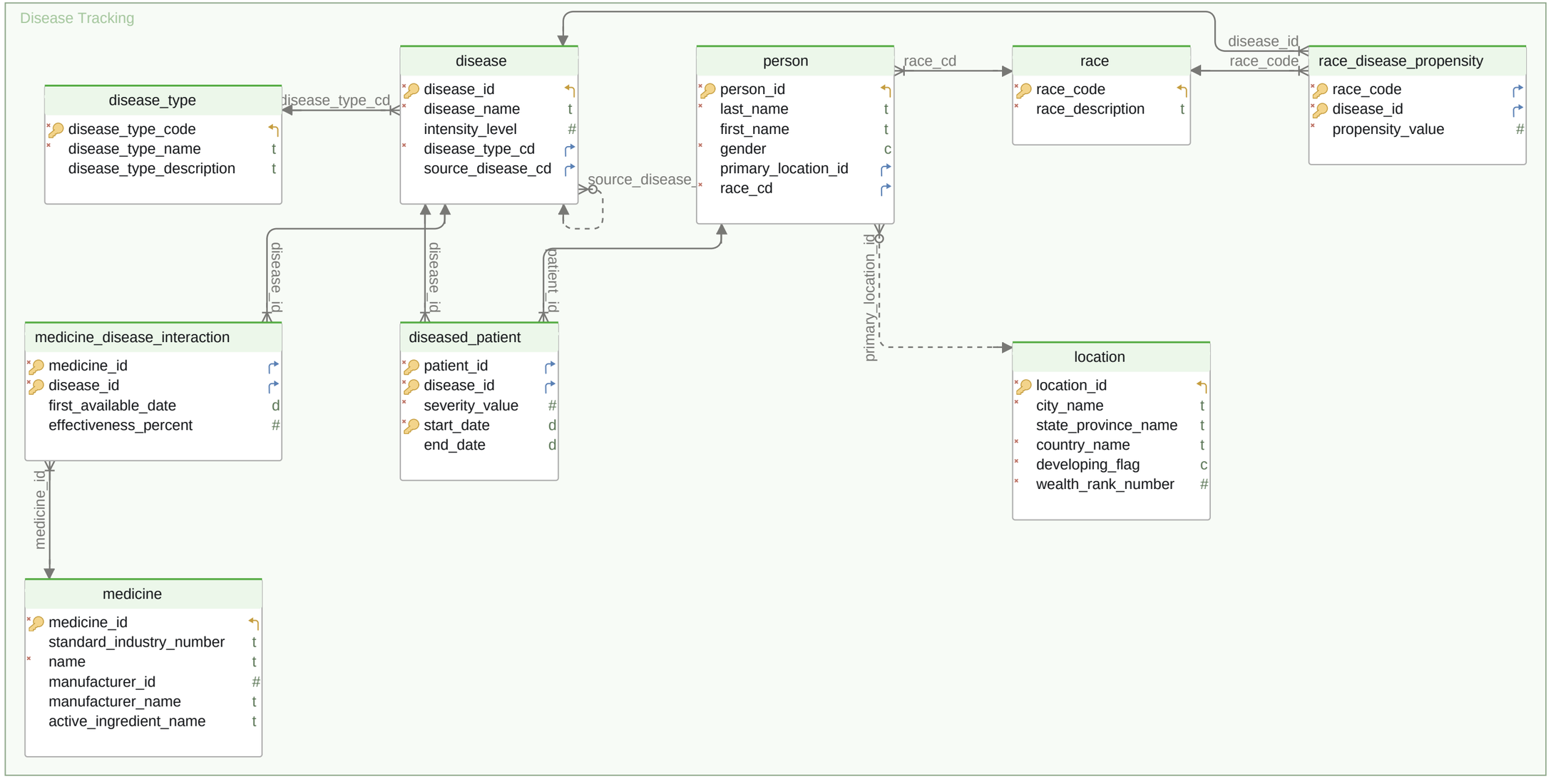
curated_layer

16-12-2024 by DbSchema.com - Wise Coders

Layouts

Tables


Disease Tracking
disease
disease_id
disease_name
intensity_level
disease_type_cd
source_disease_cd
disease_type
disease_type_code
disease_type_name
disease_type_description
person
person_id
last_name
first_name
gender
primary_location_id
race_cd
race
race_code
race_description
race_disease_propensity
race_code
disease_id
propensity_value
medicine_disease_interaction
medicine_id
disease_id
first_available_date
effectiveness_percent
diseased_patient
patient_id
disease_id
severity_value
start_date
end_date
location
location_id
city_name
state_province_name
country_name
developing_flag
wealth_rank_number
medicine
medicine_id
standard_industry_number
name
manufacturer_id
manufacturer_name
active_ingredient_name
audit_log
src_table
v_old
v_new
user
action
action_time

