
























Final, Disease Data Dictionary

12/21/2020

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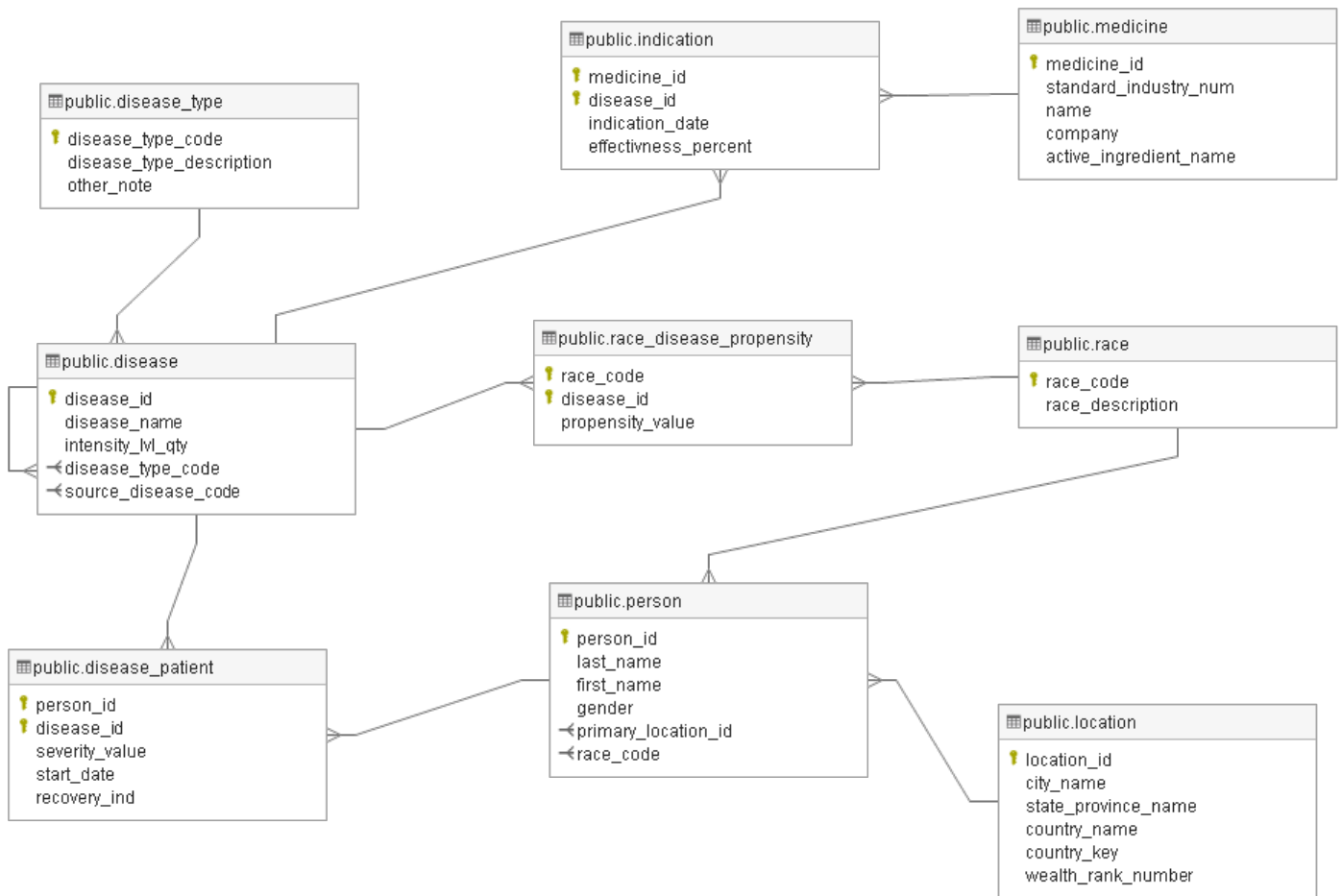
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Legend

