Source Data Mapping Approach

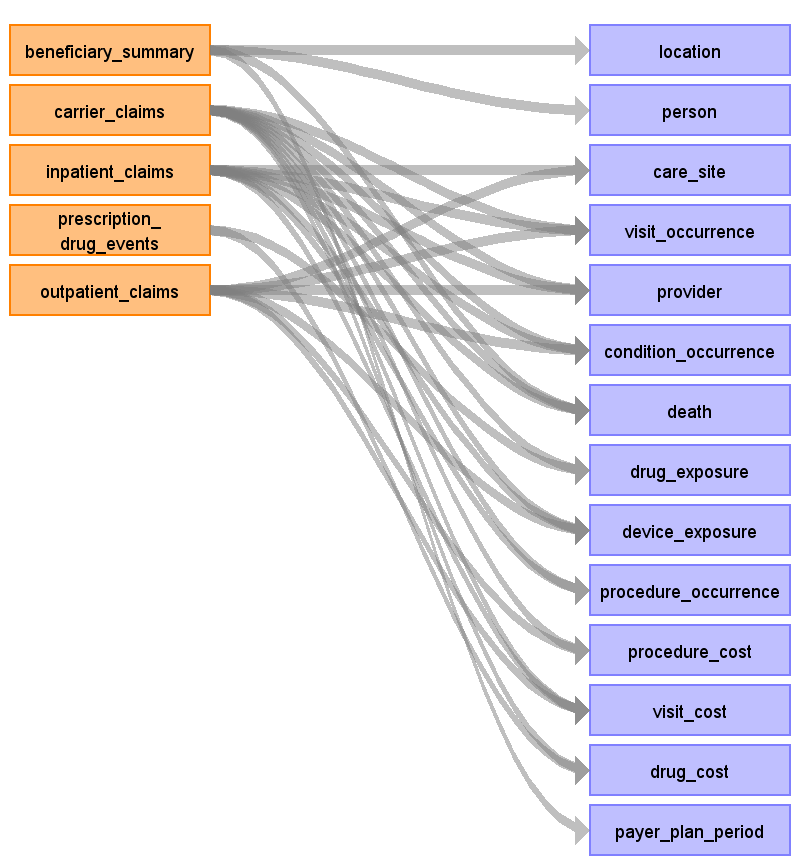
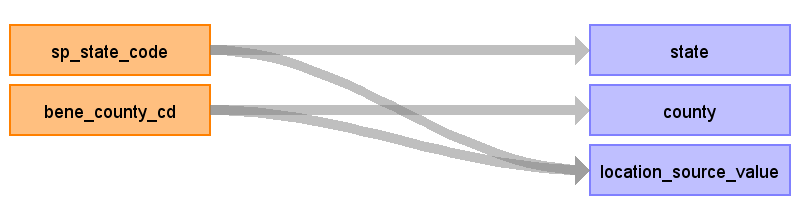


Table name: location

Reading from beneficiary\_summary

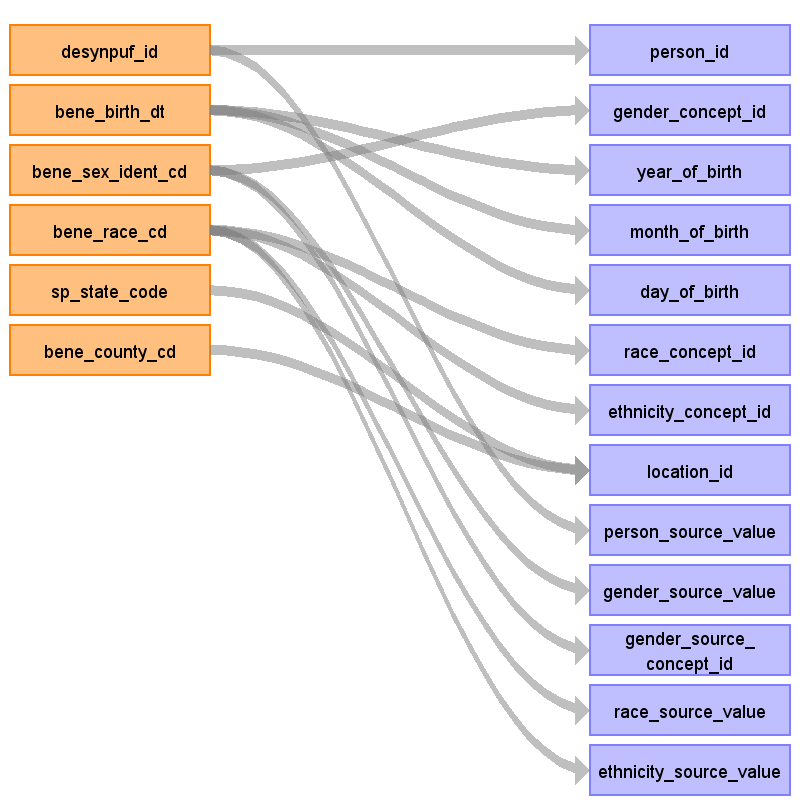
SOURCE\_TO\_CONCEPT\_MAP Entries:
BENE\_RACE\_CD
SP\_STATE\_CD
SSA Codes (http://www.resdac.org/cms-data/variables/County-Code) for COUNTY\_CODE IN BENE\_COUNTY\_CD



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| location\_id |  |  |  |
| address\_1 |  |  |  |
| address\_2 |  |  |  |
| city |  |  |  |
| state | sp\_state\_code |  | The lookup SP\_STATE\_CODE lookup should be found in this document and added to the SOURCE\_TO\_CONCEPT\_MAP: http://www.cms.gov/Research-Statistics-Data-and-Systems/Downloadable-Public-Use-Files/SynPUFs/Downloads/SynPUF\_Codebook.pdf |
| zip |  |  |  |
| county | bene\_county\_cd |  | http://www.cms.gov/Research-Statistics-Data-and-Systems/Downloadable-Public-Use-Files/SynPUFs/Downloads/SynPUF\_Codebook.pdf THIS CODE SPECIFIES THE SSA CODE FOR THE COUNTY OF RESIDENCE OF THE BENEFICIARY. EACH STATE HAS A SERIES OF CODES BEGINNING WITH '000' FOR EACH COUNTY WITHIN THAT STATE. CERTAIN CITIES WITHIN THAT STATE HAVE THEIR OWN CODE. COUNTY CODES MUST BE COMBINED WITH STATE CODES IN ORDER TO LOCATE THE SPECIFIC COUNTY. THE CODING SYSTEM IS THE SSA SYSTEM, NOT THE FEDERAL INFORMATION PROCESSING STANDARD (FIPS). http://www.resdac.org/cms-data/variables/County-Code These will need to be added to the SOURCE\_TO\_CONCEPT\_MAP. |
| location\_source\_value | sp\_state\_code bene\_county\_cd |  |  |

Table name: person

Reading from beneficiary\_summary



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id | desynpuf\_id |  |  |
| gender\_concept\_id | bene\_sex\_ident\_cd | 1 = 8507 2 = 8532 | <<ACTION ITEM>> Mark&Team will double check |
| year\_of\_birth | bene\_birth\_dt | Source is YYYYMMDD |  |
| month\_of\_birth | bene\_birth\_dt | Source is YYYYMMDD |  |
| day\_of\_birth | bene\_birth\_dt | Source is YYYYMMDD | We assume that the day of birth is set to '01' |
| time\_of\_birth |  |  |  |
| race\_concept\_id | bene\_race\_cd | The manual lists the following: 0 = Unknown = 0 1 = White = 8527 2 = Black = 8516 3 = Other = 0 5 = Hispanic = 0 Do not believe these will exist so we may not put them in: 4 = Asian = 8515 6 = North American Native = 38003572 | <<ACTION ITEM>> |
| ethnicity\_concept\_id | bene\_race\_cd | Manual Says These Exists: 0 = Unknown = 0 1 = White = 38003564 2 = Black = 38003564 3 = Other = 0 5 = Hispanic = 38003563 Possible Other Codes, Do Not Believe Exist in Data: 4 = Asian = 38003564 6 = North American Native = 38003564 |  |
| location\_id | sp\_state\_code bene\_county\_cd |  | Lookup based on the source values. |
| provider\_id |  |  | There is not designated provider. |
| care\_site\_id |  |  | There is no designated care site. |
| person\_source\_value | desynpuf\_id |  |  |
| gender\_source\_value | bene\_sex\_ident\_cd |  | Translate into human readable text. |
| gender\_source\_concept\_id | bene\_sex\_ident\_cd |  | <<ACTION ITEM>> We need to know if the source is using a standard, is that in the vocabulary already? |
| race\_source\_value | bene\_race\_cd |  | Put a readable label. |
| race\_source\_concept\_id |  |  |  |
| ethnicity\_source\_value | bene\_race\_cd |  | Put a readable label. |
| ethnicity\_source\_concept\_id |  |  |  |

