Non-Emergency Contact App

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# SUMMARY

Everyone knows that dialing 911 is for emergencies only, but often people need help with a non-emergency situation and finding the correct number to dial is cumbersome, especially while driving. Our application will help users quickly find the non-emergency number of relevant law enforcement agencies based off the user’s location. Our application utilizes PostgreSQL to store the details of the various state, county, and local level agencies. The app would first gather the user’s location and send a query to Redis to determine the closest agency based on latitude and longitude. The result of that first query would then go to Neo4J where the agency’s bordering neighbors will be queried. The result of the Neo4J query will then go to PostgreSQL to query the details of the closest agency and its bordering neighbors. Those details would then be returned to the user’s interface.

# Literature Review

Blah blah blah

# Database Design

## POSTGRESQL

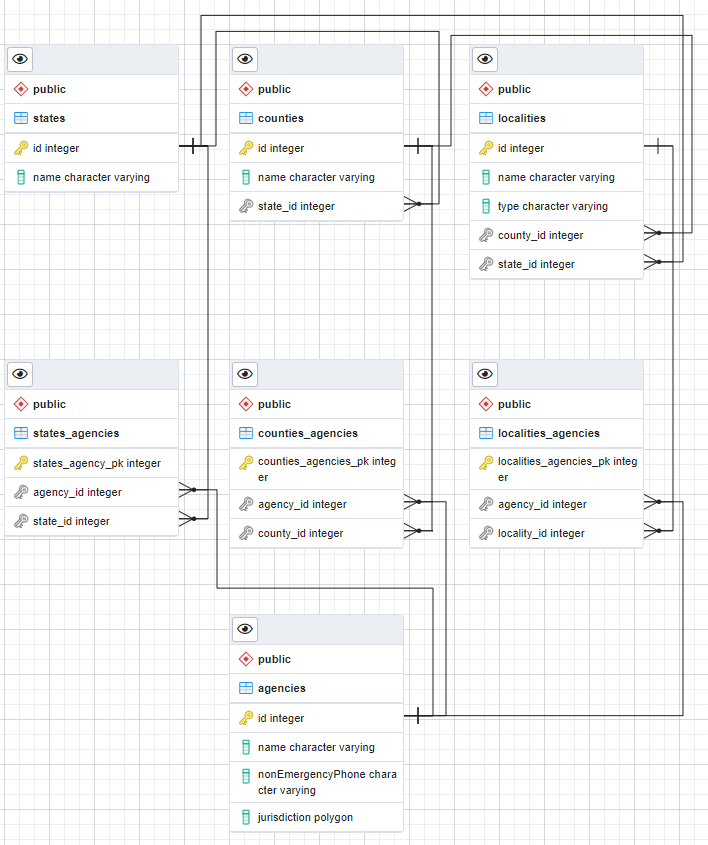


Figure 1 - ERD in 3NFshowing relationships between states, counties, localities (cities, towns, etc), and agencies (police, sheriff, etc)

## Neo4J

Our Neo4J database acts essentially as a map of the communities that we serve. Depending on the agency level, this can be a map of countries, states, counties, or cities and towns. At each level, the Neo4J database shows each locality as a node, and the relationships with other nodes detail the borders between the localities. For example, at the county level in Florida, it would show that Polk county borders Lake county.

## Redis

Blah blah blah

# Next Steps

Were we able to take this application further and build it out into a real program, there are a few features we would want to add. The first would be to use a user’s coordinates and hopefully direction of travel to better recommend adjacent organizations. For example, a user in north Polk County travelling north would not be recommended Manatee County which is south. We would also want a better way to pull agency data in case of changes. For this project, we manually pulled data from various sources and have no way of knowing if the data we pulled changes. With a better data sourcing system, those changes could become automatic and thus ensuring that our app is always up to date. Once those features are in place, we would like to expand to other points of interest, especially those in government such as courts, department of health offices, tax collectors, and so on. We also know that sometimes you just need a bit of help. Maybe you got a flat tire or ran out of gas or accidentally locked yourself out of your house. We would like to add a trusted contact network based on Neo4J that lets people register as a trusted contact. For example, if Luis marks that he trusts Ahna and Nate marks that he trusts Luis, then if Luis is unavailable to help, the app can recommend Ahna. This would, of course, be an opt-in feature and use at your own risk.

# References

Blah blah blah

# Code

## POSTGRESQL

### POSTGRESQL TO GENERATE DB, TABLES AND RELATIONS

BEGIN;

CREATE DATABASE "AgencyNonEmergencyContact"

WITH

OWNER = postgres

ENCODING = 'UTF8'

LC\_COLLATE = 'English\_United States.1252'

LC\_CTYPE = 'English\_United States.1252'

TABLESPACE = pg\_default

CONNECTION LIMIT = -1;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.agencies

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

name character varying COLLATE pg\_catalog."default" NOT NULL,

"nonEmergencyPhone" character varying COLLATE pg\_catalog."default" NOT NULL,

jurisdiction polygon NOT NULL,

CONSTRAINT agencies\_pkey PRIMARY KEY (id)

)

TABLESPACE pg\_default;

ALTER TABLE public.agencies

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.counties

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

name character varying COLLATE pg\_catalog."default" NOT NULL,

state\_id integer NOT NULL,

CONSTRAINT counties\_pkey PRIMARY KEY (id),

CONSTRAINT counties\_state\_id\_fkey FOREIGN KEY (state\_id)

REFERENCES public.states (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID

)

TABLESPACE pg\_default;

