IBM Explorys Therapeutic Datasets - Delivered

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IBM Explorys Therapeutic Datasets – Delivered

The IBM Explorys Therapeutic Datasets – Delivered is a dataset based on the IBM Explorys SuperMart Data Model. The IBM Explorys Therapeutic Datasets – Delivered modifications made to the SuperMart are listed in Appendix G Release Notes.

The Entity Relationship Diagram shown is written with a patient being the center of the data model, which is represented by v_demographic. For example, one explorys_patient_id can be in many cohorts (one-to-many) and one explorys_patient_id could have multiple encounters in v_encounter. Furthermore, v_encounter has a one-to-many relationship with the majority of views in the data model. That is, one explorys_patient_id can have multiple encounters, and one encounter can be tied to multiple admissions, immunizations, providers, etc.
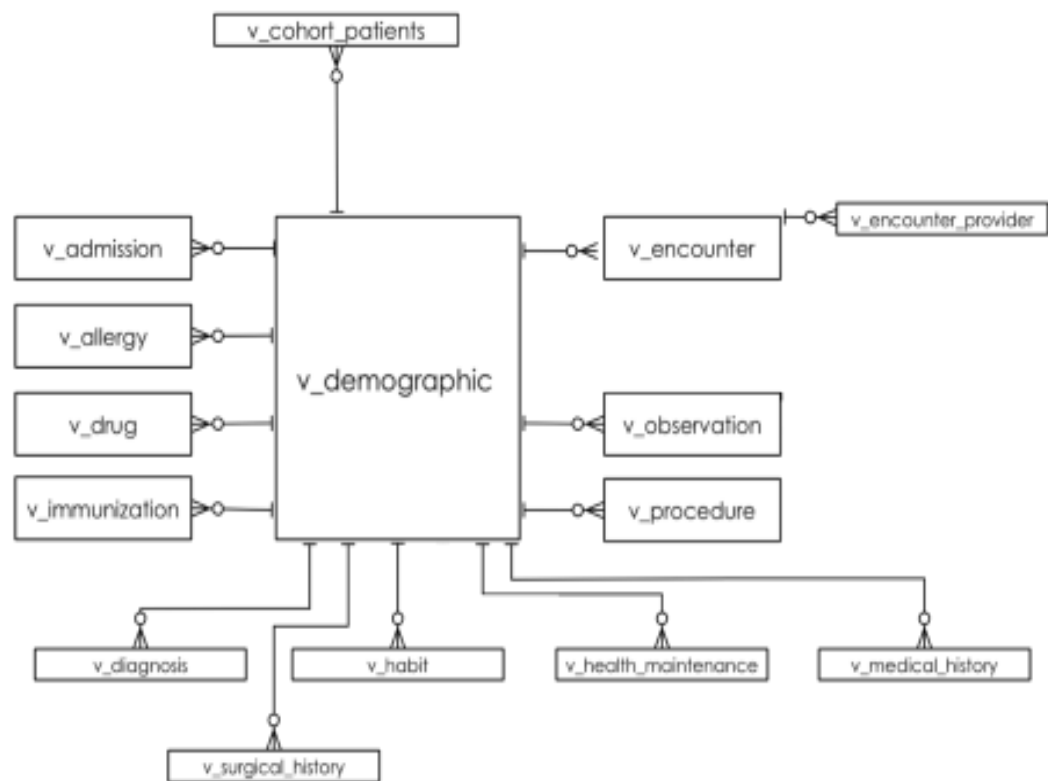
De-Identification Notes

The following information outlines some of the de-identification procedures and artifacts present in the data.

Truncated Birthdates for Patients Over 90

As part of the de-identification process, any patients over 90 years of age have their birth year truncated to current year - 90. For example, a 94-year-old patient in the Universe will have a birth year of 1925 in the life science dataset if the current year is 2015. This can cause artificial spikes in number of patients who are 90 years old, since all patients with age > 90 will be given the same birth year.

Excluded death year

We remove death dates and records with diagnoses or procedures relating to the patient's death for patients who have died within the last 365 days.

Excluded birth year

We null birth year for all patients with a birth year within the last 365 days and for patients with birth and death years within 365 days of each other.

Excluded demographic information

We remove all identifying patient demographic information such as name, birth/death day and month, phone number, address, and social security number.

Blurred or removed cohort size

A cohort selected in the Explore application will have the cohort size rounded to the nearest 10 patients. If a cohort has less than 10 patients the size will not be displayed. The exact cohort size is available in SuperMart via the v_cohort_patients view and column "cohort_size_actual".

Obfuscated Line Charges

Line charges are shown for procedures that come from billing source systems in Life Sciences data. These values are blurred from the actual dollar amount on the record, and the obfuscated values are based on the average cost of the particular procedure plus a randomized amount.

Medical Codes

Medical codes, such as procedure or diagnosis codes in various ontologies, that are related to death events are removed from the Life Sciences therapeutic dataset.

v_admission

A view containing a patient's entrance to a facility for inpatient or outpatient encounters

- admission_date
- contact_date
- data_grid_date_updated
- discharge_date
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- record_id_hash
- source_connection_type
- source_system_type
- std_admission_source
- std_admission_type
- std_discharge_disposition

admission_date

Data Type	Timestamp
Definition	Date of admission, which can come from historical data and include pre-EMR dates
Notes	Sometimes includes known EMR default dates such as "1900-01-01"
Values	Dates in YYYY-MM-DD hh:mm:ss format

contact_date

Data Type	Timestamp
Definition	date of interaction with the patient or patient's record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered.

Values	Dates in YYYY-MM-DD hh:mm:ss format

discharge_date

Data Type	Timestamp
Definition	Date patient was discharged from the corresponding admission event
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via the encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id.
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

record_id_hash

Data Type	Integer
Definition	Hashed value of admission-record identifier used in source system
Notes	
Values	Numerical codes

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source_connection_type

Data Type	Integer
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_admission_source

Data Type	Varchar
Definition	Patient location prior to admission to the hospital
Notes	Comprehensive list of admission source definitions can be found here – http://www.resdac.org/cms-data/variables/Claim-Source- Inpatient-Admission-Code
Values	NULL
	HOME
	CLINIC REFERRAL
	EMERGENCY ROOM
	COURT/LAW ENFORCEMENT
	HMO REFERRAL
	INFORMATION NOT AVAILABLE
	INTRA-HOSPITAL TRANSFER
	PHYSICIAN REFERRAL
	TRANSFER FROM A HOSPITAL
	TRANSFER FROM ANOTHER HEALTH CARE FACILITY
	TRANSFER FROM A SKILLED NURSING FACILITY

std_admission_type

Data Type	Varchar
Definition	Indicates the type and priority of service
Notes	• We recommend customers use std_encounter_type instead by joining to v_encounter; values are the same but meanings often ambiguous/inconsistent • Usage of this field is overloaded. For all claims/billing systems this field indicates the type and priority of service (http://www.resdac.org/c ms-data/variables/Claim-Inpatient-Admission-Type-Code)

std_discharge_disposition

Data Type	Varchar
Definition	The condition, location, or status to which the patient was discharged
Notes	
Values	SNOMED codes

v_allergy

A view containing a patient's adverse reactions to drugs, foods, and materials.

- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- onset_date
- record_id_hash
- source_connection_type
- source_system_type
- status
- std_allergen_type
- std_allergy
- std_reaction
- std_reaction_description
- std_severity
- std_status
- stop_date

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorуs_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

onset_date

Data Type	Timestamp
Definition	Date allergy started
Notes	can be self-reported by patient
Values	Dates in YYYY-MM-DD hh:mm:ss format

record_id_hash

Data Type	Integer
Definition	Hashed value of allergy-record identifier used in source system
Notes	
Values	Numerical codes

source_connection_type

Data Type	Integer
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

status

Data Type	Varchar
Definition	Indicates if allergy is still active for the patient
Notes	
Values	Free text

std_allergen_type

Data Type	Varchar	
Definition	General allergen category	
Notes	Values are SNOMED codes indicating allergen category	
Values	416098002	Drug allergy
	414285001	Food allergy
	426232007	Environmental allergy
	419838000	Allergic reaction to chemical
	232347008	Dander (animal) allergy
	300916003	Latex allergy
	293637006	Contrast media allergy

std_allergy

Data Type	Varchar
Definition	Code describing the allergen
Notes	
Values	SNOMED codes

std_reaction

Data Type	Varchar
Definition	General category of reaction to allergen (Allergic disposition, Gastrointestinal irritation, etc.)
Notes	
Values	SNOMED codes

std_reaction_description

Data Type	Varchar
Definition	Specific description of reaction to allergen (Skin eruptions, Upset stomach, etc.)
Notes	
Values	SNOMED codes

std_severity

Data Type	Varchar
Definition	Description of the level of severity of the allergy
Notes	Target standardization values vary throughout life sciences dataset
Values	Text

See additional values in Appendix D – Severity, page 15 of this data dictionary.

std_status

Data Type	Varchar
Definition	Provides the standardized value of allergy record status. The column can contain any of the following values: • Active • Deleted • Erroneous • Resolved • NULL
Notes	
Values	Text

stop_date

Data Type	Timestamp
Definition	Date at which patient no longer had allergy
Notes	Can be self-reported by patient
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_ast

This view contains the results of testing the susceptibility of patient-borne microbes t treatment by antibiotics.

- explorys_patient_id
- record_id_hash
- Ignore_status_str
- data_grid_date_updated
- extract_date
- key_hash
- hashed_encounter_record_id
- hashed_order_id
- order_date
- collection_date
- result_date
- std_lab_procedure
- std_specimen_type
- std_body_site
- std_organism

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numeric values

record_id_hash

Data Type	Integer
Definition	Hashed value of antimicrobial susceptibility testing record identifier used in source system
Notes	
Values	Numeric values

ignore_status_str

Data Type	Varchar
Definition	Identifies imputed records
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in Explorys data grid; does not correspond to record updates by provider
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Varchar
Definition	Timestamp of extraction from the Explorys data grid
Notes	
Values	

key_hash

Data Type	Varchar
Definition	Hashed value of composite key
Notes	
Values	

hashed_encounter_record_id

Data Type	Varchar
Definition	Hashed value of antimicrobial susceptibility testing record identifier used in source system
Notes	
Values	

hashed_order_id

Data Type	Varchar
Definition	Hashed value of order record ID linked to this antimicrobial susceptibility testing record
Notes	
Values	

order_date

Data Type	Timestamp
Definition	Date and time on which the susceptibility test was ordered
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

collection_date

Data Type	Timestamp
Definition	Date and time on which the specimen was collected
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

result_date

Data Type	Timestamp
Definition	Date and time on which the specimen test was resulted
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

std_lab_procedure

Data Type	Varchar
Definition	SNOMED Procedure code for the lab that was performed
Notes	
Values	

std_specimen_type

Data Type	Varchar
Definition	SNOMED Substance or Specimen code for the type of specimen
Notes	
Values	

std_body_site

Data Type	Varchar
Definition	SNOMED Body Structure code for the site from which the specimen was drawn
Notes	
Values	

std_organism

Data Type	Varchar
Definition	SNOMED Organism code for the organism whose susceptibility to antibiotics was tested
Notes	
Values	

std_antibiotic_test_method

Data Type	Varchar
Definition	LOINC 'ABXBACT' code for the antibiotic and manner by which it was tested
Notes	
Values	

std_sensitivity_qualifier

Data Type	Varchar
Definition	Standardized qualifier for the magnitude of the result
Notes	
Values	

std_sensitivity

Data Type	Varchar
Definition	Standardized magnitude of the result
Notes	
Values	

std_sensitivity_unit_of_measure

Data Type	Varchar
Definition	Standard units of measure for the magnitude of the result
Notes	
Values	

std_susceptibility

Data Type	Varchar
Definition	Standardized interpretation of the rsult
Notes	
Values	

std_result_status

Data Type	Varchar
Definition	Standardized status of the result interpretation
Notes	
Values	

v_cohort_fast_search & v_cohort_power_search

Views containing the underlying criteria for all fast and power search cohorts generated and saved through IBM Explorys Cohort Discovery.

