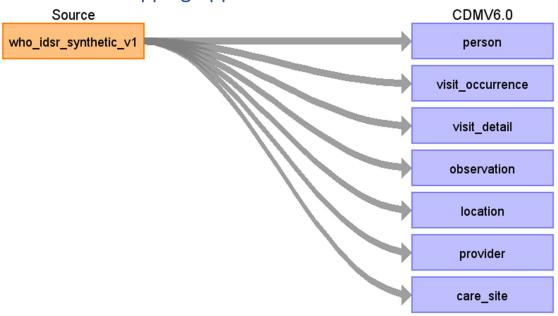
## Mapping from generic IDSR COVID-19 data to OMOP 6.0

## **Section: 01 Demographics**

#### Contents

Source Data Mapping Approach to CDMV6.0	2
Table name: person	3
Table name: visit_occurrence	13
Table name: visit_detail	
Table name: observation	29
Table name: location	41
Table name: provider	45
Table name: care_site	52
Annendix: source tables	55

# Source Data Mapping Approach to CDMV6.0

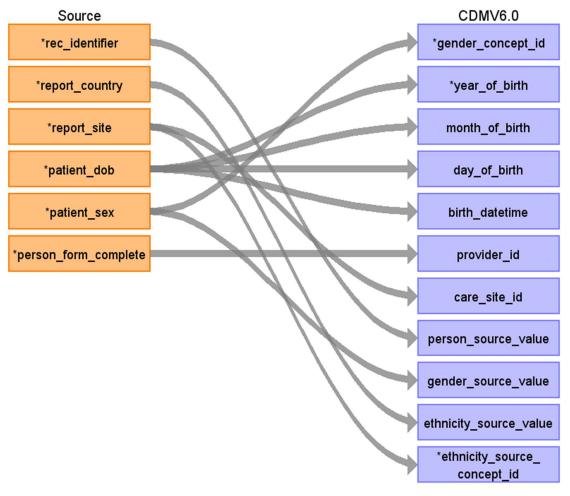


## Table name: person

This table serves as the central identity management for all Persons in the database. It contains records that uniquely identify each person or patient, and some demographic information.

#### Reading from who\_idsr\_synthetic\_v1

Identify all persons in the source dataset uniquely with their demographics



Destination Field	Source Field	Logic	Comment
person_id			A unique identifier for each person. The purpose of this field is to provide a unique identifying number (integer) to each person (individual) and thus this field is to be populated with auto generated integer, unique for each person (individual) identified in the source

gender_concept_id	Map the sex values to gender_concept_id as follows: Male -> 8507 Female -> 8532	dataset(s).  Identifying a person uniquely within the source dataset(s) must be worked out prior to writing the ETL code so as to ensure to avoid any duplicates or identifying a person multiple time.  Data type: bigint Required: yes  Primary key: yes  Foreign key: no  Important note: It is assumed that every person with a different unique identifier is in fact a different person and should be treated independently.  This field is meant to capture the biological sex at birth of the Person. This field should not be used to study gender identity issues.  Data type: integer  Required: yes  Primary key: no  Foreign key: yes  Foreign key table: CONCEPT  Foreign key domain: Gender  Important note for ETL:
		Important note for ETL: Use the gender or sex

			under the assumption that it is the biological sex at birth.
year_of_birth	patient_dob	Extract the year part from dob to populate this field.	Important note for ETL: From data sources with date of birth, the year should be extracted.
			For data sources where the year of birth is not available, the approximate year of birth could be derived based on age group categorization, if available.
			If no information is available, then populate with a default value of 9999.
			Data type: integer
			Required: yes
			Primary key: no
			Foreign key: no
month_of_birth	patient_dob	Extract the month part from dob to	The month of birth of the person.
		populate this field.	Data type: integer
			Required: no
			Primary key: no
			Foreign key: no
			Important note for ETL: For data sources that provide the precise date of birth, the month should be extracted and stored in this field.
day_of_birth	patient_dob	Extract the day part from dob to	Here day means the day of the month part of dob.
		populate this field.	The day of the month of

			birth of the person.  Data type: integer  Required: no  Primary key: no  Foreign key: no  Important note for ETL: For data sources that provide the precise date of birth, the day should be extracted and stored in this field.
birth_datetime	patient_dob	populate this field. The target OMOP database Person table has the data type as TIMESTAMP, so use the midnight time (00:00:0000).  Note: the date will automatically get converted with midnight time 00:00:0000 in PostgreSQL database field.	The source dataset stores the date of birth in DD-MM-YYYY format and the time part isn't available, i.e., the time of birth is not available. Thus use midnight (00:00:0000) as the time, so that the value becomes YYYY-MM-DD 00:00:0000.  Data type: datetime Required: no Primary key: no Foreign key: no  Important note for ETL: This field is not required but highly encouraged. For data sources that provide the precise datetime of birth, that value should be stored in this field. If birth_datetime is not provided in the source, use the following logic to infer the date:  If day_of_birth is null and month_of_birth is not null

	then use the first of the month in that year. If month_of_birth is null or if day_of_birth AND month_of_birth are both null and the person has records during their year of birth then use the date of the earliest record, otherwise use the 15th of June of that year. If time of birth is not given use midnight (00:00:0000).
death_datetime	Data not available in source dataset(s), set it to NULL
race_concept_id	This is a mandatory field and must be populated. Set it to 0 (zero).  Data type: integer  Required: yes  Primary key: no  Foreign key: yes  Foreign key table:  CONCEPT  Foreign key domain: race  Important note for ETL:  Only use this field if you have information about race or ethnic background.  The Vocabulary contains  Concepts about the main races and ethnic backgrounds in a hierarchical system. Due to the imprecise nature of human races and ethnic backgrounds, this is not a perfect system. Mixed races are not supported. If

	background cannot be
	established, use
	Concept_Id 0.
othnicity concent id	This is a mandatory field
ethnicity_concept_id	This is a mandatory field
	and must be populated.
	Set it to Ethnicity / related
	nationality data 4087925
	[observation_concept_id]
	Data type: integer
	Required: yes
	Primary key: no
	Foreign key: yes
	Foreign key table:
	CONCEPT
	Foreign key domain:
	ethnicity
	Important note for ETL:
	Here we are using the
	Ethnicity / related
	nationality concept.
	Otherwise, only use this
	field if you have US-based
	data and a source of this
	information. Do not
	attempt to infer Ethnicity
	from the race or ethnic
	background of the Person.
location id	Deputate this with -
location_id	Populate this with a
	foreign key to the
	LOCATION table where the
	location details of the
	person's residence is
	stored.
	Data type: integer
	Required: no
	Primary key: no
	Foreign key: yes