ALTER TABLE public.counties

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.counties\_agencies

(

counties\_agencies\_pk integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

agency\_id integer NOT NULL,

county\_id integer NOT NULL,

CONSTRAINT counties\_agencies\_pkey PRIMARY KEY (counties\_agencies\_pk),

CONSTRAINT counties\_agencies\_agency\_id\_fkey FOREIGN KEY (agency\_id)

REFERENCES public.agencies (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID,

CONSTRAINT counties\_agencies\_county\_id\_fkey FOREIGN KEY (county\_id)

REFERENCES public.counties (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID

)

TABLESPACE pg\_default;

ALTER TABLE public.counties\_agencies

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.localities

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

name character varying COLLATE pg\_catalog."default" NOT NULL,

type character varying COLLATE pg\_catalog."default" NOT NULL,

county\_id integer,

state\_id integer NOT NULL,

CONSTRAINT localities\_pkey PRIMARY KEY (id),

CONSTRAINT localities\_county\_id\_fkey FOREIGN KEY (county\_id)

REFERENCES public.counties (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID,

CONSTRAINT localities\_state\_id\_fkey FOREIGN KEY (state\_id)

REFERENCES public.states (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID

)

TABLESPACE pg\_default;

ALTER TABLE public.localities

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.localities\_agencies

(

localities\_agencies\_pk integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

agency\_id integer NOT NULL,

locality\_id integer NOT NULL,

CONSTRAINT localities\_agencies\_pkey PRIMARY KEY (localities\_agencies\_pk),

CONSTRAINT localities\_agencies\_agency\_id\_fkey FOREIGN KEY (agency\_id)

REFERENCES public.agencies (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID,

CONSTRAINT localities\_agencies\_locality\_id\_fkey FOREIGN KEY (locality\_id)

REFERENCES public.localities (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID

)

TABLESPACE pg\_default;

ALTER TABLE public.localities\_agencies

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.states

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

code character(2) COLLATE pg\_catalog."default" NOT NULL,

name character varying COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT states\_pkey PRIMARY KEY (id)

)

TABLESPACE pg\_default;

ALTER TABLE public.states

OWNER to postgres;

------------------------------------------------------------

CREATE TABLE IF NOT EXISTS public.states\_agencies

(

states\_agency\_pk integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

agency\_id integer NOT NULL,

state\_id integer NOT NULL,

CONSTRAINT states\_agencies\_pkey PRIMARY KEY (states\_agency\_pk),

CONSTRAINT states\_agencies\_agency\_id\_fkey FOREIGN KEY (agency\_id)

REFERENCES public.agencies (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID,

CONSTRAINT states\_agencies\_state\_id\_fkey FOREIGN KEY (state\_id)

REFERENCES public.states (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

NOT VALID

)

TABLESPACE pg\_default;

ALTER TABLE public.states\_agencies

OWNER to postgres;

END;

### POSTGRESQL TO INSERT DATA

INSERT INTO public.agencies(

name, address, "nonEmergencyPhone", jurisdiction)

VALUES

('Alachua Sheriff''s Office','PO Box 5489, Gainesville, FL 32627','352-367-4000','((1,1),(1,2),(2,2),(2,1))'),

('Baker Sheriff''s Office','1 Sheriff''s Office Drive, Macclenny, FL 32063','904-259-2231','((1,1),(1,2),(2,2),(2,1))'),

('Bay Sheriff''s Office','3421 N Highway 77, Panama City, FL 32405','850-747-4700','((1,1),(1,2),(2,2),(2,1))'),

('Bradford Sheriff''s Office','PO Box 400, Starke, FL 32091','904-966-2276','((1,1),(1,2),(2,2),(2,1))'),

('Brevard Sheriff''s Office','700 S Park Avenue, Titusville, FL 32780','321-264-5201','((1,1),(1,2),(2,2),(2,1))'),

('Broward Sheriff''s Office','2601 W Broward Blvd, Ft. Lauderdale, FL 33312','954-831-8901','((1,1),(1,2),(2,2),(2,1))'),

('Calhoun Sheriff''s Office','20776 Central Avenue E, Blountstown, FL 32424','850-674-5049','((1,1),(1,2),(2,2),(2,1))'),

('Charlotte Sheriff''s Office','7474 Utilities Road, Punta Gorda, FL 33982','941-639-2101','((1,1),(1,2),(2,2),(2,1))'),

('Citrus Sheriff''s Office','1 Dr Martin Luther King Jr Avenue, Inverness, FL 34450','352-726-4488','((1,1),(1,2),(2,2),(2,1))'),

('Clay Sheriff''s Office','PO Box 548, Green Cove Springs, FL 32043','904-284-7575','((1,1),(1,2),(2,2),(2,1))'),

('Collier Sheriff''s Office','3319 Tamiami Trail East, Naples, FL 34112','239-252-0555','((1,1),(1,2),(2,2),(2,1))'),

('Columbia Sheriff''s Office','4917 E US Highway 90, Lake City, FL 32055','386-752-9212','((1,1),(1,2),(2,2),(2,1))'),

('DeSoto Sheriff''s Office','208 E Cypress Street, Arcadia, FL 34266','863-993-4700','((1,1),(1,2),(2,2),(2,1))'),

('Dixie Sheriff''s Office','PO Box 470, Cross City, FL 32628','352-498-1220','((1,1),(1,2),(2,2),(2,1))'),

('Duval/Jacksonville Sheriff''s Office','501 E Bay Street, Jacksonville, FL 32202','904-630-2120','((1,1),(1,2),(2,2),(2,1))'),

('Escambia Sheriff''s Office','PO Box 18770, Pensacola, FL 32523','850-436-9630','((1,1),(1,2),(2,2),(2,1))'),

('Flagler Sheriff''s Office','901 E. Moody Blvd., Bunnell, FL 32110','386-437-4116','((1,1),(1,2),(2,2),(2,1))'),

