Source Data Mapping Approach to CDMV5.3

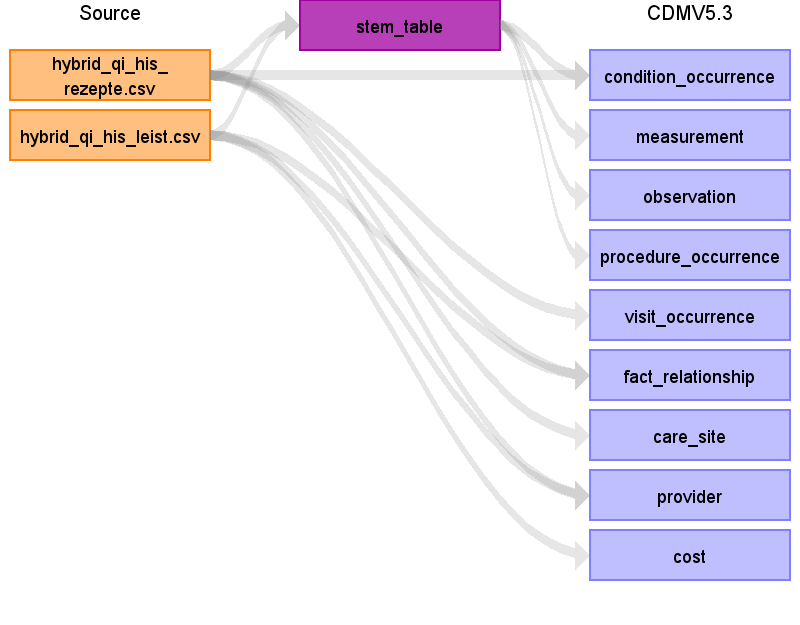


Table name: stem\_table

Reading from hybrid\_qi\_his\_rezepte.csv

- Aufsplittung der ICD-Codes in ICD\_LIST notwendig

-> Trennzeichen: Leerzeichen

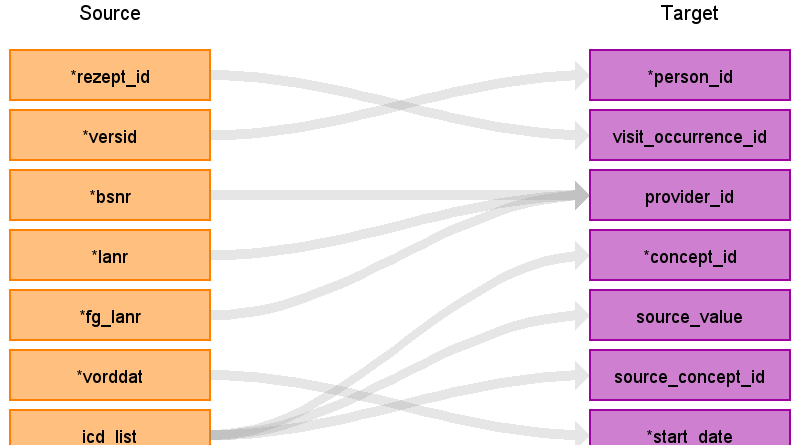
- Mapping von ICD\_LIST (je ICD-Code):

- Mapping von Nicht-Standard-Konzept (ICD\_LIST) zu Standard-Konzept vorhanden: Domäne von Standard-Konzept entscheidet

- Mapping von Nicht-Standard-Konzept (ICD\_LIST) zu Standard-Konzept nicht vorhanden oder Mapping von Nicht-Standard-Konzept (ICD\_LIST) zu Standard-Konzept invalide: Domäne von Nicht-Standard-Konzept entscheidet

- Mapping auf Nicht-Standard-Konzept nicht vorhanden: Condition-Domäne

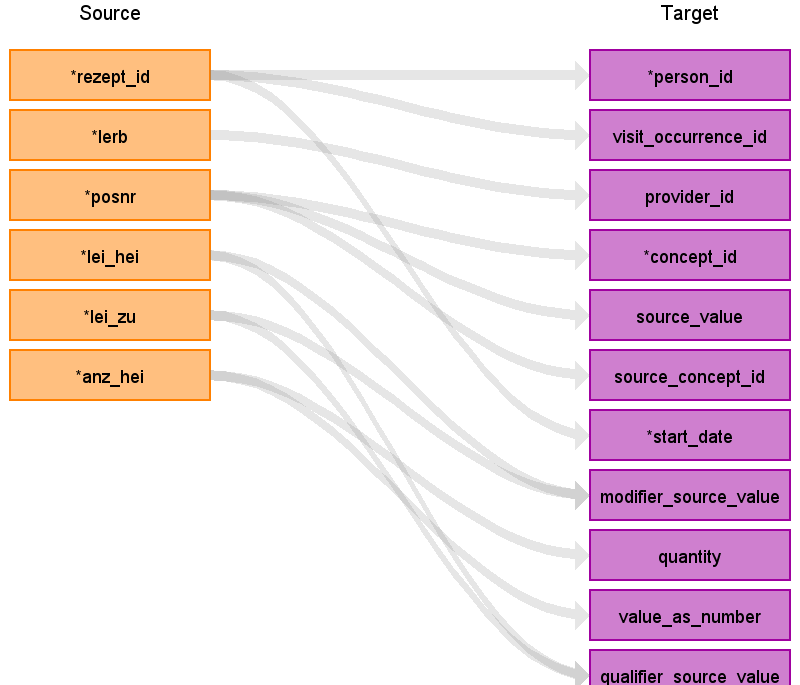
- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Condition.ktr