		Foreign key table: LOCATION Important note for ETL:
		Put the location_id from the LOCATION table here that represents the most granular location information for the person.
		This could represent anything from postal code or parts thereof, state, or county for example. Since many databases contain deidentified data, it is common that the precision of the location is reduced to prevent reidentification. This field should capture the last known location. Any prior locations are captured in the LOCATION_HISTORY table.
provider_id	primary provider, i.e., the PROVIDER table. The person conducting the survey is taken to be the provider	Data type: bigint  Required: no  Primary key: no  Foreign key: yes  Foreign key table:  PROVIDER
		Important note for ETL: Put the provider_id from the PROVIDER table of the last known general practitioner of the person. If there are multiple providers, it is up to the ETL to decide which to put here. Here we will use the name of the facilities from which the case has been

			reported last.
care_site_id	report_site	A foreign key to the primary reporting facility, i.e., the CARE_SITE table.	Data type: bigint Required: no Primary key: no Foreign key: yes Foreign key table: CARE_SITE
			Important note for ETL: Put the care_site_id from the CARE_SITE table of the last known general practitioner of the person. If there are multiple providers, it is up to the ETL to decide which to put here. Here we will use the name of the facilities from which the case has been reported last.
person_source_value	rec_identifier	Encrypt and store the record identifier value to populate this field.	The purpose of this field is to link back to persons in the source data. This is typically used for error checking of ETL logic.  Data type: varchar(50)  Required: no  Primary key: no  Foreign key: no
			Important note for ETL: Some use cases require the ability to link back to persons in the source data. This field allows for the storing of the person value as it appears in the source. This field is not required but strongly

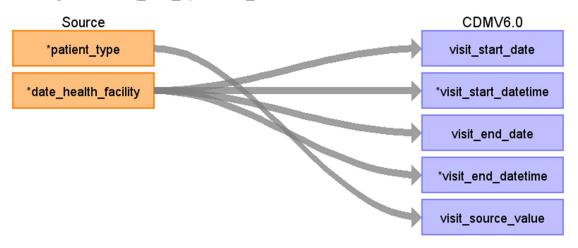
			recommended.
gender_source_value	patient_sex	Store the sex value as verbatim to populate this field. Optionally you may choose to encrypt and store.	This field is used to store the biological sex of the person from the source data. It is not intended for use in standard analytics but for reference only.
			Data type: varchar(50)
			Required: no
			Primary key: no
			Foreign key: no
			Important note for ETL: Put the biological sex of the person as it appears in the source data.
gender_source_concept_id			This is a mandatory field and must be populated. Set it to 0 (zero).
			Data type: integer
			Required: yes
			Primary key: no
			Foreign key: yes
			Foreign key table: CONCEPT
			Foreign key domain: none
			Important note for ETL: If the source data codes biological sex in a nonstandard vocabulary, store the concept_id here, otherwise set to 0.
race_source_value			Data not available in source dataset(s), set it to

		NULL
race_source_concept_id		This is a mandatory field and must be populated. Set it to 0 (zero).
		Data type: integer
		Required: yes
		Primary key: no
		Foreign key: yes
		Foreign key table: CONCEPT
		Foreign key domain: none
		Important note for ETL: If the source data codes race in an OMOP supported vocabulary store the concept_id here, otherwise set to 0.
ethnicity_source_value	report_country	
ethnicity_source_concept	_idreport_site	

### Table name: visit\_occurrence

This table contains Events where Persons engage with the healthcare system for a duration of time. They are often also called "Encounters". Visits are defined by a configuration of circumstances under which they occur, such as (i) whether the patient comes to a healthcare institution, the other way around, or the interaction is remote, (ii) whether and what kind of trained medical staff is delivering the service during the Visit, and (iii) whether the Visit is transient or for a longer period involving a stay in bed.

#### Reading from who\_idsr\_synthetic\_v1



Destination Field	Source Field	Logic	Comment
visit_occurrence_id			Populate this field by creating a unique identifier for each unique interaction between a person and the healthcare system where the person receives a medical good or service over a span of time. This is an auto generated number unique to each visit.
			Data type: bigint  Required: yes  Primary key: yes  Foreign key: no  Foreign key table: n/a
person_id			The PERSON_ID of the Person who made the visit to the healthcare facility.