('Franklin Sheriff''s Office','270 State Road 65, Eastpoint, FL 32328','850-670-8519','((1,1),(1,2),(2,2),(2,1))'),

('Gadsden Sheriff''s Office','PO Box 1709, Quincy, FL 32353','850-627-9233','((1,1),(1,2),(2,2),(2,1))'),

('Gilchrist Sheriff''s Office','9239 South US Hwy 129, Trenton, FL 32693','352-463-3181','((1,1),(1,2),(2,2),(2,1))'),

('Glades Sheriff''s Office','PO Box 39, Moore Haven, FL 33471','863-946-1600','((1,1),(1,2),(2,2),(2,1))'),

('Gulf Sheriff''s Office','PO Box 970, Port St Joe, FL 32457','850-227-1115','((1,1),(1,2),(2,2),(2,1))'),

('Hamilton Sheriff''s Office','PO Drawer A, Jasper, FL 32052','386-792-2004','((1,1),(1,2),(2,2),(2,1))'),

('Hardee Sheriff''s Office','900 East Summit Street, Wauchula, FL 33873','863-773-0304','((1,1),(1,2),(2,2),(2,1))'),

('Hendry Sheriff''s Office','PO Box 579, LaBelle, FL 33975','863-674-5603','((1,1),(1,2),(2,2),(2,1))'),

('Hernando Sheriff''s Office','PO Box 10070, Brooksville, FL 34603','352-754-6830','((1,1),(1,2),(2,2),(2,1))'),

('Highlands Sheriff''s Office','400 South Eucalyptus Street, Sebring, FL 33870','863-402-7200','((1,1),(1,2),(2,2),(2,1))'),

('Hillsborough Sheriff''s Office','PO Box 3371, Tampa, FL 33601','813-247-8000','((1,1),(1,2),(2,2),(2,1))'),

('Holmes Sheriff''s Office','211 N Oklahoma Street , Bonifay, FL 32425','850-547-4421','((1,1),(1,2),(2,2),(2,1))'),

('Indian River Sheriff''s Office','4055 41st Avenue, Vero Beach, FL 32960','772-569-8144','((1,1),(1,2),(2,2),(2,1))'),

('Jackson Sheriff''s Office','4012 Lafayette Street, Marianna, FL 32446','850-482-9017','((1,1),(1,2),(2,2),(2,1))'),

('Jefferson Sheriff''s Office','171 Industrial Park, Monticello, FL 32344','850-997-0756','((1,1),(1,2),(2,2),(2,1))'),

('Lafayette Sheriff''s Office','PO Box 227, Mayo, FL 32066','386-294-1190','((1,1),(1,2),(2,2),(2,1))'),

('Lake Sheriff''s Office','360 W Ruby Street, Tavares, FL 32778','352-343-9505','((1,1),(1,2),(2,2),(2,1))'),

('Lee Sheriff''s Office','14750 Six Mile Cypress Pkwy, Ft. Myers, FL 33912','239-477-1030','((1,1),(1,2),(2,2),(2,1))'),

('Leon Sheriff''s Office','PO Box 727, Tallahassee, FL 32302','850-922-3337','((1,1),(1,2),(2,2),(2,1))'),

('Levy Sheriff''s Office','PO Drawer 1719, Bronson, FL 32621','352-486-5116','((1,1),(1,2),(2,2),(2,1))'),

('Liberty Sheriff''s Office','PO Box 67, Bristol, FL 32321','850-643-1191','((1,1),(1,2),(2,2),(2,1))'),

('Madison Sheriff''s Office','2364 W. US 90, Madison, FL 32340','850-973-8508','((1,1),(1,2),(2,2),(2,1))'),

('Manatee Sheriff''s Office','600 US Hwy 301 Blvd W #202, Bradenton, FL 34205','941-749-5401','((1,1),(1,2),(2,2),(2,1))'),

('Marion Sheriff''s Office','PO Box 1987, Ocala, FL 34478','352-620-7209','((1,1),(1,2),(2,2),(2,1))'),

('Martin Sheriff''s Office','800 SE Monterey Road, Stuart, FL 34994','772-320-4747','((1,1),(1,2),(2,2),(2,1))'),

('Miami-Dade Sheriff''s Office','9105 NW 25th Street, Miami, FL 33172','305-471-2163','((1,1),(1,2),(2,2),(2,1))'),

('Monroe Sheriff''s Office','5525 College Road, Key West, FL 33040','305-292-7099','((1,1),(1,2),(2,2),(2,1))'),

('Nassau Sheriff''s Office','77151 Citizens Circle, Yulee, FL 32097','904-225-0443','((1,1),(1,2),(2,2),(2,1))'),

('Okaloosa Sheriff''s Office','50 Second Street, Shalimar, FL 32579','850-609-3048','((1,1),(1,2),(2,2),(2,1))'),

('Okeechobee Sheriff''s Office','PO Drawer 1397, Okeechobee, FL 34973','863-763-6366','((1,1),(1,2),(2,2),(2,1))'),

('Orange Sheriff''s Office','PO Box 1440, Orlando, FL 32802','407-254-7014','((1,1),(1,2),(2,2),(2,1))'),

('Osceola Sheriff''s Office','2601 E Irlo Bronson Memorial Hwy, Kissimmee, FL 34744','407-348-1115','((1,1),(1,2),(2,2),(2,1))'),

('Palm Beach Sheriff''s Office','PO Box 24681, West Palm Beach, FL 33416','561-688-3033','((1,1),(1,2),(2,2),(2,1))'),