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | versid | - person\_id über Suche von VERSID in person.person\_source\_value | Beispiel:  GKV: 2042  OMOP: 1 |
| visit\_occurrence\_id | rezept\_id | - visit\_occurrence\_id über Suche von "his\_" + REZEPT\_ID in visit\_occurrence.visit\_source\_value | Beispiel:  GKV: 50  OMOP: 5 |
| visit\_detail\_id |  |  |  |
| provider\_id | bsnr  lanr  fg\_lanr | - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider  - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider  - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider | Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1 |
| id |  |  | automatisch erzeugt |
| concept\_id | icd\_list | - Mapping von ICD\_LIST zu concept\_id (Standard-Konzept) in icd10gm\_standard\_concat  - concept\_id = 0, wenn kein Standard-Konzept gefunden werden kann oder wenn Mapping von Nicht-Standard-Konzept auf Standard-Konzept invalide ist | Beispiel:  GKV: I8908  OMOP: 435839 |
| source\_value | icd\_list |  | Beispiel:  GKV: I8908  OMOP: I8908 |
| source\_concept\_id | icd\_list | - Mapping von ICD\_LIST zu concept\_id (Nicht-Standard-Konzept) in icd10gm\_standard\_concat  - concept\_id = 0, wenn kein Nicht-Standard-Konzept gefunden werden kann | Beispiel:  GKV: I8908  OMOP: 37084965 |
| type\_concept\_id |  |  | - concept\_id = 32810 (Claim) |
| start\_date | vorddat | - Formatierung notwendig | Beispiel:  GKV: 2016.01.28  OMOP: 2016-01-28 |
| start\_datetime |  |  |  |
| end\_date |  |  |  |
| end\_datetime |  |  |  |
| verbatim\_end\_date |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| modifier\_source\_value |  |  |  |
| operator\_concept\_id |  |  |  |
| 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 |  |  |  |
| condition\_status\_concept\_id |  |  |  |
| condition\_status\_source\_value |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value |  |  |  |
| measurement\_time |  |  |  |

Reading from hybrid\_qi\_his\_leist.csv

- Implementierung in gkv-to-omop/jobs/302\_HIS\_LEIST/HIS\_LEIST\_Heilmittel.ktr



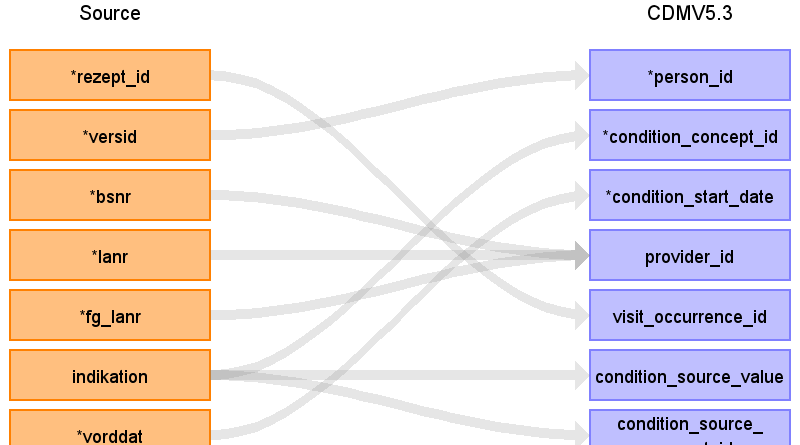
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_id |  |  |  |
| person\_id | rezept\_id | - person\_id über Suche von "his\_" + REZEPT\_ID in visit\_occurrence.visit\_source\_value | Beispiel:  GKV: 50  OMOP: 1 |
| visit\_occurrence\_id | rezept\_id | - visit\_occurrence\_id über Suche von "his\_" + REZEPT\_ID in visit\_occurrence.visit\_source\_value | Beispiel:  GKV: 50  OMOP: 5 |
| visit\_detail\_id |  |  |  |
| provider\_id | lerb | - provider\_id über Suche von LERB in provider.specialty\_source\_value, provider.specialty\_concept\_id = 0 und provider.specialty\_source\_concept\_id über Mapping von LERB zu concept\_id in concept über vocabulary\_id = "HPNR" AND domain\_id = "Provider" (concept\_id = 0, wenn kein Mapping gefunden wurde) | Beispiel:  GKV: 1  OMOP: 1 |
| id |  |  | automatisch erzeugt |
| concept\_id | posnr | - concept\_id = 0 |  |
| source\_value | posnr |  | Beispiel:  GKV: 1501  OMOP: 1501 |
| source\_concept\_id | posnr | - Mapping von POSNR zu concept\_id in concept über vocabulary\_id = "HPNR" | Beispiel:  GKV: 1501  OMOP: 2000000198 |
| type\_concept\_id |  |  | - concept\_id = 32810 (Claim) |
| start\_date | rezept\_id | - über Suche von "his\_" + REZEPT\_ID in visit\_occurrence.visit\_source\_value  -> visit\_start\_date | Beispiel:  GKV: 50  OMOP: 2016-01-28 |
| start\_datetime |  |  |  |
| end\_date |  |  |  |
| end\_datetime |  |  |  |
| verbatim\_end\_date |  |  |  |
| days\_supply |  |  |  |
| dose\_unit\_source\_value |  |  |  |
| lot\_number |  |  |  |
| modifier\_concept\_id |  |  |  |
| modifier\_source\_value | lei\_hei  lei\_zu | - modifier\_source\_value = "Heilmittelleistung", wenn LEI\_HEI = 1  - modifier\_source\_value = "Zusatzleistung", wenn LEI\_ZU = 1 |  |
| operator\_concept\_id |  |  |  |
| quantity | anz\_hei |  | Beispiel:  GKV: 5  OMOP: 5 |
| 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 | anz\_hei |  | Beispiel:  GKV: 5  OMOP: 5 |
| 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 |  |  |  |
| condition\_status\_concept\_id |  |  |  |
| condition\_status\_source\_value |  |  |  |
| qualifier\_concept\_id |  |  |  |
| qualifier\_source\_value | lei\_hei  lei\_zu | - qualifier\_source\_value = "Heilmittelleistung", wenn LEI\_HEI = 1  - qualifier\_source\_value = "Zusatzleistung", wenn LEI\_ZU = 1 |  |
| measurement\_time |  |  |  |

