OMOP Common Data Model 5.4

Vocabulary tables

Concept

Column	Type
concept_id	INT
concept_name	VARCHAR
domain_id	VARCHAR
vocabulary_id	VARCHAR
concept_class_id	VARCHAR
standard_concept	VARCHAR
concept_code	VARCHAR
valid_start_date	DATE
valid_end_date	DATE
invalid_reason	VARCHAR

Concept_class

Column	Type
concept_class_id	VARCHAR
concept_class_name	VARCHAR
concept_class_concept_id	INT

Vocabulary

Column	Type
vocabulary_id	VARCHAR
vocabulary_name	VARCHAR
vocabulary_reference	VARCHAR
vocabulary_version	VARCHAR
vocabulary_concept_id	INT

Source_to_concept_map

Column	Type
source_code	VARCHAR
source_concept_id	INT
source_vocabulary_id	VARCHAR
source_code_description	VARCHAR
target_concept_id	INT
target_vocabulary_id	VARCHAR
valid_start_date	DATE
valid_end_date	DATE
invalid_reason	VARCHAR

Domain

Column	Type
domain_id	VARCHAR
domain_name	VARCHAR
domain_concept_id	INT

Concept_synonym

Column	Type
concept_id	INT
concept_synonym_name	VARCHAR
language_concept_id	INT
ancestor_concept_id	INT
descendant_concept_id	INT
min_levels_of_separation	INT
max_levels_of_separation	INT

Concept_relationship

Column	Type
concept_id_1	INT
concept_id_2	INT
relationship_id	VARCHAR
valid_start_date	DATE
valid_end_date	DATE
invalid_reason	VARCHAR

Relationship

Column	Type
relationship_id	VARCHAR
relationship_name	VARCHAR
is_hierarchical	VARCHAR
defines_ancestry	VARCHAR
reverse_relationship_id	VARCHAR
relationship_concept_id	INT

Drug_strength

Column	Type
drug_concept_id	INT
ingredient_concept_id	INT
amount_value	FLOAT
amount_unit_concept_id	INT
numerator_value	FLOAT
numerator_unit_concept_id	INT
denominator_value	FLOAT
denominator_unit_concept_id	INT
box_size	INT
valid_start_date	DATE
valid_end_date	DATE
invalid_reason	VARCHAR

Health system data tables

Provider

Column	Type
provider_id	INT
provider_name	VARCHAR
npi	VARCHAR
dea	VARCHAR
specialty_concept_id	INT
care_site_id	INT
year_of_birth	INT
gender_concept_id	INT
provider_source_value	VARCHAR
specialty_source_value	VARCHAR
specialty_source_concept_id	INT
gender_source_value	VARCHAR
gender_source_concept_id	INT

Care_site

Column	Type
care_site_id	INT
care_site_name	VARCHAR
place_of_service_concept_id	INT
location_id	INT
care_site_source_value	VARCHAR
place_of_service_source_value	VARCHAR

Location

Column	Type
location_id	INT
address_1	VARCHAR
address_2	VARCHAR
city	VARCHAR
state	VARCHAR
zip	VARCHAR
county	VARCHAR
location_source_value	VARCHAR
country_concept_id	INT
country_source_value	VARCHAR
latitude	FLOAT
longitude	FLOAT

Metadata tables

Metadata

Column	Type
metadata_id	INT
metadata_concept_id	INT
metadata_type_concept_id	INT
name	VARCHAR
value_as_string	VARCHAR
value_as_concept_id	INT
value_as_number	FLOAT
metadata_date	DATE
metadata_datetime	DATETIME

Cdm_source

Column	Type
cdm_source_name	VARCHAR
cdm_source_abbreviation	VARCHAR
cdm_holder	VARCHAR
source_description	VARCHAR
source_documentation_reference	VARCHAR
cdm_etl_reference	VARCHAR
source_release_date	DATE
cdm_release_date	DATE
cdm_version	VARCHAR
cdm_version_concept_id	INT
vocabulary_version	VARCHAR

Clinical data tables

Person

Column	Type
person_id	INT
gender_concept_id	INT
year_of_birth	INT
month_of_birth	INT
day_of_birth	INT
birth_datetime	DATETIME
race_concept_id	INT
ethnicity_concept_id	INT
location_id	INT
provider_id	INT
care_site_id	INT
person_source_value	VARCHAR
gender_source_value	VARCHAR
gender_source_concept_id	INT
race_source_value	VARCHAR
race_source_concept_id	INT
ethnicity_source_value	VARCHAR
ethnicity_source_concept_id	INT

Observation_period

Column	Type
observation_period_id	INT
person_id	INT
observation_period_start_date	DATE
observation_period_end_date	DATE
period_type_concept_id	INT

