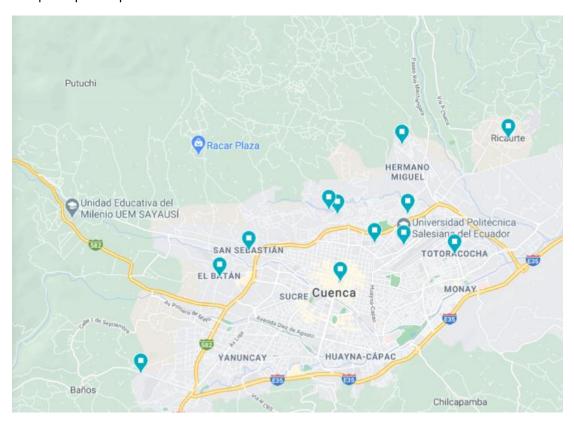
UNIVERSIDAD POLITECNICA SALESIANA

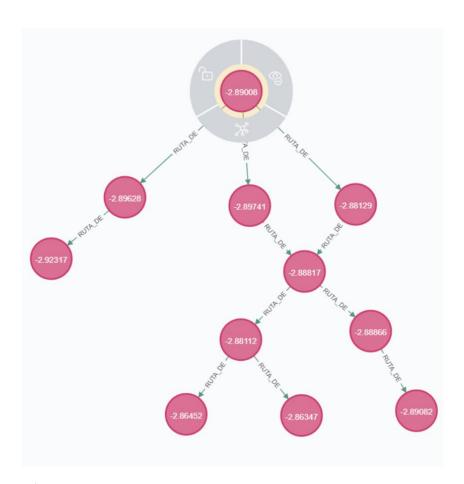
Nombre esteban Sibri

METODOS DE BUSQUEDA SIN RAZONAMIENTO

Búsqueda por Amplitud



Árbol de Nodos



Búsqueda por anchura

```
04j$ CALL gds.graph.create('myGraph', 'Lugares', 'RUTA_DE', {
     relationshipProperties: 'costo' })
j$ CALL gds.graph.create('myGraph', 'Lugares', 'RUTA... ☆
      nodeProjection
                        relationshipProjection
                                            graphName
                                                      nodeCount
                                            "myGraph"
                                                      11
                                                                1'
          "Lugares": {
                            "RUTA_DE": {
        "properties":
                          "orientation":
                          "NATURAL",
                          "aggregation":
           },
                          "DEFAULT",
        "label":
                          "type":
        "Lugares"
                          "RUTA_DE",
         }
                          "properties": {
                          "costo": {
                          "property":
                          "costo",
                          "aggregation":
                          "DEFAULT",
                          "defaultValue":
MATCH (San_Sebastian:Lugares{nombre:'San_Sebastian'}),
(Totoracocha:Lugares{nombre:'Totoracocha'})
WITH id(San_Sebastian) AS startNode, [id(Totoracocha)] AS
targetNodes
CALL gds.alpha.bfs.stream('myGraph', {startNode: startNode,
targetNodes: targetNodes})
YIELD path
UNWIND [ n in nodes(path) | n.nombre ] AS tags
```

RETURN tags

```
tags
       "San Sebastian"
       "Bellavista"
       "Parque_Calderon"
       "El_Batan"
       "Loja_Argelia"
       "Baños"
       Búsqueda por coste
MATCH (source:Lugares {nombre: 'San_Sebastian'}), (target:Lugares
{nombre: 'Totoracocha'})
CALL gds.beta.shortestPath.yens.stream('myGraphs', {
    sourceNode: id(source),
    targetNode: id(target),
    k: 3,
    relationshipWeightProperty: 'costo'
})
YIELD index, sourceNode, targetNode, totalCost, nodeIds, costs
RETURN
    index,
    gds.util.asNode(sourceNode).nombre AS sourceNodeName,
     1
           "San_Sebastian"
                                        6.10985
                                                 ["San_Sebastian",
                                                                      [0.0, 2.57,
                          "Totoracocha"
                                                  "Parque Calderon",
                                                                      3.9499999999999997,
                                                 "Loja_Argelia", "Misicata",
                                                                      4.71985, 6.10985]
                                                 "Totoracocha"]
```

Siendo la ruta

San sebastian, Parque Calderon, loja Argelia, Misicata, Totoracocha

Búsqueda por profundidad

```
MATCH (San_Sebastian:Lugares{nombre:'San_Sebastian'}),
(Totoracocha:Lugares{nombre:'Totoracocha'})
WITH id(San_Sebastian) AS startNode, [id(Totoracocha)] AS
targetNodes
CALL gds.alpha.dfs.stream('myGraph', {startNode: startNode,
targetNodes: targetNodes})
YIELD path
UNWIND [ n in nodes(path) | n.nombre ] AS tags
RETURN tags
        tags
1
         "San_Sebastian"
2
        "El_Batan"
3
        "Baños"
4
        "Parque_Calderon"
5
        "Loja_Argelia"
6
        "Misicata"
```