Table name: condition\_occurrence

Reading from hybrid\_qi\_his\_rezepte.csv

- Mapping von INDIKATION

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Indikation.ktr

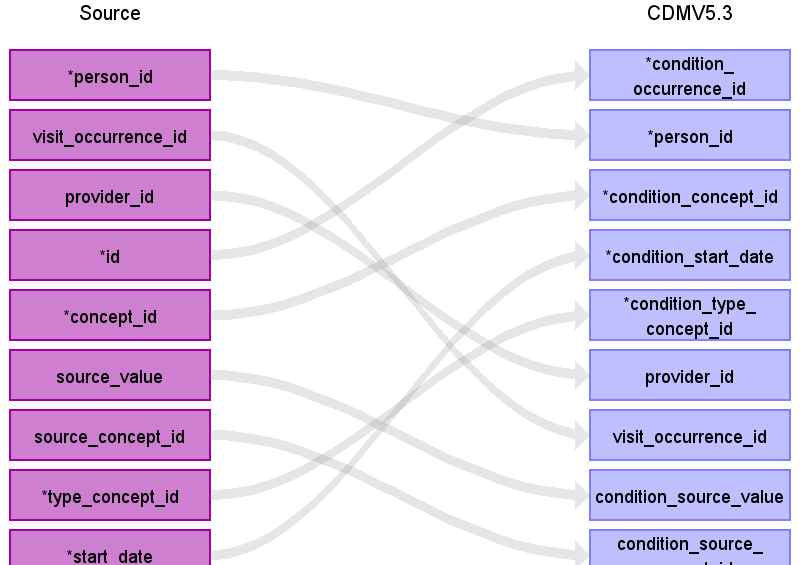


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id |  |  | automatisch erzeugt |
| person\_id | versid | - person\_id über Suche von VERSID in person.person\_source\_value | Beispiel:  GKV: 2042  OMOP: 1 |
| condition\_concept\_id | indikation | - concept\_id = 0 |  |
| condition\_start\_date | vorddat | - Formatierung notwendig | Beispiel:  GKV: 2016.01.28  OMOP: 2016-01-28 |
| condition\_start\_datetime |  |  |  |
| condition\_end\_date |  |  |  |
| condition\_end\_datetime |  |  |  |
| condition\_type\_concept\_id |  |  | - concept\_id = 32810 (Claim) |
| stop\_reason |  |  |  |
| provider\_id | bsnr  lanr  fg\_lanr | - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider  - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider  - provider\_id über Suche von BSNR, LANR und FG\_LANR in provider | Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1 |
| visit\_occurrence\_id | rezept\_id | - visit\_occurrence\_id über Suche von "his\_" + REZEPT\_ID in visit\_occurrence.visit\_source\_value | Beispiel:  GKV: 50  OMOP: 5 |
| visit\_detail\_id |  |  |  |
| condition\_source\_value | indikation |  | Beispiel:  GKV: CSA  OMOP: CSA |
| condition\_source\_concept\_id | indikation | - Mapping von INDIKATION zu concept\_id in concept über vocabulary\_id = "HMK" | Beispiel:  GKV: CSA  OMOP: 2000000836 |
| condition\_status\_source\_value |  |  |  |
| condition\_status\_concept\_id |  |  |  |

Reading from stem\_table

- Domäne = Condition

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Condition.ktr



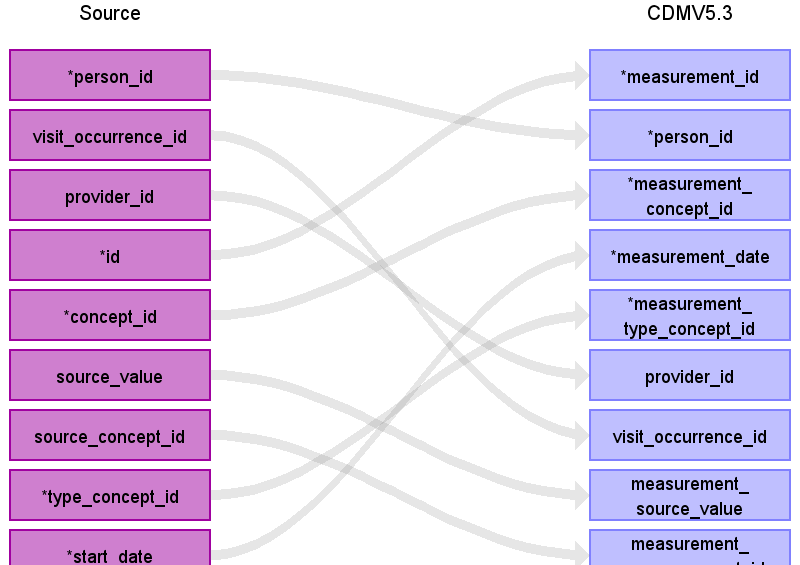
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id | id |  | automatisch erzeugt |
| person\_id | person\_id |  |  |
| condition\_concept\_id | concept\_id |  |  |
| condition\_start\_date | start\_date |  |  |
| condition\_start\_datetime |  |  |  |
| condition\_end\_date |  |  |  |
| condition\_end\_datetime |  |  |  |
| condition\_type\_concept\_id | type\_concept\_id |  | - concept\_id = 32810 (Claim) |
| stop\_reason |  |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| visit\_detail\_id |  |  |  |
| condition\_source\_value | source\_value |  |  |
| condition\_source\_concept\_id | source\_concept\_id |  |  |
| condition\_status\_source\_value |  |  |  |
| condition\_status\_concept\_id |  |  |  |