Table name: observation\_period

Table name: care\_site

Reading from outpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| care\_site\_id |  |  | Autogenerated |
| care\_site\_name |  |  |  |
| place\_of\_service\_concept\_id |  |  | 8717-Inpatient Hospital 8756-Outpatient Hospital |
| location\_id |  |  |  |
| care\_site\_source\_value | prvdr\_num |  |  |
| place\_of\_service\_source\_value |  |  | From INPATIENT\_CLAIMS = "Inpatient Facility" From OUTPATIENT\_CLAIMS = "Outpatient Facility" |

Reading from inpatient\_claims



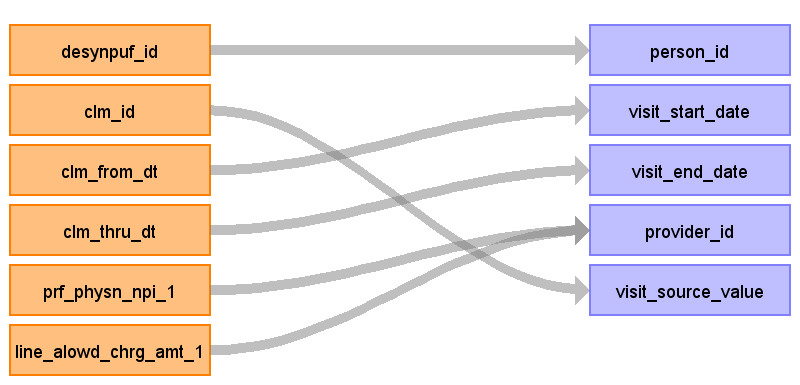
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| care\_site\_id |  |  | Autogenerated |
| care\_site\_name |  |  |  |
| place\_of\_service\_concept\_id |  |  | 8717-Inpatient Hospital 8756-Outpatient Hospital |
| location\_id |  |  |  |
| care\_site\_source\_value | prvdr\_num |  |  |
| place\_of\_service\_source\_value |  |  | From INPATIENT\_CLAIMS = "Inpatient Facility" From OUTPATIENT\_CLAIMS = "Outpatient Facility" |

Table name: visit\_occurrence

Reading from carrier\_claims

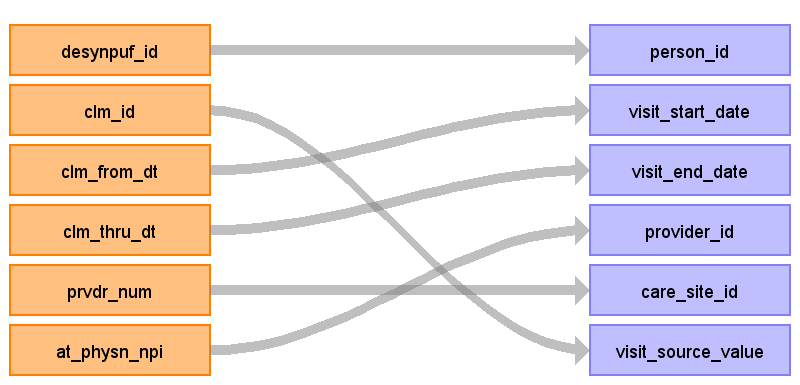
A unique visit is defined by a CLAIM\_ID
Visit Roll-Up Logic:
(1--)INPATIENT logic:
(1A)CARRIER\_CLAIM is within an INPATIENT\_CLAIM, it becomes part of that VISIT\_OCCURRENCE
(1B)OP within IP logic
(1B1)OP that ends the day an IP start or starts before IP, OP gets its own visit
(1B2)OP in the middle of an IP, it adopts the IP visit
(1B3)OP starts on the end of an IP visit, OP gets its own visit
(2--)OUTPATIENT logic:
(2A)On one day, there is one OP and one CC, they share NPI, we link them
(2B)On one day, there is one OP and one CC, they do not share an NPI, we end up with 2 visits
(2C)One OP, and two CC visits, CC1 shares an NPI, CC2 does not, CC1 and OP share a visit, and CC2 is its own visit.
(2D)One OP, and two CC that all share NPIs, they all become one visit.
(2E)Two OP visits, and one CC, if they share NPI connect ELSE end up with 3 visits.
(2F)If you have two OP visits, they do not combined.
(3--)CARRIER CLAIMS logic:
(3A)orphan CCs get categorized 0
In this data we cannot categorize an ER visit, there will only be IP and OP.

CARRIER\_CLAIMS = 0 - ELSE
INPATIENT\_CLAIMS = 9201 - Inpatient Visit
OUTPATIENT\_CLAIMS = 9202 - Outpatient Visit



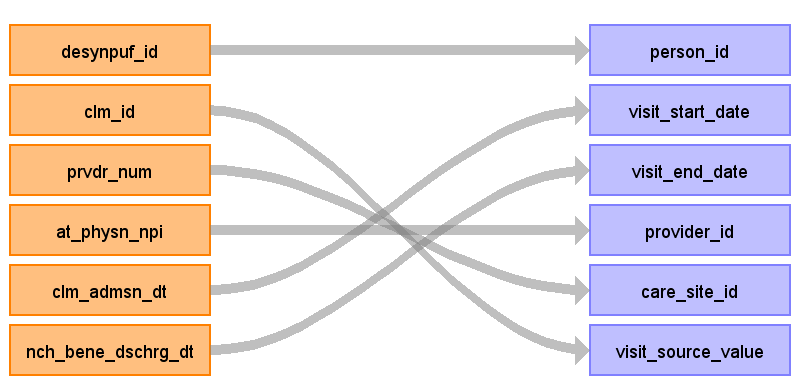
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_occurrence\_id |  |  | Autogenerated (possibly a hash lookup) |
| person\_id | desynpuf\_id |  |  |
| visit\_concept\_id |  |  | CARRIER\_CLAIMS = 0 INPATIENT\_CLAIMS = 9201 - Inpatient Visit OUTPATIENT\_CLAIMS = 9202 - Outpatient Visit |
| visit\_start\_date | clm\_from\_dt |  |  |
| visit\_start\_time |  |  | 0 |
| visit\_end\_date | clm\_thru\_dt |  |  |
| visit\_end\_time |  |  | 0 |
| visit\_type\_concept\_id |  |  | 44818517 - Visit derived from encounter on claim |
| provider\_id | line\_alowd\_chrg\_amt\_1 prf\_physn\_npi\_1 | Use the LIN\_ALOWD\_CHRG\_AMT\_# to find the column that has the MAX() amount. That column identifies the PRF\_PHYSN\_NPI\_# that you need to choose. Alternate proposal (Optimal) - sum up by PRF\_PHYSN\_NPI the LIN\_ALOWD\_CHRG\_AMT, the NPI with the larges chrage amount wins the PROVIDER\_ID. |  |
| care\_site\_id |  |  | CARRIER\_CLAIMS: NULL |
| visit\_source\_value | clm\_id |  |  |
| visit\_source\_concept\_id |  |  | 0 |

