CMPE -272 Database Team based Assignment

Created an IBM Bluemix Graph Service named "IBM Graph-9b 272 assignment" with Graph "g".
 Create service credentials and use them to generate a GDS token using curl command on Cygwin.

€ ~

Karan@LAPTOP-3B383AAA ~

\$ curl -X GET -u db644938-c54f-4014-85cb-636eca3e919e 'https://ibmgraph-alpha.ng.bluemix.net/26c4954a-5502-4bc7-bda2-326dccf31df2/_session'
Enter host password for user 'db644938-c54f-4014-85cb-636eca3e919e':

{"gds-token":"ZGI2NDQ5MzgtYzU0Zi00MDE0LTg1Y2ItNjM2ZWNhM2U5MT110jE00DgxNjk4NzY3NDE6MStqRzgwcmhhR25zcTRkQ3ZPYit2W1hIVnRrWkFm51hpR2Zobm1xN2ErUTO="}
Karan@LAPTOP-3BJ8JAAA ~

Attached schema and gremlin JSON file

i)



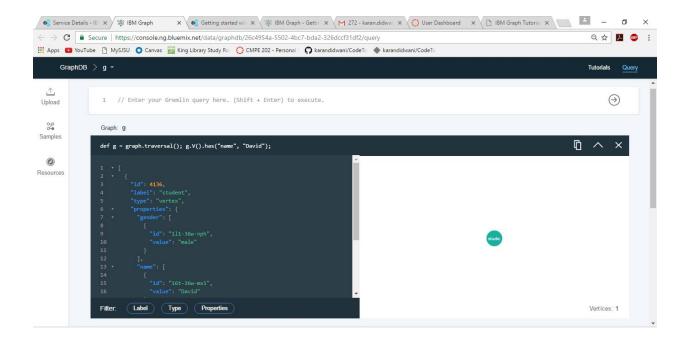
ii)



2) Then create graph database schema and input data

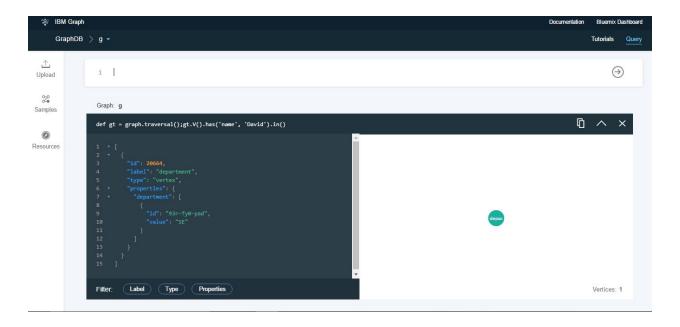
KaranBLAPTOP-3B3BJAAA ~ \$ curl - X POST -H "Authorization: gds-token ZGIZNDQSMzgtYzUQZiOMDEOLTg1Y2ItNjM2ZWNMM2USMTll0jEODDgxNjk4NzY3NDE6MStqRzgwcmhhR25zcTRkQ3ZPYitZwlhIVnRrwkFm5lhpR2ZobmixN2ErUTO=" -H 'Content-Type: application/json' https://ibmgraph-alpha.ng.bluemix.net/26c4954a-5502-4bc/-bda2-326dccf31df2/g/schema -d @C:/Users/Karan/Downloads/272/schema.json {"requestId":"d956532-647d-4551-84fb-74ddfee866f5", "status":{"massage":", "code':200, "attributes":{"}, "result":{"data":{"propertyKeys":[{"name":"name", "dataType":"String", "cardinality":"SINGLE"], "name":"gender", "dataType":"String", "cardinality":"SINGLE"], "name":"gender", "dataType":"String", "cardinality":"SINGLET], "name":"student"), "iname":"student"), "iname":"gender", "cardinality":"SINGLET], "name":"student"), "iname":"prorides.major.to", "iname":"department", "geletabels":[{"name":"is_SINGLET}, "name":"vByMane", "composite":true, "unique":true, "propertyKeys":["name":"vByMane", "composite":true, "unique":true, "propertyKeys":["name":"vByMane", "composite":true, "unique":true, "propertyKeys":["name":"vByMane", "composite":true, "unique":true, "propertyKeys":["name":"vByMane", "composite":true, "unique":false, "propertyKeys":["gender"], "requiresReindex":false, "type":"vertex"}, "name":"vByGender", "composite":true, "unique":false, "propertyKeys":["age"], "requiresReindex":false, "type":"vertex"}], "mame":"vByAge", "composite":true, "unique":false, "propertyKeys":["age"], "requiresReindex":false, "type":"vertex"}], "mame":"vByAge", "composite":true, "unique":false, "propertyKeys":["age"], "requiresReindex":false, "type":"vertex"}], "mame":"vByAge", "composite":true, "unique":false, "propertyKeys":["age"], "requiresReindex":false, "type":"vertex"}], "aranBLAPTOP-3833AAA ~ \$ curl - X POST - H "Authorization: gds-token ZGIZNDQSMzgtYzUQZiOMDEOLTg1YZItNjMZZWNMMZUSMTll0jEOODgxNjk4NzY3NDE6MStqRzgwcmhhR25zcTRkQ3ZPYitZwlhIVnRrwkFmSlhpRzZobmixNzErUTO=" - H 'Content-Type: application/json' https://ibmgraph-alpha.ng.bluemix.net/26c4954a-5502-4bc/-bda2-32