Table name: measurement

Reading from stem\_table

- Domäne = Measurement

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Condition.ktr



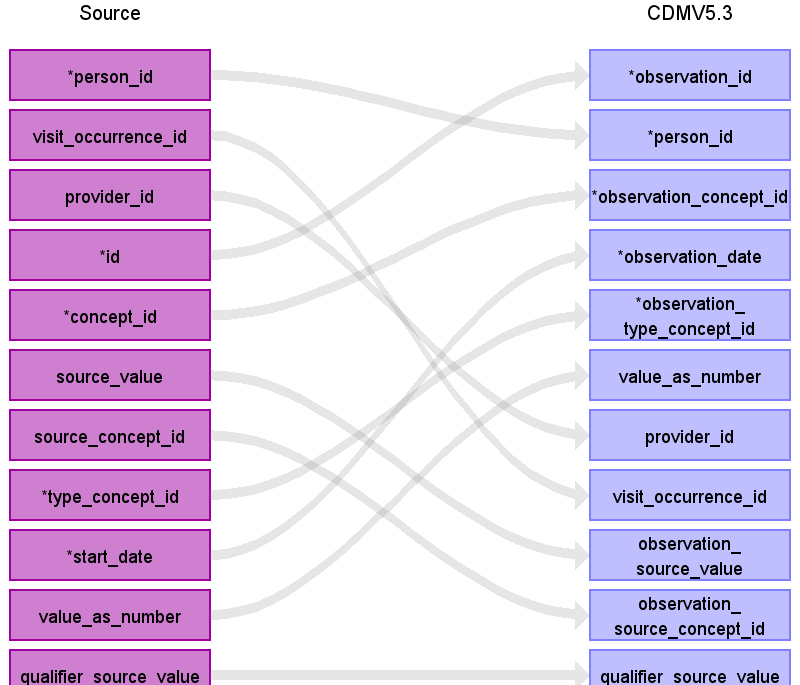
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| measurement\_id | id |  | automatisch erzeugt |
| person\_id | person\_id |  |  |
| measurement\_concept\_id | concept\_id |  |  |
| measurement\_date | start\_date |  |  |
| measurement\_datetime |  |  |  |
| measurement\_time |  |  |  |
| measurement\_type\_concept\_id | type\_concept\_id |  | - concept\_id = 32810 (Claim) |
| operator\_concept\_id |  |  |  |
| value\_as\_number |  |  |  |
| value\_as\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| range\_low |  |  |  |
| range\_high |  |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| visit\_detail\_id |  |  |  |
| measurement\_source\_value | source\_value |  |  |
| measurement\_source\_concept\_id | source\_concept\_id |  |  |
| unit\_source\_value |  |  |  |
| value\_source\_value |  |  |  |

Table name: observation

Reading from stem\_table

- Domäne = Observation

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Condition.ktr



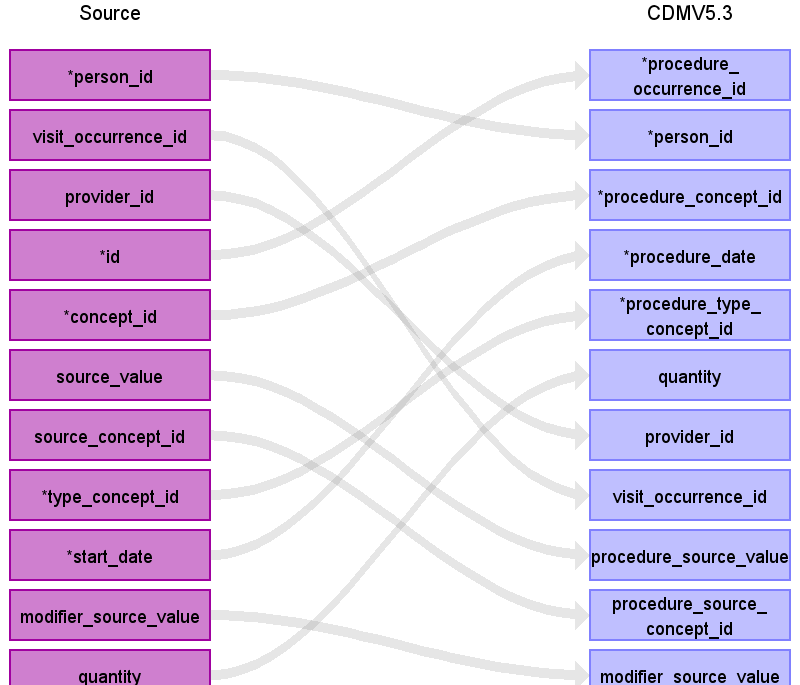
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| observation\_id | id |  | automatisch erzeugt |
| person\_id | person\_id |  |  |
| observation\_concept\_id | concept\_id |  |  |
| observation\_date | start\_date |  |  |
| observation\_datetime |  |  |  |
| observation\_type\_concept\_id | type\_concept\_id |  | - concept\_id = 32810 (Claim) |
| value\_as\_number | value\_as\_number |  |  |
| value\_as\_string |  |  |  |
| value\_as\_concept\_id |  |  |  |
| qualifier\_concept\_id |  |  |  |
| unit\_concept\_id |  |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| visit\_detail\_id |  |  |  |
| observation\_source\_value | source\_value |  |  |
| observation\_source\_concept\_id | source\_concept\_id |  |  |
| unit\_source\_value |  |  |  |
| qualifier\_source\_value | qualifier\_source\_value |  |  |

Table name: procedure\_occurrence

Reading from stem\_table

- Domäne = Procedure

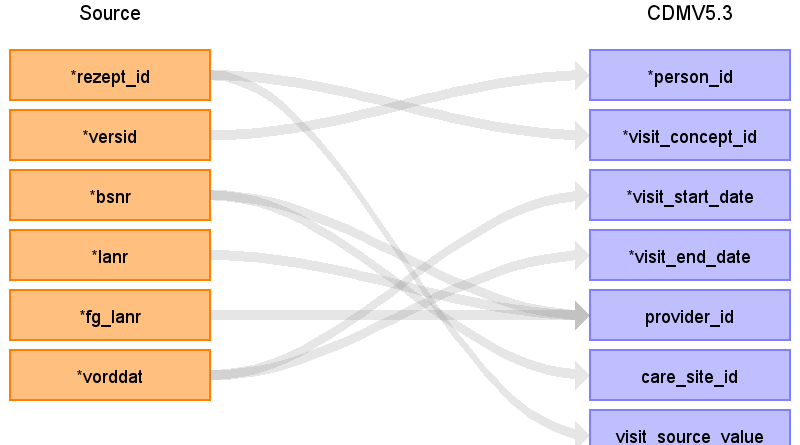
- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Condition.ktr



