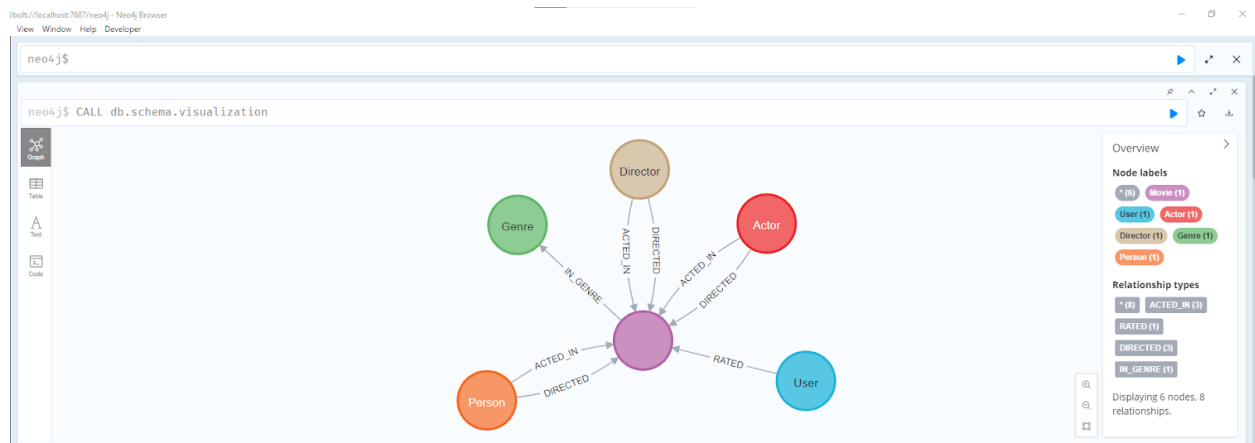


## Part 1

1. Insert a screenshot of your graph schema.



2. Why does the *Director* node have both ACTED\_IN and DIRECTED relationships with *Movie*?

The reason why the Director node has both ACTED\_IN and DIRECTED is because in the Director node, there are people that both acted and directed movies.

## Part 2 (3 points each) Insert the code as well as a screenshot of the query results.

1. List movies that are released from 2000 to 2010 (including 2000 and 2010)

neo4j@bolt://localhost:7687/neo4j - Neo4j Browser

File Edit View Window Help Developer

neo4j\$

neo4j\$ MATCH (twothousands:Movie) WHERE twothousands.year ≥ 2000 AND twothousands.year ≤ 2010 RETU...

|   | twothousands.name                                      |
|---|--|
| 1 | "nception"   |
| 2 | "The Dark Knight"                                      |
| 3 | "The Lord of the Rngs: The Fellowship of the Rng"      |
| 4 | "Gladiator"  |
| 5 | "Prates of the Carbbean: The Curse of the Black Pearl" |
| 6 | "Avatar"   |
| 7 |  |

Type here to search

67°F 3:12 PM 4/28/2023

2. List any 20 movies from the movie dataset

neo4j\$

neo4j\$ MATCH(movies:Movie) RETURN movies.name LIMIT 20

|   | movies.name                                  |
|---|--|
| 1 | "Extracton"                                  |
| 2 | "The Gentlemen"                              |
| 3 | "Star Wars: Epsode X - The Rse of Skywalker" |
| 4 | "Avengers: Endgame"                          |
| 5 | "Bad Boys for Lfe"                           |
| 6 | "Code 8"                                     |
| 7 |  |

Started streaming 20 records after 1 ms and completed after 2 ms.