('Pasco Sheriff''s Office','8700 Citizen Drive, New Port Richey, FL 34654','727-844-7742','((1,1),(1,2),(2,2),(2,1))'),

('Pinellas Sheriff''s Office','PO Box 2500, Largo, FL 33779','727-582-6459','((1,1),(1,2),(2,2),(2,1))'),

('Polk Sheriff''s Office','1891 Jim Keene Blvd. , Winter Haven, FL 33880','863-298-6518','((1,1),(1,2),(2,2),(2,1))'),

('Putnam Sheriff''s Office','PO Drawer 1578, Palatka, FL 32178','386-329-0484','((1,1),(1,2),(2,2),(2,1))'),

('Santa Rosa Sheriff''s Office','PO Box 7129, Milton, FL 32572','850-983-1129','((1,1),(1,2),(2,2),(2,1))'),

('Sarasota Sheriff''s Office','PO Box 4115, Sarasota, FL 34230','941-378-0951','((1,1),(1,2),(2,2),(2,1))'),

('Seminole Sheriff''s Office','100 Eslinger Way, Sanford, FL 32773','407-665-6654','((1,1),(1,2),(2,2),(2,1))'),

('St Johns Sheriff''s Office','4015 Lewis Speedway, St. Augustine, FL 32084','904-810-6782','((1,1),(1,2),(2,2),(2,1))'),

('St Lucie Sheriff''s Office','4700 W Midway Road, Ft Pierce, FL 34981','772-489-5851','((1,1),(1,2),(2,2),(2,1))'),

('Sumter Sheriff''s Office','7361 Powell Road, Wildwood, FL 34785','352-569-1601','((1,1),(1,2),(2,2),(2,1))'),

('Suwannee Sheriff''s Office','200 South Ohio/MLK Ave Ste 105, Live Oak, FL 32064','386-362-2222','((1,1),(1,2),(2,2),(2,1))'),

('Taylor Sheriff''s Office','108 N Jefferson Street Ste 103, Perry, FL 32347','850-584-4225','((1,1),(1,2),(2,2),(2,1))'),

('Union Sheriff''s Office',' 55 W Main Street Room 102, Lake Butler, FL 32054','386-496-2501','((1,1),(1,2),(2,2),(2,1))'),

('Volusia Sheriff''s Office','PO Box 569 , DeLand, FL 32721','386-736-5961','((1,1),(1,2),(2,2),(2,1))'),

('Wakulla Sheriff''s Office','15 Oak Street, Crawfordville, FL 32327','850-745-7100','((1,1),(1,2),(2,2),(2,1))'),

('Walton Sheriff''s Office','752 Triple G Road, DeFuniak Springs, FL 32433','850-892-8186','((1,1),(1,2),(2,2),(2,1))'),

('Washington Sheriff''s Office','PO Box 626, Chipley, FL 32428','850-638-6111','((1,1),(1,2),(2,2),(2,1))'),

('Kissimmee Police Department','8 N Stewart Ave, Kissimmee, FL 34741','407-846-3333','((1,1),(1,2),(2,2),(2,1))')

('Florida Highway Patrol','2908 Ridgeway St, Tallahassee, FL 32310','\*347','((1,1),(1,2),(2,2),(2,1))');

INSERT INTO public.counties(

name, state\_id)

VALUES

('ALACHUA', 15),

('BAKER', 15),

('BAY', 15),

('BRADFORD', 15),

('BREVARD', 15),

('BROWARD', 15),

('CALHOUN', 15),

('CHARLOTTE', 15),

('CITRUS', 15),

('CLAY', 15),

('COLLIER', 15),

('COLUMBIA', 15),

('DESOTO', 15),

('DIXIE', 15),

('DUVAL', 15),

('ESCAMBIA', 15),

('FLAGLER', 15),

('FRANKLIN', 15),

('GADSDEN', 15),

('GILCHRIST', 15),

('GLADES', 15),

('GULF', 15),

('HAMILTON', 15),

('HARDEE', 15),

('HENDRY', 15),

('HERNANDO', 15),

('HIGHLANDS', 15),

('HILLSBOROUGH', 15),

('HOLMES', 15),

('INDIAN RIVER', 15),

('JACKSON', 15),

('JEFFERSON', 15),

('LAFAYETTE', 15),

('LAKE', 15),

('LEE', 15),

('LEON', 15),

('LEVY', 15),

('LIBERTY', 15),

('MADISON', 15),

('MANATEE', 15),

('MARION', 15),

('MARTIN', 15),

('MIAMI-DADE', 15),

('MONROE', 15),

('NASSAU', 15),

('OKALOOSA', 15),

('OKEECHOBEE', 15),

('ORANGE', 15),

('OSCEOLA', 15),

('PALM BEACH', 15),

('PASCO', 15),

('PINELLAS', 15),

('POLK', 15),

('PUTNAM', 15),

('SANTA ROSA', 15),

('SARASOTA', 15),

('SEMINOLE', 15),

('ST. JOHNS', 15),

('ST. LUCIE', 15),

('SUMTER', 15),

('SUWANNEE', 15),

('TAYLOR', 15),

('UNION', 15),

('VOLUSIA', 15),

('WAKULLA', 15),

('WALTON', 15),

('WASHINGTON', 15);

INSERT INTO public.counties\_agencies(

agency\_id, county\_id)