- cohort_id
- user_id
- cohort_name
- cohort_size
- concept_description
- concept_key

cohort_id

Data Type	Integer
Definition	Cohort ID of cohort created in IBM Explorys Cohort Discovery
Notes	Cohort IDs can be found in the v_cohort_patients view
Values	Numeric values

user_id

Data Type	Integer
Definition	ID number associated with user who created the cohort in IBM Explorys Cohort Discovery
Notes	
Values	Numeric values

cohort_name

Data Type	Varchar
Definition	Cohort name defined in Cohort Discovery by user
Notes	
Values	Free text

cohort_size

Data Type	Integer
Definition	Number of patients returned in the cohort search at the time of cohort creation
Notes	
Values	Numeric values

concept_description

Data Type	Varchar
Definition	Description of the concept that matches the text visible in Cohort Discovery during search
Notes	
Values	Standard terms in Cohort Discovery

concept_key

Data Type	Varchar
Definition	Code/s linked to the concept used in Cohort Discovery search (e.g., 73211009 is the code linked to the Diabetes Mellitus concept)
Notes	Users utilizing these codes for searches in SuperMart should be careful to use all appropriate descendants of the returned concept_key
Values	Standard ontology codes; can be SNOMED, RxNorm, or LOINC

v_cohort_patients

A view containing groups of patients created in Cohort Discovery

- cohort_created_on
- cohort_id
- cohort_loaded_on
- cohort_modified_on
- cohort_name
- cohort_size_actual
- cohort_size_blurred
- intraorg_patient_id
- org_id
- user_id
- user_name

cohort_created_on

Data Type	Timestamp
Definition	Date and time on which the cohort was first created
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

cohort_id

Data Type	Integer
Definition	Unique identifier for cohort assigned at time of cohort creation.
Notes	
Values	Numerical codes

cohort_loaded_on

Data Type	Timestamp
Definition	Date and time on which cohort was loaded into Explorys SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

cohort_modified_on

Data Type	Timestamp
Definition	Date of any update or modification to the original cohort criteria.
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

cohort_name

Data Type	Varchar
Definition	User-entered name of cohort created in Cohort Discovery
Notes	
Values	

cohort_ size_actual

Data Type	Integer
Definition	Actual total patient count in cohort
Notes	
Values	Numerical Values

cohort_ size_blurred

Data Type	Integer
Definition	Obfuscated cohort patient count displayed in Explorys Explore to prevent identification
Notes	Some values in this field are modified during the deidentification process. See deidentification notes for more information.

Values	Numerical Values

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

intraorg_patient_id

Data Type	Integer
Definition	Hashed value of unique patient identifier assigned by Explorys across source systems within an organization
Notes	
Values	Numerical codes

org_id

Data Type	Integer
Definition	Organization ID number of user customer account
Notes	
Values	Numerical codes

user_id

Data Type	Integer
Definition	Identification number of user who created cohort
Notes	
Values	Numerical codes

user_name

Data Type	Varchar
Definition	Name of user who created cohort
Notes	
Values	Names

v_cohort_seed

A view containing the seed cohort criteria used to generate a Therapeutic Dataset (TDS) from IBM Explorys Cohort Discovery.

- cohort_id
- tds_name
- concept_description
- concept_key
- search_type

cohort_id

Data Type	Integer
Definition	Unique identifier for defined cohort assigned at time of cohort creation.
Notes	
Values	Numerical codes

tds_name

Data Type	Varchar
Definition	Name of the Therapeutic Dataset
Notes	
Values	

concept_description

Data Type	Varchar
Definition	Description of the concept
Notes	
Values	

concept_key

Data Type	Varchar
Definition	Code for the concept
Notes	
Values	

search_type

Data Type	Varchar
Definition	Type of search used to define the criteria – Power Search or Fast Search
Notes	
Values	Numerical codes

v_demographic

A view containing a patient's gender, ethnicity, race, birth year and insurance.

- birth_year
- age_in_weeks_for_age_under_2_years
- age_in_months for_age_under_8_years
- patient_state
- data_grid_date_updated
- explorys_patient_id
- is_deceased
- record_id_hash
- source_connection_type
- source_system_type

  std_gender
- std_insurance_type
- std_race

birth_year

Data Type	Integer
Definition	Year in which patient was born
Notes	Some values in this field are modified during the deidentification process. See deidentification notes for more information.
Values	Date in YYYY format

age_in_weeks_for_age _under_2_years

Data Type	Integer
Definition	Age in weeks for individuals under 2 years of age
Notes	Age shown in number of weeks under 2 years of age
Values	Numerical weeks

age_in_months_for_age_under_8_years

Data Type	Integer
Definition	Age in months for individuals under 8 years of age
Notes	Age shown in number of months under 8 years of age
Values	Numerical months

patient_state

Data Type	Varchar
Definition	Includes only the 50 States, Washington D.C. and Puerto Rico
Notes	
Values	2-digit abbreviation (NY, OH, etc.)

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

is_deceased

Data Type	Boolean
Definition	patient vitality indicator from social security death index. This indicator is provided only for individuals above the age of eight years.
Notes	
Values	1 = Deceased ; 0 = Not Deceased

record_id_hash

Data Type	Integer
Definition	Hashed value of demographic-record identifier used in source system
Notes	
Values	Numerical codes

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_insurance_type

Data Type	Varchar
Definition	Category of patient insurance provider
Notes	Standard values are listed in XREF.std_code_value with attribute "insurance"; only stores the last insurance type on record for the patient. More detailed health plan information is unavailable due to deidentification.
Values	Private
	Medicare
	Unknown
	Medicaid
	Self-Pay
	Other
	Other Public
	Dental
	Research

std_race

Data Type	Varchar
Definition	Code for patient race
Notes	Standard values are listed in XREF.std_code_value with attribute "race"
Values	See "Appendix D - Race".

std_gender

Data Type	Varchar
Definition	Numerical code for reported gender of patient
Notes	
Values	Unknown
	Male
	Female

See additional values in Appendix A – XREF Data Dictionary page A- 1 of this data dictionary.

v_diagnosis

A view containing clinical determination of diseases or disorders for a patient

- claim_type
- data_grid_date_updated
- diagnosis_code
- diagnosis_date
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- icd_code
- icd_version
- is_admitting
- is_principal
- is_reason_for_visit
- record_id_hash
- snomed_join_id
- source_connection_type
- source_system_type
- status
- std_status

claim_type

Data Type	Varchar	
Definition	Category describing claim record origin	
Notes		
Values	Institutional	837I record (billing records from healthcare facility)
	Professional	837P record (billing records from professional services rendered by healthcare providers

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

diagnosis_code

Data Type	Varchar
Definition	Code for patient diagnosis
Notes	
Values	

diagnosis_date

Data Type	Timestamp
Definition	Date of patient diagnosis
Notes	
Values	Date in YYYY-MM-DD format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

icd_code

Data Type	Varchar
Definition	ICD-9 or ICD-10 code for patient disorder
Notes	The icd_version field notes the ICD version (9 or 10) for the corresponding icd_code value
Values	ICD codes

icd_version

Data Type	Varchar
Definition	ICD release version for the corresponding code in icd_code
Notes	
Values	ICD9; ICD10

is_admitting

Data Type	Boolean
Definition	Indicates if the corresponding diagnosis is the reason for the patient being admitted to a care facility
Notes	
Values	TRUE; FALSE

is_principal

Data Type	Boolean
Definition	Indicates if diagnosis is primary condition for the patient's corresponding encounter
Notes	This field will only be populated for BILLING source_system_type
Values	TRUE; FALSE

is_reason_for_visit

Data Type	Boolean
Definition	Indicates if the corresponding diagnosis is the reason the patient visited the provider
Notes	

Values	TRUE; FALSE

record_id_hash

Data Type	Integer
Definition	Hashed value of diagnosis-record identifier used in source system.
Notes	
Values	Numerical codes

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

status

Data Type	Varchar	
Definition	indicates if diagnosis is still active for the patient	
Notes	Will be deprecated for std_status	
Values	Admitting	Reason for admission
	Complete/COMPLETE	Record is completed
	Discharge	Primary diagnosis determined upon discharge
	Final	Diagnosis confirmed
	INACTIVE	No longer an active issue
	N	Not primary diagnosis
	Reason for Visit	Patient's reason for encounter
	Working	Current hypothesis
	Y	Primary Diagnosis

std_status

Data Type	Varchar
Definition	indicates if diagnosis is still active for the patient
Notes	standardized version of v_diagnosis.status
Values	ACTIVE; RESOLVED; NULL

v_drug

A view containing medications prescribed for a patient.

