For Healthcare blue book project:

We need following data

NPPES data

Hop teaming

Taxonomy

Software used:

Python, Neo4j and postgres sql

Data:

* DocGraph Hop Teaming
  + <https://careset.com/datasets/>
* NPPES
  + <http://download.cms.gov/nppes/NPI_Files.html>
* Taxonomy

<http://www.nucc.org/index.php?option=com_content&view=article&id=107&Itemid=132>

import the original csv file. Create new file called npi.csv from original file

# Replace empty "" integer fields in NPI CSV file

$ sed 's/""//g' npidata\_20050523-20160110.csv > npi.csv

HCBB=# copy nppes\_import from '/Users/sbussa/Downloads/NPPES\_Data\_Dissemination\_February\_2020/npi.csv' with CSV header delimiter AS ',' NULL AS '';

## Create table nppes\_import to import original Npi(Nppes) data into the postgres table

-- Table: public.nppes\_import

-- DROP TABLE public.nppes\_import;

CREATE TABLE public.nppes\_import

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"Other Provider Identifier\_50" character varying(256) COLLATE pg\_catalog."default",

"Other Provider Identifier Type Code\_50" character varying(256) COLLATE pg\_catalog."default",

"Other Provider Identifier State\_50" character varying(256) COLLATE pg\_catalog."default",

"Other Provider Identifier Issuer\_50" character varying(256) COLLATE pg\_catalog."default",

"Is Sole Proprietor" character varying(256) COLLATE pg\_catalog."default",

"Is Organization Subpart" character varying(256) COLLATE pg\_catalog."default",

"Parent Organization LBN" character varying(256) COLLATE pg\_catalog."default",

"Parent Organization TIN" character varying(256) COLLATE pg\_catalog."default",

"Authorized Official Name Prefix Text" character varying(256) COLLATE pg\_catalog."default",

"Authorized Official Name Suffix Text" character varying(256) COLLATE pg\_catalog."default",

"Authorized Official Credential Text" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_1" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_2" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_3" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_4" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_5" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_6" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_7" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_8" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_9" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_10" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_11" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_12" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_13" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_14" character varying(256) COLLATE pg\_catalog."default",

"Healthcare Provider Taxonomy Group\_15" character varying(256) COLLATE pg\_catalog."default",

"Certification Date" character varying(256) COLLATE pg\_catalog."default"

)

TABLESPACE pg\_default;

ALTER TABLE public.nppes\_import

OWNER to postgres;

Then import the data into sql tables using postgres’s csv import functionality.

Create another table called npi\_info. This table has only required fields.

-- Table: public.npi\_info

-- DROP TABLE public.npi\_info;

CREATE TABLE public.npi\_info

(

"NPI" character varying(10) COLLATE pg\_catalog."default" NOT NULL,

"Entity\_Type\_Code" character varying(1) COLLATE pg\_catalog."default",

"Employer\_Identification\_Number" character varying(9) COLLATE pg\_catalog."default",

"Provider\_Organization\_Name" character varying(70) COLLATE pg\_catalog."default",

"Provider\_Last\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_First\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Middle\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Name\_Prefix" character varying(5) COLLATE pg\_catalog."default",

"Provider\_Name\_Suffix" character varying(5) COLLATE pg\_catalog."default",

"Provider\_Credential" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Other\_Organization\_Name" character varying(70) COLLATE pg\_catalog."default",

"Provider\_Other\_Organization\_Name\_Type\_Code" character varying(1) COLLATE pg\_catalog."default",

"Provider\_Other\_Last\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Other\_First\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Other\_Middle\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider Other\_Name\_Prefix\_Text" character varying(5) COLLATE pg\_catalog."default",

"Provider Other\_Name\_Suffix\_Text" character varying(5) COLLATE pg\_catalog."default",

"Provider\_Other\_Credential\_Text" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Other\_Last\_Name\_Type\_Code" character varying(1) COLLATE pg\_catalog."default",

"Provider\_First\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Second\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_City\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_State\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Postal\_Code" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Country\_Code" character varying(2) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Telephone\_Number" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Fax\_Number" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Enumeration\_Date" character varying(50) COLLATE pg\_catalog."default",