VALUES

(1, 1),

(2, 2),

(3, 3),

(4, 4),

(5, 5),

(6, 6),

(7, 7),

(8, 8),

(9, 9),

(10, 10),

(11, 11),

(12, 12),

(13, 13),

(14, 14),

(15, 15),

(16, 16),

(17, 17),

(18, 18),

(19, 19),

(20, 20),

(21, 21),

(22, 22),

(23, 23),

(24, 24),

(25, 25),

(26, 26),

(27, 27),

(28, 28),

(29, 29),

(30, 30),

(31, 31),

(32, 32),

(33, 33),

(34, 34),

(35, 35),

(36, 36),

(37, 37),

(38, 38),

(39, 39),

(40, 40),

(41, 41),

(42, 42),

(43, 43),

(44, 44),

(45, 45),

(46, 46),

(47, 47),

(48, 48),

(49, 49),

(50, 50),

(51, 51),

(52, 52),

(53, 53),

(54, 54),

(55, 55),

(56, 56),

(57, 57),

(58, 58),

(59, 59),

(60, 60),

(61, 61),

(62, 62),

(63, 63),

(64, 64),

(65, 65),

(66, 66),

(67, 67);

INSERT INTO public.localities(

name, type, county\_id, state\_id)

VALUES

('Alachua','',1,15),

('Alford','',31,15),

('Altamonte Springs','',57,15),

('Altha','',7,15),

('Altoona','',34,15),

('Alva','',35,15),

('Andover','',43,15),

('Andrews','',37,15),

('Anna Maria','',40,15),

('Apalachicola','',18,15),

('Apollo Beach','',28,15),

('Apopka','',48,15),

('Arcadia','',13,15),

('Archer','',1,15),

('Asbury Lake','',10,15),

('Astatula','',34,15),

('Astor','',34,15),

('Atlantic Beach','',15,15),

('Atlantis','',50,15),

('Auburndale','',53,15),

('Aventura','',43,15),

('Avon Park','',27,15),

('Azalea Park','',48,15),

('Babson Park','',53,15),

('Bagdad','',55,15),

('Bal Harbour','',43,15),

('Baldwin','',15,15),

('Bartow','',53,15),

('Bascom','',31,15),

('Bay Hill','',48,15),

('Bay Lake','',48,15),

('Bay Pines','',52,15),

('Bayonet Point','',51,15),

('Bayport','',26,15),

('Bayshore Gardens','',40,15),

('Beacon Square','',51,15),

('Bee Ridge','',56,15),

('Bell','',20,15),

('Bellair-Meadowbrook Terrace','',10,15),

('Belle Glade','',50,15),

('Belle Glade Camp','',50,15),

('Belle Isle','',48,15),

('Belleair','',52,15),

('Belleair Beach','',52,15),

('Belleair Bluffs','',52,15),

('Belleair Shore','',52,15),

('Belleview','',41,15),

('Bellview','',16,15),

('Beverly Beach','',17,15),

('Beverly Hills','',9,15),

('Big Coppitt Key','',44,15),

('Big Pine Key','',44,15),

('Biscayne Park','',43,15),

('Bithlo','',48,15),

('Black Diamond','',9,15),

('Bloomingdale','',28,15),

('Blountstown','',7,15),

('Boca Del Mar','',50,15),

('Boca Pointe','',50,15),

('Boca Raton','',50,15),

('Bokeelia','',35,15),

('Bonifay','',29,15),

('Bonita Springs','',35,15),

('Bonnie Lock-Woodsetter North','',6,15),

('Boulevard Gardens','',6,15),

('Bowling Green','',24,15),

('Boyette','',28,15),

('Boynton Beach','',50,15),

('Bradenton','',40,15),

('Bradenton Beach','',40,15),

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('St. George','',6,15),

('St. James City','',35,15),

('St. Leo','',51,15),

('St. Lucie','',59,15),

('St. Marks','',65,15),

('St. Pete Beach','',52,15),

('St. Petersburg','',52,15),

('Stacey Street','',50,15),

('Starke','',4,15),

('Stock Island','',44,15),

('Stuart','',42,15),

('Sugarmill Woods','',9,15),

('Suncoast Estates','',35,15),

('Sunny Isles Beach','',43,15),

('Sunrise','',6,15),

('Sunset','',43,15),

('Sunshine Acres','',6,15),

('Sunshine Ranches','',6,15),

('Surfside','',43,15),

('Sweetwater','',43,15),

('Sylvan Shores','',27,15),

('Taft','',48,15),

('Tallahassee','',36,15),

('Tamarac','',6,15),

('Tamiami','',43,15),

('Tampa','',28,15),

('Tangelo Park','',48,15),

('Tangerine','',48,15),

('Tarpon Springs','',52,15),

('Tavares','',34,15),

('Tavernier','',44,15),

('Taylor Creek','',47,15),

('Tedder','',6,15),

('Temple Terrace','',28,15),

('Tequesta','',50,15),

('Terra Mar','',6,15),

('The Crossings','',43,15),

('The Hammocks','',43,15),

('The Meadows','',56,15),

('The Villages','',60,15),

('Thonotosassa','',28,15),

('Three Lakes','',43,15),

('Three Oaks','',35,15),

('Tice','',35,15),

('Tierra Verde','',52,15),

('Tildenville','',48,15),

('Timber Pines','',26,15),

('Titusville','',5,15),

('Town ''n Country','',28,15),

('Treasure Island','',52,15),

('Trenton','',20,15),

('Trinity','',51,15),

('Twin Lakes','',6,15),

('Tyndall AFB','',3,15),

('Umatilla','',34,15),

('Union Park','',48,15),

('University','',28,15),

('University Park','',43,15),

('Upper Grand Lagoon','',3,15),