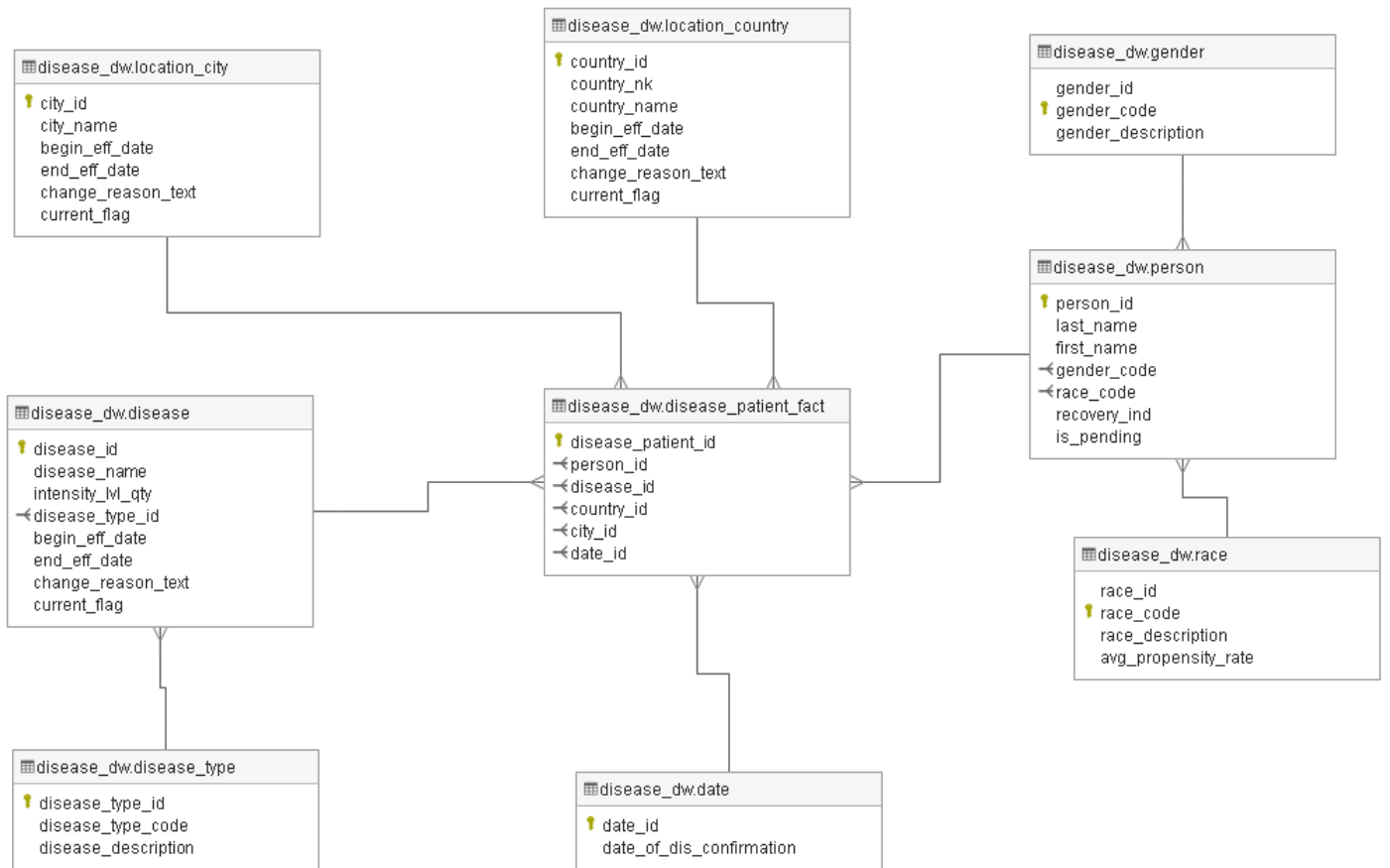
-  Primary key
-  Primary key disabled
-  User-defined primary key
-  Unique key
-  Unique key disabled
-  User-defined unique key
-  Active trigger
-  Disabled trigger
-  Many to one relation
-  User-defined many to one relation
-  One to many relation
-  User-defined one to many relation
-  Many to many relation
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-  User-defined one to one relation
-  Input
-  Output
-  Input/Output
-  Uses dependency
-  User-defined uses dependency
-  Used by dependency
-  User-defined used by dependency

Final, Disease

1. Final Disease_db ER



2. Final Disease_dw ER






3. Other

3.1. Tables

3.1.1. Table: disease_dw.date

Columns

		Name	Data type	Description / Attributes
		date_id	integer	Default: nextval('disease_dw.date_date_id_seq'::regclass)
		date_of_dis_confirmation	date	Nullable