representing the kind of visit.  Visit concept id: 4318944 for hospital  Data type: integer  Required: yes  Primary key: no  Foreign key: yes  Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.				
Foreign key table: PERSON  Important note for ETL: This is a foreign key referencing to the person_id in Person Table.  This field contains a concept id representing the kind of visit.  Visit concept id: 4318944 for hospital  Data type: integer Required: yes Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Since the visit is on same day, so the start and end will be the same visit date. populate this field  Attended to populate this field  Required: no Primary key: no Foreign key table: n/a				Required: yes Primary key: no
Important note for ETL: This is a foreign key referencing to the person_id in Person Table.  This field contains a concept id representing the kind of visit.  Visit concept id: 4318944 for hospital  Data type: integer Required: yes Primary key: no Foreign key: yes Foreign key: table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Visit_start_date  date_health_facility Store the health facility visit date to populate this field  date_health_facility Store the health facility visit date.  Data type: date Required: no Primary key: no Foreign key: table: n/a				Foreign key: yes
foreign key referencing to the person_id in Person Table.  This field contains a concept id representing the kind of visit.  Visit concept id: 4318944 for hospital  Data type: integer Required: yes Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Visit_start_date  date_health_facility Store the health facility visit date to populate this field  Data type: date Required: no Primary key: no Foreign key: no				Foreign key table: PERSON
representing the kind of visit.  Visit concept id: 4318944 for hospital  Data type: integer Required: yes Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Visit_start_date  date_health_facility visit date to populate this field  Additional content of the populate this field  Since the visit is on same day, so the start and end will be the same visit date.  Data type: date Required: no Primary key: no Foreign key table: n/a				foreign key referencing to the
hospital  Data type: integer Required: yes Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Since the visit is on same day, so the start and end will be the same visit date to populate this field  Data type: date Required: no Primary key: no Foreign key table: n/a	visit_concept_id			-
Required: yes Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  Visit_start_date  date_health_facility Store the health facility visit date to populate this field  Additional content of the primary key: no Foreign key: no				
Primary key: no Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  visit_start_date  date_health_facility Store the health facility visit date to populate this field  Since the visit is on same day, so the start and end will be the same visit date.  Data type: date  Required: no Primary key: no Foreign key: no Foreign key table: n/a				Data type: integer
Foreign key: yes Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  visit_start_date  date_health_facility Store the health facility visit date to populate this field  date_health_facility Store the health facility visit date.  Data type: date  Required: no  Primary key: no  Foreign key: yes  Foreig				Required: yes
Foreign key table: CONCEPT  Important note for ETL: If no code is found, set it to 0.  visit_start_date  date_health_facility Store the health facility visit date to populate this field  Accordingly Store the health facility visit date to populate this field  Data type: date  Required: no  Primary key: no  Foreign key table: n/a				Primary key: no
Important note for ETL: If no code is found, set it to 0.  visit_start_date  date_health_facility Store the health facility visit date to populate this field  Required: no  Primary key: no  Foreign key: no  Foreign key table: n/a				Foreign key: yes
visit_start_date  date_health_facility  below the start and end will be the same visit date.  populate this field  Data type: date  Required: no  Primary key: no  Foreign key: no  Foreign key table: n/a				Foreign key table: CONCEPT
health facility visit date to populate this field  Required: no Primary key: no Foreign key: no Foreign key table: n/a				
field  Required: no  Primary key: no  Foreign key: no  Foreign key table: n/a	visit_start_date	date_health_facility	health facility visit date to	the start and end will be the same
Primary key: no Foreign key: no Foreign key table: n/a				Data type: date
Foreign key: no Foreign key table: n/a				Required: no
Foreign key table: n/a				Primary key: no
				Foreign key: no
Foreign key domain: n/a				Foreign key table: n/a
				Foreign key domain: n/a

visit_start_datetime	date_health_facility	Store the health facility visit date to populate this field. Since the time is not available so set it to midnight (00:00:0000)	Since the reporting is on same day, so the start and end will be the same reporting date.  Data type: datetime (datetime without timezone)  Required: yes  Primary key: no  Foreign key: no  Foreign key table: n/a  Foreign key domain: n/a
visit_end_date	date_health_facility	Store the health facility visit date to populate this field	Since the reporting is on same day, so the start and end will be the same reporting date.  Data type: date  Required: no  Primary key: no  Foreign key: no  Foreign key table: n/a  Foreign key domain: n/a
visit_end_datetime	date_health_facility	Store the health facility visit date to populate this field. Since the time is not available so set it to midnight (00:00:0000).	Since the reporting is on same day, so the start and end will be the same reporting date.  Data type: datetime (datetime without timezone)  Required: yes  Primary key: no  Foreign key: no  Foreign key table: n/a  Foreign key domain: n/a
visit_type_concept_id			Use this field to understand the provenance of the visit record, or

			where the record comes from.
			Visit type concept id: 32809 for case report form.
			Data type: integer  Required: yes  Primary key: no
			Foreign key: yes  Foreign key table: CONCEPT  Foreign key domain: Type concept
provider_id			This is a foreign key referencing to the provider_id in the PROVIDER table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: PROVIDER
			Foreign key domain: n/a
care_site_id			This is a foreign key referencing to the care_site_id in the CARE_SITE table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: care_site
		Grand III	Foreign key domain: n/a
visit_source_value	patient_type	Store the type of case	This field houses the verbatim value from the source data

	(patient_type) to populate this variable.	representing the kind of visit that took place (inpatient, outpatient, emergency, etc.)  Data type: varchar(50)  Required: no  Primary key: no
		Foreign key: no  Foreign key table: n/a  Foreign key domain: n/a
visit_source_concept_id		If the visit source value is coded in the source data using an OMOP supported vocabulary put the concept id representing the source value here. If not available set to 0.  Demographic history 4201841  [visit_detail_source_concept_id]
		Data type: integer Required: yes Primary key: no Foreign key: yes
		Foreign key table: CONCEPT Foreign key domain: n/a
admitting_source_concept_id		If available, map the admitted_from_source_value to a standard concept in the visit domain. If not available set to 0.
		This is a mandatory field, no value is available from the source dataset(s) for this, so set it to 0.
		Data type: integer

	Required: yes
	Primary key: no
	Foreign key: yes
	Foreign key table: CONCEPT
	Foreign key domain: Visit
admitting_source_value	This information may be called something different in the source data but the field is meant to contain a value indicating where a person was admitted from.
	Set it to blank (NULL).
	Data type: varchar(50)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign ket domain: n/a
discharge_to_concept_id	This information may be called something different in the source data but the field is meant to contain a value indicating where a person was admitted from.
	This is a mandatory field, no value is available from the source dataset(s) for this, so set it to 0.
	Data type: integer
	Required: yes
	Primary key: no
	Foreign key: yes
	Foreign key table: Concept