3) Run Basic queries to generate graphs

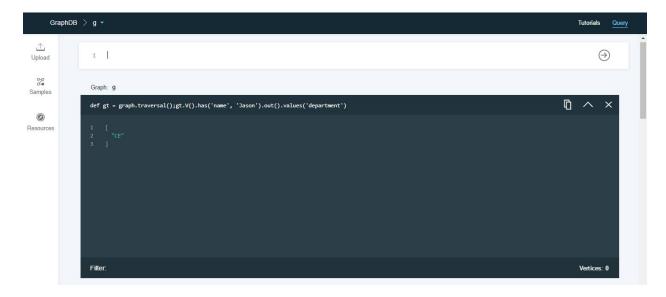


4) Run transform queries

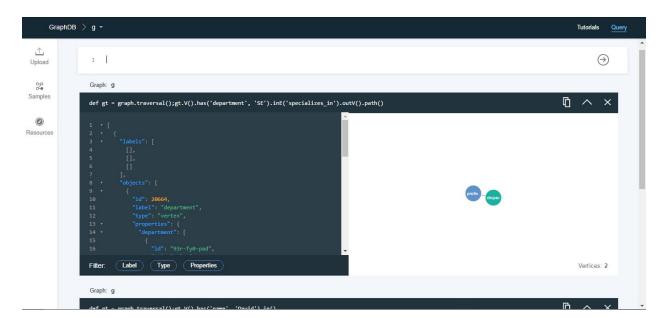
i) In() query



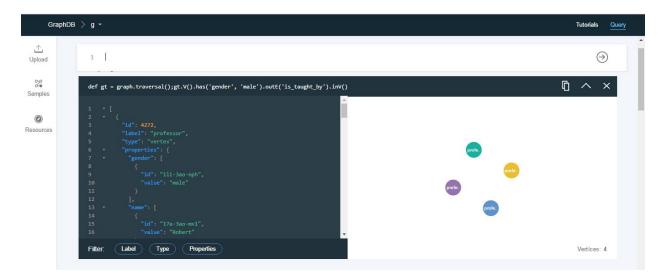
II) Out() query



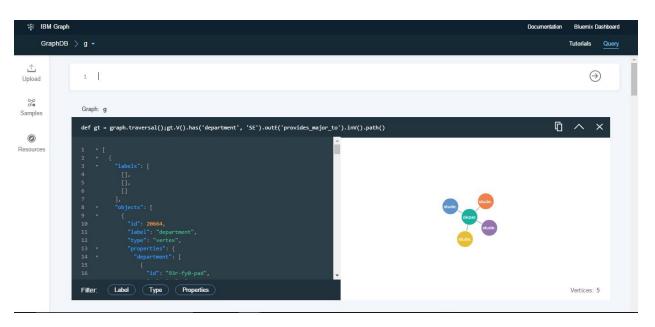
III) inE and outV query



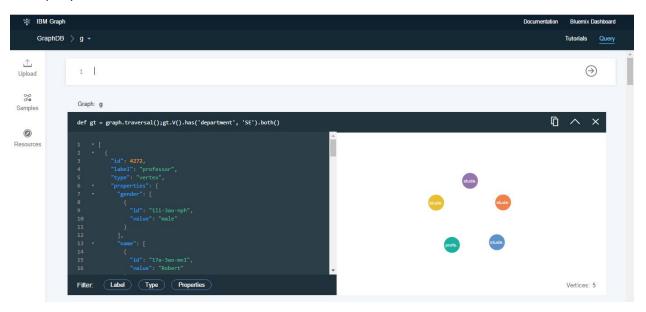
IV) outE and inV query



V) path query



VI) both query



VII) bothE and bothV query