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_occurrence\_id | id |  | automatisch erzeugt |
| person\_id | person\_id |  |  |
| procedure\_concept\_id | concept\_id |  |  |
| procedure\_date | start\_date |  |  |
| procedure\_datetime |  |  |  |
| procedure\_type\_concept\_id | type\_concept\_id |  | - concept\_id = 32810 (Claim) |
| modifier\_concept\_id |  |  |  |
| quantity | quantity |  |  |
| provider\_id | provider\_id |  |  |
| visit\_occurrence\_id | visit\_occurrence\_id |  |  |
| visit\_detail\_id |  |  |  |
| procedure\_source\_value | source\_value |  |  |
| procedure\_source\_concept\_id | source\_concept\_id |  |  |
| modifier\_source\_value | modifier\_source\_value |  |  |

Table name: visit\_occurrence

Reading from hybrid\_qi\_his\_rezepte.csv



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_occurrence\_id |  |  | automatisch erzeugt |
| person\_id | versid | - person\_id über Suche von VERSID in person.person\_source\_value | Beispiel:  GKV: 2042  OMOP: 1 |
| visit\_concept\_id | rezept\_id | - concept\_id = 38004246 (Ambulatory Physical Therapy Clinic / Center) |  |
| visit\_start\_date | vorddat | - Formatierung notwendig | Beispiel:  GKV: 2016.01.28  OMOP: 2016-01-28 |
| visit\_start\_datetime |  |  |  |
| visit\_end\_date | vorddat | - Formatierung notwendig | Beispiel:  GKV: 2016.01.28  OMOP: 2016-01-28 |
| visit\_end\_datetime |  |  |  |
| visit\_type\_concept\_id |  |  | - concept\_id = 32810 (Claim) |
| provider\_id | bsnr  lanr  fg\_lanr | - provider\_id über Suche von BSNR, FG\_LANR und LANR in provider  - provider\_id über Suche von BSNR, FG\_LANR und LANR in provider  - provider\_id über Suche von BSNR, FG\_LANR und LANR in provider | Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1  Beispiel:  GKV: 19664, 9 und 25202  OMOP: 1 |
| care\_site\_id | bsnr | - care\_site\_id über Suche von BSNR in care\_site.care\_site\_source\_value | Beispiel:  GKV: 19664  OMOP: 2 |
| visit\_source\_value | rezept\_id | - Hinzufügen des Präfix "his\_" zur eindeutigen Zuordnung | Beispiel:  GKV: 50  OMOP: his\_50 |
| visit\_source\_concept\_id |  |  |  |
| admitting\_source\_concept\_id |  |  |  |
| admitting\_source\_value |  |  |  |
| discharge\_to\_concept\_id |  |  |  |
| discharge\_to\_source\_value |  |  |  |
| preceding\_visit\_occurrence\_id |  |  |  |

Table name: fact\_relationship

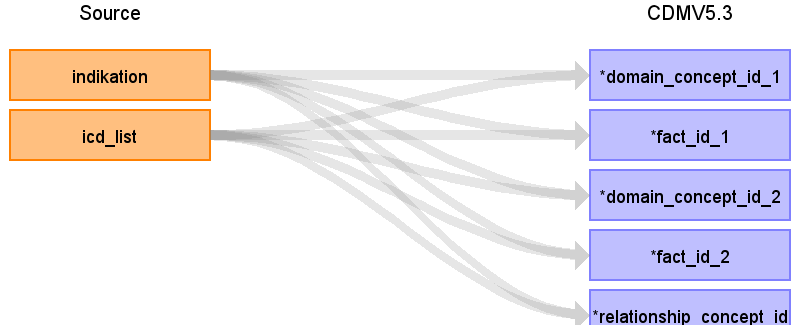
Reading from hybrid\_qi\_his\_rezepte.csv

- Verknüpfung von ICD\_LIST (Heilmittelrezept, je ICD-Code) mit POSNR (Heilmittelleistung)

- Verknüpfung von INDIKATION (Heilmittelrezept) mit POSNR (Heilmittelleistung)

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_SQL\_icd\_leist\_fact\_relationship.ktr (ICD\_LIST und POSNR)

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Indikation.ktr (INDIKATION und POSNR)



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_concept\_id\_1 | indikation  icd\_list | - Domäne von INDIKATION nutzen, wenn sich domain\_concept\_id\_2 auf Domäne der POSNR bezieht  - Domäne von ICD nutzen, wenn sich domain\_concept\_id\_2 auf Domäne der POSNR bezieht |  |
| fact\_id\_1 | indikation  icd\_list | - ID von INDIKATION nutzen, wenn sich fact\_id\_2 auf ID der POSNR bezieht  - ID von ICD nutzen, wenn sich fact\_id\_2 auf ID der POSNR bezieht |  |
| domain\_concept\_id\_2 | indikation  icd\_list | - Domäne von INDIKATION nutzen, wenn sich domain\_concept\_id\_1 auf Domäne der POSNR bezieht  - Domäne von ICD nutzen, wenn sich domain\_concept\_id\_1 auf Domäne der POSNR bezieht |  |
| fact\_id\_2 | indikation  icd\_list | - ID von INDIKATION nutzen, wenn sich fact\_id\_1 auf ID der POSNR bezieht  - ID von ICD nutzen, wenn sich fact\_id\_1 auf ID der POSNR bezieht |  |
| relationship\_concept\_id | indikation  icd\_list | - Beziehung INDIKATION -> POSNR: 44818784 (Has associated procedure (SNOMED))  - Beziehung POSNR -> INDIKATION: 44818882 (Associated procedure of (SNOMED))  - Beziehung ICD -> POSNR: 44818784 (Has associated procedure (SNOMED))  - Beziehung POSNR -> ICD: 44818882 (Associated procedure of (SNOMED)) |  |

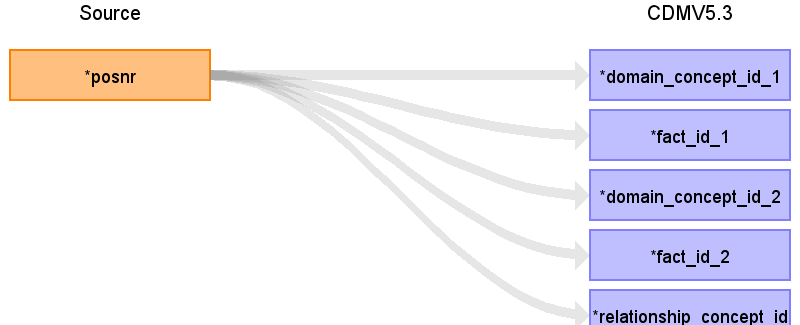
Reading from hybrid\_qi\_his\_leist.csv

- Verknüpfung von ICD\_LIST (Heilmittelrezept, je ICD-Code) mit POSNR (Heilmittelleistung)

