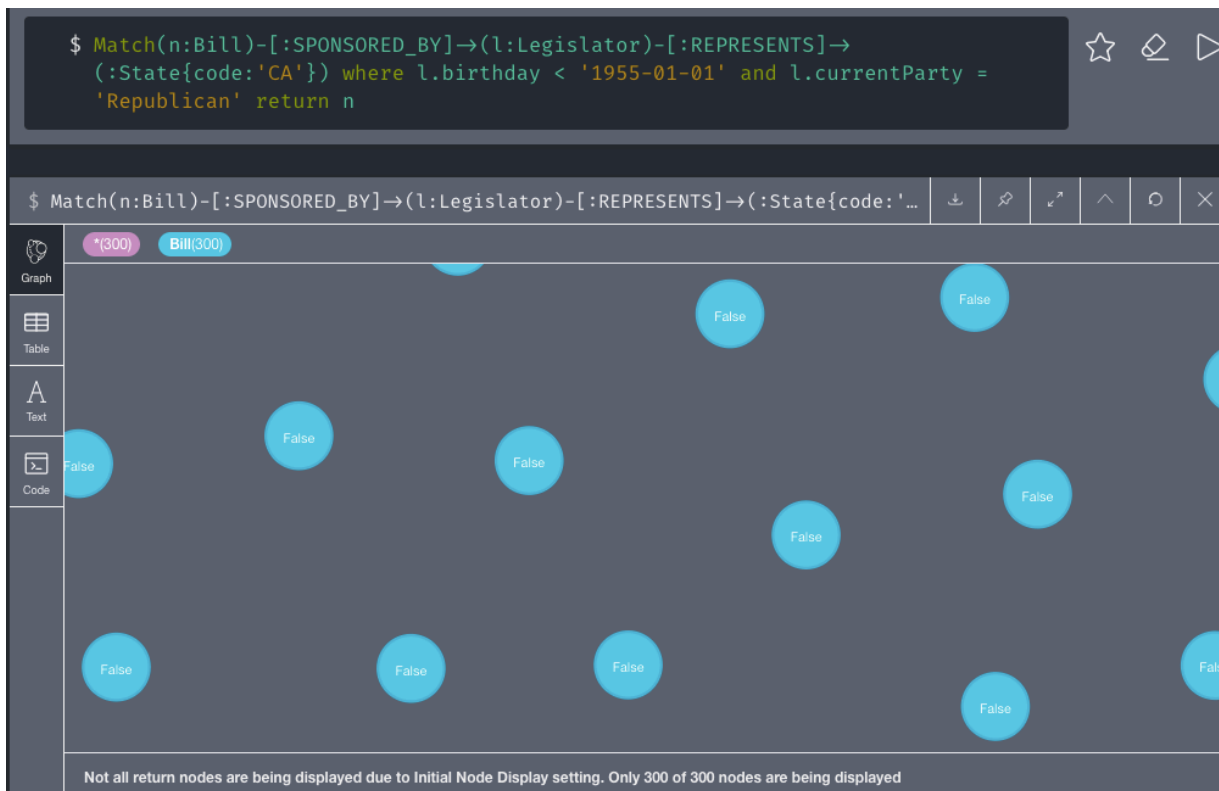


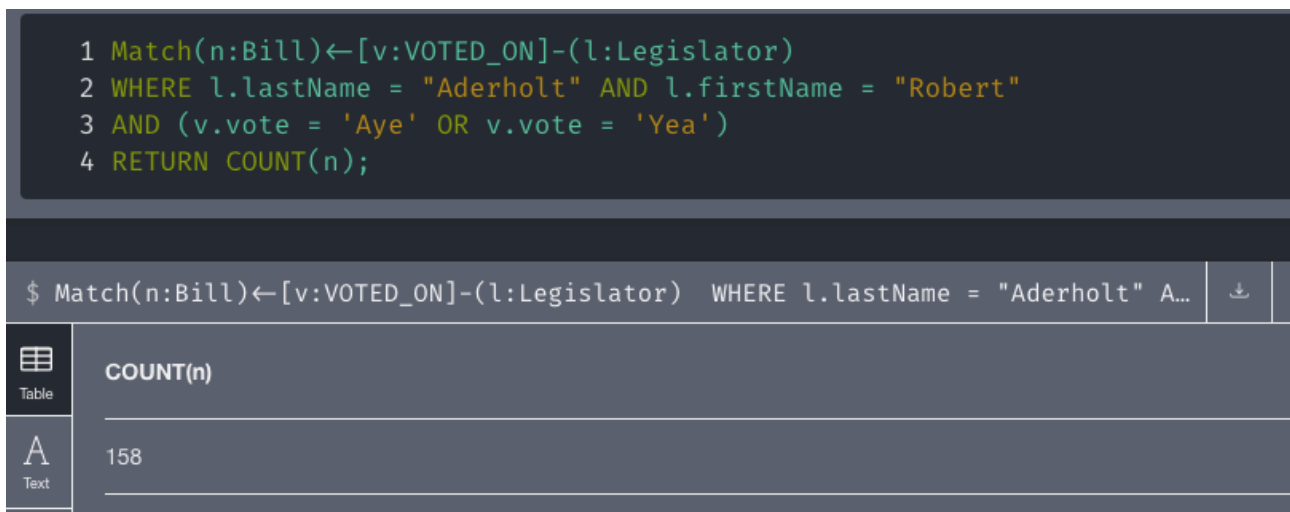
1. Print out all laws sponsored by republicans from California, who are over 65 years old.

```
Match(n:Bill)-[:SPONSORED_BY]->(l:Legislator)-[:REPRESENTS]->(:State{code:'CA'})
where l.birthday < '1955-01-01' and l.currentParty = 'Republican' return n
```



