## **Algorithm Community Detection-Modularity Optimization**

- Setting parameters

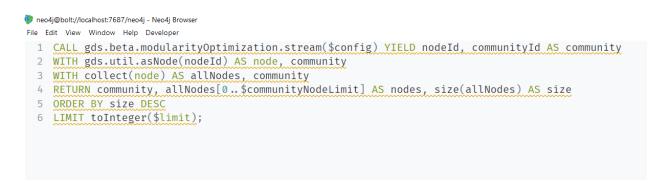
```
👺 neo4j@bolt://localhost:7687/neo4j - Neo4j Browser
File Edit View Window Help Developer
1 :param limit\Rightarrow( 100);
 2 :param config⇒({
 nodeProjection: '*',
relationshipProjection: {
 5 relType: {
 6 type: 'brand',
    orientation: 'UNDIRECTED',
 7
 8 properties: {}
 9
10 },
11 relationshipWeightProperty: null,
12 seedProperty: '',
13 maxIterations: 10,
14 tolerance: 0.0001
15 });
16 :param communityNodeLimit⇒( 100);
```

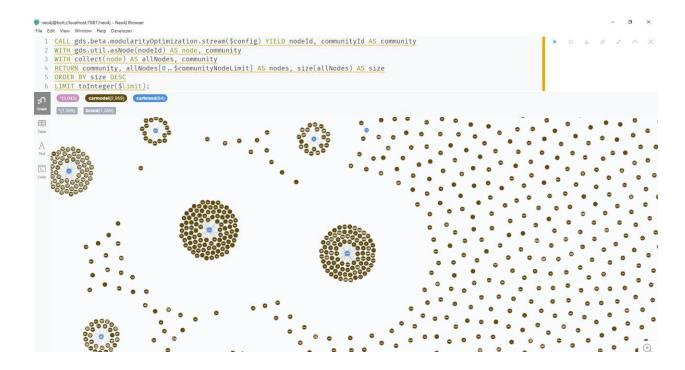
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1 :param limit⇒( 100);

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2 \:param config⇒({
3
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   relationshipProjection: {
   relType: {
type: 'brand',
orientation: 'UNDIRECTED',
8
   properties: {}
9
10
   relationshipWeightProperty: null,
11
12 | seedProperty: '',
     :param limit⇒( 100)$ :param limit⇒( 100)
     :param config \Rightarrow ({ nodeProjection: '*', relationshipProjection: { relType: { type: 'brand', orientati...}
      SUCCESS
       Command was successfully executed
     :param communityNodeLimit⇒( 100)$ :param communityNodeLimit⇒( 100)
```

## - Anonymous Graph





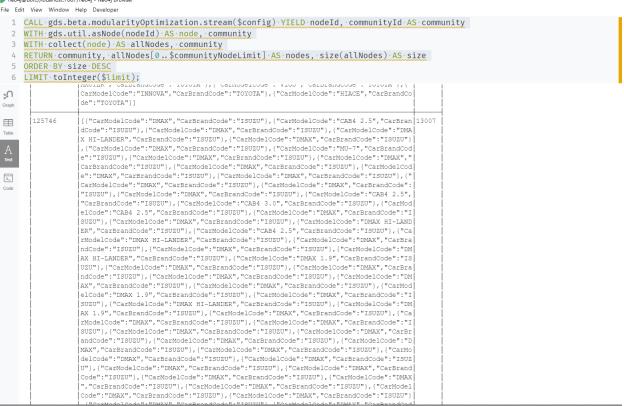
## neo4i@bolt://localhost:7687/neo4i - Neo4i Browser File Edit View Window Help Develop 1 CALL gds.beta.modularityOptimization.stream(\$config) YIELD nodeId, communityId AS community WITH gds.util.asNode(nodeId) AS node, community WITH collect(node) AS allNodes, community $\underline{\textbf{RETURN}}. community, \\ all Nodes \\ [0...\\ \$ community \\ Node \\ Limit \\ ]. \\ AS \\ nodes, \\ size \\ (all Nodes). \\ AS \\ size \\ (all Nodes). \\ (all Nodes). \\ AS \\ size \\ (all Nodes). \\ (all$ ORDER BY size DESC 6 LIMIT toInteger(\$limit); 2 "community" | "nodes" "size' 125744 [{"CarModelCode":"VIGO","CarBrandCode":"TOYOTA"}, ("CarModelCode":"PRIUS", "CarBrandc | 15592 ode":"TOYOTA"), {"CarModelCode":"VIOS","CarBrandCode":"TOYOTA"), {"CarModelCode":"REV $\blacksquare$ O", "CarBrandCode": "TOYOTA"), { "CarModelCode": "COMMUTER", "CarBrandCode": "TOYOTA"}, { "C arModelCode":"VIOS","CarBrandCode":"TOYOTA"},{"CarModelCode":"COROLLA","CarBrandCod arModelCode":"VIOS", "CarBrandcode": "TOYOTA"), {"CarModelCode": "COROLLA", "CarBrandcode": "TOYOTA"), ("CarModelCode": "ALTIS", "CarBrandcode": "TOYOTA"), ("CarModelCode": "ALTIS", "CarBrandcode": "TOYOTA"), {"CarModelCode": "FORT UNBR", "CarBrandcode": "TOYOTA"), {"CarModelCode": "TOYOTA"), {"CarModelCode": "TOYOTA"}, {"CarModelCode": "TOYOTA"}, {"CarModelCode": "TOYOTA"}, {"CarModelCode": "COROLLAI. 6GII/AT", "CarBrandcode": "TOYOTA"), ("CarModelCode": "VIGO", "CarBrandcode": "TOYOTA"), ("CarModelCode": "COROLLAI. 6GII/AT", "CarModelCode": "COROLLAI. 6GII/AT", "CarModelCode": "TOYOTA"), ("CarModelCode": "TOY A"), ("CarModelCode": "TOYOTA"), ("CarModelCode": "CarModelCode": "TOYOTA"), ("CarModelCode": "CarModelCode": "Car {"CarModelCode":"REVO DOUBLE CAB","CarBrandCode":"TOYOTA"},{"CarModelCode":"HIACE" "CarBrandCode":"TOYOTA"},{"CarModelCode":"HILUX Diesel","CarBrandCode":"TOYOTA"},{ CarModelCode":"YARIS","CarBrandCode":"TOYOTA"},{"CarModelCode":"VIGO","CarBrandCode ":"TOYOTA"],{"CarModelCode":"VIOS","CarBrandCode":"TOYOTA"],{"CarModelCode":"VIOS",

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| community | nodes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | size  |
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