Death

Column	Type
person_id	INT
death_date	DATE
death_datetime	DATETIME
death_type_concept_id	INT
cause_concept_id	INT
cause_source_value	VARCHAR
cause_source_concept_id	INT

Visit_occurrence

Column	Type
visit_occurrence_id	INT
person_id	INT
visit_concept_id	INT
visit_start_date	DATE
visit_start_datetime	DATETIME
visit_end_date	DATE
visit_end_datetime	DATETIME
visit_type_concept_id	INT
provider_id	INT
care_site_id	INT
visit_source_value	VARCHAR
visit_source_concept_id	INT
admitted_from_concept_id	INT
admitted_from_source_value	VARCHAR
discharged_to_concept_id	INT
discharged_to_source_value	VARCHAR
preceding_visit_occurrence_id	INT

Visit_detail

Column	Type
visit_detail_id	INT
person_id	INT
visit_detail_concept_id	INT
visit_detail_start_date	DATE
visit_detail_start_datetime	DATETIME
visit_detail_end_date	DATE
visit_detail_end_datetime	DATETIME
visit_detail_type_concept_id	INT
provider_id	INT
care_site_id	INT
visit_detail_source_value	VARCHAR
visit_detail_source_concept_id	INT
admitted_from_concept_id	INT
admitted_from_source_value	VARCHAR
discharged_to_source_value	VARCHAR
discharged_to_concept_id	INT
preceding_visit_detail_id	INT
parent_visit_detail_id	INT
visit_occurrence_id	INT

Condition_occurrence

Column	Type
condition_occurrence_id	INT
person_id	INT
condition_concept_id	INT
condition_start_date	DATE
condition_start_datetime	DATETIME
condition_end_date	DATE
condition_end_datetime	DATETIME
condition_type_concept_id	INT
condition_status_concept_id	INT
stop_reason	VARCHAR
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
condition_source_value	VARCHAR
condition_source_concept_id	INT
condition_status_source_value	VARCHAR

Drug_exposure

Column	Type
drug_exposure_id	INT
person_id	INT
drug_concept_id	INT
drug_exposure_start_date	DATE
drug_exposure_start_datetime	DATETIME
drug_exposure_end_date	DATE
drug_exposure_end_datetime	DATETIME
verbatim_end_date	DATE
drug_type_concept_id	INT
stop_reason	VARCHAR
refills	INT
quantity	FLOAT
days_supply	INT
sig	VARCHAR
route_concept_id	INT
lot_number	VARCHAR
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
drug_source_value	VARCHAR
drug_source_concept_id	INT
route_source_value	VARCHAR
dose_unit_source_value	VARCHAR

Procedure_occurrence

Column	Type
procedure_occurrence_id	INT
person_id	INT
procedure_concept_id	INT
procedure_date	DATE
procedure_datetime	DATETIME
procedure_end_date	DATE
procedure_end_datetime	DATETIME
procedure_type_concept_id	INT
modifier_concept_id	INT
quantity	INT
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
procedure_source_value	VARCHAR
procedure_source_concept_id	INT
modifier_source_value	VARCHAR

Device_exposure

Column	Type
device_exposure_id	INT
person_id	INT
device_concept_id	INT
device_exposure_start_date	DATE
device_exposure_start_datetime	DATETIME
device_exposure_end_date	DATE
device_exposure_end_datetime	DATETIME
device_type_concept_id	INT
unique_device_id	VARCHAR
production_id	VARCHAR
quantity	INT
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
device_source_value	VARCHAR
device_source_concept_id	INT
unit_concept_id	INT
unit_source_value	VARCHAR
unit_source_concept_id	INT

Measurement

Column	Type
measurement_id	INT
person_id	INT
measurement_concept_id	INT
measurement_date	DATE
measurement_datetime	DATETIME
measurement_time	VARCHAR
measurement_type_concept_id	INT
operator_concept_id	INT
value_as_number	FLOAT
value_as_concept_id	INT
unit_concept_id	INT
range_low	FLOAT
range_high	FLOAT
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
measurement_source_value	VARCHAR
measurement_source_concept_id	INT
unit_source_value	VARCHAR
unit_source_concept_id	INT
value_source_value	VARCHAR
measurement_event_id	INT
meas_event_field_concept_id	INT

Observation

Column	Type
observation_id	INT
person_id	INT
observation_concept_id	INT
observation_date	DATE
observation_datetime	DATETIME
observation_type_concept_id	INT
value_as_number	FLOAT
value_as_string	VARCHAR
value_as_concept_id	INT
qualifier_concept_id	INT
unit_concept_id	INT
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
observation_source_value	VARCHAR
observation_source_concept_id	INT
unit_source_value	VARCHAR
qualifier_source_value	VARCHAR
value_source_value	VARCHAR
observation_event_id	INT
obs_event_field_concept_id	INT