3. What 5 movies were directed by *Joe Russo*?

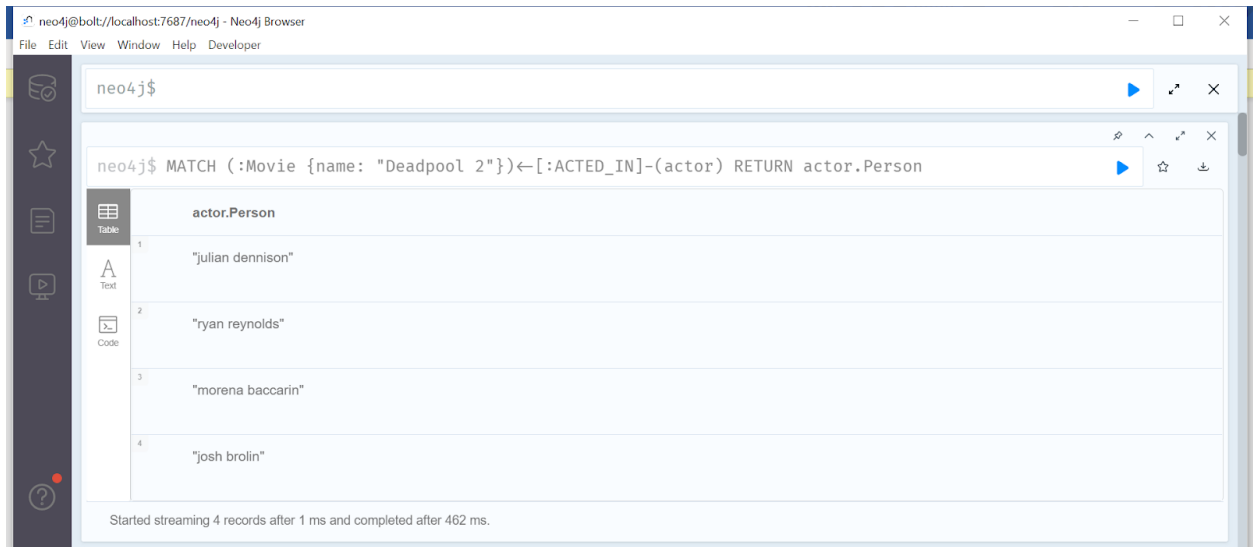
neo4j\$

neo4j\$ MATCH (:Person {Person: "joe russo"})-[:DIRECTED]→(Movie) RETURN Movie.name

|   | Movie.name               |
|---|--------------------------|
| 1 | "The Au Par"             |
| 2 | "Cherry"                 |
| 3 | "Avengers: Endgame"      |
| 4 | "Captan Amerca: Cvl War" |
| 5 | "Avengers: nfnty War"    |
| 6 | "You, Me and Dupree"     |
| 7 |                          |

Started streaming 8 records after 1 ms and completed after 88 ms.