curated_layer

Table audit_log

Idx	Name	Data Type	Description
An audit table to capture any DML operations on the all the tables in the curated layer.			
*	src_table	text	The table on whicd DML operation is being run
	v_old	text	Old value before the DML (applicable for UPDATE and DELETE commands)
	v_new	text	New value post DML operation (Applicable for Update and Insert)
*	user	text DEFAULT CURRENT_USER	The user who ran the DML operation
*	action	text	DML Action - Insert, Update or Delete
*	action_time	timestamptz DEFAULT CURRENT_TIMESTAMP	Time of the event

Table disease

Idx	Name	Data Type	Description
Stores information about individual diseases, including their identifiers, names, intensity levels, and references to their associated disease type or source diseases			
* Pk	disease_id	integer	Unique identifier for each disease
*	disease_name	varchar(100)	Name of the disease.
	intensity_level	integer DEFAULT 1	Numeric representation of the disease's severity or impact. The value will be between 1 and 10.
*	disease_type_cd	char(10)	Foreign key referencing Disease_Type_Code in Disease_Type, linking each disease to its type.
	source_disease_cd	integer	Identifier for a related or parent disease. Self referential feild

Indexes

Type	Name	On	Description
Pk	disease_pkey	disease_id	

Foreign Keys

Type	Name	On	Description
	disease_source_disease_cd_fkey (source_disease_cd) ref disease (disease_id)		
	disease_disease_type_cd_fkey (disease_type_cd) ref disease_type (disease_type_code)		

Constraints

	Name	Definition	Description
	disease_intensity_level_check	((intensity_level >= 1) AND (intensity_level <= 10))	

Triggers

	Name	Definition	Description
	disease_audit_trigger		

Table disease_type

Idx	Name	Data Type	Description
Contains metadata about different disease types, including their codes, names, and detailed descriptions			
* Pk	disease_type_code	varchar(5)	Unique identifier for each disease type
*	disease_type_name	varchar(40)	Name of the disease type.
	disease_type_description	varchar(1000)	Detailed description of the disease type.

Indexes

Type	Name	On	Description
Pk	disease_type_pkey	disease_type_code	

Triggers

	Name	Definition	Description
	disease_type_audit_trigger		

Table diseased_patient

Idx	Name	Data Type	Description
Tracks patients diagnosed with diseases, including details about the disease, severity, and the duration of the illness			
* Pk	patient_id	integer	Foreign key referencing Person_ID in Person, identifying the patient.
* Pk	disease_id	integer	Identifier for the disease diagnosed in the patient.
*	severity_value	integer DEFAULT 1	Numeric severity level of the disease.
* Pk	start_date	date	Date the disease was diagnosed
	end_date	date	Date the disease was resolved (nullable)

Indexes

Type	Name	On	Description
Pk	diseased_patient_pkey	patient_id, disease_id, start_date	

Foreign Keys

Type	Name	On	Description
	diseased_patient_disease_id_fkey (disease_id) ref disease (disease_id)		
	diseased_patient_patient_id_fkey (patient_id) ref person (person_id)		ON DELETE CASCADE. If a person if deleted from the Person table, may be due to personal data redaction, all their records in the child tables should be removed too.

Constraints

	Name	Definition	Description
	diseased_patient_severity_value_check	((severity_value >= 1) AND (severity_value <= 10))	

Triggers

	Name	Definition	Description
	diseased_patient_audit_trigger		

Table location

Idx	Name	Data Type	Description
Stores geographical information about cities, states, and countries, providing context for patient or disease data. This also contains some macro factors related to the country.			
* Pk	location_id	integer	Unique identifier for each location - city in this case
*	city_name	varchar(100)	Name of the city
	state_province_name	varchar(100)	Name of the state or province
*	country_name	varchar(100)	Name of the country.
*	developing_flag	char(1)	Indicator for whether the country is developing (Y/N).
*	wealth_rank_number	integer	Ranking of the country based on wealth metrics

Indexes

Type	Name	On	Description
Pk	location_pkey	location_id	

Constraints

	Name	Definition	Description
	location_developing_flag_check	(developing_flag = ANY (ARRAY['Y'::bpchar, 'N'::bpchar]))	
	location_wealth_rank_number_check	((wealth_rank_number >= 1) AND (wealth_rank_number <= 10))	