- all_ndc_codes
- brand_name_descriptions
- brand_name_join_id
- claim_type
- concept_description
- concept_id
- data_grid_date_updated
- display_ndc
- encounter_date
- encounter_join_id
- encounter_record_id_hash
- end_date
- explorys_patient_id
- generic_drug_package_descriptions
- generic_package_join_id
- ingredient_descriptions
- ingredient_rx_cui_join_id
- ndc_code
- prescription_date
- record_id_hash
- rx_cui
- rxnorm_concept_id
- sigs
- snomed_drug_descriptions
- snomed_join_id
- source_connection_type
- source_system_type
- start_date
- std_dosage
- std_order_status
- std_ordering_mode
- std_quantity
- std_refills
- std_route
- target_concept_type

all_ndc_codes

Data Type	Varchar
Definition	All drug NDC codes included on a particular drug record
Notes	If searching for a drug by NDC code the following three fields should be used: ndc_code, all_ndc_codes, display_ndc
Values	Comma-separated NDC codes

brand_name_descriptions

Data Type	Varchar
Definition	Brand name associated with the corresponding brand_name_id value
Notes	Comes from RxNorm distribution
Values	text

brand_name_join_id

Data Type	Integer
Definition	Key used to join v_drug to retrieve the brand_name_id corresponding to the record
Notes	
Values	

claim_type

Data Type	Varchar
Definition	Category describing claim record origin
Notes	
Values	Institutional = 837I record (billing records from healthcare facility)
	Professional = 837P record (billing records from professional services rendered by healthcare

concept_description

Data Type	Varchar
Definition	Description directly associated with the concept code in concept_id field from the RxNorm distribution.
Notes	There can be discrepancies with std_dosage from imprecise standardization and/or lack of granularity in source data. Dosages in std_dosage should be considered more accurate than dosages listed in concept_description
Values	Text

concept_id

Data Type	Varchar
Definition	RxNorm Concept identifier for the drug
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm IDs; redundant with rx_cui field

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

display_ndc

Data Type	Varchar
Definition	Standardized NDC code from all_ndc_code list that has a corresponding RxNorm target
Notes	If searching for a drug by NDC code the following three fields should be used: ndc_code, all_ndc_codes, display_ndc.
Values	NDC codes

encounter_date

Data Type	Timestamp
Definition	Date of the encounter associated with the patient drug record
Notes	
Values	dates in YYYY-MM-DD format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

end_date

Data Type	Timestamp
Definition	Date on which the drug prescription ended/ends
Notes	This value comes directly from the data source and is not imputed based on patient encounter or prescription.
Values	dates in YYYY-MM-DD format

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

generic_drug_package_descriptions

Data Type	Varchar
Definition	Descriptions associated with generic_package_id values
Notes	directly from the rxnorm distribution.
Values	text

generic_package_join_id

Data Type	Integer
Definition	Key used to join v_drug to retrieve the generic_package_id corresponding to the record
Notes	
Values	

ingredient_descriptions

Data Type	Varchar
Definition	Descriptions associated with the ingredient rx_cui codes; comes directly from the rxnorm distribution.
Notes	
Values	Text

ingredient_rx_cui_join_id

Data Type	Integer
Definition	Key used to join v_drug to retrieve the ingredient_rx_cui corresponding to the record
Notes	
Values	

ndc_code

Data Type	Varchar
Definition	drug NDC code included on a particular drug record
Notes	If searching for a drug by NDC code the following three fields should be used: ndc_code, all_ndc_codes, display_ndc.
Values	NDC codes

prescription_date

Data Type	Timestamp
Definition	Date that the prescription was ordered
Notes	If the prescription date is null, the listed drug start_date should be used for analysis where needed
Values	Dates in YYYY-MM-DD hh:mm:ss format

record_id_hash

Data Type	Integer
Definition	Hashed value of drug-record identifier used in source system.
Notes	
Values	Numerical codes

rx_cui

Data Type	Varchar
Definition	Unique RxNorm concept code for the drug
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm codes.

rxnorm_concept_id

Data Type	Varchar
Definition	RxNorm Concept identifier for the drug; comes directly from source system
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm IDs

sigs

Data Type	Varchar
Definition	instructions for drug usage ("take 1 time daily")
Notes	Medication prescription metadata such as "SIG" is standardized into a common format, e.g., "Take 2 tablets per day"
Values	text

snomed_drug_descriptions

Data Type	Varchar
Definition	definitions of SNOMED drug codes associated with the drug's rx_cui.
Notes	These definitions are sourced from the SNOMED distribution. Descriptions are comma separated when more than one code is included in the snomed_drug_ids field
Values	text

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Integer
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

start_date

Data Type	Timestamp
Definition	Date on which the patient started the particular drug order
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

std_dosage

Data Type	Varchar
Definition	Amount of drug to be administered with each usage
Notes	
Values	Numeric value that can include a standard dosage unit

std_order_status

Data Type	Varchar
Definition	Drug record state of completion
Notes	
Values	Complete = Procedure or medication completed
	Erroneous = Entered in error Ordered = Provider ordered Pending = Scheduled for future Canceled = Prescription order canceled

std_ordering_mode

Data Type	Varchar
Definition	Description of care setting in which drug order was placed
Notes	
Values	INPATIENT; OUTPATIENT

std_quantity

Data Type	Varchar
Definition	Amount of drug to be given at time prescription is filled
Notes	
Values	Text; may include units

std_refills

Data Type	Varchar
Definition	Amount of drug to be given at time prescription is filled
Notes	
Values	Text; may include units

std_route

Data Type	Varchar
Definition	Path by which the drug is administered to the patient
Notes	
Values	SNOMED codes

target_concept_type

Data Type	Varchar
Definition	truncated version of RxNorm term type field
Notes	
Values	Drug_Generic_Dr = truncated from Drug_Generic_Drug_Pack
	Drug_Branded_Dr = truncated from Drug_Branded_Drug_Pack
	Drug_Ingredient
	Drug_Brand_Name
	Drug_Precise_In = truncated from Drug_Precise_Ingredient

v_encounter

A view containing a patient's interactions with providers for diagnosis, treatment, notification, etc.

- appt_made_date
- check_in_time
- data_grid_date_updated
- encounter_canceled
- encounter_closed
- encounter_date
- encounter_join_id
- explorys_patient_id
- record_id_hash
- source_connection_type
- source_system_type
- std_encounter_status
- std_encounter_type

appt_made_date

Data Type	Timestamp
Definition	Date that the appointment for the corresponding encounter was first recorded
Notes	Usage of this field is dependent on the EMR platform used and are not always populated
Values	Dates in YYYY-MM-DD hh:mm:ss format

check_in_time

Data Type	Timestamp
Definition	Time at which patient checked in with provider for the encounter
Notes	Usage of this field is dependent on the EMR platform used and are not always populated
Values	Dates in YYYY-MM-DD hh:mm:ss format

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered

Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_canceled

Data Type	Varchar	
Definition	Source system flag for encounter being canceled	
Notes		
Values	Y	encounter canceled
	N	encounter not canceled
	Completed	source system usage ambiguous
	Confirmed	source system usage ambiguous
	Canceled	Encounter canceled
	Pending	source system usage ambiguous

encounter_closed

Data Type	Varchar
Definition	Source system flag for encounter being closed
Notes	
Values	

encounter_date

Data Type	Timestamp
Definition	Date of the encounter associated with the patient record
Notes	
Values	dates in YYYY-MM-DD format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

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record_id_hash

Data Type	Integer
Definition	Hashed value of encounter-record identifier used in source system
Notes	In the secondary-use dataset, v_encounter.record_id_hash is redundant with v_encounter.encounter_join_id
Values	Numerical codes

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_encounter_status

Data Type	Varchar	
Definition	State of completion for the episode of care	
Notes		
Values	CANCELED	A canceled visit
	COMPLETED	A completed encounter
	CONFIRMED	Typically a confirmed appointment
	LEFT WITHOUT SEEN	Patient arrived for visit but left before being seen
	NO SHOW	Did not appear for appointment
	PENDING	Planned future visit
	SCHEDULED	Scheduled appointment
	ARRIVED	Patient showed up for visit

std_encounter_type

Data Type	Varchar	
Definition	General category describing the episode of care	
Notes		
Values	These are several std_encounter_type values, the ones listed below are those most commonly used	
	APPOINTMENT	Record of future planned visit
	CORRESPONDENCE	A letter or phone call to the patient.
	DOCUMENTATION	update to a patient's medical chart
	HOSPITAL_ENCOUNTER	General Hospital Encounter where admission information is ambiguous
	HOSPITAL_INPATIENT	Inpatient admission
	HOSPITAL_OUTPATIENT	Hospital Outpatient visit (ambulatory visit in a hospital)
	LABORATORY	Lab services
	NO_ENCOUNTER	An EMR documentation update (e.g., historical load)
	NURSE_VISIT	Encounter where a nurse was seen (vs. a physician), for example triage in an emergency department
	OBSERVATION	Observation visits (<24 hour inpatient stays) where it is determined whether a patient is well enough to be discharged or requires an inpatient admission
	OFFICE_VISIT	Office Visit (ambulatory visit)
	OTHER	Miscellaneous
	PROCEDURE	non-surgical procedures that is often an outpatient encounter but includes some inpatient procedures
	RADIOLOGY	Imaging encounter
	REFILL	An encounter to get a prescription refilled (in-person or over the phone).
	SURGERY	surgical procedures that is often an outpatient encounter but includes some inpatient procedures
	TELEPHONE	A phone conversation.
	HOSPITAL_EMERGENCY_ROOM_VISIT	Emergency department visit

v_encounter_provider

A view listing providers associated with an encounter record.

- encounter_join_id
- explorys_patient_id
- provider_id_hash
- qualifier
- specialty_name_*
- std_gender
- std_provider_title
- std_provider_type

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

provider_id_hash

Data Type	Varchar
Definition	Hashed value of source provider identifier
Notes	
Values	Numerical codes

qualifier

Data Type	Varchar
Definition	Provider role for the corresponding encounter
Notes	
Values	Text; top 10 most used values in the universe are listed.
	PRIMARY_CARE
	VISITING
	BILLING
	ENTERING
	REFERRING
	ATTENDING
	SIGNING
	ORDERING
	ADMITTING
	RENDERING

specialty_name_*

Data Type	Varchar
Definition	Provider taxonomy, with multiple specialties listed in alphabetical order by column (i.e. specialty_name_1 comes before specialty_name_2 alphabetically)
Notes	Categorization values can be listed across multiple columns; all columns should be queried to make sure all relevant records are found. Multiple specialties are listed when a source system includes multiple values for one provider.
Values	Names of departments/provider specialization

See additional values in Appendix F – Specialty Nam, page 17 of this data dictionary.

std_gender

Data Type	Varchar	
Definition	Sent Query	
Notes	Decode for STD_VALUE via join to XREF.STD_CODE_VALUE table using STD_CODE = V_DEMOGRAPHIC.STD_GENDER and ATTRIBUTE = 'gender' to LL	
Values	0	Unspecified
	1	Male
	2	Female

std_provider_title

Data Type	Varchar
Definition	Official certified designation of provider
Notes	
Values	Text; most used values are listed below
	PHYSICIAN
	NURSE_PRACTITIONER
	REGISTERED_NURSE
	RESOURCE
	MEDICAL_ASSISTANT
	PHYSICIAN_ASSISTANT
	LICENSED_PRACTICAL_NURSE
	OTHER_CLINICAL_STAFF
	RESIDENT
	PHYSICAL_THERAPIST

See additional values in Appendix E – Provider Type and Title, page 16 of this data dictionary.

std_provider_type

Data Type	Varchar
Definition	Classification of provider; often overlaps with std_provider_title
Notes	
Values	Text; most used values are listed below
	PHYSICIAN
	NURSE_PRACTITIONER
	REGISTERED_NURSE
	RESOURCE
	MEDICAL_ASSISTANT
	PHYSICIAN_ASSISTANT
	LICENSED_PRACTICAL_NURSE
	OTHER_CLINICAL_STAFF
	RESIDENT
	PHYSICAL_THERAPIST

See additional values in Appendix E – Provider Type and Title, page 16 of this data dictionary.

v_habit

A view containing chronology of a patient's answers to generalized behavior questions.

