**NEO4J-Code**

**Création d’un premier graphe à partir des groupes terroristes de la base TIOS et des informations sur les attaques de la base GTD**

LOAD CSV FROM "file:///Liste\_pays3.csv" AS row CREATE (n:Pays1) set n.Name = row.country\_txt return n

LOAD CSV WITH HEADERS FROM "file:///LiensGP3.csv" AS row MATCH (p:Pays1), (g:Groupe1) WHERE p.Name =row.Pays AND g.Name=row.Groupe CREATE (g)-[details:BASE]->(p) SET details=row

LOAD CSV FROM "file:///Liste\_a.csv" AS row CREATE (n:Attack) set n.Id = row[0] return n

LOAD CSV WITH HEADERS FROM "file:///LAG.csv" AS row MATCH (a:Attack), (g:Group) WHERE a.Id =row.eventId AND g.Name=row.gname CREATE (g)-[details:Claimed]->(a) SET details=row

MATCH at1= (g)-[r1:Claimed]->(a1), at2=(g)-[r2:Claimed]->(a2), loc1=(a1)-[r3:Location]->(c1), loc2=(a2)-[r4:Location]->(c2) return c1, c2

MATCH (c1:Country), (c2:Country),(g:Group) , (a1:Attack1), (a2:Attack1) WHERE c1<>c2 AND (g)-[r1:Claimed]->(a1) AND (a1)-[r2:Location]->(c1) AND (g)-[r3:Claimed]->(a2) AND (a2)-[r4:Location]->(c2) return c1, c2

MATCH (g:Group), (c:Country),(g)-[r:Claimed]->(a1), (a1)-[r2:Location]->(c) CREATE (g)-[f:attacked]->(c) return c, g

MATCH (c1:Country), (c2:Country), (g)-[r:attacked]->(c1), (g)-[attacked]->(c2) WHERE c1<>c2 CREATE (c1)-[k:LinkedCountry]->(c2) return c1, c2

MATCH (c1:Country), (c2:Country), (g)-[r:attacked]->(c1), (g)-[attacked]->(c2) WHERE c1<>c2 CREATE (c1)-[k:LinkedCountry]->(c2) return c1, c2

LOAD CSV WITH HEADERS FROM "file:///ZoneGeoClean.csv" AS row MATCH (c:Country), (z:Zone) WHERE c.Name =row.country\_txt AND z.Name=row.region\_txt CREATE (c)-[b:ZoneGeo]->(z) SET b=row

MATCH (z1:Zone), (z2:Zone),(c1)-[r:ZoneGeo]->(z1), (c2)-[r2:ZoneGeo]->(z2), (c1)-[r3 :LinkedCountry]->(c2) CREATE (z1)-[f:LinkedZone]->(z2) return c, g

**Création d’un second graphe à partir des 50 groupes terroristes les plus létaux de la base GTD**

LOAD CSV WITH HEADERS FROM "file:///gogoliste.csv" AS row CREATE (n:Group) set n.Name = row.gname return n

LOAD CSV WITH HEADERS FROM "file:///NouvelleGTDB2.csv" AS row CREATE (n:Attack) set n.Id = row.eventid return n

LOAD CSV WITH HEADERS FROM "file:///NouvelleGTDB2.csv" AS row MATCH (g:Group), (a:Attack) WHERE g.Name =row.gname AND a.Id=row.eventid CREATE (g)-[r:Claimed]->(a) SET r=row

LOAD CSV WITH HEADERS FROM "file:///gogoliens.csv" AS row MATCH (g:Group), (g2:Group) WHERE g.Name =row.group1 AND g2.Name=row.group2 CREATE (g)-[r:Proximity]->(g2) SET r.distance=row.weight

LOAD CSV WITH HEADERS FROM "file:///listep.csv" AS row CREATE (n:Country) set n.Name = row.country return n

LOAD CSV WITH HEADERS FROM "file:///NouvelleGTDB2.csv" AS row MATCH (a:Attack), (c:Country) WHERE a.Id =row.eventid AND c.Name=row.country\_txt CREATE (a)-[r:Location]->(c)

MATCH (g:Group), (c:Country),(g)-[r:Claimed]->(a1), (a1)-[r2:Location]->(c) CREATE (g)-[f:attacked]->(c) return c, g

MATCH (g:Group), (c:Country), (g)-[r:attacked]->(c) RETURN count(r) LIMIT 30

MATCH (c1:Country), (c2:Country), (g)-[r:attacked]->(c1), (g)-[j:attacked]->(c2) WHERE c1<>c2 CREATE UNIQUE (c1)-[k:LinkedCountry]->(c2) return c1, c2

MATCH (g:Group), (c:Country), (g)-[f:Claimed]->(a1), (a1)-[k:Location]->(c) WHERE (g)-[:attacked]->(c) return count(a1), c, g

LOAD CSV WITH HEADERS FROM "file:///ZoneGeoListe.csv" AS row CREATE (n:Zone) SET n.name=row.Zone return n

MATCH (g:Group), (z:Zone), (g)-[r:attacked]->(c), (c)-[j:ZoneGeo]->(z) CREATE (g)-[k:AttackedZone]->(z) return g, z

MATCH (g:Group), (z:Zone), (g)-[r:attacked]->(c), (c)-[j:ZoneGeo]->(z) MERGE (g)-[k:AttackedZoneUnique]->(z) return g, z

MATCH (z1:Zone), (z2:Zone), (g)-[r:AttackedZone]->(z1), (g)-[j:AttackedZone]->(z2) CREATE (z1)-[k:LinkedZone]->(z2) return g,z1, z2