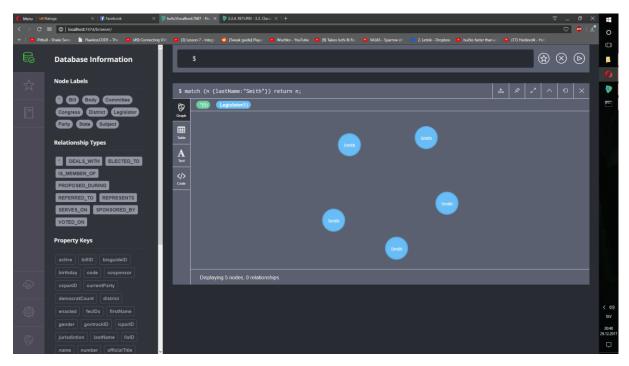
match (n {lastName:«Smith«}) return n;



2. match (z:Legislator), p=(bill)-[r:SPONSORED_BY]->(:Legislator)
where z.state="CA" AND z.birthday>"1952-02-09" return p limit 25;

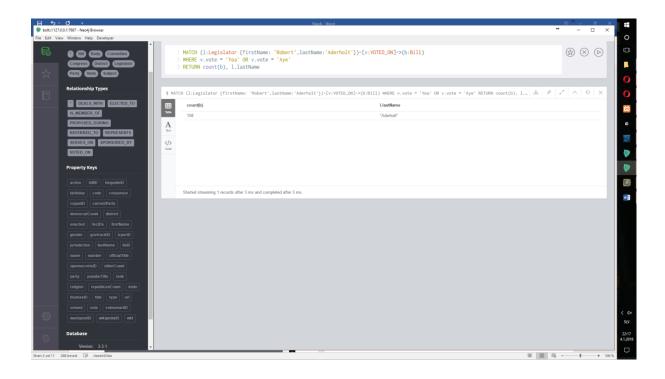


3)

MATCH (I:Legislator {firstName: 'Robert',lastName:'Aderholt'})-[v:VOTED_ON]->(b:Bill)

WHERE v.vote = 'Yea' OR v.vote = 'Aye'

RETURN count(b), I.lastName



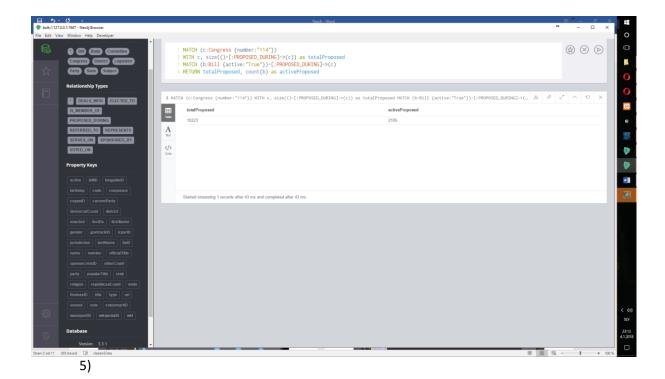
4)

MATCH (c:Congress {number:"114"})

WITH c, size(()-[:PROPOSED_DURING]->(c)) as totalProposed

MATCH (b:Bill {active:"True"})-[:PROPOSED_DURING]->(c)

RETURN totalProposed, count(b) as activeProposed

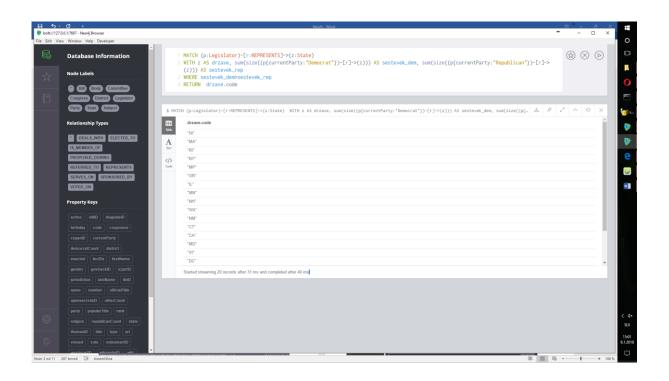


MATCH (p:Legislator)-[r:REPRESENTS]->(z:State)

 $\label{lem:with_prop_sum} WITH \ z \ AS \ drzave, \ sum(size((p\{currentParty:"Democrat"\})-[r]->(z))) \ AS \ sestevek_dem, \\ sum(size((p\{currentParty:"Republican"\})-[r]->(z))) \ AS \ sestevek_rep$

WHERE sestevek_dem>sestevek_rep

RETURN drzave.code



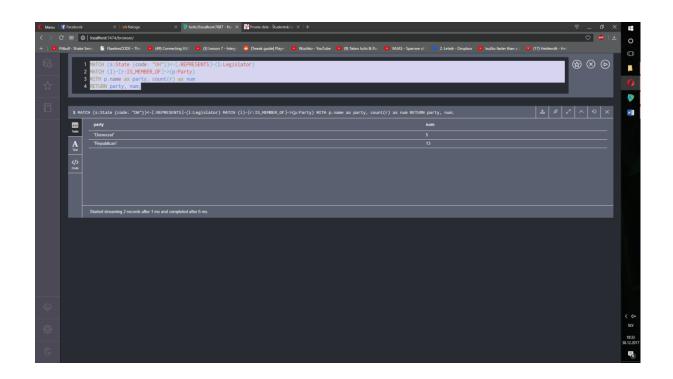
6.