- contact_date
- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- mapped_question_answer
- record_id_hash
- source_connection_type
- source_system_type

contact_date

Data Type	Timestamp
Definition	Date of interaction with the patient or patient's record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

mapped_question_answer

Data Type	Varchar	
Definition	Patient reported answer to substance usage questions	
Notes		
Values	Tobacco_y	Patient uses tobacco
	Tobacco_n	Patient does not use tobacco
	Tobacco_passive_no	Never or formerly exposed to secondhand smoke
	Tobacco_passive	Currently exposed to secondhand smoke
	Tobacco_unknown	Tobacco usage unknown
	Tobacco_quit	Patient previously used tobacco
	Alcohol_y	Patient consumes alcohol
	Alcohol_n	Patient does not consume alcohol
	Alcohol_unknown	Alcohol consumption unknown

record_id_hash

Data Type	Integer
Definition	Hashed value of habit-record identifier used in source system
Notes	
Values	Numerical codes

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	

Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

v_health_maintenance

A view containing a current record of health maintenance activity for a patient. Health maintenance activity includes labs, preventive screenings, and vaccinations. This is an EMR construct and may not be populated for all patients.

- assessment_date
- data_grid_date_updated
- explorys_patient_id
- record_id_hash
- rx_cui
- rxnorm_concept_id
- rxnorm_description
- snomed_concept_descriptions
- snomed_concept_types
- snomed_join_id
- source_connection_type
- source_system_type
- std_procedure
- std_status

assessment_date

Data Type	Timestamp
Definition	Date when the patient's chart was updated
Notes	
Values	Dates in YYYY-MM-DD format

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

record_id_hash

Data Type	Integer
Definition	Hashed value of health-maintenance-record identifier used in source system
Notes	
Values	Numerical codes

rx_cui

Data Type	Varchar
Definition	Unique RxNorm concept code for the drug
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm codes.

rxnorm_concept_id

Data Type	Varchar
Definition	RxNorm Concept identifier for the drug; comes directly from source system
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.

Values	RxNorm IDs

rxnorm_description

Data Type	Varchar
Definition	Description associated with the RxNorm concept identifier in rxnorm_concept_id
Notes	
Values	text

snomed_concept_descriptions

Data Type	Varchar
Definition	Descriptions from the SNOMED distribution that correspond to the code in snomed_concept_ids
Notes	
Values	Text

snomed_concept_types

Data Type	Varchar
Definition	Comma-separated list describing category of SNOMED codes in snomed_concept_ids field
Notes	
Values	comma separated list of "PROCEDURE"

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_procedure

Data Type	Varchar
Definition	Health maintenance procedures for screenings, treatments, etc., associated with maintaining a patient's current health
Notes	Values are whitespace separated when there is more than one ID; values are redundant with procedure_snomed_ids
Values	SNOMED codes

std_status

Data Type	Varchar	
Definition	State of health maintenance procedure	
Notes		
Values	Complete	Procedure completed
	Patient_Declined	Patient refused treatment/procedure for condition
	Pending	Planned future procedure
	Not_Indicated	Not reported by patient during update
	Canceled	Canceled procedure
	Postponed	Procedure on hold until a later date
	Out_of_Stock	Materials for procedure out of stock, such as for a vaccination
	Erroneous	Entered in Error
	Declined	Patient refused treatment/procedure for condition

v_immunization

A view containing record of vaccinations to a patient for disease prevention.

- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- immunization_date
- immunization_expiration_date
- manufacturer
- record_id_hash
- route
- rx_cui
- rxnorm_concept_description
- rxnorm_concept_id
- source_connection_type
- source_system_type
- std_defer_reason
- std_dose
- std_manufacturer
- std_route
- std_site
- std_status

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

immunization_date

Data Type	Timestamp
Definition	Date on which the immunization was administered to patient
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

immunization_expiration_date

Data Type	Timestamp
Definition	Ambiguous
Notes	Definition varies across source system usage
Values	Dates in YYYY-MM-DD hh:mm:ss format

manufacturer

Data Type	Varchar
Definition	Company which produced immunization drug
Notes	to be deprecated in favor of std_manufacturer
Values	Free text

record_id_hash

Data Type	Integer
Definition	Hashed value of immunization-record identifier used in source system.
Notes	
Values	Numerical codes

route

Data Type	Varchar
Definition	Source system information about path by which the drug is administered to the patient
Notes	
Values	

rx_cui

Data Type	Varchar
Definition	Unique RxNorm concept code for the drug
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm codes.

rxnorm_concept_description

Data Type	Varchar
Definition	Description associated with the RxNorm concept identifier in rxnorm_concept_id
Notes	
Values	Text

rxnorm_concept_id

Data Type	Varchar
Definition	RxNorm Concept identifier for the drug; comes directly from source system
Notes	Searches for drugs by RxNorm codes should be done on the rx_cui field.
Values	RxNorm IDs

source_connection_type

Data Type	Integer
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_defer_reason

Data Type	Varchar	
Definition	Reason immunization was not administered	
Notes	Some overlap with std_status column values	
Values	Patient_Declined	Patient refused immunization
	Complete	
	Contraindicated	Medical factor prohibited administration of immunization
	Not_Indicated	Reason not given
	Out_of_Stock	Drug not available at time of care
	Postponed	Delayed to later date

std_dose

Data Type	Varchar
Definition	Amount of immunization drug administered
Notes	
Values	Numeric values that may be followed by standardized dosage units

std_manufacturer

Data Type	Varchar
Definition	Company which produced immunization drug
Notes	
Values	Text

std_route

Data Type	Varchar
Definition	Path by which the drug is administered to the patient
Notes	
Values	SNOMED codes

std_site

Data Type	Varchar
Definition	location where the immunization drug was administered
Notes	
Values	SNOMED codes

std_status

Data Type	Varchar	
Definition	Immunization state of completion	
Notes	Some overlap with std_defer_reason usage	
Values	COMPLETE	Immunization completed
	CANCELED	Immunization canceled
	PENDING	Scheduled for Future
	PATIENT_DECLINED	Patient refused immunization
	ERRONEOUS	Entered in Error
	REFUSED	Patient refused immunizationEntered in Error
	CONTRAINDICATED	Medical factor prohibited administration of immunizationPatient refused immunization
	NOT_INDICATED	Defer reason not given
	OUT_OF_STOCK	Immunization drug not available at facilityMedical factor prohibited administration of immunization
	RECOMMENDED	Delayed to a later dateImmunization drug not available at facilityDefer reason not given
		Delayed to a later date
		Defer reason not given
		Defer reason not given
		Immunization drug not available at facility
		Delayed to a later dateImmunization drug not available at facility
		Delayed to a later date

v_implantable_device

A view listing details of a patient's implanted device. This does not list information about the procedure or diagnosis associated with the particular implantable device.

- expiration_date
- explanted_date
- explorys_patient_id
- implanted_date
- std_implant_name
- std_implant_size
- std_implant_type_code
- std_manufacturer_code
- std_model_number

expiration_date

Data Type	Timestamp
Definition	Date of implanted object expiration
Notes	
Values	Dates in YYYY-MM-DD hh:mm:sec format

explanted_date

Data Type	Timestamp
Definition	Date on which the implant was removed
Notes	
Values	Dates in YYYY-MM-DD hh:mm:sec format

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

implanted_date

Data Type	Timestamp
Definition	Date on which the device was implanted

Notes	
Values	Dates in YYYY-MM-DD hh:mm:sec format

std_implant_name

Data Type	Varchar
Definition	Description of Implant
Notes	Allowed values in this field often overlap with std_implant_type_code
Values	Can include "One Of A Kind," "Screw," "Lens", etc.

std_implant_size

Data Type	Varchar
Definition	Dimensions of implant
Notes	
Values	Can include numerical values with units, such as 2" x 4", along with "Small", "Lg", etc.

std_implant_type_code

Data Type	Varchar
Definition	Description of implant form
Notes	Allowed values in this field often overlap with std_implant_name
Values	Can include "One of a Kind," "Screw," "Lens", etc.

std_manufacturer_code

Data Type	Varchar
Definition	Description of institution that created implant
Notes	standardized values in this field reflect raw value on record as closely as possible. For example, an implant by a company that was later acquired and changed names will reflect the original manufacturer name listed on the record in the standardized column
Values	Standardized manufacturer names

See additional values in Appendix B – Implantable Device Manufacturer, page 12 of this data dictionary.

std_model_number

Data Type	Varchar
Definition	Manufacturer-assigned unique identifier for implant entered by provider
Notes	
Values	9- and 10- digit numbers removed as part of deidentification, except in special cases where 9-digit numbers are known invalid SSN values

v_medical_history

A view containing self-reported chronology of a patient's diagnoses and treatments.

- contact_date
- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- icd_code
- icd_version
- record_id_hash
- snomed_join_id
- source_connection_type
- source_system_type
- std_medical_history_date

contact_date

Data Type	Timestamp
Definition	date of interaction with the patient or patient's record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

adata_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

icd_code

Data Type	Varchar
Definition	ICD-9 or ICD-10 code for patient disorder
Notes	The icd_version field notes the ICD version (9 or 10) for the corresponding icd_code value
Values	ICD codes

icd_version

Data Type	Varchar
Definition	ICD release version for the corresponding code in icd_code
Notes	
Values	ICD9; ICD10

record_id_hash

Data Type	Integer
Definition	Hashed value of medical-history-record identifier used in source system.
Notes	
Values	Numerical codes

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_medical_history_date

Data Type	Timestamp
Definition	Patient-reported date for particular diagnosis
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_observation

A view containing a patient's clinical measurements and laboratory test results.

- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- loinc_category_id
- loinc_test_id
- observation_date
- observation_high_ref
- observation_low_ref
- record_id_hash
- source_connection_type
- source_system_type
- std_observation_high_ref
- std_observation_low_ref
- std_report_status
- std_uom
- std_value
- std_value_status
- std_value_txt

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

loinc_category_id

Data Type	Varchar
Definition	codes representing the topmost and most specific categorizations of the observation
Notes	Codes beginning with "LP" are direct from the LOINC distribution, and those with "EX" are from the LOINC extended hierarchy or Explorys custom codes. Descriptions for the codes can be found in xref.loinc_hierarchy – a code that is a parent and child category will have entries in both the parent_category_loinc_id and category_loinc_id columns. The xref.loinc_descendants table will list all specific LOINC test IDs associated with any of the categories listed in loinc_hierarchy.
Values	Period separated LOINC and custom codes.

loinc_test_id

Data Type	Varchar
Definition	Code associated with the observation or test
Notes	Refer to xref.loinc
Values	LOINC codes

observation_date

Data Type	Timestamp
Definition	Date that observation or test was carried out
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

observation_high_ref

Data Type	Varchar
Definition	Source system information about upper bound for normal observation result
Notes	
Values	

observation_low_ref

Data Type	Varchar
Definition	Source system information about lower bound for normal observation result
Notes	
Values	

record_id_hash

Data Type	Integer
Definition	Hashed value of observation-record identifier used in source system.
Notes	
Values	Numerical codes

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_observation_high_ref

Data Type	Varchar
Definition	Upper bound for normal observation result
Notes	
Values	Text

std_observation_low_ref

Data Type	Varchar
Definition	Lower bound for normal observation result
Notes	to be deprecated in favor of std_observation_low_ref
Values	text

std_report_status

Data Type	Varchar	
Definition	State of observation report	
Notes		
Values	Complete	Observation completed
	Canceled	Observation canceled
	Pending	Observation report planned for future date/time
	Ordered	Observation ordered by provider
	Erroneous	Entered in error

std_uom

Data Type	Varchar
Definition	Standardized unit of measure for the observation value
Notes	Laboratory observation data lacking a unit of measure have an imputed unit (e.g., mg/dL) based on the loinc test ID associated with the record.
Values	Units corresponding to the observation value listed in std_value

std_value

Data Type	Varchar
Definition	Numerical value of observation result
Notes	Will only include numerical results. For observation results which can include values such as "positive" use std_value_txt
Values	Floating point numbers; "null"; "NaN"

std_value_status

Data Type	Integer
Definition	Qualifier for category of observation result values
Notes	Table can be found in XREF.std_value_status. Example usage: a test with status of "Abnormal, Low" will have std_value_status of 6.
Values	Any values in the table below or sums thereof

0	UNKNOWN
1	NORMAL
2	ABNORMAL
4	LOW
8	HIGH
16	PANIC
32	POSITIVE
64	NEGATIVE
128	OFF_SCALE

std_value_txt

Data Type	Varchar
Definition	Value of observation in string format
Notes	Numerical values overlap with std_value
Values	Numbers; text

v_problem_list

A view containing a summary of a patient's major disorders with chronicity and status.

- chronicity
- data_grid_date_updated
- diagnosis_code
- diagnosis_end_date
- diagnosis_start_date
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- icd_code
- icd_version
- record_id_hash
- snomed_join_id
- source_connection_type
- source_system_type
- std_diagnosis_status

chronicity

Data Type	Varchar	
Definition	Qualifier describing the duration of diagnosis	
Notes		
Values	Chronic	Lasting 3 months or more
	Acute	Sudden onset diagnosis
	Unknown	Chronicity not known
	Resolved	No longer a problem diagnosis
	Permanent	Long-term diagnosis
	Temporary	Diagnosis with an expected end date, such as insomnia

data_grid_date_updated

Data Type	Timestamp
Definition	date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered.

Values	Dates in YYYY-MM-DD hh:mm:ss format

diagnosis_code

Data Type	Varchar
Definition	Source system code for patient diagnosis
Notes	
Values	Typically, these are ICD-9/10 codes

diagnosis_end_date

Data Type	Timestamp
Definition	Date that the diagnosis was resolved
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

diagnosis_start_date

Data Type	Timestamp
Definition	Date that the diagnosis or condition began
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

icd_code

Data Type	Varchar
Definition	ICD-9 or ICD-10 code for patient disorder
Notes	The icd_version field notes the ICD version (9 or 10) for the corresponding icd_code value
Values	ICD codes

icd_version

Data Type	Varchar
Definition	ICD release version for the corresponding code in icd_code
Notes	
Values	ICD9; ICD10

record_id_hash

Data Type	Integer
Definition	Hashed value of problem-list-record identifier used in source system.
Notes	
Values	Numerical codes

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_dagnosis_status

Data Type	Varchar	
Definition	State of patient diagnosis	
Notes		
Values	Resolved	Resolved problem
	Deleted	Removed from problem list
	Erroneous	Entered in error
	Inactive	No longer active problem
	Active	Current problem

v_procedure

A view containing clinical tests and treatments applied during a patient encounter. Line charges are obfuscated.

- claim_type
- cpt_concept
- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- icd_code
- icd_version
- is_principal
- line_charge
- proc_code
- proc_date
- record_id_hash
- snomed_join_id
- source_system_type
- source_connection_type
- std_order_status
- std_procedure_modifiers

claim_type

Data Type	Varchar	
Definition	Category describing claim record origin	
Notes		
Values	Institutional	837I record (billing records from healthcare facility)
	Professional	837P record (billing records from professional services rendered by healthcare

cpt_concept

Data Type	Varchar
Definition	Current Procedural Terminology (CPT) code that describes the procedure
Notes	
Values	CPT codes

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data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.
Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

icd_code

Data Type	Varchar
Definition	ICD-9 or ICD-10 code for patient procedure
Notes	The icd_version field notes the ICD version (9 or 10) for the corresponding icd_code value
Values	ICD codes

icd_version

Data Type	Varchar
Definition	ICD release version for the corresponding code in icd_code
Notes	
Values	ICD9; ICD10

is_principal

Data Type	Boolean
Definition	Indicates if procedure is primary reason for the patient's corresponding encounter
Notes	
Values	TRUE; FALSE

line_charge

Data Type	Varchar
Definition	Obfuscated line charge for patient procedure
Notes	Some values in this field are modified during the deidentification process. See deidentification notes for more information.
Values	Dollar amounts

record_id_hash

Data Type	Integer
Definition	Hashed value of procedure-record identifier used in source system.
Notes	
Values	Numerical codes

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources
Notes	
Values	Direct, Indirect, Inactive

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_order_status

Data Type	Varchar
Definition	Drug record state of completion
Notes	
Values	COMPLETE= Procedure or medication completed
	ERRONEOUS= Entered in error
	ORDERED= Provider ordered
	PENDING = Scheduled for future
	CANCELED = Prescription order canceled

std_procedure_modifiers

Data Type	Varchar
Definition	Provides the standardized modifiers for the procedure record. For CPT(HCPCS Level 1) codes, standardized AMA modifiers. For Alphanumeric (HCPCS Level II) codes, standardized CMS modifiers.
Notes	
Values	

v_rs_charlsondeyo_comorbidity

A view containing parameters identifying a patient's Charleson-Deyo Comorbidity Index.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- model_name
- score_date
- risk_index
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	CHARLSON_DEYO

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_index

Data Type	Integer
Definition	Charlson-Deyo score for this patient.
Notes	
Values	Numerical codes

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_afib

A view containing parameters associated with a patient's 10-year risk for atrial fibrillation.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_10year
- risk_10year_w_pr_interval
- point
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	

Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_AF

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_10year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing atrial fibrillation in a 10 year period
Notes	
Values	

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risk_10year_w_pr_interval

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing atrial fibrillation in a 10 year period as calculated with the PR interval
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham atrial fibrillation model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_cvd

A view containing parameters associated with a patient's 10-year risk for cardiovascular disease (CVD).

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_10year
- point
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_CVD

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_10year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing CVD in a 10 year period
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham cvd model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_chf

A view containing parameters associated with a patient's 4-year risk for congestive heart failure (CHF).

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_4year
- point
- stage_date
- insert_date

- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_CHF

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_4year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing CHF in a 4 year period
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham chf model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_diabetes_clin

A view containing parameters associated with a patient's 8-year risk of Type 2 diabetes.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_8year
- point
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	

Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_Diabetes_Clin

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_8year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing diabetes in an 8 year period using the clinical variable model
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham diabetes model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_diabetes_pers

A view containing parameters identifying patients between the ages of 35 and 80 years of age at risk for developing diabetes mellitus with 8 years.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_8year
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_Diabetes_Pers

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_8year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing diabetes in an 8 year period using the clinical variable model
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

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insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_hypertension

A view containing parameters identifying patients with a 1-year, 2-year, and 4-year risk of developing hypertension.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_1year
- risk_2year
- risk_4year
- point
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_Hypertension

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_1year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing hypertension in an 1 year period
Notes	
Values	

risk_2year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing hypertension in an 2 year period
Notes	
Values	

risk_4year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing hypertension in an 4 year period
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham hypertension model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_hchd

A view containing parameters identifying patients with a 10-year risk for hard coronary heart disease (myocardial infarction or coronary death).

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_10year
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_HCHD

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_10year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing CHD in a 10 year period
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_stroke

A view containing parameters identifying a patient's probability of stroke within 10 years..

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_10year
- point
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_Stroke

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_10year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient having a stroke in a 10 year period
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham stroke model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_rs_framingham_10year_chd

A view containing parameters identifying patients with a 10-year risk of developing coronary heart disease.

- explorys_patient_id
- source_system_type
- data_grid_date_updated
- extract_date
- model_name
- score_date
- risk_10year
- stage_date
- insert_date
- update_date

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join across all other views
Notes	
Values	Numerical codes

source_system_type

Data Type	Varchar(25)
Definition	Category of incoming data source
Notes	
Values	

data_grid_date_updated

Data Type	Timestamp
Definition	The date the record was pulled into the Explorys/IBM system
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

extract_date

Data Type	Timestamp
Definition	The date the record was calculated
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

model_name

Data Type	Varchar(255)
Definition	Unique name given to the model or algorithm used to evaluate this risk model record
Notes	
Values	Framingham_10Year_CHD

score_date

Data Type	Timestamp
Definition	Evaluation date for this risk model record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

risk_10year

Data Type	Numeric
Definition	Value between 0 and 1 representing calculated probability of this patient developing CHD in a 10 year period
Notes	
Values	

point

Data Type	Integer
Definition	Alternate calculation method for the framingham chf model. Arbitrary scale with higher points indicating increased risk
Notes	
Values	

stage_date

Data Type	Timestamp
Definition	Date record was loaded into SuperMart
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

insert_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

update_date

Data Type	Timestamp
Definition	DEPRECATED
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

v_surgical_history

A view containing a self-reported chronology of a patient's surgical procedures.