Triggers

	Name	Definition	Description
	location_audit_trigger		

Table medicine

Idx	Name	Data Type	Description
Details of medicines, including their names, active ingredients, industry standard numbers, and the companies that manufacture them			
* Pk	medicine_id	integer GENERATED ALWAYS AS IDENTITY	Unique identifier for each medicine
	standard_industry_number	varchar(25)	Unique code for the medicine in industry standards.
*	name	varchar(250)	Name of the medicine
	manufacturer_id	integer	ID of Manufacturer which we ar getting from internal DB
	manufacturer_name	varchar(150)	Name of the pharmaceutical company manufacturing the medicine
	active_ingredient_name	varchar(150)	Name of the main active ingredient in the medicine

Indexes

Type	Name	On	Description
Pk	medicine_pkey	medicine_id	

Triggers

	Name	Definition	Description
	medicine_audit_trigger		

Table medicine_disease_interaction

Idx	Name	Data Type	Description
Records the interaction between medicines and diseases, with details on effectiveness and the availability of medicines for treating specific diseases			
* Pk	medicine_id	integer	Identifier of the medicine involved in the interaction. Foreign key referencing Medicine_ID in Medicine, linking medicine to its interaction.
* Pk	disease_id	integer	Identifier for the disease involved in the interaction.
	first_available_date	date	Date the medicine became available for the disease
	effectiveness_percent	double precision	Effectiveness of the medicine in treating the disease (percentage). Should be between 0 and 100

Indexes

Type	Name	On	Description
Pk	medicine_disease_interaction_pkey	medicine_id, disease_id	

Foreign Keys

Type	Name	On	Description
	medicine_disease_interaction_medicine_id_fkey (medicine_id) ref medicine (medicine_id)		ON DELETE CASCADE. If a medicine is deleted from Medicine table due to some reason like a ban, it should be deleted in the child tables too.
	medicine_disease_interaction_disease_id_fkey (disease_id) ref disease (disease_id)		

Constraints

	Name	Definition	Description
	medicine_disease_interaction_effectiveness_percent_check	((effectiveness_percent >= (0)::double precision) AND (effectiveness_percent <= (100)::double precision))	

Triggers

	Name	Definition	Description
	medicine_disease_interaction_audit_trigger		

Table person

Idx	Name	Data Type	Description
Represents individuals in the system, storing personal details like name, gender, race, and location information			
* Pk	person_id	integer	Unique identifier for each person
*	last_name	varchar(50)	Last name of the person
	first_name	varchar(50)	First name of the person.
*	gender	char(1)	Gender of the person (M, F, O, U)
	primary_location_id	integer	Foreign key referencing City_ID in Location, linking the person to their city
*	race_cd	varchar(5)	Foreign key referencing Race_Code in Race, linking the person to their race

Indexes

Type	Name	On	Description
Pk	person_pkey	person_id	

Table person

Foreign Keys

Type	Name	On	Description
	person_race_cd_fkey (race_cd) ref race (race_code)		ON UPDATE CASCADE. If the race code is updated for some reason, it should change in the child table too.
	person_primary_location_id_fkey (primary_location_id) ref location (location_id)		

Constraints

	Name	Definition	Description
	person_gender_check	(gender = ANY (ARRAY['M'::bpchar, 'F'::bpchar, 'O'::bpchar, 'U'::bpchar]))	

Triggers

	Name	Definition	Description
	person_audit_trigger		

Table race

Idx	Name	Data Type	Description
Includes information about races, with unique codes and descriptions to categorize individuals demographically			
* Pk	race_code	varchar(5)	Unique identifier for each race
*	race_description	varchar(100)	Description of the race

Indexes

Type	Name	On	Description
Pk	race_pkey	race_code	

Triggers

	Name	Definition	Description
	race_audit_trigger		

Table race_disease_propensity

Idx	Name	Data Type	Description
Captures data on the propensity of specific races to be affected by particular diseases, based on internal reports or studies.			
* Pk	race_code	varchar(5)	Identifier for the race involved in the propensity analysis
* Pk	disease_id	integer	Identifier for the disease involved in the propensity analysis
*	propensity_value	integer	Numerical value representing the race's propensity toward the disease (should be between 1 and 10)

Indexes

Type	Name	On	Description
Pk	race_disease_propensity_pkey	race_code, disease_id	

Foreign Keys

Type	Name	On	Description

Table race_disease_propensity

race_disease_propensity_disease_id_fkey (disease_id) ref disease (disease_id)		
race_disease_propensity_race_code_fkey (race_code) ref race (race_code)		ON UPDATE CASCADE. If the race code is updated for some reason, it should change in the child table too.

Constraints

Name	Definition	Description
race_disease_propensity_propensity_value_check	((propensity_value >= 1) AND (propensity_value <= 10))	

Triggers

Name	Definition	Description
race_disease_propensity_audit_trigger		