Reading from outpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_occurrence\_id |  |  | Autogenerated (possibly a hash lookup) |
| person\_id | desynpuf\_id |  |  |
| visit\_concept\_id |  |  | CARRIER\_CLAIMS = 0 INPATIENT\_CLAIMS = 9201 - Inpatient Visit OUTPATIENT\_CLAIMS = 9202 - Outpatient Visit |
| visit\_start\_date | clm\_from\_dt |  |  |
| visit\_start\_time |  |  | 0 |
| visit\_end\_date | clm\_thru\_dt |  |  |
| visit\_end\_time |  |  | 0 |
| visit\_type\_concept\_id |  |  | 44818517 - Visit derived from encounter on claim |
| provider\_id | at\_physn\_npi | Lookup |  |
| care\_site\_id | prvdr\_num | Lookup | CARRIER\_CLAIMS: NULL |
| visit\_source\_value | clm\_id |  |  |
| visit\_source\_concept\_id |  |  | 0 |

Reading from inpatient\_claims

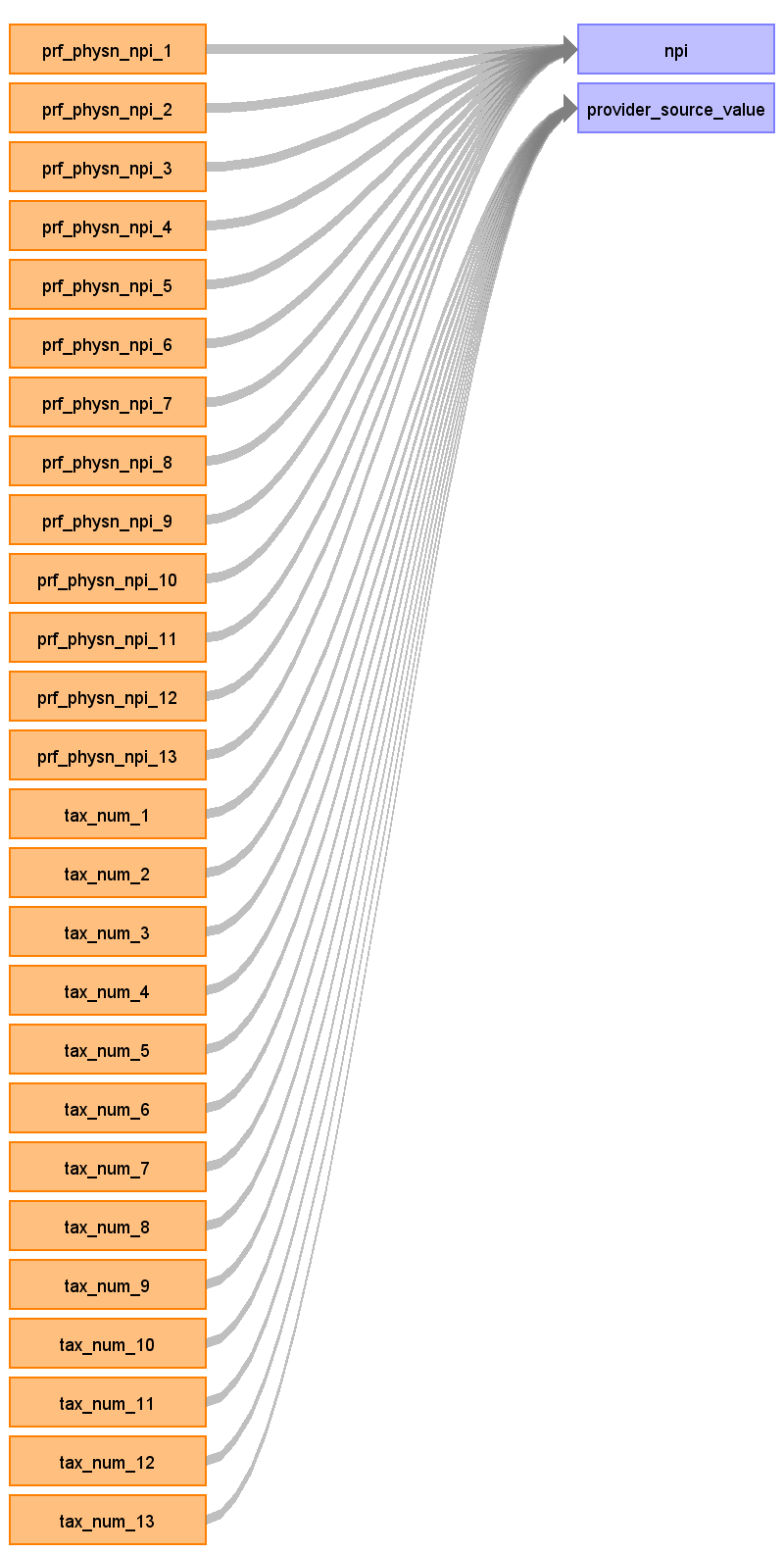


|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_occurrence\_id |  |  | Autogenerated (possibly a hash lookup) |
| person\_id | desynpuf\_id |  |  |
| visit\_concept\_id |  |  | CARRIER\_CLAIMS = 0 INPATIENT\_CLAIMS = 9201 - Inpatient Visit OUTPATIENT\_CLAIMS = 9202 - Outpatient Visit |
| visit\_start\_date | clm\_admsn\_dt |  |  |
| visit\_start\_time |  |  | 0 |
| visit\_end\_date | nch\_bene\_dschrg\_dt |  |  |
| visit\_end\_time |  |  | 0 |
| visit\_type\_concept\_id |  |  | 44818517 - Visit derived from encounter on claim |
| provider\_id | at\_physn\_npi | Lookup in PROVIDER table. |  |
| care\_site\_id | prvdr\_num | INPATIENT\_CLAIMS: Lookup with the PRVDR\_NUM | CARRIER\_CLAIMS: NULL |
| visit\_source\_value | clm\_id |  |  |
| visit\_source\_concept\_id |  |  | 0 |

Table name: provider

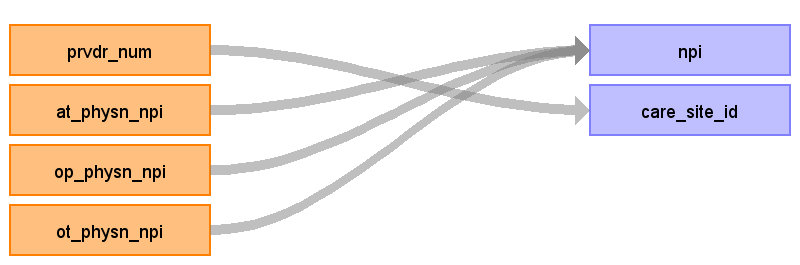
Reading from carrier\_claims

We are not going to pull in TAX\_IDs right now.



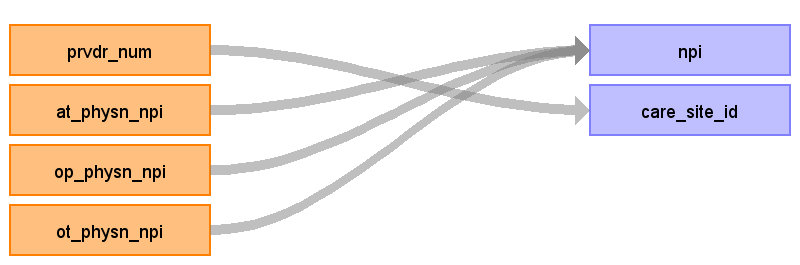
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id |  |  | Autogenerated |
| provider\_name |  |  |  |
| npi | prf\_physn\_npi\_1 prf\_physn\_npi\_2 prf\_physn\_npi\_3 prf\_physn\_npi\_4 prf\_physn\_npi\_5 prf\_physn\_npi\_6 prf\_physn\_npi\_7 prf\_physn\_npi\_8 prf\_physn\_npi\_9 prf\_physn\_npi\_10 prf\_physn\_npi\_11 prf\_physn\_npi\_12 prf\_physn\_npi\_13 |  |  |
| dea |  |  |  |
| specialty\_concept\_id |  |  |  |
| care\_site\_id |  |  |  |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value | tax\_num\_1 tax\_num\_2 tax\_num\_3 tax\_num\_4 tax\_num\_5 tax\_num\_6 tax\_num\_7 tax\_num\_8 tax\_num\_9 tax\_num\_10 tax\_num\_11 tax\_num\_12 tax\_num\_13 |  |  |
| specialty\_source\_value |  |  |  |
| specialty\_source\_concept\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