Linked from










	Table	Join	Title / Name / Description
←	disease_dw.disease_patient_fact	disease_dw.date date_id = disease_dw.disease_patient_factdate_id	disease_patient_fact_date_id_fkey a specific disease_patient can only host one date (date of disease person relationship confirmation), while a date can be hosted by many disease_patients

Unique keys

		Name / Description
	date_id	date_pkey

3.1.2. Table: disease_dw.disease

Columns

		Name	Data type	Description / Attributes
		disease_id	integer	Default: nextval('disease_dw.disease_disease_id_seq'::regclass)
		disease_name	character varying	Nullable
		intensity_lvl_qty	integer	Nullable
		disease_type_id	integer	Nullable References: disease_dw.disease_type
		begin_eff_date	date	Nullable Default: '0001-01-01'::date
		end_eff_date	date	Nullable Default: '0001-01-01'::date
		change_reason_text	character varying	Nullable
		current_flag	boolean	Nullable Default: true

Links to

	Table	Join	Title / Name / Description
→	disease_dw.disease_type	disease_dw.disease disease_type_id = disease_dw.disease_typedisease_type_id	disease_disease_type_id_fkey a disease can host only a specific disease_type while a disease_type can host many different diseases

Linked from

	Table	Join	Title / Name / Description
←	disease_dw.disease_patient_fact	disease_dw.disease_patient_fact disease_id = disease_dw.disease_patient_fact.disease_id	disease_patient_fact_disease_id_fkey a specific disease can be hosted by many disease_patients, but a specific disease patient can only host a specific disease

Unique keys

	Name / Description
🔑	disease_id disease_pkey

3.1.3. Table: disease_dw.disease_patient_fact

Columns

		Name	Data type	Description / Attributes
📄	🔑	disease_patient_id	integer	Default: nextval('disease_dw.disease_patient_fact_disease_patient_id_seq'::regclass)
📄		person_id	integer	Nullable References: disease_dw.person
📄		disease_id	integer	Nullable References: disease_dw.disease
📄		country_id	integer	Nullable References: disease_dw.location_country
📄		city_id	integer	Nullable References: disease_dw.location_city
📄		date_id	integer	Nullable References: disease_dw.date

Links to





	Table	Join	Title / Name / Description
➔	disease_dw.date	disease_dw.disease_patient_fact date_id = disease_dw.date.date_id	disease_patient_fact_date_id_fkey a specific disease_patient can only host one date (date of disease person relationship confirmation), while a date can be hosted by many disease_patients
➔	disease_dw.disease	disease_dw.disease_patient_fact disease_id = disease_dw.disease.disease_id	disease_patient_fact_disease_id_fkey a specific disease can be hosted by many disease_patients, but a specific disease patient can only host a specific disease
➔	disease_dw.location_city	disease_dw.disease_patient_fact city_id = disease_dw.location_city.city_id	disease_patient_fact_city_id_fkey a disease_patient_fact can only host one specific location_city while a location_city can host many disease_patients
➔	disease_dw.location_country	disease_dw.disease_patient_fact country_id = disease_dw.location_country.country_id	disease_patient_fact_country_id_fkey a location_country can be the host of many disease_patients while a specific disease_patient can only host a specific location_country
➔	disease_dw.person	disease_dw.disease_patient_fact person_id = disease_dw.person.person_id	disease_patient_fact_person_id_fkey a disease_patient can only host a specific person, but a specific person can be hosted by many disease_patients

Unique keys

	Name / Description
🔑	disease_patient_id disease_patient_fact_pkey

3.1.4. Table: disease_dw.disease_type

Columns

		Name	Data type	Description / Attributes
		disease_type_id	integer	Default: nextval('disease_dw.disease_type_disease_type_id_seq'::regclass)
		disease_type_code	integer	Nullable
		disease_description	character varying	Nullable

Linked from





	Table	Join	Title / Name / Description
←	disease_dw.disease	disease_dw.disease_type disease_type_id = disease_dw.diseasedisease_type_id	disease_disease_type_id_fkey a disease can host only a specific disease_type while a disease_type can host many different diseases

Unique keys

		Name / Description
	disease_type_id	disease_type_pkey

3.1.5. Table: disease_dw.gender

Columns

		Name	Data type	Description / Attributes
		gender_id	integer	Default: nextval('disease_dw.gender_gender_id_seq'::regclass)
		gender_code	character varying	
		gender_description	character varying	Nullable