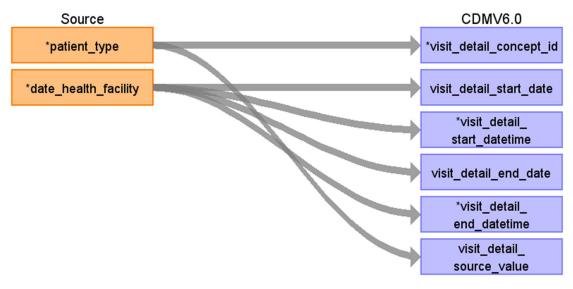
	Foreign key domain: Visit
discharge_to_source_value	This information may be called something different in the source data but the field is meant to contain a value indicating where a person was discharged to after a visit, as in they went home or were moved to long-term care.
	Set it to blank (NULL).
	Data type: varchar(50)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a
preceding_visit_occurrence_id	The preceding_visit_id can be used to link a visit immediately preceding the current visit.  Extract the immediate previous visit occurance id.
	For first visit, set it to NULL.
	Data type: bigint
	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table: visit_occurrence
	Foreign key domain: n/a

### Table name: visit\_detail

The VISIT\_DETAIL table is an optional table used to represents details of each record in the parent VISIT\_OCCURRENCE table. A good example of this would be the movement between units in a hospital during an inpatient stay or claim lines associated with a one insurance claim. For every record in the VISIT\_OCCURRENCE table there may be 0 or more records in the VISIT\_DETAIL table with a 1:n relationship where n may be 0. The VISIT\_DETAIL table is structurally very similar to VISIT\_OCCURRENCE table and belongs to the visit domain.

#### Reading from who\_idsr\_synthetic\_v1

The VISIT\_DETAIL table is an optional table used to represents details of each record in the parent VISIT\_OCCURRENCE table. A good example of this would be the movement between units in a hospital during an inpatient stay or claim lines associated with a one insurance claim. For every record in the VISIT\_OCCURRENCE table there may be 0 or more records in the VISIT\_DETAIL table with a 1:n relationship where n may be 0. The VISIT\_DETAIL table is structurally very similar to VISIT\_OCCURRENCE table and belongs to the visit domain.



Destination Field	Source Field	Logic	Comment
visit_detail_id			Use this to identify unique interactions between a person and the health care system. This identifier links across the other CDM event tables to associate events with a visit detail. This is to be an auto generated number (integer) for every recorded inserted.
			Data type: bigint

			Required: yes
			Primary key: yes
			Foreign key: no
			Foreign key table: n/a
			Foreign key domain: n/a
naman id			
person_id			The person ID of the person whome the visit has been made.
			Data type: bigint
			Required: yes
			Primary key: no
			Foreign key: yes
			Foreign key table: PERSON
			Foreign key domain: n/a
			Important note for ETL: This is a foreign key referencing to the person_id in the PERSON table.
visit_detail_concept_id	patient_type	of case (typ_case) to	This field contains a concept id representing the kind of visit detail, like inpatient or outpatient. All concepts in this field should be standard and belong to the Visit domain.
		In-Patient	
		(IPD) -> 4212055	Data type: integer
		Out-Patient	Required: yes
		(OPD) ->	Primary key: no
			Foreign key: yes
		Point of Entry (POE) ->	Foreign key table: CONCEPT
		4135990 (Site of Entry)	Foreign key table: Observation
			Important note for ETL: If no code is found, set it to 0.

visit_detail_start_date	date_health_facility	of visit to the health facility to populate	Store in YYYY-MM-DD format.  Since the reporting is on same day, so the start and end will be the same reporting date.  This is the date of the start of the encounter. This may or may not be equal to the date of the Visit the Visit Detail is associated with.
			Data type: date Required: no Primary key: no Foreign key: no
			Foreign key table: n/a Foreign key domain: n/a
visit_detail_start_datetime		of visit to the health facility to populate this field. Since the time is not available so set it to midnight (00:00:0000)	Store in YYYY-MM-DD HH:MM:ss format. Since the source dataset does not store the date in TIMESTAMP format, so set the time to midnight 00:00:00.  This is the date of the start of the encounter. This may or may not be equal to the date of the Visit the Visit Detail is associated with. If no time is given for the start date of a visit, set it to midnight (00:00:0000).  Data type: datetime (datetime without timezone)  Required: yes  Primary key: no  Foreign key: no  Foreign key table: n/a

		Foreign key domain: n/a
visit_detail_end_date	of visit to the health facility	Store in YYYY-MM-DD format. Since the reporting is on same day, so the start and end will be the same reporting date. This the end date of the patient-provider interaction.
		Data type: date
		Required: no
		Primary key: no
		Foreign key: no
		Foreign key table: n/a
		Foreign key domain: n/a
visit_detail_end_datetime	of visit to the health facility to populate this field. Since the time is not available so set it to midnight (00:00:0000)	Store in YYYY-MM-DD HH:MM:ss format.  Since the source dataset does not store the date in TIMESTAMP format, so set the time to midnight 00:00:00. Since the reporting is on same day, so the start and end will be the same reporting date.  This the end date of the patient-provider interaction. If no time is given for the end date of a visit, set it to midnight (00:00:0000).  Data type: datetime (datetime without timezone)  Required: yes  Primary key: no  Foreign key: no  Foreign key table: n/a  Foreign key domain: n/a