2. Count for how many laws Robert Aderholt voted positively.

```
Match(n:Bill)<-[v:VOTED_ON]-(l:Legislator)
WHERE l.lastName = "Aderholt" AND l.firstName = "Robert"
AND (v.vote = 'Aye' OR v.vote = 'Yea')
RETURN COUNT(n);
```





3. How many laws were proposed at the 114th Congress, and how many of these are currently active?

```
Match(b:Bill)-[:PROPOSED_DURING]->(c:Congress)
WHERE c.number = "114" AND b.active = "True"
RETURN COUNT(b);
```



```
1 Match(b:Bill)-[:PROPOSED_DURING]->(c:Congress)
2 WHERE c.number = "114"
3 RETURN COUNT(b);
```

\$ Match(b:Bill)-[:PROPOSED\_DURING]->(c:Congress) WHERE c.number = "114"

 Table	<b>COUNT(b)</b>
 Text	10223

```
1 Match(b:Bill)-[:PROPOSED_DURING]->(c:Congress)
2 WHERE c.number = "114" AND b.active = "True"
3 RETURN COUNT(b);
```

\$ Match(b:Bill)-[:PROPOSED\_DURING]->(c:Congress) WHERE c.number = "114" AND b.active = "True"

 Table	<b>COUNT(b)</b>
 Text	2105

4. Print out all the states that hold the majority of democrats in the congress.

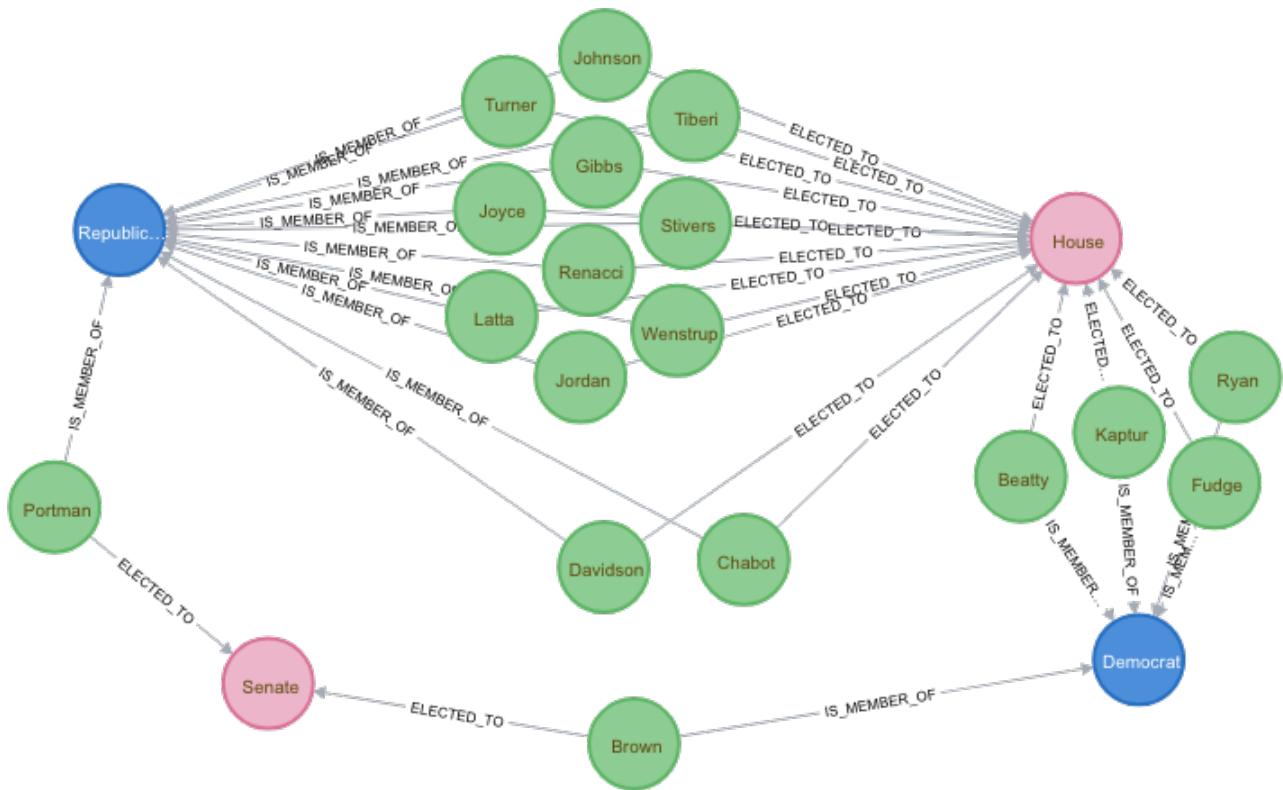
```
Match(s:State)←[r:REPRESENTS]-(l:Legislator)
where l.currentParty = 'Republican'
WITH s, count(l) as RepublicanCount
Match(s:State)←[rr:REPRESENTS]-(ll:Legislator)
where ll.currentParty = 'Democrat'
With s, RepublicanCount, count(ll) as DemocratCount
Match(s:State)←[rrr:REPRESENTS]-(lll:Legislator)
where DemocratCount > RepublicanCount
return DISTINCT s, RepublicanCount, DemocratCount
```

```
4 Match(s:State)←[rr:REPRESENTS]-(ll:Legislator)
5 where ll.currentParty = 'Democrat'
6 With s, RepublicanCount, count(ll) as DemocratCount
7 Match(s:State)←[rrr:REPRESENTS]-(lll:Legislator)
8 where DemocratCount > RepublicanCount
9 return DISTINCT s, RepublicanCount, DemocratCount
```

