

Building a data pipeline for analysing the effect of population density and total ghg emissions on global land tempe

Data Dictionary

Table: City

Description: Dimension table containing details about major cities in countries. The data for this table is gotten from stagingtermcity table

Columns

Column	Data type	Description
city	varchar	Primary Key, The name of the city, Foreign Key to the LandTemperatures.cityname
country	varchar	country the city is found in
longitude	varchar	The longitude of the city
latitude	varchar	The latitude of the city

Table: Country

Description: Dimension table containing details about countries .The data is gotten from the stagingcountries table

Columns

Column	Data type	Description
countryname	varchar	Primary Key, The name of the country, Foreign Key to the LandTemperatures.countryname
countrycode	varchar	Three letter country code
continent	varchar	The continent the country is found in

Table: Time

Description: Dimension table containing details about the time at which the temperature was taken.
The data for this table is gotten from stagingtermcity table

Columns

Column	Data type	Description
dt	date	Primary key , the date in which the average temperature was taken, Foreign Key to LandTemperatures.date
day	int4	The day extracted from dt

month	int4	The month extracted from dt
year	int4	The year gotten from the dt

Table: LandTemperatures

Description: Fact Table containing details about the average monthly temperature of cites in a country from 1990 to 2013.
The data for this table was derived from stagingcountries and stagingtempcity tables

Columns	Columns	Columns
Column	Data type	
tempId	int4	Primary key , serial key used to identify a specific monthly temperature reading
cityname	varchar	Foriegn key identifying the city in which the reading was taken
countryname	varchar	Foriegn key identifying the country in which the reading was taken
date	date	Foriegn key identifying the date in which the temperature reading ws taken
averagemonthlytemperature	numeric	The average monthly temperature of the city

Table: ClimaticFactors

Description: Fact Table containing details about factors affecting the climates per country from 1990 to 2013.
The data for this this table is gotten from the stagingghgmissions, stagingpopulationdensity, stagingtempcountry and stagingcountries tables

Columns	Columns	Columns
Column	Data type	
factorid	int4	Primary key , serial key used to identify a specific table reading
totalemissions	varchar	the total green house gases emissions including LUCF
populationdensity	varchar	The population densiity for a specific country in the year
year	date	The year for which the readings were taken
averagyearlytemperature	numeric	The average yearly temperature of the country gotten from the average of the monthly submission for whole countries
countryname	varchar	Foriegn key identifying the country for which the reading is taken