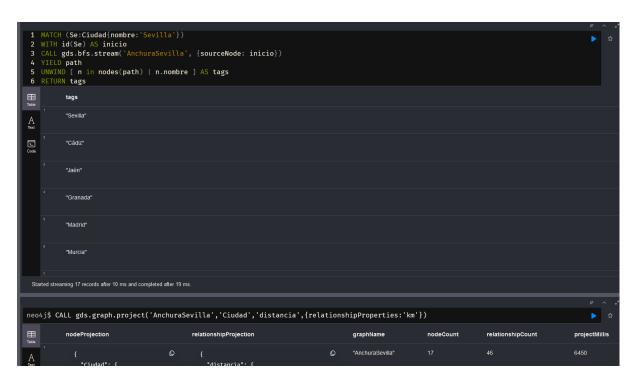
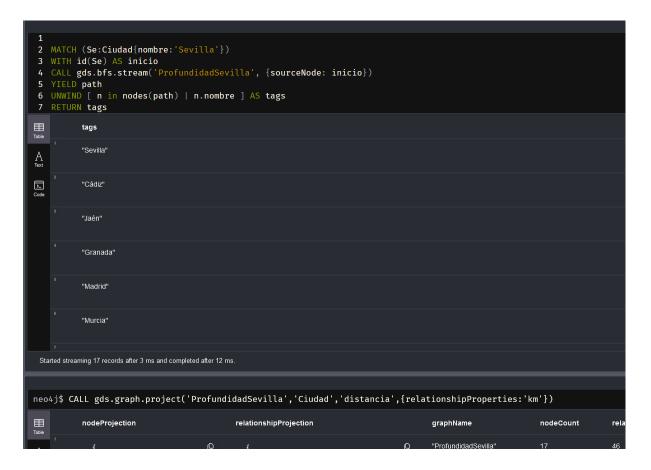
- Recorrido BFS desde Sevilla



- Recorrido DFS desde Sevilla



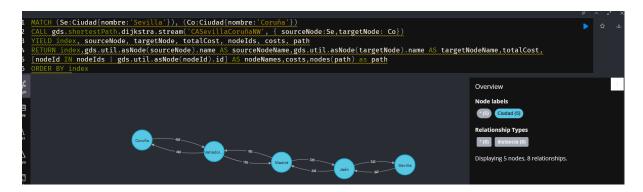
- Recorrido BFS especificando nodos destino Coruña

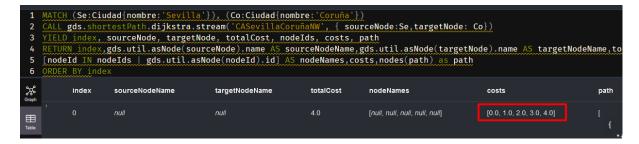
```
1 MATCH (Se:Ciudad{nombre:'Sevilla'}),(Co:Ciudad{nombre:'Coruña'})
2 WITH id(Se) AS inicio , id(Co) AS fin
3 CALL gds.bfs.stream('SevillaCoruña', {sourceNode:inicio ,targetNodes:fin })
4 YIELD path
5 UNWIND [ n in nodes(path) | n.nombre ] AS tags
6 RETURN tags
Table
            tags
            "Sevilla"
A
W
            "Cádiz"
<u>></u>
            "Jaén"
            "Granada"
            "Madrid"
            "Murcia"
 Started streaming 15 records after 11 ms and completed after 25 ms
neo4j$ CALL gds.graph.project('SevillaCoruña','Ciudad','distancia',{relationshipProperties:'km'})
```

- Recorrido DFS especificando nodos destino Coruña

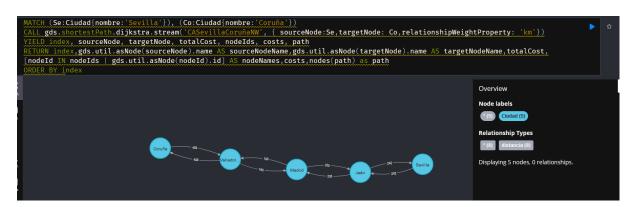
```
1 MATCH (Se:Ciudad{nombre:'Sevilla'}),(Co:Ciudad{nombre:'Coruña'})
2 WITH id(Se) AS inicio , id(Co) AS fin
3 CALL gds.dfs.stream('SevillaCoruña', {sourceNode:inicio ,targetNodes:fin })
4 YIELD path
5 UNWIND [ n in nodes(path) | n.nombre ] AS tags
6 RETURN tags
\blacksquare
            tags
            "Sevilla"
A
Ŵ
            "Granada"
∑_
Code
            "Murcia"
            "Valencia"
            "Barcelona"
            "Zaragoza"
 Started streaming 11 records after 8 ms and completed after 27 ms.
```

- Camino mínimo (Dijkstra) entre Sevilla y Coruña (no pesado)





- Camino mínimo (Dijkstra) entre Sevilla y Coruña (pesado)





(Sobre el grafo importado a partir de archivos CSV. Apartado 4.2.2. del pdf)

```
WITH "https://github.com/neo4j-graph-analytics/book/raw/master/data/transport-nodes.csv"

AS uri

LOAD CSV WITH HEADERS FROM uri AS row

MERGE (place:Place {id:row.id})

SET place.latitude = toFloat(row.latitude),
place.longitude = toFloat(row.latitude),
place.population = toInteger[row.population]

Added 12 labels, created 12 nodes, set 48 properties, completed after 2830 ms.
```

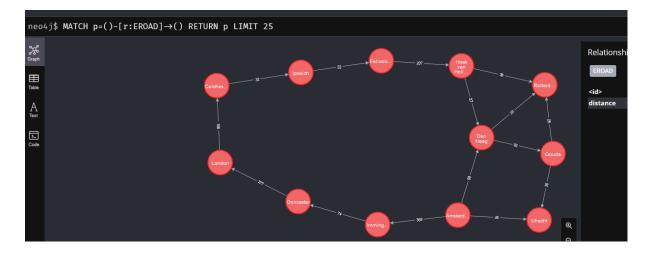
```
WITH "https://github.com/neo4j-graph-analytics/book/raw/master/data/transport-relationships.csv" AS uri
LOAD CSV WITH HEADERS FROM uri AS row
AMATCH (origin:Place {id: row.src})

MATCH (destination:Place {id: row.dst})

MATCH (destination:Place {id: row.dst})

MERCE (origin)-[:EROAD {distance: tolnteger(row.cost)}]→{destination}

Set 15 properties, created 15 relationships, completed after 435 ms.
```



- Camino mínimo (A*) entre Amsterdam y Londres

