PantherID: 002571047 Bhavin Patel

Unstructured Data Management

CIS8045: Assignment 02 (Neo4j)

Database: recommendations

Username/Password: recommendations

- I. Based on the movie database you created, write Cypher commands to complete the following queries.
- 1. Find all movies that Sylvester Stallone acted in; MATCH (a:Person)-[:ACTED_IN]->(m:Movie) WHERE a.name = 'Sylvester Stallone' RETURN m.title as Movie
- 2. Find all artists who are two steps away from Sylvester Stallone; MATCH (p1:Actor)-[:ACTED_IN*2]-(p2:Actor) WHERE p1.name = 'Sylvester Stallone' RETURN p2.name as Actors
- 3. Find a path between the movie Rocky II and the movie The Karate Kid II; MATCH p = (:Movie{title:'Rocky II'})-[:IN_GENRE*0..2]- (:Movie{title:'Karate Kid, Part II, The'}) return p;
- 4. Find how many "DIRECTED" relationships are represented in the movie database. Your result should present the total number of "DIRECTED" relationships; MATCH (a:Person)-[:DIRECTED]->(m:Movie)

RETURN count(a.name) as Directed

5. Find who played in which movies with a role named "Daniel LaRusso"; MATCH (a:Person)-[r:ACTED_IN]->(m:Movie) WHERE r.role = 'Daniel LaRusso' RETURN m.title as Movie, a.name as Actor

6. Find all artists who are associated with (either ACTED_IN or DIRECTED) the Rocky series of movies;

MATCH (a:Actor)-[]-(m:Movie)

WHERE (m.title STARTS WITH 'Rocky') AND (((a)-[:DIRECTED]->(m)) OR ((a)-[:ACTED_IN]->(m)))

RETURN DISTINCT a.name as Artist

7. Find the total number of movies directed by each of the directors in the database. Your result should present the total numbers;

MATCH (d:Director)-[r:DIRECTED]->(m:Movie)

RETURN d.name, count (distinct r) as count

PantherID: 002571047 Bhavin Patel

8. Find all the movies released after year 1990, but only return the most recent two of them;
MATCH (m)
WHERE m:Movie and m.released> "1990"

with m order by m.released desc RETURN m.title as recentMovies limit 2

9. Find the director John G. Avildsen and the total number of movies he has directed; MATCH (d:Director{name:'John G. Avildsen'})-[r:DIRECTED]->(m:Movie) RETURN count(r) as count

10. Find out if Sylvester Stallone directed "The Expendables II" or not. If not, return NULL. MATCH p=(d:Director{name:'Sylvester Stallone'})-[:DIRECTED]->(m:Movie{title:"Expendables 2, The"})
RETURN
CASE
WHEN p is not null THEN "Yes"
ELSE NULL

END