- Verknüpfung von INDIKATION (Heilmittelrezept) mit POSNR (Heilmittelleistung)

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_SQL\_icd\_leist\_fact\_relationship.ktr (ICD\_LIST und POSNR)

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_Indikation.ktr (INDIKATION und POSNR)



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| domain\_concept\_id\_1 | posnr | - Domäne von POSNR nutzen, wenn sich domain\_concept\_id\_2 auf Domäne der INDIKATION oder des ICD bezieht |  |
| fact\_id\_1 | posnr | - ID von POSNR nutzen, wenn sich fact\_id\_2 auf ID der INDIKATION oder ICD bezieht |  |
| domain\_concept\_id\_2 | posnr | - Domäne von POSNR nutzen, wenn sich domain\_concept\_id\_1 auf Domäne der INDIKATION oder des ICD bezieht |  |
| fact\_id\_2 | posnr | - ID von POSNR nutzen, wenn sich fact\_id\_1 auf ID der INDIKATION oder ICD bezieht |  |
| relationship\_concept\_id | posnr | - Beziehung ICD -> POSNR: 44818784 (Has associated procedure (SNOMED))  - Beziehung POSNR -> ICD: 44818882 (Associated procedure of (SNOMED))  - Beziehung INDIKATION -> POSNR: 44818784 (Has associated procedure (SNOMED))  - Beziehung POSNR -> INDIKATION: 44818882 (Associated procedure of (SNOMED)) |  |

Table name: care\_site

Reading from hybrid\_qi\_his\_rezepte.csv

- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_care\_site.ktr

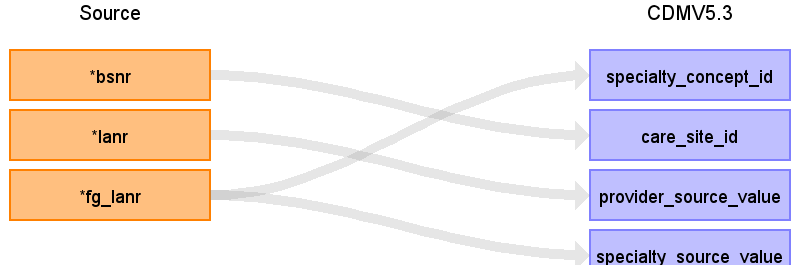


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| care\_site\_id |  |  | automatisch erzeugt |
| care\_site\_name |  |  |  |
| place\_of\_service\_concept\_id |  |  |  |
| location\_id |  |  |  |
| care\_site\_source\_value | bsnr |  | Beispiel:  GKV: 19664  OMOP: 19664 |
| place\_of\_service\_source\_value |  |  |  |

Table name: provider

Reading from hybrid\_qi\_his\_rezepte.csv

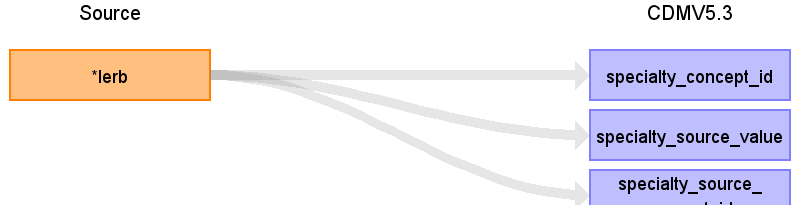
- Implementierung in gkv-to-omop/jobs/302\_HIS\_REZEPTE/HIS\_REZEPTE\_provider.ktr



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id |  |  | automatisch erzeugt |
| provider\_name |  |  |  |
| npi |  |  |  |
| dea |  |  |  |
| specialty\_concept\_id | fg\_lanr | - Mapping von FG\_LANR zu concept\_id in source\_to\_concept\_map über source\_vocabulary\_id = "Provider Specialty"  -> concept\_id = 0, wenn kein Mapping gefunden wurde | Beispiel:  GKV: 9  OMOP: 45756819 |
| care\_site\_id | bsnr | - care\_site\_id über Suche von BSNR in care\_site.care\_site\_source\_value | Beispiel:  GKV: 19664  OMOP: 1 |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value | lanr |  | Beispiel:  GKV: 25202  OMOP: 25202 |
| specialty\_source\_value | fg\_lanr |  | Beispiel:  GKV: 9  OMOP: 9 |
| specialty\_source\_concept\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

Reading from hybrid\_qi\_his\_leist.csv

- Implementierung in gkv-to-omop/jobs/302\_HIS\_LEIST/HIS\_LEIST\_provider.ktr

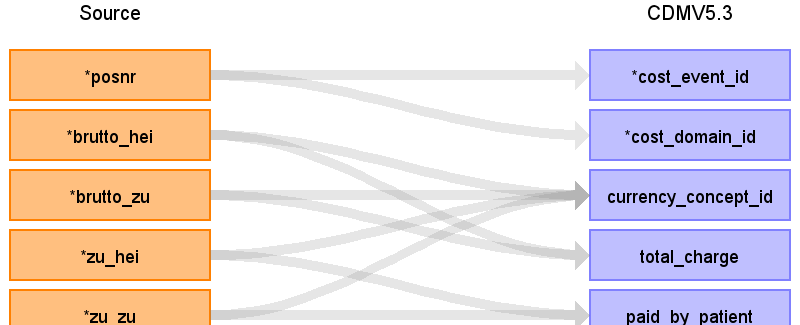


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id |  |  | automatisch erzeugt |
| provider\_name |  |  |  |
| npi |  |  |  |
| dea |  |  |  |
| specialty\_concept\_id | lerb | - concept\_id = 0 |  |
| care\_site\_id |  |  |  |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value |  |  |  |
| specialty\_source\_value | lerb |  | Beispiel:  GKV: 1  OMOP: 1 |
| specialty\_source\_concept\_id | lerb | - Mapping von LERB zu concept\_id in concept über vocabulary\_id = "HPNR" AND domain\_id = "Provider"  -> concept\_id = 0, wenn kein Mapping gefunden wurde | Beispiel:  GKV: 1  OMOP: 2000004643 |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