"Last\_Update\_Date" character varying(50) COLLATE pg\_catalog."default",

"NPI\_Deactivation\_Reason\_Code" character varying(2) COLLATE pg\_catalog."default",

"NPI\_Deactivation\_Date" character varying(50) COLLATE pg\_catalog."default",

"NPI\_Reactivation\_Date" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Gender\_Code" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_1" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_1" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_1" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_1" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_2" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_2" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_2" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_2" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_3" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_3" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_3" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_3" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_4" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_4" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_4" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_4" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_5" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_5" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_5" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_5" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_6" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_6" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_6" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_6" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_7" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_7" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number State Code\_7" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_7" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_8" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_8" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_8" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_8" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_9" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_9" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_9" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_9" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_10" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_10" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_10" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_10" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_11" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_11" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_11" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_11" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_12" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_12" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_12" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_12" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_13" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_13" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_13" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_13" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_14" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_14" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_14" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_14" character varying(1) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Taxonomy\_Code\_15" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_15" character varying(50) COLLATE pg\_catalog."default",

"Provider\_License\_Number\_State\_Code\_15" character varying(2) COLLATE pg\_catalog."default",

"Healthcare\_Provider\_Primary\_Taxonomy\_Switch\_15" character varying(1) COLLATE pg\_catalog."default",

CONSTRAINT npi\_info\_pkey PRIMARY KEY ("NPI"),

CONSTRAINT foreign\_taxonomy FOREIGN KEY ("Healthcare\_Provider\_Taxonomy\_Code\_1")

REFERENCES public.specialization (code) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE public.npi\_info

OWNER to postgres;

Now copy required data from nppes\_import to npi\_import.

Insert into npi\_info

SELECT "NPI",

"Entity Type Code",

"Employer Identification Number (EIN)",

"Provider Organization Name (Legal Business Name)",

"Provider Last Name (Legal Name)",

"Provider First Name",

"Provider Middle Name",

"Provider Name Prefix Text",

"Provider Name Suffix Text",

"Provider Credential Text",

"Provider Other Organization Name",

"Provider Other Organization Name Type Code",

"Provider Other Last Name",

"Provider Other First Name",

"Provider Other Middle Name",

"Provider Other Name Prefix Text",

"Provider Other Name Suffix Text",

"Provider Other Credential Text",

"Provider Other Last Name Type Code",

"Provider First Line Business Practice Location Address",

"Provider Second Line Business Practice Location Address",

"Provider Business Practice Location Address City Name",

"Provider Business Practice Location Address State Name",

"Provider Business Practice Location Address Postal Code",

"Provider Business Practice Location Address Country Code (If ou",

"Provider Business Practice Location Address Telephone Number",

"Provider Business Practice Location Address Fax Number",

"Provider Enumeration Date",

"Last Update Date",

"NPI Deactivation Reason Code",

"NPI Deactivation Date",

"NPI Reactivation Date",

"Provider Gender Code",

"Healthcare Provider Taxonomy Code\_1",

"Provider License Number\_1",

"Provider License Number State Code\_1",

"Healthcare Provider Primary Taxonomy Switch\_1",

"Healthcare Provider Taxonomy Code\_2",

"Provider License Number\_2", "Provider License Number State Code\_2", "Healthcare Provider Primary Taxonomy Switch\_2",

"Healthcare Provider Taxonomy Code\_3", "Provider License Number\_3", "Provider License Number State Code\_3",

"Healthcare Provider Primary Taxonomy Switch\_3", "Healthcare Provider Taxonomy Code\_4", "Provider License Number\_4",

"Provider License Number State Code\_4", "Healthcare Provider Primary Taxonomy Switch\_4", "Healthcare Provider Taxonomy Code\_5",

"Provider License Number\_5", "Provider License Number State Code\_5", "Healthcare Provider Primary Taxonomy Switch\_5",

"Healthcare Provider Taxonomy Code\_6", "Provider License Number\_6", "Provider License Number State Code\_6",

"Healthcare Provider Primary Taxonomy Switch\_6", "Healthcare Provider Taxonomy Code\_7", "Provider License Number\_7",

"Provider License Number State Code\_7", "Healthcare Provider Primary Taxonomy Switch\_7", "Healthcare Provider Taxonomy Code\_8",