Reading from outpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id |  |  | Autogenerated |
| provider\_name |  |  |  |
| npi | at\_physn\_npi op\_physn\_npi ot\_physn\_npi |  |  |
| dea |  |  |  |
| specialty\_concept\_id |  |  |  |
| care\_site\_id | prvdr\_num |  | Lookup in the CARE\_SITE table. |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value |  |  |  |
| specialty\_source\_value |  |  |  |
| specialty\_source\_concept\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

Reading from inpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| provider\_id |  |  | Autogenerated |
| provider\_name |  |  |  |
| npi | at\_physn\_npi op\_physn\_npi ot\_physn\_npi |  |  |
| dea |  |  |  |
| specialty\_concept\_id |  |  |  |
| care\_site\_id | prvdr\_num | You need to look up the CARE\_SITE\_ID |  |
| year\_of\_birth |  |  |  |
| gender\_concept\_id |  |  |  |
| provider\_source\_value |  |  |  |
| specialty\_source\_value |  |  |  |
| specialty\_source\_concept\_id |  |  |  |
| gender\_source\_value |  |  |  |
| gender\_source\_concept\_id |  |  |  |

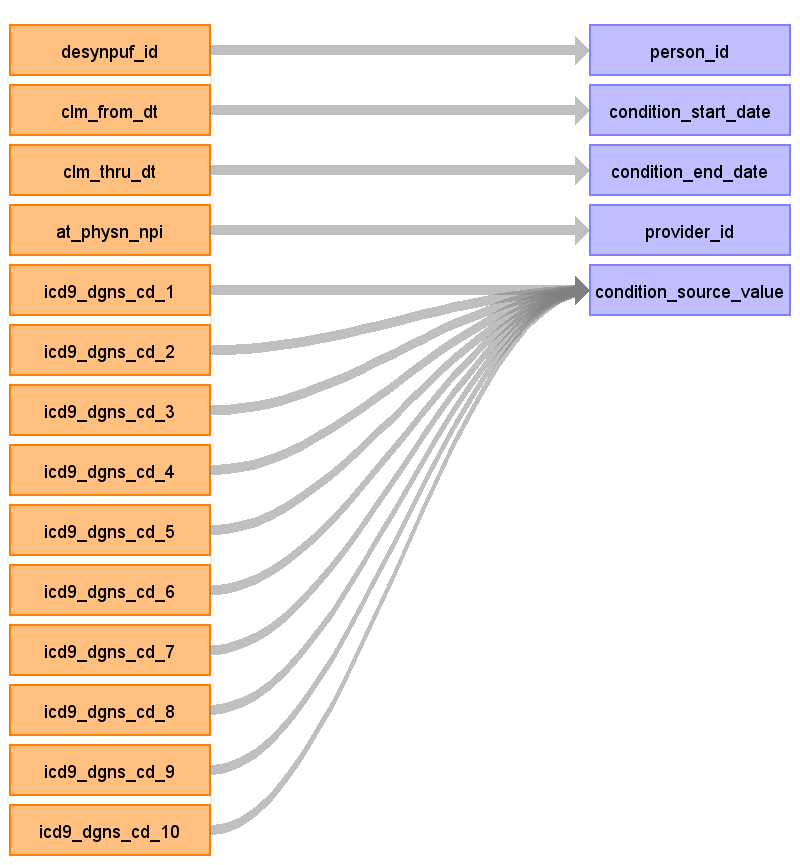
Table name: condition\_occurrence

Reading from carrier\_claims



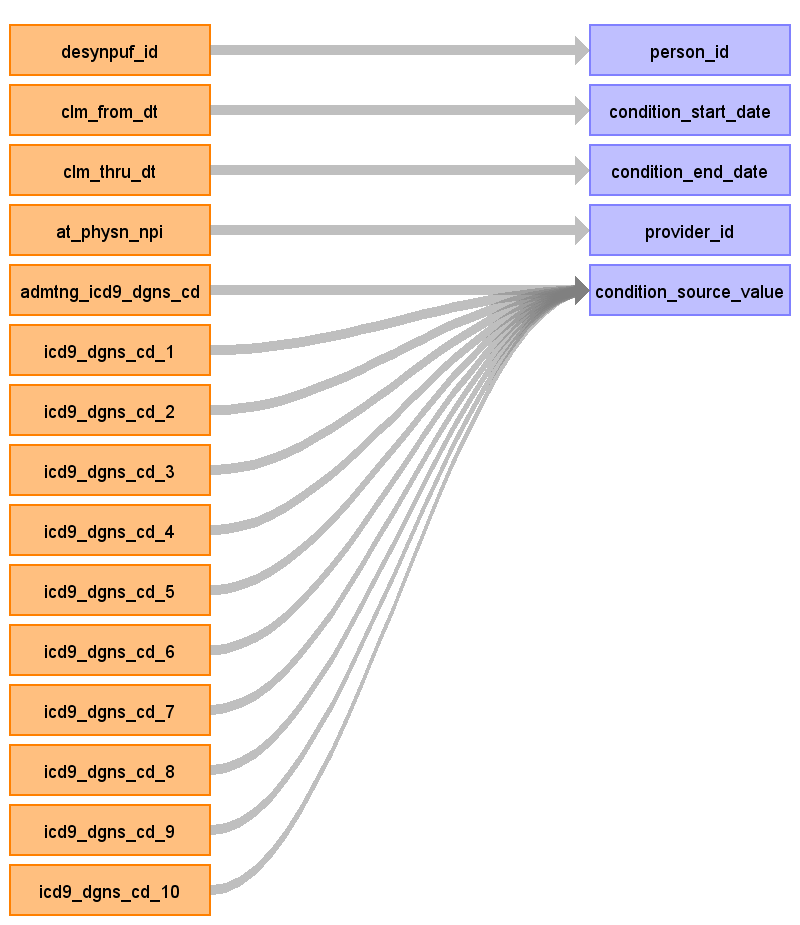
|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id |  |  | Autogenerated |
| person\_id | desynpuf\_id |  |  |
| condition\_concept\_id |  |  | Mapping from CONDITION\_SOURCE\_VALUE into SNOMED (INVALID\_REASON IS NULL). |
| condition\_start\_date | clm\_from\_dt | YYYYMMDD converted to date. |  |
| condition\_end\_date | clm\_thru\_dt | YYYYMMDD converted to date. |  |
| condition\_type\_concept\_id |  |  | Line diagnosis are details and the claim diagnosis are headers. Admitting diagnosis (ADMTNG\_ICD9\_DGNS\_CD) is the last number (e.g. 11) CARRIER\_CLAIMS: --ICD9\_DGNS\_CD\_1 = TBD --ICD9\_DGNS\_CD\_2 = TBD --ICD9\_DGNS\_CD\_3 = TBD --ICD9\_DGNS\_CD\_4 = TBD --ICD9\_DGNS\_CD\_5 = TBD --ICD9\_DGNS\_CD\_6 = TBD --ICD9\_DGNS\_CD\_7 = TBD --ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_1 = TBD --LINE\_ICD9\_DGNS\_CD\_2 = TBD --LINE\_ICD9\_DGNS\_CD\_3 = TBD --LINE\_ICD9\_DGNS\_CD\_4 = TBD --LINE\_ICD9\_DGNS\_CD\_5 = TBD --LINE\_ICD9\_DGNS\_CD\_6 = TBD --LINE\_ICD9\_DGNS\_CD\_7 = TBD --LINE\_ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_9 = TBD --LINE\_ICD9\_DGNS\_CD\_10 = TBD --LINE\_ICD9\_DGNS\_CD\_11 = TBD --LINE\_ICD9\_DGNS\_CD\_12 = TBD --LINE\_ICD9\_DGNS\_CD\_13 = TBD INPATIENT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000200-Inpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000201-Inpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000202-Inpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000203-Inpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000204-Inpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000205-Inpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000206-Inpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000207-Inpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000208-Inpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000209-Inpatient header - 10th position --ADMTNG\_ICD9\_DGNS\_CD = 38000210-Inpatient header - 11th position OUTPATEINT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000230-Outpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000231-Outpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000232-Outpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000233-Outpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000234-Outpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000235-Outpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000236-Outpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000237-Outpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000238-Outpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000239-Outpatient header - 10th position |
| stop\_reason |  |  | NULL |
| provider\_id | prf\_physn\_npi\_1 prf\_physn\_npi\_2 prf\_physn\_npi\_3 prf\_physn\_npi\_4 prf\_physn\_npi\_5 prf\_physn\_npi\_6 prf\_physn\_npi\_7 prf\_physn\_npi\_8 prf\_physn\_npi\_9 prf\_physn\_npi\_10 prf\_physn\_npi\_11 prf\_physn\_npi\_12 prf\_physn\_npi\_13 |  | CARRIER\_CLAIMS: Lookup the PROVIDER\_ID in the PROVIDER table. Associate a PROVIDER\_ID with the ICD9 line item it goes with. The claim ICD9s will not get a PROVIDER\_ID. INPATIENT & OUTPATIENT\_CLAIMS: All get mapped to the AT\_PHYSN\_NPI |
| visit\_occurrence\_id |  |  | Associated to right VISIT\_OCCURENCE. |
| condition\_source\_value | icd9\_dgns\_cd\_1 icd9\_dgns\_cd\_2 icd9\_dgns\_cd\_3 icd9\_dgns\_cd\_4 icd9\_dgns\_cd\_5 icd9\_dgns\_cd\_6 icd9\_dgns\_cd\_7 line\_icd9\_dgns\_cd\_1 icd9\_dgns\_cd\_8 line\_icd9\_dgns\_cd\_2 line\_icd9\_dgns\_cd\_3 line\_icd9\_dgns\_cd\_4 line\_icd9\_dgns\_cd\_5 line\_icd9\_dgns\_cd\_6 line\_icd9\_dgns\_cd\_7 line\_icd9\_dgns\_cd\_8 line\_icd9\_dgns\_cd\_9 line\_icd9\_dgns\_cd\_10 line\_icd9\_dgns\_cd\_11 line\_icd9\_dgns\_cd\_12 line\_icd9\_dgns\_cd\_13 |  |  |
| condition\_source\_concept\_id |  |  | Map the CONDITION\_SOURCE\_VALUE to ICD9 CONCEPT\_IDs. |

