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Raw Data Staging Layer

Table country_index			
Idx	Name	Data Type	Description
Contains details about countries, including their identifiers, wealth rankings, and developmental status.			
* Pk	country_id	integer DEFAULT nextval('raw_data_staging_layer.co untry_index_country_id_seq'::regcla ss)	Unique identifier for each country
*	country_name	varchar(100)	Name of the country
*	wealth_rank_number	integer	Ranking of the country based on wealth metrics.
	developing_flag	char(1)	Indicator for whether the country is developing (Y/N).
Indexes			
Type	Name	On	Description
Pk	country_index_pkey	country_id	

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_qty	integer	Numeric representation of the disease's severity or impact.
*	disease_type_cd	varchar(50)	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
Indexes			
Type	Name	On	Description
Pk	disease_pkey	disease_id	

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	

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	person_id	integer	Foreign key referencing Person_ID in Person, identifying the patient.
* Pk	disease_code	integer	Identifier for the disease diagnosed in the patient.
*	disease_name	varchar(250)	Name of the disease diagnosed in the patient.
	severity	integer	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	person_id, disease_code, start_date	
Foreign Keys			
Type	Name	On	Description
	fk_diseased_patient_person (person_id) ref person (person_id)		

Table location			
Idx	Name	Data Type	Description
Stores geographical information about cities, states, and countries, providing context for patient or disease data.			
* Pk	city_id	integer	Unique identifier for each city
*	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.
Indexes			
Type	Name	On	Description
Pk	location_pkey	city_id	

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	Unique identifier for each medicine
	medicine_name	varchar(250)	Name of the medicine.
	standard_industry_number	varchar(25)	Unique code for the medicine in industry standards.
	company	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

Table medicine			
Pk	medicine_pkey	medicine_id	

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	row_id	integer	Unique identifier for each interaction record
*	disease_code	integer	Identifier for the disease involved in the interaction.
*	disease_name	varchar(250)	Name of the disease involved in the interaction.
*	medicine_id	integer	Identifier of the medicine involved in the interaction. Foreign key referencing Medicine_ID in Medicine, linking medicine to its 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	row_id	
Foreign Keys			
Type	Name	On	Description
	fk_medicine_medicine_disease_interaction (medicine_id) ref medicine (medicine_id)		

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 DEFAULT nextval('raw_data_staging_layer.per son_person_id_seq '::regclass)	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).
*	race_code	varchar(5)	Foreign key referencing Race_Code in Race, linking the person to their race
	location_id	integer	Foreign key referencing City_ID in Location, linking the person to their city
Indexes			
Type	Name	On	Description
Pk	person_pkey	person_id	
Foreign Keys			
Type	Name	On	Description
	fk_race_person (race_code) ref race (race_code)		

Table person	
fk_location_person (location_id) ref location (city_id)	

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	

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
	race_description	varchar(100)	Description of the race.
* Pk	disease_id	integer	Identifier for the disease involved in the propensity analysis
	disease_name	varchar(400)	Name of the disease.
*	propensity_value	integer	Numerical value representing the race's propensity toward the disease.
Indexes			
Type	Name	On	Description
Pk	race_disease_propensity_pkey	race_code, disease_id	