SQL PORTION CREATE:

User tests positive

- --> enters visited address
- --> new entry in Cases is created for each address they visit
- --> update Address for each creation in Cases
- --> check if Address of Case is in Addresses
- --> if Address not found in Addresses
- --> compute which Block the Address is in
- --> add to Addresses table
- --> increment num_Cases in Addresses
- --> increment num_Cases_blk in Block associated with Address

READ: Get cases by address or by block

UPDATE:

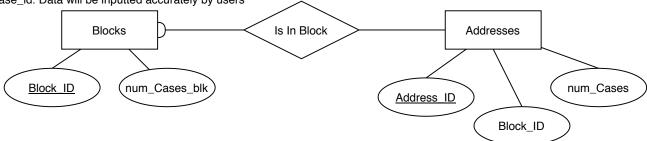
User tests positive

- --> enters visited address
- --> new entry in Cases is created for each address they visit
- --> update Address for each creation in Cases
- --> check if Address of Case is in Addresses
- --> if found increment num_Cases of that Address
- --> increment num_Cases_blk of the block for that address

DFI FTF

Delete cases after 14 days, then decrements "Cases" for associated address and block of that address

ASSUMPTIONS: Each address is only in 1 block, there will be multiple entries for the same Case_ID since the primary key in Cases is (Case_ID,Address_Visited). If a person visits multiple locations, they will have an entry for each place they visited, all with the same case_id. Data will be inputted accurately by users



NoSQL PORTION

CREATE:

Person reports business

- --> data is parsed by application
- --> check if Business reported is in Businesses table
- --> if not, add Business to Businesses, update count of the rules reported

READ:

heat map reads from Reports DB grouped on Business_ID

UPDATE:Person reports business or agrees with a business's reports

- --> data is parsed by application
- --> find Business reported in Businesses table
 --> increment <social_distancing, mask_wearing, sanitary>_count by one
 OR

Person "disagrees with" a reported business

- --> person selects which grievance they disagree with
- --> find that Business in the Businesses table
- --> decrement that rule's count for that Business

DFI FTF:

if sd = mask = sanitary = 0, delete the business from the table

Agree/Disagree Functionality

person reports a business (specify which business, specify what they're doing)

person is asked "masks? sd? sanitary? other?"

in MongoDB we go to the business, update "no mask" "sd" "sanitary"

heatmap pull data for each business

person looks at heatmap

clicks on a business

screen shows what rules the business is breaking

same screen has a button for "disagree" and "agree"

user clicks button

what do you agree/disagree with (they are/are not wearing masks, sd, sanitary...)

use the agreement/disagreement to update table by incrementing/decrementing rule's field

social_distancing_count Businesses

mask_wearing_count sanitary_count other[]