Linked from






	Table	Join	Title / Name / Description
←	disease_dw.person	disease_dw.gender gender_code = disease_dw.persongender_code	person_gender_code_fkey a specific gender can be hosted by many persons, but a specific person can only host a specific gender (contrary to popular belief)



Unique keys

		Name / Description
	gender_code	gender_pkey

3.1.6. Table: disease_dw.location_city

Columns

		Name	Data type	Description / Attributes
		city_id	integer	Default: nextval('disease_dw.location_city_city_id_seq'::regclass)
		city_name	character varying	Nullable
		begin_eff_date	date	Nullable Default: '0001-01-01'::date
		end_eff_date	date	Nullable Default: '0001-01-01'::date

	Name	Data type	Description / Attributes
	change_reason_text	character varying	Nullable
	current_flag	boolean	Nullable Default: true

Linked from









	Table	Join	Title / Name / Description
←	disease_dw.disease_patient_fact	disease_dw.location_city city_id = disease_dw.disease_patient_factcity_id	disease_patient_fact_city_id_fkey a disease_patient_fact can only host one specific location_city while a location_city can host many disease_patients

Unique keys

	Name / Description
	city_id location_city_pkey

3.1.7. Table: disease_dw.location_country

Columns

	Name	Data type	Description / Attributes
 	country_id	integer	Default: nextval('disease_dw.location_country_country_id_seq'::regclass)
	country_nk	character varying	Nullable
	country_name	character varying	Nullable
	begin_eff_date	date	Nullable Default: '0001-01-01'::date
	end_eff_date	date	Nullable Default: '0001-01-01'::date
	change_reason_text	character varying	Nullable
	current_flag	boolean	Nullable Default: true

Linked from





	Table	Join	Title / Name / Description
←	disease_dw.disease_patient_fact	disease_dw.location_country country_id = disease_dw.disease_patient_factcountry_id	disease_patient_fact_country_id_fkey a location_country can be the host of many disease_patients while a specific disease_patient can only host a specific location_country





Unique keys

	Name / Description
	country_id location_country_pkey

3.1.8. Table: disease_dw.person

Columns

	Name	Data type	Description / Attributes
 	person_id	integer	Default: nextval('disease_dw.person_person_id_seq'::regclass)
	last_name	character varying	Nullable
	first_name	character varying	Nullable

		Name	Data type	Description / Attributes
		gender_code	character varying	Nullable References: disease_dw.gender
		race_code	character varying	Nullable References: disease_dw.race
		recovery_ind	boolean	Nullable Default: false
		is_pending	boolean	Nullable Default: true

Links to

	Table	Join	Title / Name / Description
➤	disease_dw.gender	disease_dw.person gender_code = disease_dw.gendergender_code	person_gender_code_fkey a specific gender can be hosted by many persons, but a specific person can only host a specific gender (contrary to popular belief)
➤	disease_dw.race	disease_dw.person race_code = disease_dw.racerace_code	person_race_code_fkey a specific person can only host a specific race while a race can host many persons


Linked from

	Table	Join	Title / Name / Description
➤	disease_dw.disease_patient_fact	disease_dw.person person_id = disease_dw.disease_patient_factperson_id	disease_patient_fact_person_id_fkey a disease_patient can only host a specific person, but a specific person can be hosted by many disease_patients

Unique keys






		Name / Description
	person_id	person_pkey

Triggers

	Name	When	Description
	person_status	Before Insert, Update	

3.1.9. Table: disease_dw.race

Columns

		Name	Data type	Description / Attributes
		race_id	integer	Default: nextval('disease_dw.race_race_id_seq'::regclass)
		race_code	character varying	
		race_description	character varying	Nullable
		avg_propensity_rate	integer	Nullable

Linked from







	Table	Join	Title / Name / Description
➤	disease_dw.person	disease_dw.race race_code = disease_dw.personrace_code	person_race_code_fkey a specific person can only host a specific race while a race can host many persons

Unique keys



		Name / Description
	race_code	race_pkey

3.1.10. Table: public.disease





Columns

		Name	Data type	Description / Attributes
		disease_id	integer	
		disease_name	character varying	Nullable
		intensity_lv_qty	integer	Nullable Default: 1
		disease_type_code	integer	Nullable References: public.disease_type
		source_disease_code	integer	Nullable References: public.disease

Links to

	Table	Join	Title / Name / Description
	public.disease	public.disease source_disease_code = public.diseasedisease_id	disease_source_disease_code_fkey a disease_id can be the source of many diseases, but a specific diseases source can only be sourced from one disease
	public.disease_type	public.disease disease_type_code = public.disease_typedisease_type_code	disease_disease_type_code_fkey A disease_type can have many diseases that it identifies for but a disae can only host one specific disease_type.

