5th assignment Neo4j Graph Databases (Neo4j)

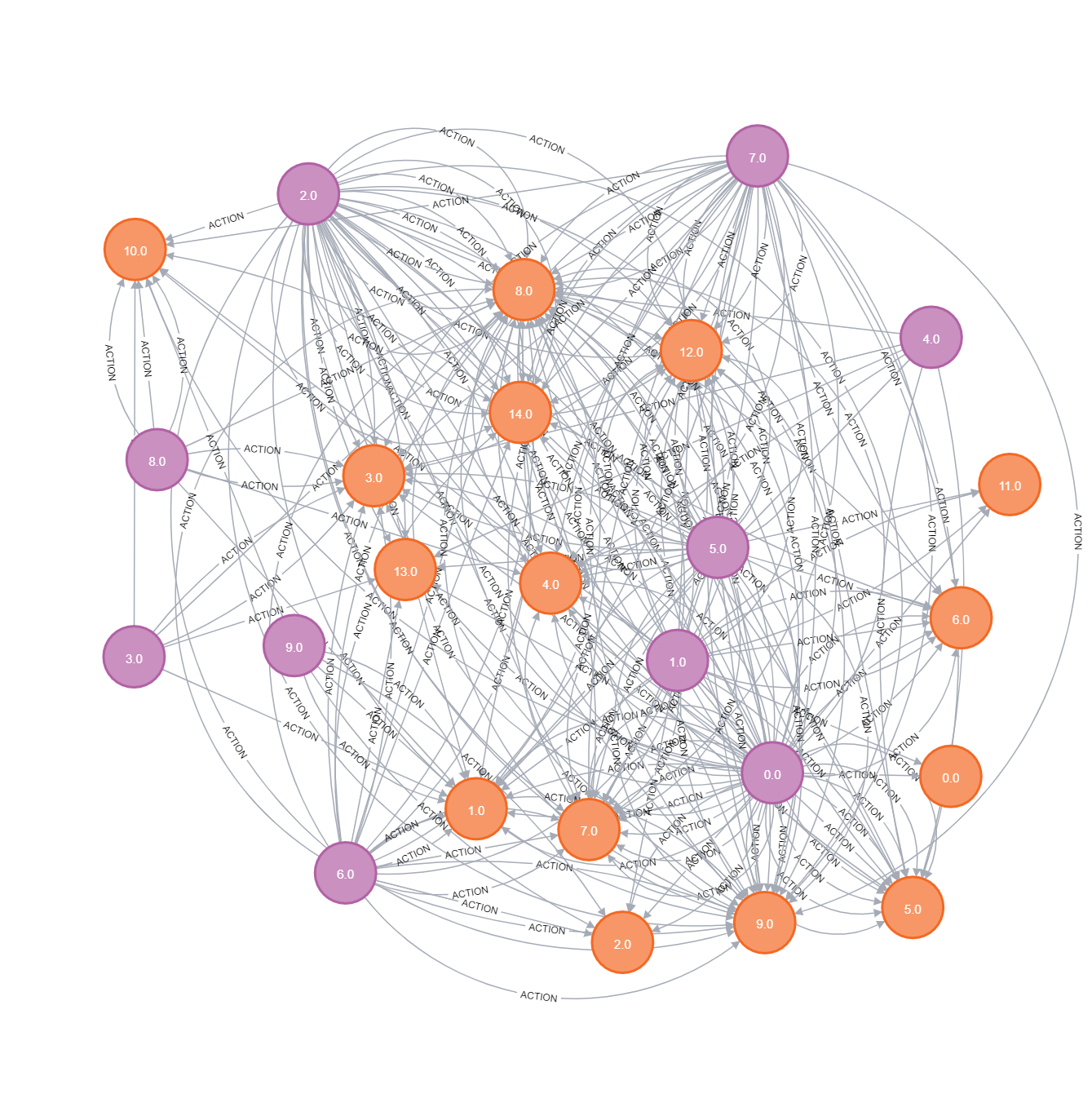
Team Members:

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1 ) Show a small portion of your graph database (screenshot)

MATCH (n) RETURN n LIMIT 25



2) Count all users, count all targets, count all actions

MATCH(u:User) RETURN COUNT (u)

A screenshot of a computer

Description automatically generated with medium confidence

MATCH(t:Target) return count (t)

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MATCH (u:User)-[a:ACTION]->(t:Target) RETURN COUNT(a)

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3) Show all actions (actionID) and targets (targetID) of a specific user (choose one)

 MATCH (u:User {user\_id: 3})-[a:ACTION]->(t:Target) RETURN a.action\_id, t.target\_id

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4) For each user, count his/her actions

MATCH (u:User)-[a:ACTION]->(t:Target) RETURN u.user\_id, COUNT (a)

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5) For each target, count how many users have done this target

MATCH (u:User)-[a:ACTION]->(t:Target) RETURN t.target\_id, COUNT(DISTINCT u)

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6) Count the average actions per user

MATCH (u:User)-[a:ACTION]->(t:Target)

WITH COUNT(a) AS totalActions, COUNT (DISTINCT u) AS totalUsers

RETURN totalActions / totalUsers AS averageActionsPerUser

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7) Show the userID and the targetID, if the action has positive Feature2

MATCH (u:User)-[a:ACTION]->(t:Target) WHERE a.action\_feature2 > 0 RETURN u.user\_id, t.target\_id

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8)For each targetID, count the actions with label “1”

MATCH (u:User)-[a:ACTION{action\_label:1}]->

(t:Target) return t.target\_id, count(a) order by t.target\_id

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