Match(s:State)←[r:REPRESENTS]-(l:Legislator) where l.currentParty = 'Republican' WITH s, count(l) as Repub...			↓
s	RepublicanCount	DemocratCount	
<pre>{   "code": "WA" }</pre>	4	7	
<pre>{   "code": "MD" }</pre>	1	7	
<pre>{   "code": "CA" }</pre>	14	34	

5. With the help of the graph, visualize all representatives of the state of Ohio, elected in both bodies of the congress, showing also their affiliation to the party.

```
MATCH((l:Legislator)-[:REPRESENTS]->(s:State {code: 'OH'}))
MATCH((l:Legislator)-[:ELECTED_TO]->(b:Body))
MATCH((l:Legislator)-[:IS_MEMBER_OF]->(p:Party))
return l, p, b
```



6. Which federal state (or federal states, if there is more than one) has the members of the congress in the maximum number of different committees?

```
match(s:State)←[:REPRESENTS]-(l:Legislator)-[:SERVES_ON]→(c:Committee)
WITH s, COUNT(DISTINCT c) as COMITEECOUNT
WITH MAX(COMITEECOUNT) as MAXCOUNT
match(ss:State)←[:REPRESENTS]-(ll:Legislator)-[:SERVES_ON]→(cc:Committee)
WITH ss, COUNT(DISTINCT cc) as finalcount, MAXCOUNT
WHERE finalcount = MAXCOUNT
return ss, finalcount
```

```
1 match(s:State)←[:REPRESENTS]-(l:Legislator)-[:SERVES_ON]→(c:Committee)
2 WITH s, COUNT(DISTINCT c) as COMITEECOUNT
3 WITH MAX(COMITEECOUNT) as MAXCOUNT
4 match(ss:State)←[:REPRESENTS]-(ll:Legislator)-[:SERVES_ON]→(cc:Committee)
5 WITH ss, COUNT(DISTINCT cc) as finalcount, MAXCOUNT
6 WHERE finalcount = MAXCOUNT
7 return ss, finalcount
```

ss	finalcount
<div><pre>{   "code": "NY" }</pre></div>	29

7. Print out all the federal states that have more members in the congress than the average congress members per state, and are also mostly democratic.

```

Match(st:State)<-[re:REPRESENTS]-(le:Legislator)
WITH count(DISTINCT st) as stateCount, count(DISTINCT le) as legislatorCount
WITH (legislatorCount/stateCount) as average
Match(s:State)<-[r:REPRESENTS]-(l:Legislator)
where l.currentParty = 'Republican'
WITH s, count(l) as RepublicanCount, average
Match(s:State)<-[rr:REPRESENTS]-(ll:Legislator)
where ll.currentParty = 'Democrat'
With s, RepublicanCount, count(ll) as DemocratCount, average
Match(s:State)<-[rrr:REPRESENTS]-(lll:Legislator)
where DemocratCount > RepublicanCount
and (DemocratCount + RepublicanCount) > average
return DISTINCT s, RepublicanCount, DemocratCount, average

```

s	RepublicanCount	DemocratCount	average
<pre>{   "code": "WA" }</pre>	4	7	8
<pre>{   "code": "CA" }</pre>	14	34	8
<pre>{   "code": "MN" }</pre>	2	7	8