- contact_date
- data_grid_date_updated
- encounter_join_id
- encounter_record_id_hash
- explorys_patient_id
- procedure_code
- record_id_hash
- snomed_join_id
- source_connection_type
- source_system_type
- std_surgical_history_date

contact_date

Data Type	Timestamp
Definition	Date of interaction with the patient or patient's record
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

data_grid_date_updated

Data Type	Timestamp
Definition	Date of patient record creation or update in the Explorys data grid
Notes	This field does not represent updates to the patient record by a care provider and should not be used as a proxy for the date patient record information was entered
Values	Dates in YYYY-MM-DD hh:mm:ss format

encounter_join_id

Data Type	Integer
Definition	Encounter identifier used to join (encounter link) with other views on an encounter level
Notes	Encounter join ids are generated for all appropriate records, even if there is not a corresponding record in v_encounter. Records across any view with an encounter_join_id column can be linked with that column. For example, v_procedure and v_admission may be directly linked via encounter_join_id.

Values	Numerical codes

encounter_record_id_hash

Data Type	Integer
Definition	Hashed value of encounter record ID linked to this admission record
Notes	In the secondary-use dataset, this field is redundant with encounter_join_id
Values	Numerical codes

explorys_patient_id

Data Type	Integer
Definition	Unique patient identifier used to join with other views on a patient level
Notes	
Values	Numerical codes

procedure_code

Data Type	Varchar
Definition	Code detailing specific surgical procedure
Notes	
Values	

record_id_hash

Data Type	Integer
Definition	Hashed value of surgical-history-record identifier used in source system.
Notes	
Values	Numerical codes

snomed_join_id

Data Type	Integer
Definition	Key used to join v_drug, v_diagnosis, v_health_maintenance, v_medical_history, v_problem_list, v_procedure, v_surgical_history to retrieve the snomed_id corresponding to the record
Notes	
Values	

source_connection_type

Data Type	Varchar	
Definition	Segments clinical records by data sources that are direct EMR connections, weekly or monthly files, or historical loads or decommissioned sources	
Notes		
Values	Direct, Indirect, Inactive	

source_system_type

Data Type	Varchar	
Definition	Category of incoming data source	
Notes		
Values	Billing	Records from billing or claims
	Clinical	Records from EMR systems

std_surgical_history_date

Data Type	Timestamp
Definition	Patient-reported date for particular surgical procedure
Notes	
Values	Dates in YYYY-MM-DD hh:mm:ss format

Appendix A – XREF Data Dictionary

Appendix A, XREF Data Dictionary, describes tables and fields in the XREF schema, and was last updated in December 2017.

NOTE: This table lists all possible children, grandchildren, etc., for a given snomed code. Searches for descendants do not need to be done recursively.

Schema Name	Table Name	Column Name	Definition
XREF	loinc	ask_at_order_entry	Multi-valued, semicolon-delimited list of LOINC codes that represent optional Ask at Order Entry (AOE) observations for an observation or test
XREF	loinc	associated_observations	Multi-valued, semicolon-delimited list of LOINC codes that represent optional observation(s) for an observation or test
XREF	loinc	cdisc_common_tests	Y in this field means that the term is a part of subset of terms used by CDISC in clinical trials
XREF	loinc	change_reason_public	Reason for code change
XREF	loinc	chng_type	A code describing the nature of the change to this code from the prior distribution
XREF	loinc	class	Class of test
XREF	loinc	classtype	1 = Laboratory; 2 = Clinical; 3 = Claims Attachments; 4 = Surveys
XREF	loinc	comments	Comments about test
XREF	loinc	common_order_rank	Ranking of approximately 300 common orders performed by laboratories in the USA
XREF	loinc	common_si_test_rank	Corresponding SI terms for 2000 common tests performed by laboratories in the USA
XREF	loinc	common_test_rank	Numeric ranking of approximately 2000 common tests performed by hospitals
XREF	loinc	component	First major axis-component or analyte
XREF	loinc	consumer_name	A consumer-friendly name for this test
XREF	loinc	curated_range_and_units	Limits and unit of measure
XREF	loinc	date_last_changed	Date last updated

Schema Name	Table Name	Column Name	Definition
XREF	loinc	document_section	Classification of whether this LOINC code can be used as a full document,
XREF	loinc	example_si_ucum_units	Empty Column
XREF	loinc	example_ucum_units	The Unified Code for Units of Measure (UCUM)
XREF	loinc	example_units	Example units for this test
XREF	loinc	exmpl_answers	Notes on tests and on potential results
XREF	loinc	external_copyright_link	If a term is copyrighted by a third party, provides the copyright ID
XREF	loinc	external_copyright_notice	Copyright
XREF	loinc	formula	Molecular formula if compound
XREF	loinc	hl7_attachment_structure	Where "IG exists", a clinically-relevant HL7 implementation guide exists; otherwise "No IG exists"
XREF	loinc	hl7_field_subfield_id	Which field, if any, this LOINC should be submitted in, in an HL7 message
XREF	loinc	loinc_num	The code or test ID for this LOINC
XREF	loinc	long_common_name	Long name description
XREF	loinc	method_typ	LOINC method type: IMMUNE STAIN
XREF	loinc	molar_mass	Molar mass if compound
XREF	loinc	order_obs	Defines term as order only
XREF	loinc	panel_type	Categories include: **Convenience group**, **Organizer** or **Panel**
XREF	loinc	property	Second major axis-property observed (e.g., mass vs. substance)
XREF	loinc	relatednames2	Contains synonyms for each of the parts of the fully specified LOINC name (component, property, time, system, scale, method)
XREF	loinc	scale_typ	Fifth major axis-scale of measurement (e.g., qualitative vs. quantitative)
XREF	loinc	shortname	Short name description

Schema Name	Table Name	Column Name	Definition
XREF	loinc	species	Codes detailing which non-human species the term applies to. If blank, "human" is assumed.
XREF	loinc	status	Status of code: ACTIVE, TRIAL, DISCOURAGED, DEPRECATED
XREF	loinc	status_reason	Classification of the reason for the concept's status; null for ACTIVE concepts
XREF	loinc	status_text	Explanation of the concept's status in narrative text
XREF	loinc	submitted_units	Units as submitted by original requester
XREF	loinc	survey_quest_src	Exact name of the survey instrument and the item/question number
XREF	loinc	survey_quest_text	Verbatim question from the survey instrument
XREF	loinc	system	Fourth major axis-type of specimen or system (e.g., serum vs urine)
XREF	loinc	time_aspct	Third major axis-timing of the measurement (e.g., point in time vs 24 hours)
XREF	loinc	unitsrequired	Y/N field indicating that units are required when the LOINC is included as an OBX segment in a HIPAA attachment
XREF	loinc	update_date	DEPRECATED
XREF	loinc	valid_hl7_attachment_request	**Y** if LOINC code can be sent by payer as part of HL7 attachment request
XREF	loinc	version_first_released	LOINC version number in which the record was first present
XREF	loinc	version_last_changed	Version number in which the record was last changed
XREF	loinc_categories	category_description	Description of the LOINC category
XREF	loinc_categories	loinc_category	Title of the LOINC category
XREF	loinc_categories	update_date	Date the loinc_category row was updated
XREF	loinc_category_remappings	deprecated_code	Code from the previous LOINC version
XREF	loinc_category_remappings	deprecated_code_description	Description of the code from the previous LOINC version

Schema Name	Table Name	Column Name	Definition
XREF	loinc_category_remappings	replacement_code	Code from the current LOINC version
XREF	loinc_category_remappings	replacement_code_description	Description of the current LOINC code version
XREF	Loinc_descendants	depth	The number of "generations" lower that the descendant is from the parent.
XREF	loinc_descendants	descendant_loinc_id	LOINC id that is a sub-categorization of the parent loinc_id
XREF	loinc_descendants	loinc_id	Parent LOINC id
XREF	loinc_descendants	update_date	Date when the file is loaded in SuperMart
XREF	loinc_hierarchy	category_loinc_id	"Specific categorization of observation. Can include LOINC or custom codes starting with ""EX"""
XREF	loinc_hierarchy	description	pipe-separated list of all observation categories included in the range of category_loinc_id to parent_category_loinc_id
XREF	loinc_hierarchy	parent_category_loinc_id	"High-level categorization of observation. Can include LOINC or custom codes starting with ""EX"""
XREF	loinc_hierarchy	update_date	Date when the file is loaded in SuperMart
XREF	loinc_test_remappings	deprecated_code	Code from the previous LOINC version
XREF	loinc_test_remappings	deprecated_code_description	Description of the code from the previous LOINC version
XREF	loinc_test_remappings	replacement_code	Code from the current LOINC version
XREF	loinc_test_remappings	replacement_code_description	Description of the current LOINC code version
XREF	rxnconso	code	Source asserted identifier
XREF	rxnconso	cvf	Content view flag
XREF	rxnconso	ispref	Atom status - preferred (Y) or not (N) for this string within the concept
XREF	rxnconso	lat	Language of term
XREF	rxnconso	lui	Unique identifier for term (no value provided)
XREF	rxnconso	rxaui	Unique identifier for atom (RxNorm atom ID)
XREF	rxnconso	rxcui	RxNorm unique identifier for concept (concept ID)
XREF	rxnconso	sab	Abbreviated source name
XREF	rxnconso	saui	Source asserted atom identifier
XREF	rxnconso	scui	Source asserted concept identifier
XREF	rxnconso	sdui	Source asserted descriptor identifier

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Schema Name	Table Name	Column Name	Definition
XREF	rxnconso	srl	Source restriction level (no value provided)
XREF	rxnconso	str	Code description
XREF	rxnconso	stt	String type
XREF	rxnconso	sui	Unique identifier for string (no value provided)
XREF	rxnconso	suppress	Suppressible flag
XREF	rxnconso	ts	Term status
XREF	rxnconso	tty	Abbreviation for term type
XREF	rxnconso	update_date	DEPRECATED
XREF	rxnorm_copyright_info	copyright_constraints	Contains the copyright_constraints with respect to UMLS
XREF	rxnorm_copyright_info	update_date	Date when the file is loaded in SuperMart
XREF	rxnrel	cvf	Content view flag
XREF	rxnrel	dir	Source asserted directionality flag (no value provided)
XREF	rxnrel	rel	Relationship of second concept or atom to the first concept or atom
XREF	rxnrel	rela	Additional relationship label
XREF	rxnrel	rg	Relationship group
XREF	rxnrel	rui	Unique identifier of relationship (no value provided)
XREF	rxnrel	rxaui1	Unique identifier of first atom
XREF	rxnrel	rxaui2	Unique identifier of second atom
XREF	rxnrel	rxcui1	Unique identifier of first concept
XREF	rxnrel	rxcui2	Unique identifier of second concept
XREF	rxnrel	sab	Abbreviated source name
XREF	rxnrel	sl	Source of relationship labels (no value provided)
XREF	rxnrel	srui	Source asserted relationship identifier (no value provided)
XREF	rxnrel	stype1	Name of the column in RXNCONSO.RRF that contains the identifier used for the first concept or first atom in source of the relationship (either 'AUI' or 'CUI')
XREF	rxnrel	stype2	Name of the column in RXNCONSO.RRF that contains the identifier used for the second concept or second atom in source of the relationship (either 'AUI' or 'CUI')