Note

Column	Type
note_id	INT
person_id	INT
note_date	DATE
note_datetime	DATETIME
note_type_concept_id	INT
note_class_concept_id	INT
note_title	VARCHAR
note_text	VARCHAR
encoding_concept_id	INT
language_concept_id	INT
provider_id	INT
visit_occurrence_id	INT
visit_detail_id	INT
note_source_value	VARCHAR
note_event_id	INT
note_event_field_concept_id	INT

Note_nlp

Column	Type
note_nlp_id	INT
note_id	INT
section_concept_id	INT
snippet	VARCHAR
offset	VARCHAR
lexical_variant	VARCHAR
note_nlp_concept_id	INT
note_nlp_source_concept_id	INT
nlp_system	VARCHAR
nlp_date	DATE
nlp_datetime	DATETIME
term_exists	VARCHAR
term_temporal	VARCHAR
term_modifiers	VARCHAR

Specimen

Column	Type
specimen_id	INT
person_id	INT
specimen_concept_id	INT
specimen_type_concept_id	INT
specimen_date	DATE
specimen_datetime	DATETIME
quantity	FLOAT
unit_concept_id	INT
anatomic_site_concept_id	INT
disease_status_concept_id	INT
specimen_source_id	INT
specimen_source_value	VARCHAR
unit_source_value	VARCHAR
anatomic_site_source_value	VARCHAR
disease_status_source_value	VARCHAR

Fact_relationship

Column	Type
domain_concept_id_1	INT
fact_id_1	INT
domain_concept_id_2	INT
fact_id_2	INT
relationship_concept_id	INT

Health economics data tables

Cost

Column	Type
cost_id	INT
cost_event_id	INT
cost_domain_id	VARCHAR
cost_type_concept_id	INT
currency_concept_id	INT
total_charge	FLOAT
total_cost	FLOAT
total_paid	FLOAT
paid_by_payer	FLOAT
paid_by_patient	FLOAT
paid_patient_copay	FLOAT
paid_patient_coinsurance	FLOAT
paid_patient_deductible	FLOAT
paid_by_primary	FLOAT
paid_ingredient_cost	FLOAT
paid_dispensing_fee	FLOAT
payer_plan_period_id	INT
amount_allowed	FLOAT
revenue_code_concept_id	INT
revenue_code_source_value	VARCHAR
drg_concept_id	INT
drg_source_value	VARCHAR

Payer_plan_period

Column	Type
payer_plan_period_id	INT
person_id	INT
payer_plan_period_start_date	DATE
payer_plan_period_end_date	DATE
payer_concept_id	INT
payer_source_value	VARCHAR
payer_source_concept_id	INT
plan_concept_id	INT
plan_source_value	VARCHAR
plan_source_concept_id	INT
sponsor_concept_id	INT
sponsor_source_value	VARCHAR
sponsor_source_concept_id	INT
family_source_value	VARCHAR
stop_reason_concept_id	INT
stop_reason_source_value	VARCHAR
stop_reason_source_concept_id	INT

Standardized derived elements

Condition_era

Column	Type
condition_era_id	INT
person_id	INT
condition_concept_id	INT
condition_era_start_date	DATE
condition_era_end_date	DATE
condition_occurrence_count	INT

Drug_era

Column	Type
drug_era_id	INT
person_id	INT
drug_concept_id	INT
drug_era_start_date	DATE
drug_era_end_date	DATE
drug_exposure_count	INT
gap_days	INT

Dose_era

Column	Type
dose_era_id	INT
person_id	INT
drug_concept_id	INT
unit_concept_id	INT
dose_value	FLOAT
dose_era_start_date	DATE
dose_era_end_date	DATE

Episode

Column	Type
episode_id	INT
person_id	INT
episode_concept_id	INT
episode_start_date	DATE
episode_start_datetime	DATETIME
episode_end_date	DATE
episode_end_datetime	DATETIME
episode_parent_id	INT
episode_number	INT
episode_object_concept_id	INT
episode_type_concept_id	INT
episode_source_value	VARCHAR
episode_source_concept_id	INT

Episode_event

Column	Type
episode_id	INT
event_id	INT
episode_event_field_concept_id	INT

Cohort

Column	Type
cohort_definition_id	INT
subject_id	INT
cohort_start_date	DATE
cohort_end_date	DATE

Cohort_definition

Column	Type
cohort_definition_id	INT
cohort_definition_name	VARCHAR
cohort_definition_description	VARCHAR
definition_type_concept_id	INT
cohort_definition_syntax	VARCHAR
subject_concept_id	INT
cohort_initiation_date	DATE

Legend

- Clinical data tables
- Health system data tables
- Health economics data tables
- Standardized derived elements
- Metadata tables
- Vocabulary tables

Primary key