Linked from








	Table	Join	Title / Name / Description
	public.disease	public.disease disease_id = public.diseasesource_disease_code	disease_source_disease_code_fkey a disease_id can be the source of many diseases, but a specific diseases source can only be sourced from one disease
	public.disease_patient	public.disease disease_id = public.disease_patientdisease_id	disease_patient_disease_id_fkey a specific disease can be hosted by many disease_patients, but a given disease_patient can only host one specific disease. they can be in the database more than once, once for each disease
	public.indication	public.disease disease_id = public.indicationdisease_id	indication_disease_id_fkey a specific disease can be hosted by many different indication instances, but an indication instance can only host a specific disease
	public.race_disease_propensity	public.disease disease_id = public.race_disease_propensitydisease_id	race_disease_propensity_disease_id_fkey a specific disease can be hosted by many different race_disease_propensity relationships, but a given race_disease_propensity can only host a specific disease

Unique keys

		Name / Description
	disease_id	disease_pkey

3.1.11. Table: public.disease_patient

Columns

		Name	Data type	Description / Attributes
		person_id	integer	References: public.person
		disease_id	integer	References: public.disease
		severity_value	integer	Nullable Default: 1
		start_date	date	Nullable
		recovery_ind	boolean	Nullable Default: false

Links to





	Table	Join	Title / Name / Description
➤	public.disease	public.disease_patient disease_id = public.disease_disease_id	disease_patient_disease_id_fkey a specific disease can be hosted by many disease_patients, but a given disease_patient can only host one specific disease. they can be in the database more than once, once for each disease
➤	public.person	public.disease_patient person_id = public.person_person_id	disease_patient_person_id_fkey a disease_patient can be the host of only a specific person while a person can be hosted by many disease_patient instances a person can be a patient for many disease many times (many-many)

Unique keys

		Name / Description
	person_id, disease_id	disease_patient_pkey

3.1.12. Table: public.disease_type

Columns

		Name	Data type	Description / Attributes
		disease_type_code	integer	
		disease_type_description	character varying	Nullable
		other_note	character varying	Nullable

Linked from







	Table	Join	Title / Name / Description
➤	public.disease	public.disease_type disease_type_code = public.disease_disease_type_code	disease_disease_type_code_fkey A disease_type can have many diseases that it identifies for but a disease can only host one specific disease_type.

Unique keys

		Name / Description
	disease_type_code	disease_type_pkey

3.1.13. Table: public.indication

Columns

		Name	Data type	Description / Attributes
		medicine_id	integer	References: public.medicine
		disease_id	integer	References: public.disease
		indication_date	date	Nullable
		effectiveness_percent	double precision	Nullable

Links to








	Table	Join	Title / Name / Description
➤	public.disease	public.indication disease_id = public.disease_disease_id	indication_disease_id_fkey a specific disease can be hosted by many different indication instances, but an indication instance can only host a specific disease
➤	public.medicine	public.indication medicine_id = public.medicine_medicine_id	indication_medicine_id_fkey an indication can only host a specific medicine while a medicine can be hosted by many specific indications (many medicines effectiveness_percent for many diseases)

Unique keys

		Name / Description
	medicine_id, disease_id	indication_pkey

3.1.14. Table: public.location

Columns

		Name	Data type	Description / Attributes
		location_id	integer	
		city_name	character varying	Nullable
		state_province_name	character varying	Nullable
		country_name	character varying	Nullable
		country_key	character varying	Nullable
		wealth_rank_number	integer	Nullable

Linked from







	Table	Join	Title / Name / Description
←	public.person	public.location location_id = public.person_primary_location_id	person_primary_location_id_fkey a person can only host a specific location (primary) whiel a location can be the (primary) location of many different persons

Unique keys


		Name / Description
	location_id	location_pkey

3.1.15. Table: public.medicine

Columns

		Name	Data type	Description / Attributes
		medicine_id	integer	
		standard_industry_num	character varying	Nullable
		name	character varying	Nullable
		company	character varying	Nullable
		active_ingredient_name	character varying	Nullable