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Schema Name	Table Name	Column Name	Definition
XREF	rxnrel	suppress	Suppressible flag
XREF	rxnrel	update_date	DEPRECATED
XREF	rxnsab	atnl	Attribute name list
XREF	rxnsab	cenc	Character encoding
XREF	rxnsab	cfr	CUI frequency
XREF	rxnsab	curver	Current version
XREF	rxnsab	cxty	Context type of relationship label
XREF	rxnsab	imeta	Version of the Metathesaurus a source first appeared
XREF	rxnsab	lat	Language of term
XREF	rxnsab	rcui	CUI of the root SRC concept
XREF	rxnsab	rmeta	Version of the Metathesaurus a source was removed
XREF	rxnsab	rsab	Root source abbreviation for a source
XREF	rxnsab	sabin	Source in subset flag
XREF	rxnsab	scc	Source content contact information
XREF	rxnsab	scit	Source citation
XREF	rxnsab	sf	Source family
XREF	rxnsab	slc	Source license contact
XREF	rxnsab	son	Official name for a source
XREF	rxnsab	srl	Source restriction level
XREF	rxnsab	ssn	Source short name
XREF	rxnsab	sver	Source version
XREF	rxnsab	tfr	Term frequency
XREF	rxnsab	ttyl	Term type list from source
XREF	rxnsab	update_date	Date when the file is loaded in SuperMart
XREF	rxnsab	vcui	CUI of version SRC concept
XREF	rxnsab	vend	Date a source ceased to be active
XREF	rxnsab	vsab	Versioned source abbreviation for a source
XREF	rxnsab	vstart	Date a source became active
XREF	rxnsat	atn	Attribute name
XREF	rxnsat	atui	Unique identifier for attribute

Schema Name	Table Name	Column Name	Definition
XREF	rxnsat	atv	Attribute value
XREF	rxnsat	code	Source asserted identifier
XREF	rxnsat	cvf	Content view flag
XREF	rxnsat	lui	Unique identifier for term (no value provided)
XREF	rxnsat	rxaui	Unique identifier for atom (RxNorm atom ID)
XREF	rxnsat	rxcui	Unique identifier for concept (concept ID)
XREF	rxnsat	sab	Abbreviated source name
XREF	rxnsat	satui	Source asserted attribute identifier
XREF	rxnsat	stype	Name of the column in RXNCONSO.RRF or RXNREL.RRF that contains the identifier to which the attribute is attached
XREF	rxnsat	sui	Unique identifier for string (no value provided)
XREF	rxnsat	suppress	Suppressible flag
XREF	rxnsat	update_date	DEPRECATED
XREF	snomed	concept_id	SNOMED concept identifier
XREF	snomed	concept_name	SNOMED concept name
XREF	snomed	concept_status	SNOMED concept status code
XREF	snomed	ctv3_id	DEPRECATED: Clinical Terms Version 3 identifier (Populated with "0" as of version 2170901_US)
XREF	snomed	is_primitive	DEPRECATED: Fully defined or primitive (Populated with "0" as of version 2170901_US)
XREF	snomed	legacy_snomed_id	DEPRECATED: A legacy identifier for this concept (Populated with "0" as of version 2170901_US)
XREF	snomed	update_date	DEPRECATED
XREF	snomed_rf2	active	The activity status as of the effective time; 0 turns off; 1 turns on
XREF	snomed_rf2	definition_status_id	Specifies if the concept version is primitive or sufficiently defined
XREF	snomed_rf2	effective_time	Specifies the inclusive date at which the component version's state became the then current valid state of the component.
XREF	snomed_rf2	id	Id for the concept

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Schema Name	Table Name	Column Name	Definition
XREF	snomed_rf2	module_id	Identifies the concept version's module
XREF	snomed_concept	concept_id	The unique SNOMED CT Identifier for this Concept.
XREF	snomed_concept	concept_name	The fully specified name of the concept.
XREF	snomed_concept	concept_status	The status of the SNOMED concept. 0 indicates active use; 1, Retired without stated reason; 2, Duplicate; 3, Outdated; 4, Ambiguous; 5, Erroneous; 6, Limited; and 10, Moved elsewhere
XREF	snomed_concept	ctv3_id	DEPRECATED: Clinical Terms Version 3 identifier (Populated with "0" as of version 2170901_US)
XREF	snomed_concept	is_primitive	DEPRECATED: Fully defined or primitive (Populated with "0" as of version 2170901_US)
XREF	snomed_concept	legacy_snomed_id	DEPRECATED: A legacy identifier for this concept (Populated with "0" as of version 2170901_US)
XREF	snomed_concept	update_date	Date the table was updated
XREF	snomed_concept_rf2	active	The activity status as of the effective time; 0 turns off; 1 turns on
XREF	snomed_concept_rf2	definition_status_id	Specifies if the concept version is primitive or sufficiently defined
XREF	snomed_concept_rf2	effective_time	Time when the status of the code changes
XREF	snomed_concept_rf2	id	Id for the concept
XREF	snomed_concept_rf2	module_id	Identifies the concept version's module
XREF	snomed_descendants	depth	Indicates the depth of the relationship between the snomed_id and
XREF	snomed_descendants	descendant_snomed_id	descendant_snomed_id. e.g., 1 = immediate child, 2 = child of child
XREF	snomed_descendants	snomed_id	3 = child of child of child, etc.
XREF	snomed_descendants	update_date	Date when the file is loaded in SuperMart
XREF	snomed_description	concept_id	SNOMED concept to which this description belongs
XREF	snomed_description	description_id	DEPRECATED: Unique SNOMED CT identifier for this description (Populated with "0" as of version 2170901_US)
XREF	snomed_description	description_status	Whether the description is in active use (0), or a value indicating why it is currently inactive. For the meaning of

Schema Name	Table Name	Column Name	Definition
			(nonzero) inactive statuses, consult the SNOMED CT Release Format 1 (RF1) guide.
XREF	snomed_description	description_type	<u>DEPRECATED</u>: Indicates whether the term is preferred (1), a synonym (2), a fully specified name (3), or unspecified (0) (Populated with "0" as of version 2170901_US)
XREF	snomed_description	initial_capital_status	<u>DEPRECATED</u>: Indicates whether the capitalization of the first character of the term is significant (1 = True) or insignificant (0 = False). Examples of terms whose initial capitals are significant include "Down syndrome" and "ml" (Populated with "0" as of version 2170901_US)
XREF	snomed_description	language_code	<u>DEPRECATED</u>: Description language specifier (Populated with "0" as of version 2170901_US)
XREF	snomed_description	term	SNOMED description version's text value
XREF	snomed_description	update_date	Date when the file is loaded in SuperMart
XREF	snomed_description_rf2	active	Specifies whether the description became active or inactive at the effective_time
XREF	snomed_description_rf2	case_significance_id	Represents the case significance of this description version
XREF	snomed_description_rf2	concept_id	Concept id corresponding to the description
XREF	snomed_description_rf2	effective_time	Specifies the inclusive date at which the component version's state became the then current valid state of the component.
XREF	snomed_description_rf2	id	Id for the description
XREF	snomed_description_rf2	language_code	Specifies the language of the description test using the two-character ISO 639-1 code
XREF	snomed_description_rf2	module_id	Identifies the description version's module
XREF	snomed_description_rf2	term	The description version's text value, represented in UTF-8 encoding
XREF	snomed_description_rf2	type_id	Identifies whether the description is fully specified name, a synonym, or other description type
XREF	snomed_drug_concept	concept_id	Unique SNOMED CT Identifier for the clinical concept to

Schema Name	Table Name	Column Name	Definition
			which this description applies.
XREF	snomed_drug_concept	description	Description of the Snomed concept
XREF	snomed_drug_concept	update_date	Date when the file is loaded in SuperMart
XREF	snomed_relationship	characteristic_type	DEPRCECATED: Indicates whether the relationship is a defining characteristic (0) of the source concept, an optional qualifying characteristic (1), a historical characteristic (2) relating an inactive concept to another concept, or an additional characteristic (3) that is context specific. (Populated with "0" as of version 2170901_US)
XREF	snomed_relationship	concept_id_1	Unique SNOMED CT Identifier of the concept which is the source of this relationship
XREF	snomed_relationship	concept_id_2	Unique SNOMED CT Identifier of the concept which is the target of this relationship
XREF	snomed_relationship	refinability	DEPRECATED: Indicates whether it is possible to refine the target concept when this relationship is used as a template for clinical data entry on a mandatory (2) or optional (1) basis, or that the target concept is not refinable using this relationship. (Populated with "0" as of version 2170901_US)
XREF	snomed_relationship	relationship_group	DEPRECATED: Code for logical association/grouping of relationship versions (Populated with "0" as of version 2170901_US)
XREF	snomed_relationship	relationship_id	DEPRECATED: Unique SNOMED CT Identifier for this relationship (Populated with "0" as of version 2170901_US)
XREF	snomed_relationship	relationship_type	Unique SNOMED CT Identifier of the Concept which represents the type of relationship between the related Concepts
XREF	snomed_relationship	update_date	Date when the file is loaded in SuperMart
XREF	snomed_relationship_rf2	active	Specifices whether the relationship became active or inactive at the effective_time
XREF	snomed_relationship_rf2	characteristic_type_id	Identifies the characteristic type of the relationship version