Table name: cost

Reading from hybrid\_qi\_his\_leist.csv

- Implementierung in gkv-to-omop/jobs/302\_HIS\_LEIST/HIS\_LEIST\_cost.ktr



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| cost\_id |  |  | automatisch erzeugt |
| cost\_event\_id | posnr | - ID der POSNR in OMOP | Beispiel:  OMOP: 1 |
| cost\_domain\_id | posnr | - Domäne der POSNR in OMOP | Beispiel:  OMOP: Procedure |
| cost\_type\_concept\_id |  |  | - concept\_id = 32810 (Claim) |
| currency\_concept\_id | brutto\_hei  brutto\_zu  zu\_hei  zu\_zu | - concept\_id = 44818568 (Euro)  - concept\_id = 44818568 (Euro)  - concept\_id = 44818568 (Euro)  - concept\_id = 44818568 (Euro) |  |
| total\_charge | brutto\_hei  brutto\_zu |  | Beispiel:  GKV: 20,58  OMOP: 20.58  Beispiel:  GKV: 20,58  OMOP: 20.58 |
| total\_cost |  |  |  |
| total\_paid |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_patient | zu\_hei  zu\_zu |  | Beispiel:  GKV: 2,04  OMOP: 2.04  Beispiel:  GKV: 2,04  OMOP: 2.04 |
| paid\_patient\_copay |  |  |  |
| paid\_patient\_coinsurance |  |  |  |
| paid\_patient\_deductible |  |  |  |
| paid\_by\_primary |  |  |  |
| paid\_ingredient\_cost |  |  |  |
| paid\_dispensing\_fee |  |  |  |
| payer\_plan\_period\_id |  |  |  |
| amount\_allowed |  |  |  |
| revenue\_code\_concept\_id |  |  |  |
| revenue\_code\_source\_value |  |  |  |
| drg\_concept\_id |  |  |  |
| drg\_source\_value |  |  |  |

Table name: death

Table name: device\_exposure

Table name: drug\_exposure

Table name: note

Table name: note\_nlp

Table name: observation\_period

Table name: person

Table name: specimen

Table name: visit\_detail

Table name: cohort

Table name: cohort\_attribute

Table name: condition\_era

Table name: dose\_era

Table name: drug\_era

Table name: payer\_plan\_period

Table name: location

Table name: cdm\_source

Table name: metadata

Table name: attribute\_definition

Table name: cohort\_definition

Appendix: source tables

Table: stem\_table

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| domain\_id | CHARACTER VARYING |  |  |
| person\_id | INTEGER |  |  |
| visit\_occurrence\_id | INTEGER |  |  |
| visit\_detail\_id | INTEGER |  |  |
| provider\_id | INTEGER |  |  |
| id | INTEGER |  | automatisch erzeugt |
| concept\_id | INTEGER |  |  |
| source\_value | CHARACTER VARYING |  |  |
| source\_concept\_id | INTEGER |  |  |
| type\_concept\_id | INTEGER |  | - concept\_id = 32810 (Claim) |
| start\_date | DATE |  |  |
| start\_datetime | DATETIME |  |  |
| end\_date | DATE |  |  |
| end\_datetime | DATETIME |  |  |
| verbatim\_end\_date | DATE |  |  |
| days\_supply | INTEGER |  |  |
| dose\_unit\_source\_value | CHARACTER VARYING |  |  |
| lot\_number | CHARACTER VARYING |  |  |
| modifier\_concept\_id | INTEGER |  |  |
| modifier\_source\_value | CHARACTER VARYING |  |  |
| operator\_concept\_id | INTEGER |  |  |
| 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 |  |  |
| condition\_status\_concept\_id | CHARACTER VARYING |  |  |
| condition\_status\_source\_value | INTEGER |  |  |
| qualifier\_concept\_id | INTEGER |  |  |
| qualifier\_source\_value | CHARACTER VARYING |  |  |
| measurement\_time | CHARACTER VARYING |  |  |

Table: hybrid\_qi\_his\_rezepte.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2019 |  |
| quartal | INT | 3 |  |
| rezept\_id | INT | 3640 |  |
| versid | INT | 4818 |  |
| bsnr | INT | 22526 |  |
| lanr | INT | 10281 |  |
| fg\_lanr | INT | 1 |  |
| indikation | VARCHAR | EX2A |  |
| vorddat | DATE | 2019.01.07 |  |
| icd\_list | VARCHAR | M54 |  |

Table: hybrid\_qi\_his\_leist.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2020 |  |
| quartal | INT | 3 |  |
| rezept\_id | INT | 1071 |  |
| lerb | INT | 2 |  |
| posnr | INT | 501 |  |
| lei\_hei | INT | 1 |  |
| lei\_zu | INT | 0 |  |
| anz\_hei | INT | 0 |  |
| brutto\_hei | VARCHAR | 0 |  |
| brutto\_zu | VARCHAR | 0 |  |
| zu\_hei | VARCHAR | 0 |  |
| zu\_zu | VARCHAR | 0 |  |

Table: hybrid\_qi\_stammdaten.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2016 |  |
| quartal | INT | 1 |  |
| versid | INT | 4970 |  |
| gebdat | INT | 193510 |  |
| todtag | DATE |  |  |
| geschl | INT | 2 |  |
| versdauer | INT | 92 |  |
| bl\_id | VARCHAR | NI |  |
| dmp\_khk | INT | 0 |  |

Table: hybrid\_qi\_actrapid.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2018 |  |
| quartal | INT | 4 |  |
| versid | INT | 1351 |  |
| lanr | INT | 10281 |  |
| fg | INT | 1 |  |
| pzn | INT | 1798000 |  |
| bruttoeinzelpreis | VARCHAR | 14,15 |  |
| mult | INT | 1 |  |
| datum\_vo | DATE | 2018.12.17 |  |
| datum\_abgabe | DATE | 2019.12.17 |  |
| atccode | VARCHAR |  |  |
| dddpk | VARCHAR | 100 |  |