('Utopia','',6,15),

('Valparaiso','',46,15),

('Valrico','',28,15),

('Vamo','',56,15),

('Venice','',56,15),

('Venice Gardens','',56,15),

('Vernon','',67,15),

('Vero Beach','',30,15),

('Vero Beach South','',30,15),

('Village Park','',6,15),

('Villages of Oriole','',50,15),

('Villano Beach','',58,15),

('Villas','',35,15),

('Vineyards','',11,15),

('Virginia Gardens','',43,15),

('Wabasso','',30,15),

('Wabasso Beach','',30,15),

('Wahneta','',53,15),

('Waldo','',1,15),

('Warm Mineral Springs','',56,15),

('Warrington','',16,15),

('Washington Park','',6,15),

('Watertown','',12,15),

('Wauchula','',24,15),

('Wausau','',67,15),

('Waverly','',53,15),

('Webster','',60,15),

('Wedgefield','',48,15),

('Weeki Wachee','',26,15),

('Weeki Wachee Gardens','',26,15),

('Wekiwa Springs','',57,15),

('Welaka','',54,15),

('Wellington','',50,15),

('Wesley Chapel','',51,15),

('Wesley Chapel South','',51,15),

('West and East Lealman','',52,15),

('West Bradenton','',40,15),

('West De Land','',64,15),

('West Ken-Lark','',6,15),

('West Little River','',43,15),

('West Melbourne','',5,15),

('West Miami','',43,15),

('West Palm Beach','',50,15),

('West Pensacola','',16,15),

('West Perrine','',43,15),

('West Samoset','',40,15),

('West Vero Corridor','',30,15),

('Westchase','',28,15),

('Westchester','',43,15),

('Westgate-Belvedere Homes','',50,15),

('Weston','',6,15),

('Westview','',43,15),

('Westville','',29,15),

('Westwood Lakes','',43,15),

('Wewahitchka','',22,15),

('Whiskey Creek','',35,15),

('Whisper Walk','',50,15),

('White City','',59,15),

('White Springs','',23,15),

('Whitfield','',40,15),

('Wildwood','',60,15),

('Williamsburg','',48,15),

('Williston','',37,15),

('Williston Highlands','',37,15),

('Willow Oak','',53,15),

('Wilton Manors','',6,15),

('Wimauma','',28,15),

('Windermere','',48,15),

('Winston','',53,15),

('Winter Beach','',30,15),

('Winter Garden','',48,15),

('Winter Haven','',53,15),

('Winter Park','',48,15),

('Winter Springs','',57,15),

('Woodville','',36,15),

('Worthington Springs','',63,15),

('Wright','',46,15),

('Yalaha','',34,15),

('Yankeetown','',37,15),

('Yulee','',45,15),

('Zellwood','',48,15),

('Zephyrhills','',51,15),

('Zephyrhills North','',51,15),

('Zephyrhills South','',51,15),

('Zephyrhills West','',51,15),

('Zolfo Springs','',24,15);

INSERT INTO public.localities\_agencies(

agency\_id, locality\_id)

VALUES (68, 387); -- Kissimmee Police Department, Kissimmee

INSERT INTO public.states(

code, name)

VALUES

('AL','ALABAMA'),

('AK','ALASKA'),

('AB','ALBERTA'),

('AS','AMERICAN SAMOA'),

('AZ','ARIZONA'),

('AR','ARKANSAS'),

('BC','BRITISH COLUMBIA'),

('CA','CALIFORNIA'),

('PW','CAROLINE ISLANDS'),

('CO','COLORADO'),

('CT','CONNETICUT'),

('DE','DELAWARE'),

('DC','DISTRICT OF COLUMBIA'),

('FM','FEDERATED STATE'),

('FL','FLORIDA'),

('GA','GEORGIA'),

('GU','GUAM'),

('HI','HAWAII'),

('ID','IDOHA'),

('IL','ILLINOIS'),

('IN','INDIANA'),

('IA','IOWA'),

('KS','KANSAS'),

('KY','KENTUCKY'),

('LA','LOUSIANA'),

('ME','MAINE'),

('MB','MANITOBA'),

('MP','MARIANA ISLANDS'),

('MH','MARSHALL ISLANDS'),

('MD','MARYLAND'),

('MA','MASSACHUSETTS'),

('MI','MICHIGAN'),

('MN','MINNESOTA'),

('MS','MISSISSIPPI'),

('MO','MISSOURI'),

('MT','MONTANA'),

('NE','NEBRASKA'),

('NV','NEVADA'),

('NB','NEW BRUNSWICK'),

('NH','NEW HAMPSHIRE'),

('NJ','NEW JERSEY'),

('NM','NEW MEXICO'),

('NY','NEW YORK'),

('NF','NEWFOUNDLAND'),

('NC','NORTH CAROLINA'),

('ND','NORTH DAKOTA'),

('NT','NORTHWEST TERRITORIES'),

('NS','NOVA SCOTIA'),

('NU','NUNAVUT'),

('OH','OHIO'),

('OK','OKLAHOMA'),

('ON','ONTARIO'),

('OR','OREGON'),

('PA','PENNSYLVANIA'),

('PE','PRINCE EDWARD ISLAND'),

('PR','PUERTO RICO'),

('PQ','QUEBEC'),

('RI','RHODE ISLAND'),

('SK','SASKATCHEWAN'),

('SC','SOUTH CAROLINA'),

('SD','SOUTH DAKOTA'),

('TN','TENNESSEE'),

('TX','TEXAS'),

('UT','UTAH'),

('VT','VERMONT'),

('VI','VIRGIN ISLANDS'),

('VA','VIRGINIA'),

('WA','WASHINGTON'),

('WV','WEST VIRGINIA'),

('WI','WISCONSIN'),

('WY','WYOMING'),

('YT','YUKON TERRITORY'),

('AE','ARMED FORCES - EUROPE'),

('AA','ARMED FORCES - AMERICAS'),

('AP','ARMED FORCES - PACIFIC');

INSERT INTO public.states\_agencies(

agency\_id, state\_id)