Schema Name	Table Name	Column Name	Definition
XREF	snomed_relationship_rf2	destination_id	Concept id of the destination of the relationship
XREF	snomed_relationship_rf2	effective_time	Specifies the inclusive date at which the component version's state became the then current valid state of the component.
XREF	snomed_relationship_rf2	id	Id for the relationship
XREF	snomed_relationship_rf2	modifier_id	Identifies the description logic restriction
XREF	snomed_relationship_rf2	module_id	Identifies the concept version's module
XREF	snomed_relationship_rf2	relationship_group	Group number for a group of relationships that are associated
XREF	snomed_relationship_rf2	source_id	Concept id of the source of the relationship
XREF	snomed_relationship_rf2	type_id	The concept that represents the relationship type of this relationship version
XREF	snomed_remappings	deprecated_concept	Code from a previous version
XREF	snomed_remappings	deprecated_concept_description	Description from a previous version
XREF	snomed_remappings	relationship	The relationship between the deprecated and replacement concept
XREF	snomed_remappings	replacement_concept	Corresponding code from the current version
XREF	snomed_remappings	replacement_concept_description	Corresponding description from previous version
XREF	snomed_to_rxnorm	rxcui	Rxcui mapped to the snomed_concept
XREF	snomed_to_rxnorm	snomed_concept_id	Unique SNOMED CT Identifier for the clinical concept to which this description applies.
XREF	snomed_to_rxnorm	update_date	Date when the file is loaded in SuperMart
XREF	std_code_value	std_value	Description of std_code
XREF	std_code_value	ATTRIBUTE	IBM/Explorys SuperMart attribute
XREF	std_code_value	std_code	Standard code
XREF	std_code_value	update_date	Date when the file is loaded in SuperMart
XREF	std_value_status	status	Concept status code
XREF	std_value_status	update_date	Date when the file is loaded in SuperMart
XREF	std_value_status	value	Numeric encoding of status

Appendix B – Implantable Device Manufacturer

Manufacturer Code Targets
Abbott
Acumed
Alcon Labs
Allergan
Allosource
American Medical
Arthrex
Atrium Medical Corporation
Bard
Bard/Davol
Bausch & Lomb
Baxter
Biomet
Boss Instruments
Boston Scientific
Community Tissue Service
Confluent Surgical
Cook Medical
Covidien
Danek
Davol
DePuy
Edwards Lifesciences
Ethicon
Exactech
Globus Medical
Gore Medical
Gynecare
Gyrus ACMI
Howmedica
Integra LifeSciences
J&J Codman
J&J DePuy Orthopedics
J&J Ethicon
Johnson & Johnson

Manufacturer Code Targets
KLS Martin
LifeCell
Lifenet

Manufacturer Code Targets
MAKO Surgical
Maquet
Medtronic
Medtronic Sofamor Danek
Mentor
Mesa Laboratories
Mitek
MusculoSkeletal Transplant Foundation
NuVasive
OmniLife Science
Orthofix
OrthoHelix
Osteotech
Smith & Nephew
Sofamore
St Jude
Stryker Howmedica Orthopedics
Stryker Orthopedics
Synovis
Synthes
Tornier
Tyco
Unknown
Wright Medical
Zimmer
Kyphon Inc
Avecor Cardiovascular
Arterial Vascular Engineering
SpinalGraft Technologies

Appendix C– Admission and Encounter Types

Admission and Encounter Type Standard Targets
AMBULANCE_LAND
AMBULATORY_SURGERY_CENTER
APPOINTMENT
ASSISTED_LIVING_FACILITY
CARE_COORDINATOR_VISIT
COMPREHENSIVE_INPATIENT_REHABILITATION_FACILITY
COMPREHENSIVE_OUTPATIENT_REHABILITATION_FACILITY
CONSULTATION
CORRESPONDENCE
DIALYSIS_CENTER
DIETARY_VISIT
DOCUMENTATION
EDUCATION_VISIT
END_STAGE_RENAL_DISEASE_TREATMENT_FACILITY
FEDERALLY_QUALIFIED_HEALTH_CLINIC
HOME_CARE_VISIT
HOMELESS_SHELTER
HOSPICE
HOSPITAL_EMERGENCY_ROOM_VISIT
HOSPITAL_ENCOUNTER
HOSPITAL_INPATIENT
HOSPITAL_OUTPATIENT
IMMUNIZATION
INDEPENDENT_CLINIC
INFUSION_VISIT
INPATIENT_PSYCHIATRIC_FACILITY
INPATIENT_PSYCHIATRIC_FACILITY_PARTIAL_HOSPITALIZATION
INPATIENT_REHABILITATION_FACILITY
LABORATORY
LONG_TERM_CARE
MOBILE_MEDICAL
NO_ENCOUNTER (A historical patient record load event)
NON_PROFESSIONAL_HOSPITAL_OUTPATIENT
NON_PROFESSIONAL_OFFICE_VISIT
NURSE_VISIT

Admission and Encounter Type Standard Targets
NURSING_FACILITY
NURSING_HOME_VISIT
OBSERVATION

Appendix C – Admission and Encounter Types, continued

Admission and Encounter Type Standard Targets
OFFICE_VISIT
OTHER
PHARMACY_VISIT
PROCEDURE
PSYCH_VISIT
RADIOLOGY
REFILL
RENAL_DIALYSIS_CENTER
RESEARCH
RESIDENTIAL_SUBSTANCE_ABUSE_TREATMENT_FACILITY
RURAL_HEALTH_CLINIC
SKILLED_NURSING_FACILITY
SOCIAL_WORK_VISIT
SURGERY
TELEMEDICINE
TELEPHONE
TEMPORARY_LODGING
THERAPY_VISIT
THERAPY_VISIT
UNKNOWN
URGENT
WALK_IN_RETAIL_CLINIC

Appendix D – Severity

Allergy severity standard targets
Medium
S
Mild
SV
Critical
Severe
Moderate to Severe
Mild Persistent
Moderate
Mild to Moderate
Severe Persistent
Moderate Persistent
Unknown Se
M
UK
MI
Low
Potentially life - threatening
MODERATE
I
Unknown
SEVERE
Mild Intermittent
MO
High
U
MILD

Appendix E – Provider Type and Title

Provider Type and Title Standard Targets
REGISTERED_NURSE
PHYSICIAN
RESPIRATORY_THERAPIST
NURSE_PRACTITIONER
CHIROPRACTOR
RESOURCE
ADVANCED_PRACTICE_NURSE
DENTIST
PHYSICIAN_ASSISTANT
MEDICAL_ASSISTANT
NURSING_ASSISTANT
PHYSICAL_THERAPIST
EDUCATOR
PSYCHOLOGIST
NURSING_STUDENT
RESIDENT
TECHNICIAN
LICENSED_PRACTICAL_NURSE
PHARMACIST
MEDICAL_STUDENT
OTHER_CLINICAL_STAFF
OTHER_STUDENT
FELLOW
SOCIAL_WORKER

Appendix F – Specialty Name

Specialty Name Standard Targets	Specialty Name Standard Targets
Sleep Medicine	Addiction Medicine
Podiatry	Intensive Care Medicine
Infectious Disease	Cardiology
Hand Surgery	Hospital Medicine
Vascular Medicine	Emergency Medicine
Cardiothoracic Surgery	Cerebrovascular Medicine
Sports Medicine	Vascular Surgery
Pediatric Sports Medicine	Orthopaedics
Allergy and Immunology	Nuclear Medicine
Geriatric Psychiatry	Pediatric Oncology
Neurosurgery	Hepatology
Otolaryngology	Pediatric Cardiology
Psychiatric Specialties	Pediatric Surgical Specialties
Urgent Care	Gerontology
Bariatric Medicine	Preventive Medicine
Pediatric Rheumatology	Gastroenterology
Audiology	Pediatric Neonatology and Perinatology
Anesthesiology	Urology
Ancillary Care Specialties	Ophthalmology
General Surgery	Plastic and Reconstructive Surgery
Pain Management	Pathology
Radiology	Geriatric Specialties
Interventional Cardiology	Pediatric Psychiatry
Diagnostic Radiology	Hematology-Oncology
Cardiac Surgery	Pediatric Nephrology
Palliative Care	Other Specialties
Internal Medicine	Transplantation
Behavioral Health	Psychology
Geriatric Physical and Occupational Medicine	Pediatric Specialties
Endocrinology	Nutrition
Pediatric Hematology	Cardiovascular Surgery
Oral and Maxillofacial Medicine	Hematology
Pediatric Neurology	Physical and Occupational Medicine
Pediatrics	Microbiology
Nephrology	Oncology
Psychiatry	Interventional Radiology
Proctology	Allopathy and Osteopathy

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Specialty Name Standard Targets
Care Coordination
Pediatric Sleep Medicine
Medicine-Pediatrics
Pediatric Pulmonary Medicine
Electrophysiology
Family Medicine
Neurology
Epilepsy
Nursing
Neonatology and Perinatology
Medical Specialties
Pharmacology
Emergency Care Specialties
General Practice
Medical Student
Pediatric Orthopaedics
Bariatric Surgery
Osteopathic Medicine
Speech Pathology
Obstetrics and Gynecology
Integrated Medicine
Nursing Specialties
Rheumatology
Surgical Specialties
Social Services
Pulmonary Medicine
Radiology Specialties
Laboratory Medicine
Pediatric Ophthalmology
Adolescent Medicine
Pediatric Behavioral Health
Dermatology
Genetics
Trauma
Pediatric Psychology

Appendix G – Release Notes

Status	Table	Data Element	Data Element Description & Notes	Data Type	Coding Schema
Deleted	v_demographic	birth_year	year in which patient was born	integer	represented as YYYY; bottom coded as 90 years prior to current year. Dates removed if birth date is within 365 days of current date or within 365 days of death date
New	v_demographic	age_in_weeks_for_age _under_2_years	Age in weeks for individuals under 2 years of age	(integer	Age shown in number of weeks under 2 years of age
New	v_demographic	age_in_months_ for_age_under_8_years	Age in months for individuals under 8 years of age	integer	Age shown in number of months under 8 years of age
Deleted	v_demographic	death_year	year that patient became deceased	integer	represented as YYYY; Dates are removed if death date is within 365 days of current date or within 365 days of birth date
Changed	v_demographic	is_deceased	patient vitality indicator from social security death index. This indicator is provided only for individuals above the age of eight years.	boolean	0 = Not Deceased 1 = Deceased
Deleted	v_demographic	postal_code_3	first three characters of patient's postal code	varchar	See "Appendix A - Zipcode" in the Explorys External DATA DICTIONARY spreadsheet..

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Appendix G – Release Notes, continued

Status	Table	Data Element	Data Element Description & Notes	Data Type	Coding Schema
New	v_demographic	patient_state	Patient State	varchar	Includes only the 50 States, Washington D.C. and Puerto Rico.
Deleted	v_demographic	std_ethnicity	code for self-reported patient ethnicity	varchar	See "Appendix E - Ethnicity" in the Explorys External DATA DICTIONARY spreadsheet.
Deleted	v_demographic	std_language	code for self-reported reported patient language	varchar	See "Appendix C - Language" in the Explorys External DATA DICTIONARY spreadsheet..
Updated	v_demographic	std_race	code for self-reported patient race	varchar	See "Appendix D - Race" in the Explorys External DATA DICTIONARY spreadsheet..
Updated	v_demographic	std_status	patient vitality indicator. This indicator is provided only for individuals above the age of eight years.	varchar	1 = Alive 20 = Deceased
Deleted	v_diagnosis	snomed_ids	codes indicating source diagnosis	varchar	SNOMED ontology.

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