Table: hybrid\_qi\_kh\_amb\_fall.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 3 |  |
| id | INT | 4970 |  |
| versid | INT | 9189 |  |
| admit\_date | DATE | 2019.10.01 |  |
| discharge\_date | DATE | 2019.10.01 |  |
| charges | VARCHAR | 145 |  |
| zuz\_betr | INT | 0 |  |
| fallart | VARCHAR | PIA |  |

Table: hybrid\_qi\_kh\_amb\_pos.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 1 |  |
| id | INT | 7431 |  |
| entgart | VARCHAR | 40120 |  |
| beh\_tag | DATE | 2019.11.04 |  |
| entg\_betr | VARCHAR | ,25 |  |

Table: hybrid\_qi\_kh\_amb\_icd.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 3 |  |
| id | INT | 2645 |  |
| icd\_diag | VARCHAR | C20 |  |
| icd\_sicherheit | VARCHAR | G |  |
| icd\_sek | VARCHAR |  |  |
| icd\_sek\_sicherheit | VARCHAR |  |  |
| icd\_lokalisation | VARCHAR |  |  |
| icd\_sek\_lokalisation | VARCHAR |  |  |
| icd\_diag\_art | INT | 13 |  |

Table: hybrid\_qi\_kh\_amb\_ops.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 3 |  |
| id | INT | 2672 |  |
| ops | VARCHAR | PIA002 |  |
| ops\_l | VARCHAR |  |  |

Table: hybrid\_qi\_reha\_stat\_fall.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2017 |  |
| quarter | INT | 3 |  |
| id | INT | 1 |  |
| versid | INT | 34 |  |
| admit\_date | DATE | 2017.06.01 |  |
| discharge\_date | DATE | 2017.10.27 |  |
| charges | VARCHAR | 2150 |  |
| copayment | INT | 0 |  |
| admit\_icd | VARCHAR | I639 |  |
| behandlungsart | INT | 9 |  |

Table: hybrid\_qi\_efn.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2017 |  |
| quartal | INT | 1 |  |
| amb\_fallid | INT | 285550 |  |
| versid | INT | 9962 |  |
| bsnr | INT | 3384 |  |
| fg\_bsnr\_asd | INT | 1 |  |
| dialysesachkosten | VARCHAR | 0 |  |
| behandkost\_gesamt | VARCHAR | 0 |  |
| beh\_von | DATE | 2019.04.01 |  |
| beh\_bis | DATE | 2019.09.30 |  |
| fg\_gp\_list | VARCHAR | 7 |  |

Table: hybrid\_qi\_elst.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2017 |  |
| quartal | INT | 1 |  |
| amb\_fallid | INT | 198335 |  |
| lanr | INT | 10281 |  |
| fg\_lanr\_asd | INT | 1 |  |
| gonr | VARCHAR | 32001 |  |
| behandlungsdatum | DATE | 2019.07.01 |  |
| gonr\_anz | INT | 1 |  |

Table: hybrid\_qi\_tdia.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2018 |  |
| quartal | INT | 4 |  |
| amb\_fallid | INT | 160393 |  |
| icd\_bereinigt | VARCHAR | I1090 |  |
| icd\_avzg | VARCHAR | G |  |
| icd\_lrb | VARCHAR |  |  |

Table: hybrid\_qi\_ops.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2017 |  |
| quartal | INT | 3 |  |
| amb\_fallid | INT | 492107 |  |
| ops | VARCHAR | 5-144.5a |  |
| ops\_lrb | VARCHAR | R |  |

Table: hybrid\_qi\_pflege.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| jahr | INT | 2019 |  |
| monat | INT | 12 |  |
| versid | INT | 3633 |  |
| stufe | INT |  |  |
| pea | INT |  |  |
| grad | INT | 2 |  |
| heim | INT | 0 |  |
| flag\_statbeh | INT | 0 |  |

Table: hybrid\_qi\_kh\_stat\_fall.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 1 |  |
| id | INT | 3640 |  |
| versid | INT | 252 |  |
| admit\_date | DATE | 2017.09.26 |  |
| discharge\_date | DATE | 2019.01.18 |  |
| admit\_status\_301 | INT | 107 |  |
| discharge\_status\_301 | INT | 19 |  |
| charges | VARCHAR | 100,72 |  |
| copayment | INT | 0 |  |
| admit\_icd | VARCHAR | R060 |  |
| discharge\_icd | VARCHAR |  |  |
| aufenthalt | VARCHAR | L |  |
| abg\_drg | VARCHAR |  |  |
| admit\_time | INT | 0 |  |
| discharge\_time | INT | 0 |  |
| admit\_icd\_l | VARCHAR |  |  |
| refer\_icd | VARCHAR |  |  |
| refer\_icd\_l | VARCHAR |  |  |
| discharge\_icd\_l | VARCHAR |  |  |
| los | INT | 1 |  |
| fa\_nr | INT | 100 |  |
| pccl | INT | 0 |  |
| ventilation | INT | 0 |  |
| abg\_se | VARCHAR |  |  |

Table: hybrid\_qi\_kh\_stat\_fachabt.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 1 |  |
| id | INT | 6517 |  |
| fachabt | INT | 100 |  |
| fachabt\_von | DATE | 2019.04.16 |  |
| fachabt\_bis | DATE | 2017.04.13 |  |

Table: hybrid\_qi\_kh\_stat\_icd.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 3 |  |
| id | INT | 32523 |  |
| icd | VARCHAR | I1000 |  |
| type | INT | 2 |  |
| icd\_lokalisation | VARCHAR |  |  |
| icd\_schweregrad | INT | 0 |  |

Table: hybrid\_qi\_kh\_stat\_ops.csv

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| year | INT | 2019 |  |
| quarter | INT | 3 |  |
| id | INT | 32523 |  |
| ops | VARCHAR | 3200 |  |
| op\_date | DATE | 2018.11.19 |  |
| localisation | VARCHAR |  |  |