |
| value\_source\_value |  |  |  |
| measurement\_event\_id |  |  |  |
| meas\_event\_field\_concept\_id |  |  |  |

Table name: note

Table name: note\_nlp

Table name: specimen

Table name: fact\_relationship

Table name: care\_site

Table name: provider

Table name: drug\_era

Table name: dose\_era

Table name: condition\_era

Table name: episode

Table name: episode\_event

Table name: metadata

Table name: cdm\_source

Table name: cohort

Table name: cohort\_definition

Appendix: source tables

Table: v2010sa551

Stationäre Diagnoses

Inpatient diagnosis

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa551\_psid | character |  |  |
| sa551\_psid2 | numeric |  |  |
| sa551\_fallzaehler | numeric | 1 | Start date is not known, only end date  Fallzaehler (case enumerator) gives the order of all happened cases |
| sa551\_berichtsjahr | numeric | 2009 |  |
| sa551\_entlassungsmonat | numeric | 200906 |  |
| sa551\_satzart | numeric | 551 |  |
| sa551\_artbehandlung | numeric | 3 |  |
| sa551\_artdiagnose | numeric | 2 |  |
| sa551\_ausgleichsjahr | numeric | 2010 |  |
| sa551\_lokalisation | numeric | 0 |  |
| sa551\_diagnose | character | Y65.4\* |  |
| sa551\_icd\_code | character varying | U1604 |  |
| sa551\_icd\_zusatz | character | + |  |

Table: v2010sa651

Ambulante Diagnosen

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa651\_ausgleichsjahr | numeric | 2010 |  |
| sa651\_psid | character |  |  |
| sa651\_berichtsjahr | numeric | 2009 |  |
| sa651\_leistungsquartal | numeric | 1 |  |
| sa651\_satzart | numeric | 651 |  |
| sa651\_qualifizierung | character | V |  |
| sa651\_psid2 | numeric |  |  |
| sa651\_abrechnungsweg | numeric | 1 |  |
| sa651\_lokalisation | numeric | 1 |  |
| sa651\_diagnose | character | G24.4 |  |
| sa651\_icd\_zusatz | character | \* |  |
| sa651\_icd\_code | character varying | P7707 |  |

Table: v2010sa152

Versichertenstammdaten

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa152\_satzart | numeric | 152 |  |
| sa152\_psid | character |  |  |
| sa152\_berichtsjahr | numeric | 2009 |  |
| sa152\_ausgleichsjahr | numeric | 2010 |  |
| sa152\_psid2 | numeric |  |  |
| sa152\_versichertentage13ii | numeric | 1 |  |
| sa152\_erwerbsminderungs\_vt | numeric | 1 |  |
| sa152\_versichertentage53iv | numeric | 2 |  |
| sa152\_versichertentageausland | numeric | 1 |  |
| sa152\_kv\_nr\_kennzeichen | numeric | 0 |  |

Table: v2010sa151

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa151\_psid | character |  |  |
| sa151\_psid2 | numeric |  |  |
| sa151\_berichtsjahr | numeric | 2010 |  |
| sa151\_versichertentage | numeric | 365 |  |
| sa151\_verstorben | numeric | 0 |  |
| sa151\_ausgleichsjahr | numeric | 2010 |  |
| sa151\_versichertentagekg | numeric | 4 |  |
| sa151\_kv\_nr\_kennzeichen | numeric | 0 |  |
| sa151\_satzart | numeric | 151 |  |
| sa151\_geburtsjahr | numeric | 1959 |  |
| sa151\_geschlecht | numeric | 2 |  |

Table: v2010sa951

Krankenkassenzugehörigkeit

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa951\_psid2 | numeric |  |  |
| sa951\_psid | character |  |  |
| sa951\_ausgleichsjahr | numeric | 2010 |  |
| sa951\_betriebsnummer | numeric | 2 |  |

Table: v2010sa451

Ambulante Arzneimittel

outpatient drugs

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa451\_psid2 | numeric |  |  |
| sa451\_satzart | numeric | 451 |  |
| sa451\_psid | character |  |  |
| sa451\_ausgleichsjahr | numeric | 2010 |  |
| sa451\_berichtsjahr | numeric | 2009 |  |
| sa451\_verordnungsdatum | numeric | 20090419 |  |
| sa451\_pharmazentralnummer | numeric |  |  |
| sa451\_anzahleinheitenfaktor | numeric | 951000 |  |

Table: v2010sa153

Extrakorporale Blutreinigung

Blood Purification

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa153\_satzart | numeric | 153 |  |
| sa153\_psid2 | numeric |  |  |
| sa153\_psid | character |  |  |
| sa153\_berichtsjahr | numeric | 2009 |  |
| sa153\_ausgleichsjahr | numeric | 2010 |  |
| sa153\_extrablutreinigung | numeric | 0 |  |
| sa153\_kv\_nr\_kennzeichen | numeric | 1 |  |

Table: v2010sa751

Leistungsausgaben

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa751\_satzart | numeric | 751 |  |
| sa751\_berichtsjahr | numeric | 2010 |  |
| sa751\_psid | character |  |  |
| sa751\_psid2 | numeric |  |  |
| sa751\_ausgleichsjahr | numeric | 2010 |  |
| sa751\_aerzte | numeric |  |  |
| sa751\_zahnaerzte | numeric |  |  |
| sa751\_apotheken | numeric |  |  |
| sa751\_krankenhaeuser | numeric | 198647 |  |
| sa751\_sachkostendialyse | numeric | -4838 |  |
| sa751\_sonstigela | numeric |  |  |
| sa751\_krankengeld | numeric | -1369 |  |

Table: v2010sa999

Amtlicher Gemeindeschlüssel

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| sa999\_psid | character |  |  |
| sa999\_satzart | numeric | 999 |  |
| sa999\_ausgleichsjahr | numeric | 2010 |  |
| sa999\_berichtsjahr | numeric | 2010 |  |
| sa999\_gs | numeric | 9892 |  |
| sa999\_gs\_land | numeric | 14 |  |
| sa999\_gs\_rb | numeric | 8 |  |
| sa999\_gs\_kreis | numeric | 60 |  |