Schema for 550

**Data we have**

Zika Data

Zika(

report\_date: date,

location: varchar(),

location\_type: varchar(),

data\_field: varchar(),

data\_field\_code: varchar(),

time\_period: varchar(),

time\_period\_type: varchar(),

value: int,

unit: varchar()

)

* With the zika data we want to calculate the total number of cases, the number of cases per month, and predict the number of cases in the future (say year 2020)

Additional temperature data source

<https://www.ncdc.noaa.gov/cag/time-series/us/110/0/tavg/all/1/2015-2016?base_prd=true&firstbaseyear=1901&lastbaseyear=2000>

Mosquito Data

Mos(

Vector: String()

Lat: float

Long: float

Country: String()

Primary Key: (Vector, Lat, Long)

Foreign Key: (Country)

)

<https://www.epa.gov/climate-change-science/future-climate-change>

* Get latitude and longitude of the occurrence data of Aedes aegypti and Aedes albopictus in the United States and US territories
* We can use information about the temperature tolerances for each of the vectors
* With predicted temperature data, we can predict if the vectors will be there (regression in SQL)