visit_detail_type_concept_id			Visit type concept id: 32809 for
			case report form
			Data type: integer
			Required: yes
			Primary key: no
			Foreign key: yes
			Foreign key table: CONCEPT
			Foreign key domain: Type concept
provider_id			This is a foreign key referencing to the provider_id in the PROVIDER table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: Provider
			Foreign key domain: n/a
care_site_id			This is a foreign key referencing to the care_site_id in the CARE_SITE table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: care_site
			Foreign key domain: n/a
visit_detail_source_value	patient_type	Store the	This field houses the verbatim
		Type of	value from the source data
		patient (natient type)	representing the kind of visit that took place (inpatient, outpatient,
			emergency, etc.)
			3,, ,

	populate this	
	variable.	Data type: varchar(50)
		Required: no
		Primary key: no
		Foreign key: yes
		Foreign key table: n/a
		Foreign key domain: n/a
visit_detail_source_concept_id		If the visit source value is coded in the source data using an OMOP supported vocabulary put the concept id representing the source value here. If not available set to 0.
		This is a mandatory field, no value is available from the source dataset(s) for this, so set it to 0.
		Data type: integer
		Required: yes
		Primary key: no
		Foreign key: yes
		Foreign key table: Concept
		Foreign key domain: n/a
admitted_from_source_value		This information may be called something different in the source data but the field is meant to contain a value indicating where a person was admitted from.  Typically this applies only to visits that have a length of stay, like inpatient visits or long-term care visits.
		Leave this variable as blank (NULL)
		Data type: varchar(50)

	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table: n/a
	Foreign key domain: n/a
admitted_from_concept_id	This is a mandatory field, no value is available from the source dataset(s) for this, so set it to 0.
	Data type: integer
	Required: yes
	Primary key: no
	Foreign key: yes
	Foreign key table: Concept
	Foreign key domain: Visit
discharge_to_source_value	This information may be called something different in the source data but the field is meant to contain a value indicating where a person was discharged to after a visit, as in they went home or were moved to long-term care.  Typically this applies only to visits that have a length of stay of a day or more.
	Set it to blank (NULL)
	Data type: varchar(50)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a

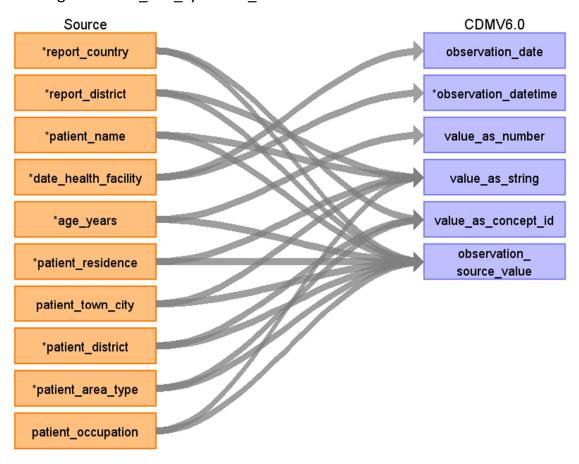
discharge_to_concept_id	Use this field to determine where the patient was discharged to after a visit. If available, map the discharge_to_source_value to a standard concept in the visit domain. If not available set to 0.  This is a mandatory field, no value is available from the source dataset(s) for this, so set it to 0.
	Data type: integer  Required: yes
	Primary key: no
	Foreign key: yes
	Foreign key table: Concept
	Foreign key domain: Visit
preceding_visit_detail_id	Use this field to find the visit that occurred for the person prior to the given visit. A foreign key to the visit_detail table to get the immediate preceding visit detail.
	Data type: bigint
	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table: visit_detail
	Foreign key domain: n/a
visit_detail_parent_id	This is used in the case that a visit detail record needs to be nested beyond the VISIT_OCCURRENCE/VISIT_DETAIL relationship.
	Data type: bigint

	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table: visit_detail
	Foreign key domain: n/a
visit_occurrence_id	Use this field to link the
	VISIT_DETAIL record to its
	VISIT_OCCURRENCE.
	This is foreign key to link to the
	visit_occurrence table.
	Data type: bigint
	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table:
	visit_occurrence
	Foreign key domain: n/a

#### Table name: observation

The OBSERVATION table captures clinical facts about a Person obtained in the context of examination, questioning or a procedure. Any data that cannot be represented by any other domains, such as social and lifestyle facts, medical history, family history, etc. are recorded here. New to CDM v6.0 An Observation can now be linked to other records in the CDM instance using the fields OBSERVATION\_EVENT\_ID and OBS\_EVENT\_FIELD\_CONCEPT\_ID. To link another record to an Observation, the primary key goes in OBSERVATION\_EVENT\_ID (CONDITION\_OCCURRENCE\_ID, DRUG\_EXPOSURE\_ID, etc.) and the Concept representing the field where the OBSERVATION\_EVENT\_ID was taken from go in the OBS\_EVENT\_FIELD\_CONCEPT\_ID. For example, a CONDITION\_OCCURRENCE of Asthma might be linked to an Observation of a family history of Asthma. In this case the CONDITION\_OCCURRENCE\_ID of the Asthma record would go in OBSERVATION\_EVENT\_ID of the family history record and the CONCEPT\_ID 1147127 would go in OBS\_EVENT\_FIELD\_CONCEPT\_ID to denote that the OBSERVATION\_EVENT\_ID represents a CONDITION OCCURRENCE ID.

#### Reading from who idsr synthetic v1



Destination Field	Source Field	Logic	Comment
observation_id			The unique key given to an Observation record for a Person.