Reading from outpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id |  |  | Autogenerated |
| person\_id | desynpuf\_id |  |  |
| condition\_concept\_id |  |  | Mapping from CONDITION\_SOURCE\_VALUE into SNOMED (INVALID\_REASON IS NULL). |
| condition\_start\_date | clm\_from\_dt |  |  |
| condition\_end\_date | clm\_thru\_dt |  |  |
| condition\_type\_concept\_id |  |  | Line diagnosis are details and the claim diagnosis are headers. Admitting diagnosis (ADMTNG\_ICD9\_DGNS\_CD) is the last number (e.g. 11) CARRIER\_CLAIMS: --ICD9\_DGNS\_CD\_1 = TBD --ICD9\_DGNS\_CD\_2 = TBD --ICD9\_DGNS\_CD\_3 = TBD --ICD9\_DGNS\_CD\_4 = TBD --ICD9\_DGNS\_CD\_5 = TBD --ICD9\_DGNS\_CD\_6 = TBD --ICD9\_DGNS\_CD\_7 = TBD --ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_1 = TBD --LINE\_ICD9\_DGNS\_CD\_2 = TBD --LINE\_ICD9\_DGNS\_CD\_3 = TBD --LINE\_ICD9\_DGNS\_CD\_4 = TBD --LINE\_ICD9\_DGNS\_CD\_5 = TBD --LINE\_ICD9\_DGNS\_CD\_6 = TBD --LINE\_ICD9\_DGNS\_CD\_7 = TBD --LINE\_ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_9 = TBD --LINE\_ICD9\_DGNS\_CD\_10 = TBD --LINE\_ICD9\_DGNS\_CD\_11 = TBD --LINE\_ICD9\_DGNS\_CD\_12 = TBD --LINE\_ICD9\_DGNS\_CD\_13 = TBD INPATIENT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000200-Inpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000201-Inpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000202-Inpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000203-Inpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000204-Inpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000205-Inpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000206-Inpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000207-Inpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000208-Inpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000209-Inpatient header - 10th position --ADMTNG\_ICD9\_DGNS\_CD = 38000210-Inpatient header - 11th position OUTPATEINT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000230-Outpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000231-Outpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000232-Outpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000233-Outpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000234-Outpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000235-Outpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000236-Outpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000237-Outpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000238-Outpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000239-Outpatient header - 10th position |
| stop\_reason |  |  | NULL |
| provider\_id | at\_physn\_npi |  | CARRIER\_CLAIMS: Lookup the PROVIDER\_ID in the PROVIDER table. Associate a PROVIDER\_ID with the ICD9 line item it goes with. The claim ICD9s will not get a PROVIDER\_ID. INPATIENT & OUTPATIENT\_CLAIMS: All get mapped to the AT\_PHYSN\_NPI |
| visit\_occurrence\_id |  |  | Associated to right VISIT\_OCCURENCE. |
| condition\_source\_value | icd9\_dgns\_cd\_1 icd9\_dgns\_cd\_2 icd9\_dgns\_cd\_3 icd9\_dgns\_cd\_4 icd9\_dgns\_cd\_5 icd9\_dgns\_cd\_6 icd9\_dgns\_cd\_7 icd9\_dgns\_cd\_8 icd9\_dgns\_cd\_9 icd9\_dgns\_cd\_10 |  |  |
| condition\_source\_concept\_id |  |  | Map the CONDITION\_SOURCE\_VALUE to ICD9 CONCEPT\_IDs. |

Reading from inpatient\_claims



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| condition\_occurrence\_id |  |  | Autogenerated |
| person\_id | desynpuf\_id |  |  |
| condition\_concept\_id |  |  | Mapping from CONDITION\_SOURCE\_VALUE into SNOMED (INVALID\_REASON IS NULL). |
| condition\_start\_date | clm\_from\_dt | YYYYMMDD convert to date. |  |
| condition\_end\_date | clm\_thru\_dt | YYYYMMDD convert to date. |  |
| condition\_type\_concept\_id |  |  | Line diagnosis are details and the claim diagnosis are headers. Admitting diagnosis (ADMTNG\_ICD9\_DGNS\_CD) is the last number (e.g. 11) CARRIER\_CLAIMS: --ICD9\_DGNS\_CD\_1 = TBD --ICD9\_DGNS\_CD\_2 = TBD --ICD9\_DGNS\_CD\_3 = TBD --ICD9\_DGNS\_CD\_4 = TBD --ICD9\_DGNS\_CD\_5 = TBD --ICD9\_DGNS\_CD\_6 = TBD --ICD9\_DGNS\_CD\_7 = TBD --ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_1 = TBD --LINE\_ICD9\_DGNS\_CD\_2 = TBD --LINE\_ICD9\_DGNS\_CD\_3 = TBD --LINE\_ICD9\_DGNS\_CD\_4 = TBD --LINE\_ICD9\_DGNS\_CD\_5 = TBD --LINE\_ICD9\_DGNS\_CD\_6 = TBD --LINE\_ICD9\_DGNS\_CD\_7 = TBD --LINE\_ICD9\_DGNS\_CD\_8 = TBD --LINE\_ICD9\_DGNS\_CD\_9 = TBD --LINE\_ICD9\_DGNS\_CD\_10 = TBD --LINE\_ICD9\_DGNS\_CD\_11 = TBD --LINE\_ICD9\_DGNS\_CD\_12 = TBD --LINE\_ICD9\_DGNS\_CD\_13 = TBD INPATIENT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000200-Inpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000201-Inpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000202-Inpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000203-Inpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000204-Inpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000205-Inpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000206-Inpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000207-Inpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000208-Inpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000209-Inpatient header - 10th position --ADMTNG\_ICD9\_DGNS\_CD = 38000210-Inpatient header - 11th position OUTPATEINT\_CLAIMS: --ICD9\_DGNS\_CD\_1 = 38000230-Outpatient header - 1st position --ICD9\_DGNS\_CD\_2 = 38000231-Outpatient header - 2nd position --ICD9\_DGNS\_CD\_3 = 38000232-Outpatient header - 3rd position --ICD9\_DGNS\_CD\_4 = 38000233-Outpatient header - 4th position --ICD9\_DGNS\_CD\_5 = 38000234-Outpatient header - 5th position --ICD9\_DGNS\_CD\_6 = 38000235-Outpatient header - 6th position --ICD9\_DGNS\_CD\_7 = 38000236-Outpatient header - 7th position --ICD9\_DGNS\_CD\_8 = 38000237-Outpatient header - 8th position --ICD9\_DGNS\_CD\_9 = 38000238-Outpatient header - 9th position --ICD9\_DGNS\_CD\_10 = 38000239-Outpatient header - 10th position |
| stop\_reason |  |  | NULL |
| provider\_id | at\_physn\_npi |  | CARRIER\_CLAIMS: Lookup the PROVIDER\_ID in the PROVIDER table. Associate a PROVIDER\_ID with the ICD9 line item it goes with. The claim ICD9s will not get a PROVIDER\_ID. INPATIENT & OUTPATIENT\_CLAIMS: All get mapped to the AT\_PHYSN\_NPI |
| visit\_occurrence\_id |  |  | Associated to right VISIT\_OCCURENCE. |
| condition\_source\_value | admtng\_icd9\_dgns\_cd icd9\_dgns\_cd\_1 icd9\_dgns\_cd\_2 icd9\_dgns\_cd\_3 icd9\_dgns\_cd\_4 icd9\_dgns\_cd\_5 icd9\_dgns\_cd\_6 icd9\_dgns\_cd\_7 icd9\_dgns\_cd\_8 icd9\_dgns\_cd\_9 icd9\_dgns\_cd\_10 |  |  |
| condition\_source\_concept\_id |  |  | Map the CONDITION\_SOURCE\_VALUE to ICD9 CONCEPT\_IDs. |