MATCH (s:State {code: "OH"})<-[:REPRESENTS]-(I:Legislator)

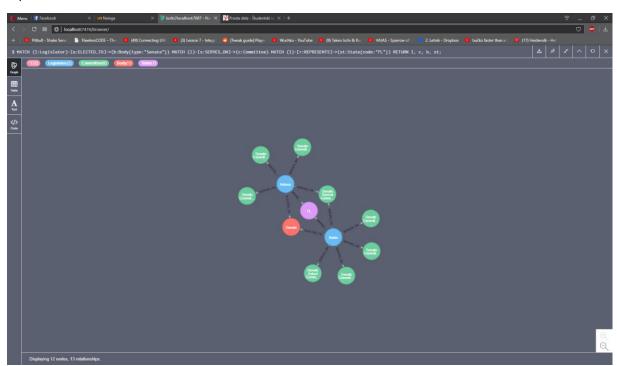
MATCH (I)-[r:IS_MEMBER_OF]->(p:Party)

WITH p.name as party, count(r) as num

RETURN party, num;



7.)



```
MATCH (I:Legislator)-[e:ELECTED_TO]->(b:Body{type:"Senate"})

MATCH (I)-[s:SERVES_ON]->(c:Committee)

MATCH (I)-[r:REPRESENTS]->(st:State{code:"FL"})

RETURN I, c, b, st;
```

8.)

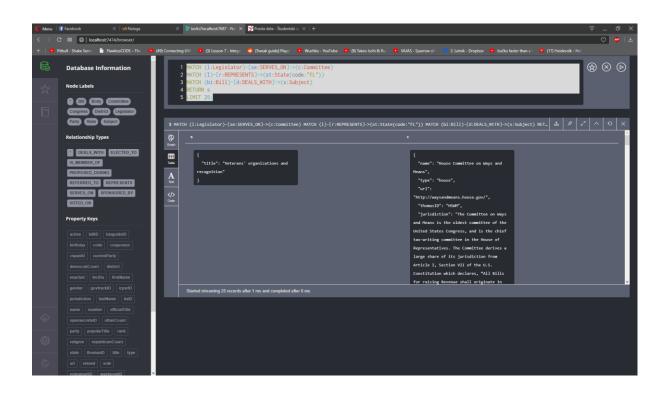
MATCH (I:Legislator)-[se:SERVES_ON]->(c:Committee)

MATCH (I)-[r:REPRESENTS]->(st:State{code:"FL"})

MATCH (bi:Bill)-[d:DEALS_WITH]->(s:Subject)

RETURN s

LIMIT 25;



GAME OF THRONES

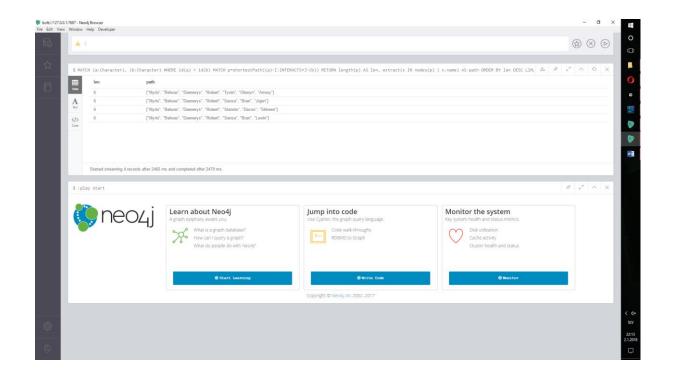
1) MATCH (c:Character)-[:INTERACTS]->()
WITH c, count(*) AS num
RETURN min(num) AS min, max(num) AS max, avg(num) AS
avg characters, stdev(num) AS stdev



2) MATCH (joe:Character{name:"Joffrey"}), (drogo:Character{name:"Drogo"})
MATCH path=allShortestPaths((joe)-[INTERACTS*]-(drogo))
RETURN path;



3. MATCH (a:Character), (b:Character) WHERE id(a) > id(b)
MATCH p=shortestPath((a)-[:INTERACTS*]-(b))
RETURN length(p) AS len, extract(x IN nodes(p) | x.name) AS path
ORDER BY len DESC LIMIT 4