"Provider License Number\_8", "Provider License Number State Code\_8", "Healthcare Provider Primary Taxonomy Switch\_8",

"Healthcare Provider Taxonomy Code\_9", "Provider License Number\_9", "Provider License Number State Code\_9",

"Healthcare Provider Primary Taxonomy Switch\_9", "Healthcare Provider Taxonomy Code\_10", "Provider License Number\_10",

"Provider License Number State Code\_10", "Healthcare Provider Primary Taxonomy Switch\_10", "Healthcare Provider Taxonomy Code\_11",

"Provider License Number\_11", "Provider License Number State Code\_11", "Healthcare Provider Primary Taxonomy Switch\_11",

"Healthcare Provider Taxonomy Code\_12", "Provider License Number\_12", "Provider License Number State Code\_12",

"Healthcare Provider Primary Taxonomy Switch\_12", "Healthcare Provider Taxonomy Code\_13", "Provider License Number\_13",

"Provider License Number State Code\_13", "Healthcare Provider Primary Taxonomy Switch\_13", "Healthcare Provider Taxonomy Code\_14",

"Provider License Number\_14", "Provider License Number State Code\_14", "Healthcare Provider Primary Taxonomy Switch\_14",

"Healthcare Provider Taxonomy Code\_15", "Provider License Number\_15", "Provider License Number State Code\_15",

"Healthcare Provider Primary Taxonomy Switch\_15" FROM public.nppes\_import;

More tables:

CREATE TABLE public.providers

(

"NPI" character varying(10) COLLATE pg\_catalog."default",

"Entity\_Type\_Code" character varying(10) COLLATE pg\_catalog."default",

"Provider\_Organization\_Name" character varying(255) COLLATE pg\_catalog."default",

"Provider\_Last\_Name" character varying(50) COLLATE pg\_catalog."default",

"Provider\_First\_Name" character varying(50) COLLATE pg\_catalog."default",

"First\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Second\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Address\_City\_Name" character varying(50) COLLATE pg\_catalog."default",

"Address\_State\_Name" character varying(50) COLLATE pg\_catalog."default",

"Address\_Postal\_Code" character varying(50) COLLATE pg\_catalog."default",

"Address\_Country\_Code" character varying(2) COLLATE pg\_catalog."default",

"Address\_Telephone\_Number" character varying(50) COLLATE pg\_catalog."default",

"Provider\_Gender\_Code" character varying(50) COLLATE pg\_catalog."default" ,

"taxonomy" character varying(10) COLLATE pg\_catalog."default",

CONSTRAINT foreign\_tax FOREIGN KEY ("taxonomy")

REFERENCES public.taxonomy (code) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

-- Table: public.specialization

-- DROP TABLE public.specialization;

CREATE TABLE public.specialization

(

code character varying(10) COLLATE pg\_catalog."default" NOT NULL,

"grouping" character varying COLLATE pg\_catalog."default",

classification character varying COLLATE pg\_catalog."default",

specialization character varying COLLATE pg\_catalog."default",

definition text COLLATE pg\_catalog."default",

notes text COLLATE pg\_catalog."default",

CONSTRAINT taxonomy\_pkey PRIMARY KEY (code)

)

TABLESPACE pg\_default;

ALTER TABLE public.specialization

OWNER to postgres;

CREATE TABLE public.location

(

location\_id integer NOT NULL DEFAULT nextval('location\_location\_id\_seq'::regclass),

"Provider\_First\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Second\_Line\_Business\_Practice\_Location\_Address" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_City\_Name" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_State\_Name" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Postal\_Code" character varying(256) COLLATE pg\_catalog."default",

"Provider\_Business\_Practice\_Location\_Address\_Country\_Code" character varying(256) COLLATE pg\_catalog."default",

CONSTRAINT location\_pkey PRIMARY KEY (location\_id)

)

TABLESPACE pg\_default;

ALTER TABLE public.location

OWNER to postgres;

CREATE TABLE public.hop\_teaming

(

id integer NOT NULL,

from\_npi integer,

to\_npi integer,

patient\_count integer,

transaction\_count integer,

average\_day\_wait numeric,

std\_day\_wait numeric,

CONSTRAINT from\_npi FOREIGN KEY (from\_npi)

REFERENCES public.providers (npi) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT to\_npi FOREIGN KEY (to\_npi)

REFERENCES public.providers (npi) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE public.hop\_teaming

OWNER to postgres;

-- Index: idx\_tran\_count

-- DROP INDEX public.idx\_tran\_count;

CREATE INDEX idx\_tran\_count

ON public.hop\_teaming USING btree

(transaction\_count)

TABLESPACE pg\_default;

To copy data from Postgres to CSV USING COMMAND WINDOW.