Table name: death

Reading from beneficiary\_summary

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  |  |
| death\_date |  |  |  |
| death\_type\_concept\_id |  |  |  |
| cause\_concept\_id |  |  |  |
| cause\_source\_value |  |  |  |
| cause\_source\_concept\_id |  |  |  |

Reading from carrier\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  |  |
| death\_date |  |  |  |
| death\_type\_concept\_id |  |  |  |
| cause\_concept\_id |  |  |  |
| cause\_source\_value |  |  |  |
| cause\_source\_concept\_id |  |  |  |

Reading from inpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| person\_id |  |  |  |
| death\_date |  |  |  |
| death\_type\_concept\_id |  |  |  |
| cause\_concept\_id |  |  |  |
| cause\_source\_value |  |  |  |
| cause\_source\_concept\_id |  |  |  |

Table name: drug\_exposure

Reading from prescription\_drug\_events

Generated

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

Reading from carrier\_claims

Generated

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

Table name: device\_exposure

Reading from outpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| device\_exposure\_id |  |  |  |
| person\_id |  |  |  |
| device\_concept\_id |  |  |  |
| device\_exposure\_start\_date |  |  |  |
| device\_exposure\_end\_date |  |  |  |
| device\_type\_concept\_id |  |  |  |
| unique\_device\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| device\_source\_value |  |  |  |
| device\_source\_concept\_id |  |  |  |

Reading from inpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| device\_exposure\_id |  |  |  |
| person\_id |  |  |  |
| device\_concept\_id |  |  |  |
| device\_exposure\_start\_date |  |  |  |
| device\_exposure\_end\_date |  |  |  |
| device\_type\_concept\_id |  |  |  |
| unique\_device\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| device\_source\_value |  |  |  |
| device\_source\_concept\_id |  |  |  |

Reading from carrier\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| device\_exposure\_id |  |  |  |
| person\_id |  |  |  |
| device\_concept\_id |  |  |  |
| device\_exposure\_start\_date |  |  |  |
| device\_exposure\_end\_date |  |  |  |
| device\_type\_concept\_id |  |  |  |
| unique\_device\_id |  |  |  |
| quantity |  |  |  |
| provider\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| device\_source\_value |  |  |  |
| device\_source\_concept\_id |  |  |  |

Table name: procedure\_occurrence

Reading from carrier\_claims

Generated

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

Reading from inpatient\_claims

Generated

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

Table name: measurement

Table name: observation

Table name: note

Table name: specimen

Table name: fact\_relationship

Table name: procedure\_cost

Reading from carrier\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_cost\_id |  |  |  |
| procedure\_occurrence\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| revenue\_code\_concept\_id |  |  |  |
| payer\_plan\_period\_id |  |  |  |
| revenue\_code\_source\_value |  |  |  |

Reading from outpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| procedure\_cost\_id |  |  |  |
| procedure\_occurrence\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| revenue\_code\_concept\_id |  |  |  |
| payer\_plan\_period\_id |  |  |  |
| revenue\_code\_source\_value |  |  |  |

Table name: visit\_cost

Reading from carrier\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_cost\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| payer\_plan\_period\_id |  |  |  |

Reading from outpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_cost\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| payer\_plan\_period\_id |  |  |  |

Reading from inpatient\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| visit\_cost\_id |  |  |  |
| visit\_occurrence\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| payer\_plan\_period\_id |  |  |  |

Table name: drug\_cost

Reading from prescription\_drug\_events

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| drug\_cost\_id |  |  |  |
| drug\_exposure\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| ingredient\_cost |  |  |  |
| dispensing\_fee |  |  |  |
| average\_wholesale\_price |  |  |  |
| payer\_plan\_period\_id |  |  |  |

Reading from carrier\_claims

Generated

|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| drug\_cost\_id |  |  |  |
| drug\_exposure\_id |  |  |  |
| currency\_concept\_id |  |  |  |
| paid\_copay |  |  |  |
| paid\_coinsurance |  |  |  |
| paid\_toward\_deductible |  |  |  |
| paid\_by\_payer |  |  |  |
| paid\_by\_coordination\_benefits |  |  |  |
| total\_out\_of\_pocket |  |  |  |
| total\_paid |  |  |  |
| ingredient\_cost |  |  |  |
| dispensing\_fee |  |  |  |
| average\_wholesale\_price |  |  |  |
| payer\_plan\_period\_id |  |  |  |

Table name: payer\_plan\_period

Reading from beneficiary\_summary

We are going to look at birth and death date.
We know which months they had claims.
We know how many months they had coverages.
If MONTH = 0 they were not enrolled for that year.
IF MONTH > 0 then they were enrolled.
We will use the birth and death to correct the tails.
We need to knit the records together the years.

We will have overlapping payer plan periods.



|  |  |  |  |
| --- | --- | --- | --- |
| Destination Field | Source Field | Logic | Comment |
| payer\_plan\_period\_id |  |  |  |
| person\_id | desynpuf\_id |  |  |
| payer\_plan\_period\_start\_date |  |  |  |
| payer\_plan\_period\_end\_date |  |  |  |
| payer\_source\_value |  |  |  |
| plan\_source\_value |  |  |  |
| family\_source\_value |  |  |  |