VALUES (69, 15); -- Florida Highway Patrol, Florida

### POSTGRESQL TO CREATE GETAGENCY FUNCTION

CREATE OR REPLACE FUNCTION getAgency("state" VARCHAR DEFAULT '', "county" VARCHAR DEFAULT '', "locality" VARCHAR DEFAULT '')

RETURNS TABLE (agency\_name VARCHAR, agency\_address VARCHAR, agency\_phone VARCHAR) LANGUAGE plpgsql

AS $$

BEGIN

RETURN QUERY

SELECT a.name, a.address, a."nonEmergencyPhone"

FROM public.agencies a

INNER JOIN public.states\_agencies sa ON a.id = sa.agency\_id

INNER JOIN public.states s ON s.id = sa.state\_id

WHERE (upper("state") = upper(s.name) OR "state" = '')

UNION

SELECT a.name, a.address, a."nonEmergencyPhone"

FROM public.agencies a

INNER JOIN public.counties\_agencies ca ON a.id = ca.agency\_id

INNER JOIN public.counties c ON c.id = ca.county\_id

WHERE (upper("county") = upper(c.name) OR "county" = '')

UNION

SELECT a.name, a.address, a."nonEmergencyPhone"

FROM public.agencies a

INNER JOIN public.localities\_agencies la ON a.id = la.agency\_id

INNER JOIN public.localities l ON l.id = la.locality\_id

WHERE (upper("locality") = upper(l.name) OR "locality" = '');

END;$$

### POSTGRESQL TO CALL GETAGENCY FUNCTION

SELECT public.getagency('.', '.', '.');

-- State, County, Locality parameters. '' for any match, '.' for exclusion, 'SOME NAME' for exact match

## Neo4J

### Database Creation

We created the database using the Neo4J graphical user interface.

### Filling the Database

CREATE

(escambia:County { name: "Escambia"}),

(santa\_rosa:County { name: "Santa Rosa"}),

(okaloosa:County { name: "Okaloosa"}),

(walton:County { name: "Walton"}),

(holmes:County { name: "Holmes"}),

(washington:County { name: "Washington"}),

(bay:County { name: "Bay"}),

(jackson:County { name: "Jackson"}),

(calhoun:County { name: "Calhoun"}),

(gulf:County { name: "Gulf"}),

(gadsden:County { name: "Gadsden"}),

(liberty:County { name: "Liberty"}),

(franklin:County { name: "Franklin"}),

(leon:County { name: "Leon"}),

(wakulla:County { name: "Wakulla"}),

(jefferson:County { name: "Jefferson"}),

(madison:County { name: "Madison"}),

(taylor:County { name: "Taylor"}),

(hamilton:County { name: "Hamilton"}),

(suwanee:County { name: "Suwanee"}),

(lafayette:County { name: "Lafayette"}),

(columbia:County { name: "Columbia"}),

(baker:County { name: "Baker"}),

(nassau:County { name: "Nassau"}),

(duval:County { name: "Duval"}),

(clay:County { name: "Clay"}),

(st\_johns:County { name: "St Johns"}),

(putnam:County { name: "Putnam"}),

(flagler:County { name: "Flagler"}),

(volusia:County { name: "Volusia"}),

(union:County { name: "Union"}),

(bradford:County { name: "Bradford"}),

(alachua:County { name: "Alachua"}),

(gilchrist:County { name: "Gilchrist"}),

(dixie:County { name: "Dixie"}),

(levy:County { name: "Levy"}),

(marion:County { name: "Marion"}),

(citrus:County { name: "Citrus"}),

(sumter:County { name: "Sumter"}),

(lake:County { name: "Lake"}),

(hernando:County { name: "Hernando"}),

(pasco:County { name: "Pasco"}),

(seminole:County { name: "Seminole"}),

(orange:County { name: "Orange"}),

(brevard:County { name: "Brevard"}),

(osceola:County { name: "Osceola"}),

(polk:County { name: "Polk"}),

(hillsborough:County { name: "Hillsborough"}),

(pinellas:County { name: "Pinellas"}),

(manatee:County { name: "Manatee"}),

(hardee:County { name: "Hardee"}),

(highlands:County { name: "Highlands"}),

(okeechobee:County { name: "Okeechobee"}),

(indian\_river:County { name: "Indian River"}),

(st\_lucie:County { name: "St Lucie"}),

(martin:County { name: "Martin"}),

(palm\_beach:County { name: "Palm Beach"}),

(sarasota:County { name: "Sarasota"}),

(desoto:County { name: "DeSoto"}),

(charlotte:County { name: "Charlotte"}),

(glades:County { name: "Glades"}),

(lee:County { name: "Lee"}),

(hendry:County { name: "Hendry"}),

(collier:County { name: "Collier"}),

(broward:County { name: "Broward"}),

(monroe:County { name: "Monroe"}),

(miami\_dade:County { name: "Miami-Dade"}),

(escambia)-[:BORDERS]->(santa\_rosa),

(okaloosa)-[:BORDERS]->(santa\_rosa),

(okaloosa)-[:BORDERS]->(walton),

(holmes)-[:BORDERS]->(walton),

(walton)-[:BORDERS]->(washington),

(bay)-[:BORDERS]->(walton),

(holmes)-[:BORDERS]->(washington),

(holmes)-[:BORDERS]->(jackson),

(jackson)-[:BORDERS]->(washington),

(bay)-[:BORDERS]->(washington),

(bay)-[:BORDERS]->(jackson),

(bay)-[:BORDERS]->(calhoun),

(bay)-[:BORDERS]->(gulf),

(calhoun)-[:BORDERS]->(jackson),

(gadsden)-[:BORDERS]->(jackson),

(jackson)-[:BORDERS]->(liberty),

(calhoun)-[:BORDERS]->(liberty),

(calhoun)-[:BORDERS]->(gulf),

(gulf)-[:BORDERS]->(liberty),

(franklin)-[:BORDERS]->(gulf),

(gadsden)-[:BORDERS]->(leon),

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(franklin)-[:BORDERS]->(liberty),

