# NBD Assignment 5 – Neo4J

The assignment should be submitted as a text file with numbered queries + result files in text and image format (e.g. SVG and JSON – available export options change quite often) named resultX.svg and resultX.json (X – query number, extensions depend on available file formats, export image files where relevant). Export result files using web interface.

Run :play movie-graph command. Analyze and run sample queries.

**Build the following queries**

1. All movies

**Match(m:Movie) return m**

1. All movies in which Hugo Weaving played a role

**Match(h{name:"Hugo Weaving"}) return h**

1. Directors of movies in which Hugo Weaving played a role

**MATCH (h:Person {name:"Hugo Weaving"})-[:ACTED\_IN]->(m)<-[:DIRECTED]-(d) RETURN DISTINCT d**

1. All actors playing in the same movies as Hugo Weaving

**MATCH (h:Person {name:"Hugo Weaving"})-[:ACTED\_IN]->(m)<-[:ACTED\_IN]-(a) RETURN DISTINCT a**

1. All movies with actors starring in Matrix

**MATCH (m:Movie {title: "The Matrix"})<-[:ACTED\_IN]-(a)-[:ACTED\_IN]-> (mm) RETURN DISTINCT mm**

1. List of actors (actor = person playing in at least one movie) with amount of movies they played roles in

**MATCH (p:Person)-[:ACTED\_IN]->(m) with p,count(\*) as amount WHERE amount>1 RETURN p,amount**

1. List of people who both wrote the screenplay and directed a movie, plus titles of such movies (screenwriter===director + movie title)

**MATCH(p)-[:WROTE]->(m)<-[:DIRECTED]-(p) RETURN p,m.title**

1. List of movies in which both Hugo Weaving and Keanu Reeves played a role

**MATCH (h {name:"Hugo Weaving"})-[:ACTED\_IN]->(m)<-[:ACTED\_IN]-( k {name:"Keanu Reeves"}) RETURN m**

1. Query or set of queries that will add Captain America:The First Avenger together with adding information about director, screenwriters and actors playing main roles. Use IMDB short info version <http://www.imdb.com/title/tt0458339/> .

**CREATE (CA:Movie {title:'Captain America:The First Avenger', released:2011, tagline:'May the force be with captain'})**

**CREATE (ChrisE:Person {name:'Chris Evans', born:1981})**

**CREATE (HayleyA:Person {name:'Hayley Atwell', born:1982})**

**CREATE (SebastianS:Person {name:'Sebastian Stan', born: 1982})**

**CREATE (TommyLJ:Person {name:'Tommy Lee Jones', born:1946})**

**CREATE (Hugo:Person {name:'Hugo Weaving', born:1960})**

**CREATE (DominicC:Person {name:'Dominic Cooper', born:1978})**

**CREATE (RichardA:Person {name:'Richard Armitage', born:1971})**

**CREATE (StanleyT:Person {name:'Stanley Tucci', born:1960})**

**CREATE (SamuelLJ:Person {name:'Samuel L. Jackson', born:1948})**

**CREATE (JJ:Person {name:'Joe Johnston', born:1950})**

**CREATE (ChristopherM:Person {name:'Christopher Markus', born:1970})**

**CREATE (StephenM:Person {name:'Stephen McFeely', born:1969})**

**CREATE (JS:Person {name:'Joe Simon', born:1913})**

**CREATE (JK:Person {name:'Jack Kirby', born:1917})**

**CREATE**

**(ChrisE)-[:ACTED\_IN {roles:['Captain America']}]->(CA),**

**(HayleyA)-[:ACTED\_IN {roles:['Peggy Carter']}]->(CA),**

**(SebastianS)-[:ACTED\_IN {roles:['James Buchanan \'Bucky\' Barnes']}]->(CA),**

**(TommyLJ)-[:ACTED\_IN {roles:['Colonel Chester Phillips']}]->(CA),**

**(Hugo)-[:ACTED\_IN {roles:['Red Skull']}]->(CA),**

**(DominicC)-[:ACTED\_IN {roles:['Howard Stark']}]->(CA),**

**(RichardA)-[:ACTED\_IN {roles:['Heinz Kruger']}]->(CA),**

**(StanleyT)-[:ACTED\_IN {roles:['Dr. Abraham Erskine']}]->(CA),**

**(SamuelLJ)-[:ACTED\_IN {roles:['Nick Fury']}]->(CA),**

**(JJ)-[:DIRECTED]->(CA),**

**(ChristopherM)-[:WROTE]->(CA),**

**(StephenM)-[:WROTE]->(CA),**

**(JS)-[:WROTE]->(CA),**

**(JK)-[:WROTE]->(CA)**

1. Query that shows all information added in Query 9 (movie, actors, director, screenwriter)

**MATCH (m:Movie {title:"Captain America:The First Avenger"})-[\*1..4]-(all)**

**RETURN DISTINCT all,m**