Table name: device\_cost

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

Appendix: source tables

Table: beneficiary\_summary

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| desynpuf\_id | varchar | List truncated... |  |
| bene\_birth\_dt | int | 19421001 |  |
| bene\_death\_dt | int | 0 |  |
| bene\_sex\_ident\_cd | smallint | 2 |  |
| bene\_race\_cd | smallint | 1 |  |
| bene\_esrd\_ind | varchar | 0 |  |
| sp\_state\_code | smallint | 5 |  |
| bene\_county\_cd | smallint | 200 | THIS CODE SPECIFIES THE SSA CODE FOR THE COUNTY OF RESIDENCE OF THE BENEFICIARY. EACH STATE HAS A SERIES OF CODES BEGINNING WITH '000' FOR EACH COUNTY WITHIN THAT STATE. CERTAIN CITIES WITHIN THAT STATE HAVE THEIR OWN CODE. COUNTY CODES MUST BE COMBINED WITH STATE CODES IN ORDER TO LOCATE THE SPECIFIC COUNTY. THE CODING SYSTEM IS THE SSA SYSTEM, NOT THE FEDERAL INFORMATION PROCESSING STANDARD (FIPS). |
| bene\_hi\_cvrage\_tot\_mons | smallint | 12 |  |
| bene\_smi\_cvrage\_tot\_mons | smallint | 12 |  |
| bene\_hmo\_cvrage\_tot\_mons | smallint | 0 |  |
| plan\_cvrg\_mos\_num | smallint | 12 |  |
| sp\_alzhdmta | smallint | 2 |  |
| sp\_chf | smallint | 2 |  |
| sp\_chrnkidn | smallint | 2 |  |
| sp\_cncr | smallint | 2 |  |
| sp\_copd | smallint | 2 |  |
| sp\_depressn | smallint | 2 |  |
| sp\_diabetes | smallint | 2 |  |
| sp\_ischmcht | smallint | 2 |  |
| sp\_osteoprs | smallint | 2 |  |
| sp\_ra\_oa | smallint | 2 |  |
| sp\_strketia | smallint | 2 |  |
| medreimb\_ip | real | 0.0 |  |
| benres\_ip | real | 0.0 |  |
| pppymt\_ip | real | 0.0 |  |
| medreimb\_op | real | 0.0 |  |
| benres\_op | real | 0.0 |  |
| pppymt\_op | real | 0.0 |  |
| medreimb\_car | real | 0.0 |  |
| benres\_car | real | 0.0 |  |
| pppymt\_car | real | 0.0 |  |

Table: carrier\_claims

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| desynpuf\_id | varchar | AEF310232161AC91 |  |
| clm\_id | bigint | List truncated... |  |
| clm\_from\_dt | int | 20090216 |  |
| clm\_thru\_dt | int | 20081106 |  |
| icd9\_dgns\_cd\_1 | varchar | 4011 |  |
| icd9\_dgns\_cd\_2 | varchar |  |  |
| icd9\_dgns\_cd\_3 | varchar |  |  |
| icd9\_dgns\_cd\_4 | varchar |  |  |
| icd9\_dgns\_cd\_5 | varchar |  |  |
| icd9\_dgns\_cd\_6 | varchar |  |  |
| icd9\_dgns\_cd\_7 | varchar |  |  |
| icd9\_dgns\_cd\_8 | varchar |  |  |
| prf\_physn\_npi\_1 | bigint | 888901330 |  |
| prf\_physn\_npi\_2 | bigint | 0 |  |
| prf\_physn\_npi\_3 | bigint | 0 |  |
| prf\_physn\_npi\_4 | bigint | 0 |  |
| prf\_physn\_npi\_5 | bigint | 0 |  |
| prf\_physn\_npi\_6 | bigint | 0 |  |
| prf\_physn\_npi\_7 | bigint | 0 |  |
| prf\_physn\_npi\_8 | bigint | 0 |  |
| prf\_physn\_npi\_9 | bigint | 0 |  |
| prf\_physn\_npi\_10 | bigint | 0 |  |
| prf\_physn\_npi\_11 | bigint | 0 |  |
| prf\_physn\_npi\_12 | bigint | 0 |  |
| prf\_physn\_npi\_13 | bigint | 0 |  |
| tax\_num\_1 | int | 532092265 |  |
| tax\_num\_2 | int | 0 |  |
| tax\_num\_3 | int | 0 |  |
| tax\_num\_4 | int | 0 |  |
| tax\_num\_5 | int | 0 |  |
| tax\_num\_6 | int | 0 |  |
| tax\_num\_7 | int | 0 |  |
| tax\_num\_8 | int | 0 |  |
| tax\_num\_9 | int | 0 |  |
| tax\_num\_10 | int | 0 |  |
| tax\_num\_11 | int | 0 |  |
| tax\_num\_12 | int | 0 |  |
| tax\_num\_13 | int | 0 |  |
| hcpcs\_cd\_1 | varchar | 99213 |  |
| hcpcs\_cd\_2 | varchar |  |  |
| hcpcs\_cd\_3 | varchar |  |  |
| hcpcs\_cd\_4 | varchar |  |  |
| hcpcs\_cd\_5 | varchar |  |  |
| hcpcs\_cd\_6 | varchar |  |  |
| hcpcs\_cd\_7 | varchar |  |  |
| hcpcs\_cd\_8 | varchar |  |  |
| hcpcs\_cd\_9 | varchar |  |  |
| hcpcs\_cd\_10 | varchar |  |  |
| hcpcs\_cd\_11 | varchar |  |  |
| hcpcs\_cd\_12 | varchar |  |  |
| hcpcs\_cd\_13 | varchar |  |  |
| line\_nch\_pmt\_amt\_1 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_2 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_3 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_4 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_5 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_6 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_7 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_8 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_9 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_10 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_11 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_12 | real | 0.0 |  |
| line\_nch\_pmt\_amt\_13 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_1 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_2 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_3 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_4 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_5 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_6 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_7 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_8 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_9 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_10 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_11 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_12 | real | 0.0 |  |
| line\_bene\_ptb\_ddctbl\_amt\_13 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_1 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_2 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_3 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_4 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_5 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_6 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_7 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_8 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_9 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_10 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_11 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_12 | real | 0.0 |  |
| line\_bene\_prmry\_pyr\_pd\_amt\_13 | real | 0.0 |  |
| line\_coinsrnc\_amt\_1 | real | 0.0 |  |
| line\_coinsrnc\_amt\_2 | real | 0.0 |  |
| line\_coinsrnc\_amt\_3 | real | 0.0 |  |
| line\_coinsrnc\_amt\_4 | real | 0.0 |  |
| line\_coinsrnc\_amt\_5 | real | 0.0 |  |
| line\_coinsrnc\_amt\_6 | real | 0.0 |  |
| line\_coinsrnc\_amt\_7 | real | 0.0 |  |
| line\_coinsrnc\_amt\_8 | real | 0.0 |  |
| line\_coinsrnc\_amt\_9 | real | 0.0 |  |
| line\_coinsrnc\_amt\_10 | real | 0.0 |  |
| line\_coinsrnc\_amt\_11 | real | 0.0 |  |
| line\_coinsrnc\_amt\_12 | real | 0.0 |  |
| line\_coinsrnc\_amt\_13 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_1 | real | 10.0 |  |
| line\_alowd\_chrg\_amt\_2 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_3 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_4 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_5 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_6 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_7 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_8 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_9 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_10 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_11 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_12 | real | 0.0 |  |
| line\_alowd\_chrg\_amt\_13 | real | 0.0 |  |
| line\_prcsg\_ind\_cd\_1 | varchar | A |  |
| line\_prcsg\_ind\_cd\_2 | varchar |  |  |
| line\_prcsg\_ind\_cd\_3 | varchar |  |  |
| line\_prcsg\_ind\_cd\_4 | varchar |  |  |
| line\_prcsg\_ind\_cd\_5 | varchar |  |  |
| line\_prcsg\_ind\_cd\_6 | varchar |  |  |
| line\_prcsg\_ind\_cd\_7 | varchar |  |  |
| line\_prcsg\_ind\_cd\_8 | varchar |  |  |
| line\_prcsg\_ind\_cd\_9 | varchar |  |  |
| line\_prcsg\_ind\_cd\_10 | varchar |  |  |
| line\_prcsg\_ind\_cd\_11 | varchar |  |  |
| line\_prcsg\_ind\_cd\_12 | varchar |  |  |
| line\_prcsg\_ind\_cd\_13 | varchar |  |  |
| line\_icd9\_dgns\_cd\_1 | varchar | 4019 |  |
| line\_icd9\_dgns\_cd\_2 | varchar |  |  |
| line\_icd9\_dgns\_cd\_3 | varchar |  |  |
| line\_icd9\_dgns\_cd\_4 | varchar |  |  |
| line\_icd9\_dgns\_cd\_5 | varchar |  |  |
| line\_icd9\_dgns\_cd\_6 | varchar |  |  |
| line\_icd9\_dgns\_cd\_7 | varchar |  |  |
| line\_icd9\_dgns\_cd\_8 | varchar |  |  |
| line\_icd9\_dgns\_cd\_9 | varchar |  |  |
| line\_icd9\_dgns\_cd\_10 | varchar |  |  |
| line\_icd9\_dgns\_cd\_11 | varchar |  |  |
| line\_icd9\_dgns\_cd\_12 | varchar |  |  |
| line\_icd9\_dgns\_cd\_13 | varchar |  |  |