(liberty)-[:BORDERS]->(wakulla),

(leon)-[:BORDERS]->(liberty),

(franklin)-[:BORDERS]->(wakulla),

(jefferson)-[:BORDERS]->(leon),

(leon)-[:BORDERS]->(wakulla),

(jefferson)-[:BORDERS]->(wakulla),

(jefferson)-[:BORDERS]->(madison),

(jefferson)-[:BORDERS]->(taylor),

(hamilton)-[:BORDERS]->(madison),

(madison)-[:BORDERS]->(suwanee),

(lafayette)-[:BORDERS]->(madison),

(madison)-[:BORDERS]->(taylor),

(lafayette)-[:BORDERS]->(taylor),

(dixie)-[:BORDERS]->(taylor),

(columbia)-[:BORDERS]->(hamilton),

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(columbia)-[:BORDERS]->(suwanee),

(gilchrist)-[:BORDERS]->(suwanee),

(lafayette)-[:BORDERS]->(suwanee),

(gilchrist)-[:BORDERS]->(lafayette),

(dixie)-[:BORDERS]->(lafayette),

(baker)-[:BORDERS]->(columbia),

(columbia)-[:BORDERS]->(union),

(alachua)-[:BORDERS]->(columbia),

(columbia)-[:BORDERS]->(gilchrist),

(baker)-[:BORDERS]->(union),

(baker)-[:BORDERS]->(bradford),

(baker)-[:BORDERS]->(nassau),

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(bradford)-[:BORDERS]->(clay),

(clay)-[:BORDERS]->(union),

(duval)-[:BORDERS]->(st\_johns),

(flagler)-[:BORDERS]->(st\_johns),

(putnam)-[:BORDERS]->(st\_johns),

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(putnam)-[:BORDERS]->(volusia),

(marion)-[:BORDERS]->(putnam),

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(flagler)-[:BORDERS]->(volusia),

(brevard)-[:BORDERS]->(volusia),

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(lake)-[:BORDERS]->(volusia),

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(bradford)-[:BORDERS]->(union),

(alachua)-[:BORDERS]->(union),

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(alachua)-[:BORDERS]->(marion),

(alachua)-[:BORDERS]->(levy),

(alachua)-[:BORDERS]->(gilchrist),

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(dixie)-[:BORDERS]->(gilchrist),

(dixie)-[:BORDERS]->(levy),

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(citrus)-[:BORDERS]->(levy),

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(citrus)-[:BORDERS]->(hernando),

(lake)-[:BORDERS]->(sumter),

(polk)-[:BORDERS]->(sumter),

(pasco)-[:BORDERS]->(sumter),

(hernando)-[:BORDERS]->(sumter),

(lake)-[:BORDERS]->(seminole),

(lake)-[:BORDERS]->(orange),

(lake)-[:BORDERS]->(polk),

(hernando)-[:BORDERS]->(pasco),

(pasco)-[:BORDERS]->(polk),

(hillsborough)-[:BORDERS]->(pasco),

(pasco)-[:BORDERS]->(pinellas),

(orange)-[:BORDERS]->(seminole),

(brevard)-[:BORDERS]->(orange),

(orange)-[:BORDERS]->(osceola),

(orange)-[:BORDERS]->(polk),

(brevard)-[:BORDERS]->(indian\_river),

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(highlands)-[:BORDERS]->(polk),

(hardee)-[:BORDERS]->(polk),

(manatee)-[:BORDERS]->(polk),

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(highlands)-[:BORDERS]->(okeechobee),

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(charlotte)-[:BORDERS]->(highlands),

(desoto)-[:BORDERS]->(highlands),

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(okeechobee)-[:BORDERS]->(st\_lucie),

(martin)-[:BORDERS]->(okeechobee),

(okeechobee)-[:BORDERS]->(palm\_beach),

(glades)-[:BORDERS]->(okeechobee),

(indian\_river)-[:BORDERS]->(st\_lucie),

(martin)-[:BORDERS]->(st\_lucie),

(palm\_beach)-[:BORDERS]->(st\_lucie),

(martin)-[:BORDERS]->(palm\_beach),

(broward)-[:BORDERS]->(palm\_beach),

(hendry)-[:BORDERS]->(palm\_beach),

(glades)-[:BORDERS]->(palm\_beach),

(desoto)-[:BORDERS]->(sarasota),

(charlotte)-[:BORDERS]->(sarasota),

(desoto)-[:BORDERS]->(glades),

(charlotte)-[:BORDERS]->(desoto),

(charlotte)-[:BORDERS]->(glades),

(charlotte)-[:BORDERS]->(hendry),

(charlotte)-[:BORDERS]->(lee),

(glades)-[:BORDERS]->(hendry),

(glades)-[:BORDERS]->(lee),

(hendry)-[:BORDERS]->(lee),

(collier)-[:BORDERS]->(lee),

(broward)-[:BORDERS]->(hendry),

(collier)-[:BORDERS]->(hendry),

(broward)-[:BORDERS]->(collier),

(collier)-[:BORDERS]->(miami\_dade),

(collier)-[:BORDERS]->(monroe),

(broward)-[:BORDERS]->(miami\_dade),

(miami\_dade)-[:BORDERS]->(monroe)

## Redis

### Database Creation

### Filling the Database