		Data type: bigint
		Required: yes
		Primary key: yes
		Foreign key: no
		Important note for ETL: Each instance of an observation present in the source data should be assigned this unique key.
person_id		The PERSON_ID of the Person for whom the Observation is recorded.
		Data type: bigint
		Required: yes
		Primary key: no
		Foreign key: yes
		Foreign key table: PERSON
		Foreign key domain: n/a
		Important note for ETL: This is a foreign key referencing to the person_id in Person Table.
observation_concept_id		A foreign key to the standard observation concept.
		The following observation_concepts_id is to be used: - Observation -> 40285617

			Required: yes
			Primary key: no
			Foreign key: yes
			Foreign key table: CONCEPT
			Foreign key domain: Observation
			Important note for ETL: Map observation_concept_id as separate instances of occurance referenced to the same person_id
observation_date		Store the reporting date of	
	lity	visit to health facility to populate this field.	Observation. This is the date when the current
			incident/ case was
		Store in YYYY-MM-DD format.	observed (form completed
		iormat.	/ filled).
			Data type: date
			Required: no
			Primary key: no
			Foreign key: no
			Foreign key table: n/a
			Foreign key domain: n/a
			Important note for ETL: Do the necessary formatting changes to store the data in the database.
observation_datetime		Store the reporting date of	The date of the
	-	visit to health facility to	Observation. This is the
		populate this field.	date when the current
		Store in YYYY-MM-DD	incident/ case was observed (form completed
		00:00:00 format.	/ filled).
			,

	Data type: datetime Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  Important note for ETL: Do the necessary formatting changes to store the data in the database. If no time is given set to midnight (00:00:00).
observation_type_concept _id	This field can be used to determine the provenance of the Observation record, as in whether the measurement was from an EHR system, insurance claim, registry, or other sources.  Patient encounter
	procedure 4203722  Data type: integer  Required: yes  Primary key: no  Foreign key: yes  Foreign key table:
	CONCEPT  Foreign key domain: Observation  Important note for ETL: Impute the

			observation_type_concept _id value statically.
value_as_number	age_years	Store the age in years verbatim as it occurs in the source data.	This is the numerical value of the Result of the Observation, if applicable and available.
			It is not expected that all Observations will have numeric results, rather, this field is here to house values should they exist.
			Data type: integer
			Required: no
			Primary key: no
			Foreign key: no
			Foreign key table: n/a
			Foreign key domain: n/a
			Important note for ETL: Map value_as_number as separate instances of occurance referenced to the same person_id linked to the observation_concept_id
value_as_string	· –	Store the patient name	This is the categorical
	ranart district	verbatim as it occurs in the source data.	value of the Result of the Observation, if applicable
	patient_residenc e	Store the reporting district	and available.
	patient_town_ci	verbatim as it occurs in the source data.	5
	ty	Store the patient's	Data type: varchar(60)
		residence verbatim as it occurs in the source data.	Required: no Primary key: no
	on	seed of the source data.	Foreign key: no
			oreign key. no
			Important note for ETL:

Map value\_as\_string as separate instances of occurance referenced to the same person\_id linked to the observation\_concept\_id

This is the categorical value of the Result of the Observation, if applicable and available.

Data type: varchar(60)

Required: no

Primary key: no

Foreign key: no

Important note for ETL:
Map value\_as\_string as
separate instances of
occurance referenced to
the same person\_id linked
to the
observation\_concept\_id

This is the categorical value of the Result of the Observation, if applicable and available.

Data type: varchar(60)

Required: no

Primary key: no

Foreign key: no

Important note for ETL:
Map value\_as\_string as
separate instances of
occurance referenced to
the same person\_id linked
to the

			observation_concept_id
value_as_concept_id	report_country patient_district	4329169 and then use the	Build a lookup table for this information.
		Subsumes. Reference URL:	
	patient_area_ty pe	https://athena.ohdsi.org/se arch-terms/terms/4329169	Data type: integer
		Store the patient's area type with the following	Required: no
		mapping	Primary key: no
			Foreign key: yes
		010a11 - / 411/330	Foreign key table: CONCEPT
			Foreign key domain:
		Store the patient's area type verbatim as it occurs in the source data.	Observation
			Important note for ETL: If no code is found, set it to 0.
		Rural -> 4119867	Data type: integer
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: CONCEPT
			Foreign key domain: Observation
			Important note for ETL: If no code is found, set it to 0.
qualifier_concept_id			Set it to NULL
unit_concept_id			Set it to NULL
provider_id			This is a foreign key referencing to the provider_id in the PROVIDER table.

			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: Provider
			Foreign key domain: n/a
visit_occurrence_id			Use this field to link the VISIT_OCCURRENCE record to its VISIT_OCCURRENCE. This is foreign key to link to the visit_occurrence table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: visit_occurrence
			Foreign key domain: n/a
visit_detail_id			Use this field to link the VISIT_DETAIL record to its VISIT_DETAIL. This is foreign key to link to the visit_detail table.
			Data type: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign key table: visit_occurrence
			Foreign key domain: n/a
observation_source_value	patient_residenc e	Store verbatim from source value.	This field houses the verbatim value from the source data representing

	patient_town_ ci	Do it for every observation	the Observation that
	ty	made.	occurred. For example,
	patient_district	Store verbatim from cource	this could be an ICD10 or
	· —	value.	Read code.
	patient_area_ty		
	pe	Do it for every observation	
	patient occupati		Store the source value for
	. – .	Store verbatim from source	every observation.
	age_years	value.	
	patient_name	Do it for every observation made.	Data type: varchar(50)
	report_district		Required: no
		Store verbatim from source value.	Primary key: no
	. – ,	Do it for every observation	Foreign key: no
		made.	Foreign key table: n/a
		Store verbatim from source value.	Foreign key domain: n/a
		Do it for every observation made.	
		Store verbatim from source value.	
		Do it for every observation made.	
		Store verbatim from source value.	
		Do it for every observation made.	
		Store verbatim from source value.	
		Do it for every observation made.	
		Store verbatim from source value.	
		Do it for every observation made.	
observation_source_conce			This is the concept
pt_id			representing the
			OBSERVATION_SOURCE_V
			ALUE and may not