Table: inpatient\_claims

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| desynpuf\_id | varchar | List truncated... |  |
| clm\_id | bigint | List truncated... |  |
| segment | smallint | 1 |  |
| clm\_from\_dt | int | 20080522 |  |
| clm\_thru\_dt | int | 20080529 |  |
| prvdr\_num | varchar | 23006G |  |
| clm\_pmt\_amt | real | 4000.0 |  |
| nch\_prmry\_pyr\_clm\_pd\_amt | real | 0.0 |  |
| at\_physn\_npi | bigint | 0 |  |
| op\_physn\_npi | bigint | 0 |  |
| ot\_physn\_npi | bigint | 0 |  |
| clm\_admsn\_dt | int | 20080522 |  |
| admtng\_icd9\_dgns\_cd | varchar | 78605 |  |
| clm\_pass\_thru\_per\_diem\_amt | real | 0.0 |  |
| nch\_bene\_ip\_ddctbl\_amt | real | 1024.0 |  |
| nch\_bene\_pta\_coinsrnc\_lblty\_am | real | 0.0 |  |
| nch\_bene\_blood\_ddctbl\_lblty\_am | real | 0.0 |  |
| clm\_utlztn\_day\_cnt | int | 3 |  |
| nch\_bene\_dschrg\_dt | int | 20080529 |  |
| clm\_drg\_cd | varchar | 882 |  |
| icd9\_dgns\_cd\_1 | varchar | 486 |  |
| icd9\_dgns\_cd\_2 | varchar | 4019 |  |
| icd9\_dgns\_cd\_3 | varchar | 4019 |  |
| icd9\_dgns\_cd\_4 | varchar | 4019 |  |
| icd9\_dgns\_cd\_5 | varchar |  |  |
| icd9\_dgns\_cd\_6 | varchar |  |  |
| icd9\_dgns\_cd\_7 | varchar |  |  |
| icd9\_dgns\_cd\_8 | varchar |  |  |
| icd9\_dgns\_cd\_9 | varchar |  |  |
| icd9\_dgns\_cd\_10 | varchar |  |  |
| icd9\_prcdr\_cd\_1 | varchar |  |  |
| icd9\_prcdr\_cd\_2 | varchar |  |  |
| icd9\_prcdr\_cd\_3 | varchar |  |  |
| icd9\_prcdr\_cd\_4 | varchar |  |  |
| icd9\_prcdr\_cd\_5 | varchar |  |  |
| icd9\_prcdr\_cd\_6 | varchar |  |  |
| hcpcs\_cd\_1 | varchar |  |  |
| hcpcs\_cd\_2 | varchar |  |  |
| hcpcs\_cd\_3 | varchar |  |  |
| hcpcs\_cd\_4 | varchar |  |  |
| hcpcs\_cd\_5 | varchar |  |  |
| hcpcs\_cd\_6 | varchar |  |  |
| hcpcs\_cd\_7 | varchar |  |  |
| hcpcs\_cd\_8 | varchar |  |  |
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| hcpcs\_cd\_13 | varchar |  |  |
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| hcpcs\_cd\_18 | varchar |  |  |
| hcpcs\_cd\_19 | varchar |  |  |
| hcpcs\_cd\_20 | varchar |  |  |
| hcpcs\_cd\_21 | varchar |  |  |
| hcpcs\_cd\_22 | varchar |  |  |
| hcpcs\_cd\_23 | varchar |  |  |
| hcpcs\_cd\_24 | varchar |  |  |
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| hcpcs\_cd\_33 | varchar |  |  |
| hcpcs\_cd\_34 | varchar |  |  |
| hcpcs\_cd\_35 | varchar |  |  |
| hcpcs\_cd\_36 | varchar |  |  |
| hcpcs\_cd\_37 | varchar |  |  |
| hcpcs\_cd\_38 | varchar |  |  |
| hcpcs\_cd\_39 | varchar |  |  |
| hcpcs\_cd\_40 | varchar |  |  |
| hcpcs\_cd\_41 | varchar |  |  |
| hcpcs\_cd\_42 | varchar |  |  |
| hcpcs\_cd\_43 | varchar |  |  |
| hcpcs\_cd\_44 | varchar |  |  |
| hcpcs\_cd\_45 | varchar |  |  |

Table: prescription\_drug\_events

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| desynpuf\_id | varchar | 91D777A10F0E8C60 |  |
| pde\_id | bigint | List truncated... |  |
| srvc\_dt | int | 20090323 |  |
| prod\_srvc\_id | varchar | 00002840099 |  |
| qty\_dspnsd\_num | real | 30.0 |  |
| days\_suply\_num | smallint | 30 |  |
| ptnt\_pay\_amt | real | 0.0 |  |
| tot\_rx\_cst\_amt | real | 10.0 |  |

Table: outpatient\_claims

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Most freq. value | Comment |
| desynpuf\_id | varchar | AD5D4E087BF57C05 |  |
| clm\_id | bigint | List truncated... |  |
| segment | smallint | 1 |  |
| clm\_from\_dt | int | 0 |  |
| clm\_thru\_dt | int | 0 |  |
| prvdr\_num | varchar | 0502NA |  |
| clm\_pmt\_amt | real | 100.0 |  |
| nch\_prmry\_pyr\_clm\_pd\_amt | real | 0.0 |  |
| at\_physn\_npi | bigint | 0 |  |
| op\_physn\_npi | bigint | 0 |  |
| ot\_physn\_npi | bigint | 0 |  |
| nch\_bene\_blood\_ddctbl\_lblty\_am | real | 0.0 |  |
| icd9\_dgns\_cd\_1 | varchar | 4019 |  |
| icd9\_dgns\_cd\_2 | varchar |  |  |
| icd9\_dgns\_cd\_3 | varchar |  |  |
| icd9\_dgns\_cd\_4 | varchar |  |  |
| icd9\_dgns\_cd\_5 | varchar |  |  |
| icd9\_dgns\_cd\_6 | varchar |  |  |
| icd9\_dgns\_cd\_7 | varchar |  |  |
| icd9\_dgns\_cd\_8 | varchar |  |  |
| icd9\_dgns\_cd\_9 | varchar |  |  |
| icd9\_dgns\_cd\_10 | varchar |  |  |
| icd9\_prcdr\_cd\_1 | varchar |  |  |
| icd9\_prcdr\_cd\_2 | varchar |  |  |
| icd9\_prcdr\_cd\_3 | varchar |  |  |
| icd9\_prcdr\_cd\_4 | varchar |  |  |
| icd9\_prcdr\_cd\_5 | varchar |  |  |
| icd9\_prcdr\_cd\_6 | varchar |  |  |
| nch\_bene\_ptb\_ddctbl\_amt | real | 0.0 |  |
| nch\_bene\_ptb\_coinsrnc\_amt | real | 0.0 |  |
| admtng\_icd9\_dgns\_cd | varchar |  |  |
| hcpcs\_cd\_1 | varchar | 36415 |  |
| hcpcs\_cd\_2 | varchar |  |  |
| hcpcs\_cd\_3 | varchar |  |  |
| hcpcs\_cd\_4 | varchar |  |  |
| hcpcs\_cd\_5 | varchar |  |  |
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| hcpcs\_cd\_36 | varchar |  |  |
| hcpcs\_cd\_37 | varchar |  |  |
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| hcpcs\_cd\_39 | varchar |  |  |
| hcpcs\_cd\_40 | varchar |  |  |
| hcpcs\_cd\_41 | varchar |  |  |
| hcpcs\_cd\_42 | varchar |  |  |
| hcpcs\_cd\_43 | varchar |  |  |
| hcpcs\_cd\_44 | varchar |  |  |
| hcpcs\_cd\_45 | varchar |  |  |