OPEN POSTGRES

DOUBLE CLICK THE DATABASE and command window appears.

Type: \copy hop\_teaming\_short2 to ./desktop/hop\_teaming\_short2.csv CSV HEADER

See that the file is copied to the desktop. Copy command is a client side copy and ./desktop is a relative path.

We also have server side copy where we use COPY: copy uses absolute path and \copy uses an absolute path

To get data into NEO4J:

Neo4j Commands

Place all TN files in the import folder of neo4j database.

Step 1: Load providers

LOAD CSV WITH HEADERS FROM "file:///Providers\_tn.csv" AS line

MERGE (s:Providers {npi:line.npi,entity\_type:line.entity\_type,

last\_name:line.last\_name,first\_name:line.first\_name,prov\_organization:line.provider\_organization\_name,loc\_id:line.location\_id,gender:line.gender,taxonomy:line.taxonomy})

Add index:

CREATE INDEX ON :Providers(npi)

CREATE INDEX ON :Specialization(code)

create index on :Providers(loc\_id)

create index on :Location(loc\_id)

Step 2: Load hop\_teaming and do the self join

LOAD CSV WITH HEADERS FROM "file:///hop\_teaming\_tn.csv" AS line

MATCH (a:Providers {npi:line.from\_npi})

MATCH (b:Providers {npi:line.to\_npi})

CREATE (a)-[r: REFERRED\_TO{patient\_count:line.patient\_count,transaction\_count:line.transaction\_count,avg\_day\_wait:line.average\_day\_wait}]->(b)

RETURN a,b

Step 3: Load specializations

LOAD CSV WITH HEADERS FROM "file:///specialization.csv" AS line

MERGE (s:Specialization {code:line.code,grouping:line.grouping,classification:line.classification,special:line.specialization})

Step 4: Load locations

LOAD CSV WITH HEADERS FROM "file:///locations\_tn.csv" AS line

MERGE (l:Location {loc\_id:line.location\_id,

loc\_address\_1:line.Provider\_First\_Line\_Business\_Practice\_Location\_Address,loc\_address\_2:line.Provider\_Second\_Line\_Business\_Practice\_Location\_Address,loc\_city:line.Provider\_Business\_Practice\_Location\_Address\_City\_Name,loc\_state:line.Provider\_Business\_Practice\_Location\_Address\_State\_Name,loc\_zip:line.Provider\_Business\_Practice\_Location\_Address\_Postal\_Code,loc\_country:line.Provider\_Business\_Practice\_Location\_Address\_Country\_Code})

Step 5:

MATCH (a:Providers), (b:Specialization) WHERE a.taxonomy= b.code

CREATE (a)-[r: SPECIALISED{s:b.code,grouping:b.grouping,class:b.classification,special:b.special}]->(b)

RETURN a,b

Step. 6: Merge Locations

MATCH (a:Providers), (b:Location) WHERE a.loc\_id = b.loc\_id

CREATE (a)-[r: LOCATED\_AT{}]->(b)

RETURN a,b

Copy the organization name to last\_name property when last\_name is null

MATCH (n:Providers)

WHERE n.last\_name = "NULL"

SET n.last\_name = n.prov\_organization

To install Neo4j Graph algorithms plugin

<https://github.com/neo4j-contrib/neo4j-graph-algorithms>

APPLYING CENTRALITY Algorithm (Page rank)

CALL algo.pageRank.stream('Providers','REFERRED\_TO',{iterations:20,dampingFactor:0.85,weightProperty:"transaction\_count"})

YIELD nodeId,score

RETURN algo.asNode(nodeId).last\_name as provider,score

ORDER BY score DESC