necessarily be standard.  This field is discouraged from use in analysis because it is not required to contain Standard Concepts that are used across the OHDSI community, and should only be used when Standard Concepts do not adequately represent the source detail for the Observation necessary for a given analytic use case. Consider using OBSERVATION_CONCEPT_ID instead to enable standardized analytics that can be consistent across the network.  This is a mandatory field in OMOP, set it to 0.  Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is stored here for reference.			
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D instead to enable standardized analytics that can be consistent across the network.  This is a mandatory field in OMOP, set it to 0.  Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			_
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OMOP, set it to 0.  Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			the network.
OMOP, set it to 0.  Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			
OMOP, set it to 0.  Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			
Data type:integer Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			This is a mandatory field in
Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			OMOP, set it to 0.
Required: yes Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			
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Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Data type:integer
Foreign key: no Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Required: yes
Foreign key table: n/a Foreign key domain: n/a  unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Primary key: no
This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Foreign key: no
unit_source_value  This field houses the verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Foreign key table: n/a
verbatim value from the source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is			Foreign key domain: n/a
source data representing the unit of the Observation that occurred. This code is to be mapped to a Standard Condition Concept in the Standardized Vocabularies and the original code is	unit_source_value		
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and the original code is			
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Stored here for reference.			stored here for reference.

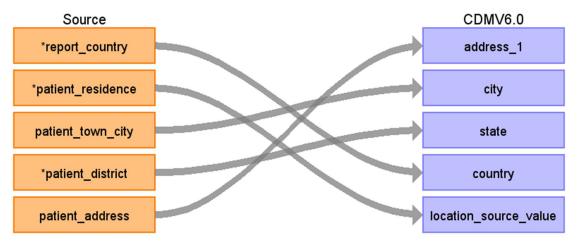
	1
Set it to NULL.	
Data type: varchar(50)	
Required: no	
Primary key: no	
Foreign key: no	
Foreign key table: n/a	
Foreign key domain: n/	'a
This field houses the verbatim value from the source data representir the qualifier of the Observation that occur	ng
Set it to NULL.	
Data type: varchar(50)	
Required: no	
Primary key: no	
Foreign key: no	
Foreign key table: n/a	
Foreign key domain: n/	'a
If the Observation record is related to another record in the database, this field is the primary of the linked record.	,
Data type: bigint	
Required: no	
Primary key: no	
Foreign key: no	
	Data type: varchar(50) Required: no Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/ This field houses the verbatim value from th source data representing the qualifier of the Observation that occur  Set it to NULL.  Data type: varchar(50) Required: no Primary key: no Foreign key: no Foreign key table: n/a Foreign key domain: n/  If the Observation reconding is related to another record in the database, this field is the primary of the linked record.  Data type: bigint Required: no Primary key: no Primary key: no

	Foreign key table: n/a
	Foreign key domain: n/a
obs_event_field_concept_i	If the Observation record
d	is related to another record in the database,
	this field is the
	CONCEPT_ID that
	identifies which table the
	primary key of the linked record came from.
	record came from.
	This is a mandatory field,
	set it to 0.
	Data type: integer
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table:
	CONCEPT
	Foreign key domain: n/a
value_as_datetime	It is possible that some
	Observation records might store a result as a date
	value.
	Set it to NULL.
	Data type: datetime
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a

### Table name: location

The LOCATION table represents a generic way to capture physical location or address information of Persons and Care Sites. New to CDM v6.0 The LOCATION table now includes latitude and longitude

### Reading from who\_idsr\_synthetic\_v1



Destination Field	Source Field	Logic	Comment
location_id			A unique key given to a unique Location.
			Note: Here the location of the patient is recorded.
			Data type: bigint
			Required: yes
			Primary key: yes
			Foreign key: no
			Important note for ETL: Each instance of a Location in the source data should be assigned this unique key. Auto generate integer for each unique location.
address_1	patient_address	Store the first 50 alpha numeric characters of the physical address to populate this field	This is the first line of the address.

			Data (50)
			Data type: varchar(50)
			Required: no
			Primary key: no
			Foreign key: no
			Important note for ETL: Fill
			up to first 50 alpha numeric characters of the physical
			address
address_2			This is the second line of the
			address
			Set it to NULL
			Data type: varchar(50)
			Required: no
			Primary key: no
			Foreign key: no
city	patient_town_city	patient_town_city => city	Data type: varchar(50)
			Required: no
			Primary key: no
			Foreign key: no
state	patient_district	patient_district => state	Here the US states are not used and thus store only the first two characters of district name from the source.
			Data type: varchar(2)
			Required: no
			Primary key: no
			Foreign key: no
zip			Set it to NULL

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Foreign key: no				Required: no
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Data type: float Required: no Primary key: no				
Required: no Primary key: no				Set it to NULL.
Primary key: no				Data type: float
				Required: no
Foreign key: no				Primary key: no
				Foreign key: no

longitude		The geocoded longitude.
		Set it to NULL.
		Data type: float
		Required: no
		Primary key: no
		Foreign key: no

## Table name: provider

The PROVIDER table contains a list of uniquely identified healthcare providers. These are individuals providing hands-on healthcare to patients, such as physicians, nurses, midwives, physical therapists etc.

Reading from who\_idsr\_synthetic\_v1



Destination Field	Source Field	Logic	Comment
provider_id			This is an autogenerated number for every unique reporter identified in the dataset(s)
			Datatype: bigint
			Required: yes
			Primary key: yes
			Foreign key: no
			Important note for ETL: Generate unique integer for each reporter
provider_name	person_form_complete	person_form_complete => provider	Here the person who completed the form filling is considered to be the provider.
			Datatype: varchar(255) Required: no Primary key: no Foreign key: no