Linked from








	Table	Join	Title / Name / Description
	public.indication	public.medicine medicine_id = public.indicationmedicine_id	indication_medicine_id_fkey an indication can only host a specific medicine while a medicine can be hosted by many specific indications (many medicines effectiveness_percent for many diseases)

Unique keys



		Name / Description
	medicine_id	medicine_pkey

3.1.16. Table: public.person

Columns

		Name	Data type	Description / Attributes
		person_id	integer	
		last_name	character varying	Nullable
		first_name	character varying	Nullable
		gender	character varying	Nullable
		primary_location_id	integer	Nullable References: public.location
		race_code	character varying	Nullable References: public.race

Links to

	Table	Join	Title / Name / Description
	public.location	public.person primary_location_id = public.locationlocation_id	person_primary_location_id_fkey a person can only host a specific location (primary) whiel a location can be the (primary) location of many different persons
	public.race	public.person race_code = public.racerace_code	person_race_code_fkey a specific person can only host a specific race while a specific race can hosted by many persons

Linked from

	Table	Join	Title / Name / Description
←	public.disease_patient	public.person person_id = public.disease_patientperson_id	disease_patient_person_id_fkey a disease_patient can be the host of only a specific person while a person can be hosted by many disease_patient instances a person can be a patient for many disease many times (many-many)

Unique keys

		Name / Description
🔑	person_id	person_pkey

3.1.17. Table: public.race

Columns

		Name	Data type	Description / Attributes
📄	🔑	race_code	character varying	
📄		race_description	character varying	Nullable

Linked from

	Table	Join	Title / Name / Description
←	public.person	public.race race_code = public.personrace_code	person_race_code_fkey a specific person can only host a specific race while a specific race can be hosted by many persons
←	public.race_disease_propensity	public.race race_code = public.race_disease_propensityrace_code	race_disease_propensity_race_code_fkey a race_disease_propensity can only host a specific race while a race can be hosted by many race_disease_propensity instances

Unique keys

		Name / Description
🔑	race_code	race_pkey

3.1.18. Table: public.race_disease_propensity


Columns

		Name	Data type	Description / Attributes
📄	🔑	race_code	character varying	References: public.race
📄	🔑	disease_id	integer	References: public.disease
📄		propensity_value	integer	Nullable

Links to

	Table	Join	Title / Name / Description
➤	public.disease	public.race_disease_propensity disease_id = public.diseasedisease_id	race_disease_propensity_disease_id_fkey a specific disease can be hosted by many different race_disease_propensity relationships, but a given race_disease_propensity can only host a specific disease
➤	public.race	public.race_disease_propensity race_code = public.racerace_code	race_disease_propensity_race_code_fkey a race_disease_propensity can only host a specific race while a race can be hosted by many race_disease_propensity instances










Unique keys

		Name / Description
	race_code, disease_id	race_disease_propensity_pkey

3.2. Views



3.2.1. Materialized view: disease_dw.mvw_disease_fact

Columns

		Name	Data type	Description / Attributes
		disease_patient_id	integer	Nullable
		last_name	character varying	Nullable
		first_name	character varying	Nullable
		gender_description	character varying	Nullable
		race_code	character varying	Nullable
		disease_name	character varying	Nullable
		country_name	character varying	Nullable
		city_name	character varying	Nullable
		date_of_dis_confirmation	date	Nullable




3.2.2. Materialized view: disease_dw.mvw_disease_over_all

Columns

		Name	Data type	Description / Attributes
		disease_name	character varying	Nullable
		case_num	bigint	Nullable





3.2.3. Materialized view: disease_dw.vw_disease_case_per_city






Columns

		Name	Data type	Description / Attributes
		city_name	character varying	Nullable
		disease_name	character varying	Nullable
		cases_num	bigint	Nullable

3.2.4. View: disease_dw.vw_disease_fact

Columns

		Name	Data type	Description / Attributes
		disease_patient_id	integer	Nullable
		last_name	character varying	Nullable
		first_name	character varying	Nullable
		gender_description	character varying	Nullable

	Name	Data type	Description / Attributes
	race_code	character varying	Nullable
	disease_name	character varying	Nullable
	country_name	character varying	Nullable
	city_name	character varying	Nullable
	date_of_dis_confirmation	date	Nullable

3.3. Functions

3.3.1. Function: disease_dw.person_mortal_status

Input/Output

	Name	Data type	Description
	Returns	trigger	

3.3.2. Function: disease_dw.zone_identifier

Input/Output

	Name	Data type	Description
	Returns	void	