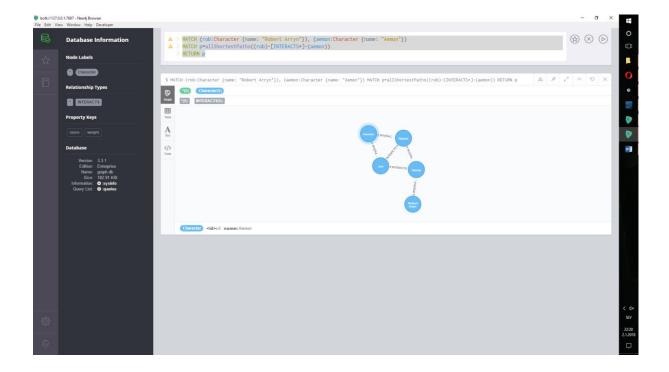


4.

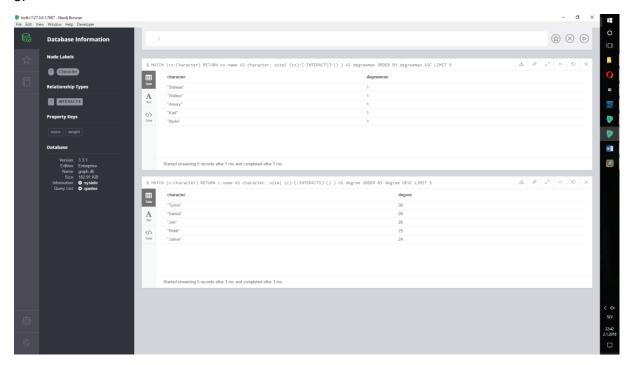
MATCH (rob:Character {name: "Robert Arryn"}), (aemon:Character {name: "Aemon"})

MATCH p=allShortestPaths((rob)-[INTERACTS*]-(aemon))

RETURN p



5.



MATCH (cx:Character)

RETURN cx.name AS character, size((cx)-[:INTERACTS]-()) AS degreemax ORDER BY degreemax ASC LIMIT 5

MATCH (c:Character)

RETURN c.name AS character, size((c)-[:INTERACTS]-()) AS degree ORDER BY degree DESC LIMIT 5

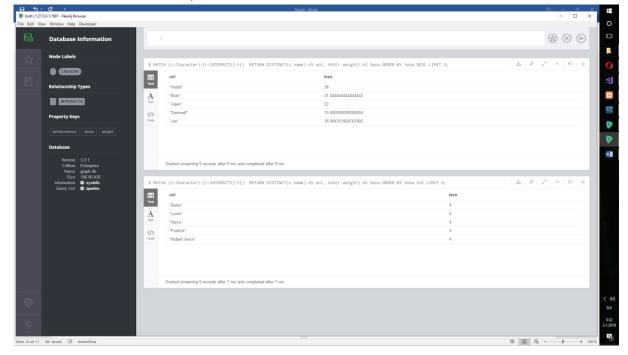
6.

LAHKO TUDI MATCH (C:CHARACTER)-[R:INTERACTS]-(), RAZLIČNI REZULTATI!

MATCH (c:Character)-[r:INTERACTS]->()

RETURN DISTINCT(c.name) AS peder, AVG(r.weight) AS teza

ORDER BY teza ASC LIMIT 5;



MATCH (c:Character)-[r:INTERACTS]->()

RETURN DISTINCT(c.name) AS uni, AVG(r.weight) AS teza

ORDER BY teza DESC LIMIT 5;

BETWEEN

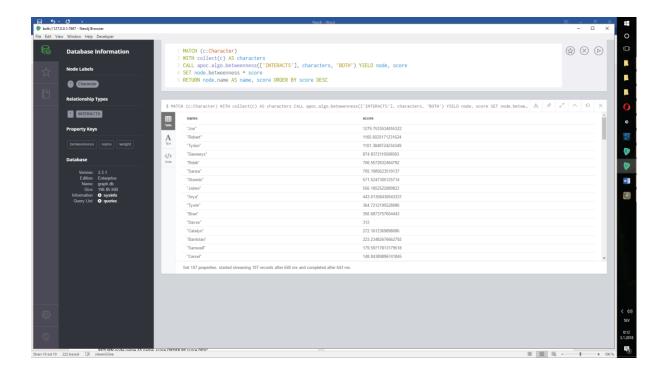
MATCH (c:Character)

WITH collect(c) AS characters

CALL apoc.algo.betweenness(['INTERACTS'], characters, 'BOTH') YIELD node, score

SET node.betweenness = score

RETURN node.name AS name, score ORDER BY score DESC



CLOSENESS

MATCH (c:Character)

WITH collect(c) AS characters

CALL apoc.algo.closeness(['INTERACTS'], characters, 'BOTH') YIELD node, score

RETURN node.name AS name, score ORDER BY score DESC