	Foreign key table: n/a
	Foreign key domain: n/a
npi	This is the National Provider Number issued to health care providers in the US by the Centers for Medicare and Medicaid Services (CMS).
	Set it to NULL
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a
dea	This is the identifier issued by the DEA, a US federal agency, that allows a provider to write prescriptions for controlled substances.
	Set it to NULL
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain:

	n/a
specialty_concept_id	This field either represents the most common specialty that occurs in the data or the most specific concept that represents all specialties listed, should the provider have more than one. This includes physician specialties such as internal medicine, emergency medicine, etc. and allied health professionals such as nurses, midwives, and pharmacists.
	Set it to Surveyor -> 4023458.
	Datatype: integer Required: yes Primary key: no
	Foreign key: yes  Foreign key table:  CONCEPT  Foreign key domain: n/a
care_site_id	This is the  CARE_SITE_ID for the location that the provider primarily practices in.  This is a foreign key linking the reporter to a single or multiple reporting facility

	Data type: bigint
	Required: no
	Primary key: no
	Foreign key: yes
	Foreign key table: CARE_SITE
	Important note for ETL: Populate the care_site table first and then this table.
year_of_birth	Not available in the source dataset, set it to NULL
	Datatype: integer
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a
gender_concept_id	This field represents the recorded gender of the provider in the source data.
	This is a mandatory field, so set it to 0.
	Datatype: integer
	Required: no
	Primary key: no

		Foreign key: yes
		Foreign key table: CONCEPT
		Foreign key domain: n/a
provider_source_value	person_form_complete	Use this field to link back to providers in the source data. This is typically used for error checking of ETL logic.
		Datatype: varchar(50)
		Required: no
		Primary key: no
		Foreign key: no
		Foreign key table: n/a
		Foreign key domain: n/a
specialty_source_value		Set it to NULL
		This is the kind of provider or specialty as it appears in the source data. This includes physician specialties such as internal medicine, emergency medicine, etc. and allied health professionals such as nurses, midwives, and pharmacists.
		Set it to NULL.
		Datatype: varchar(50)
		Required: no

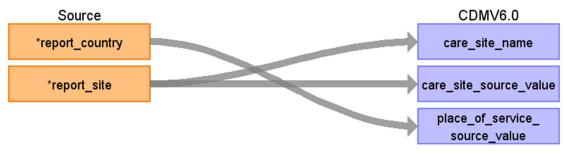
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a
specialty_source_concept_id	This is often zero as many sites use proprietary codes to store physician speciality.
	This is a mandatory field, set it to 0.
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a
gender_source_value	This is provider's gender as it appears in the source data.
	Set it to NULL
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a

gender_source_concept_id	This is often zero as many sites use proprietary codes to store provider gender.
	This is a mandatory field, set it to 0.
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign key table: n/a
	Foreign key domain: n/a

# Table name: care\_site

The CARE\_SITE table contains a list of uniquely identified institutional (physical or organizational) units where healthcare delivery is practiced (offices, wards, hospitals, clinics, etc.).

#### Reading from who\_idsr\_synthetic\_v1



Destination Field	Source Field	Logic	Comment
care_site_id			This is an autogenerated number for every unique health care facility identified in the dataset(s)
			Datatype: bigint
			Required: yes Primary key: yes
			Foreign key: no
			Foreign table: n/a
			Foreign key domain: n/a
			Important note for ETL: Generate unique integer for each health care facility
care_site_name	report_site	report_site => care_site_name	
		The source data form does not contain the facility details but only stores the reporting details.	

place_of_service_concept_id			This is a high-level way of characterizing a Care Site.
			Place of service concept id: 4139501 for Health center
			Data type: integer
			Required: yes
			Primary key: no
			Foreign key: yes
			Foreign key table: CONCEPT
			Foreign key domain: VISIT
location_id			Foreign key linking the location table for care site location.
			Datatype: bigint
			Required: no
			Primary key: no
			Foreign key: yes
			Foreign table: Location
			Foreign key domain: n/a
care_site_source_value	• –	report site as it appears in	Datatype: varchar(50) Required: no
			Primary key: no
			Foreign key: no
			Foreign table: n/a
			Foreign key domain: n/a
place_of_service_source_value	report_country		The name of the country as it appears in the source

	data.
	Datatype: varchar(20)
	Required: no
	Primary key: no
	Foreign key: no
	Foreign table: n/a
	Foreign key domain: n/a
	Not available in the
	source dataset, set it to
	NULL

## Appendix: source tables

## Table: who\_idsr\_synthetic\_v1

This generic synthetic dataset is based on the World Health Organisation's (WHO) Integrated Disease Surveillance and Response (IDSR) in the WHO African Region Case Based Reporting Form.

Refer to the Annex 2F: IDSR immediate case-based reporting form of the IDSR's WHO African Region, Third Edition.

This synthetic data has the following characteristics:

Table Name: who\_idsr\_synthetic\_v1 (Postgres database table)

Number for fields: 35

Number of records: 51299

Field	Туре	Most freq. value	Comment
recnr	bigint		
rec_identifier	text		
report_country	character varying	Wakanda	
report_province	character varying	Northern	
report_district	character varying	Mena Ngai	
report_site	character varying	Public Healthcare Services Center	
diagnosis	character varying		
patient_type	character varying	Out-Patient	
patient_name	character varying	Baba P	
patient_dob	date	2003-12-29	
date_health_facility	date	2022-03-25	
age_years	integer	21	
age_months	integer	0	
age_days	integer	15	
patient_sex	character varying	Male	
patient_residence	character varying	Lion cult	
patient_town_city	character varying		

patient_district	character varying	Mena Ngai
patient_area_type	character varying	Urban
patient_address	character varying	
patient_occupation	character varying	
date_onset_symptoms	date	2021-01-08
travel_history	character varying	No
travel_destination	character varying	
vaccine_doses_received	integer	99
date_last_vaccine	date	
vaccine_name	character varying	
date_specimen_collected	date	2020-08-15
date_specimen_sent_lab	date	2021-07-03
lab_result	character varying	Negative
outcome	character varying	Transferred out
final_classification	character varying	
date_form_sent_district	date	2022-05-18
date_facility_notified_district	date	2022-08-19
person_form_complete	character varying	Everett Ross