4. List actors who acted in *Deadpool 2*

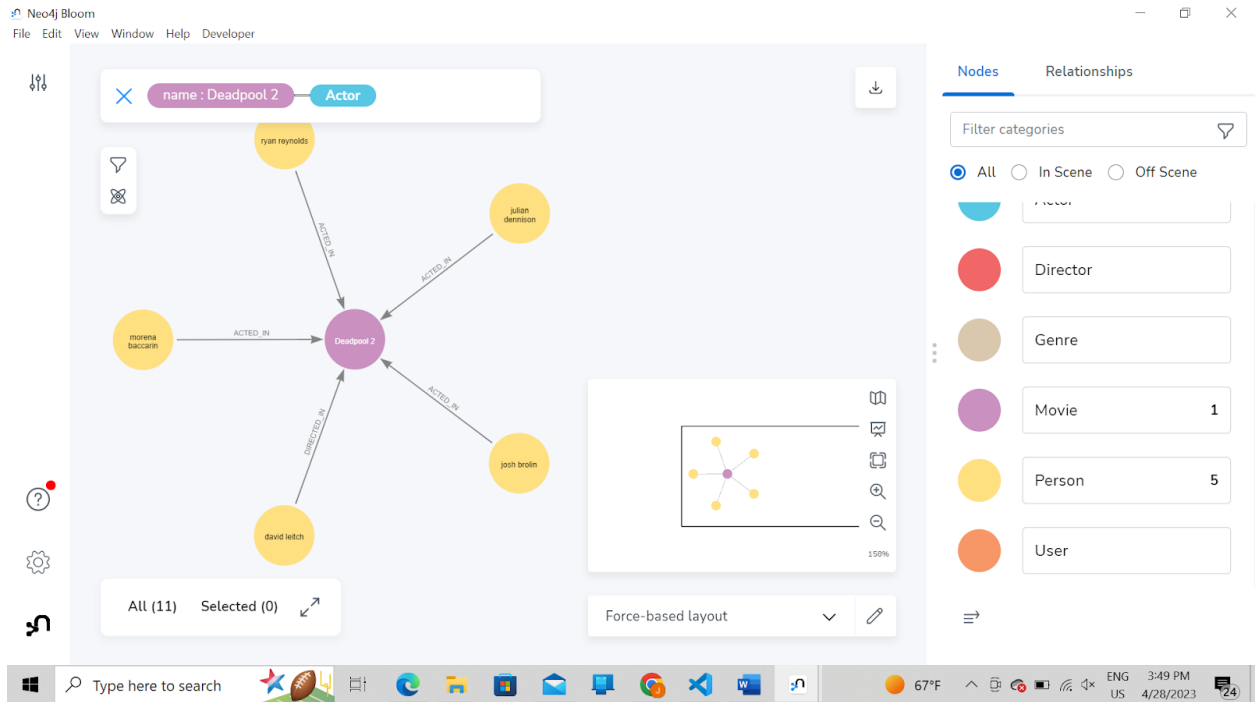


5. Find the highest number of reviews for the movie that contains "Me" in their name

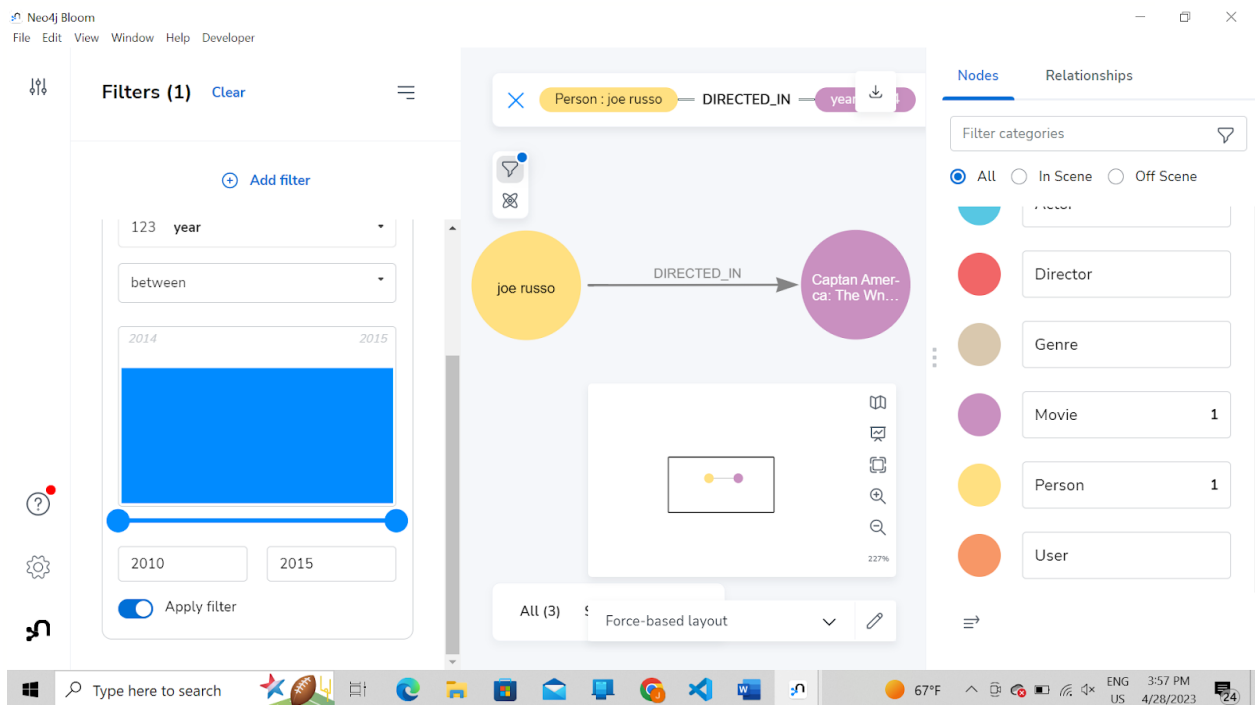


Part 3 (3 points each) insert screenshots to support each answer

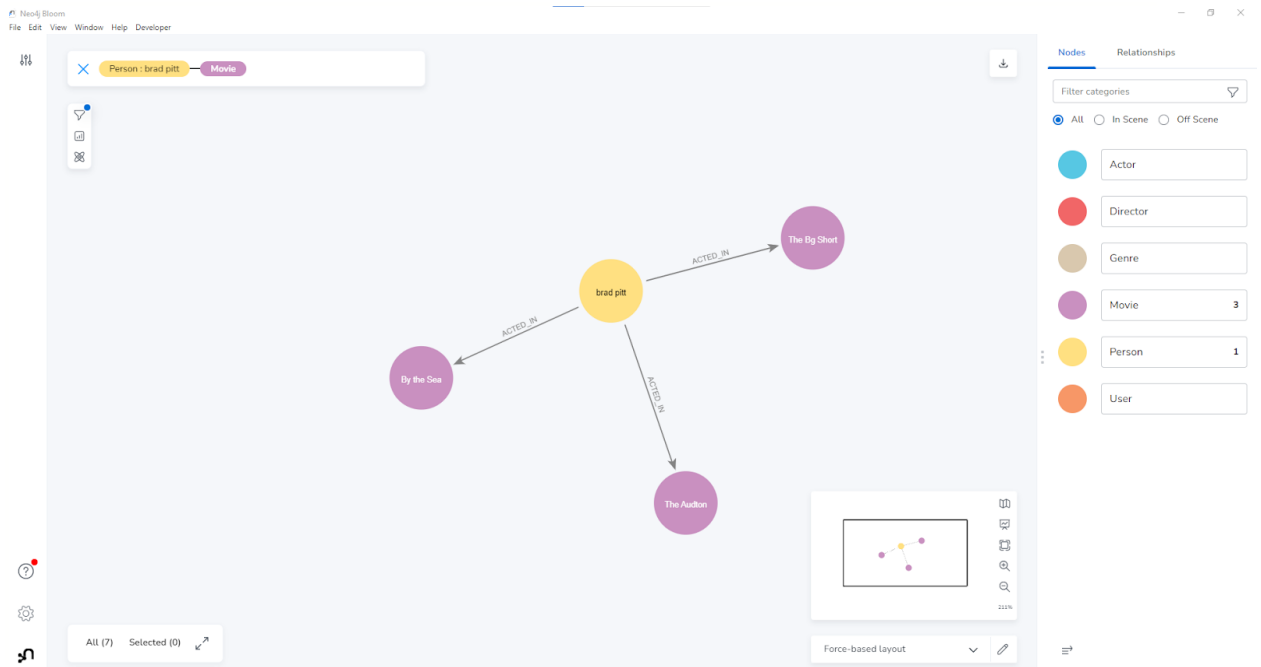
1. Build the graph that shows the *actors* that *acted in* the *movie* Deadpool 2



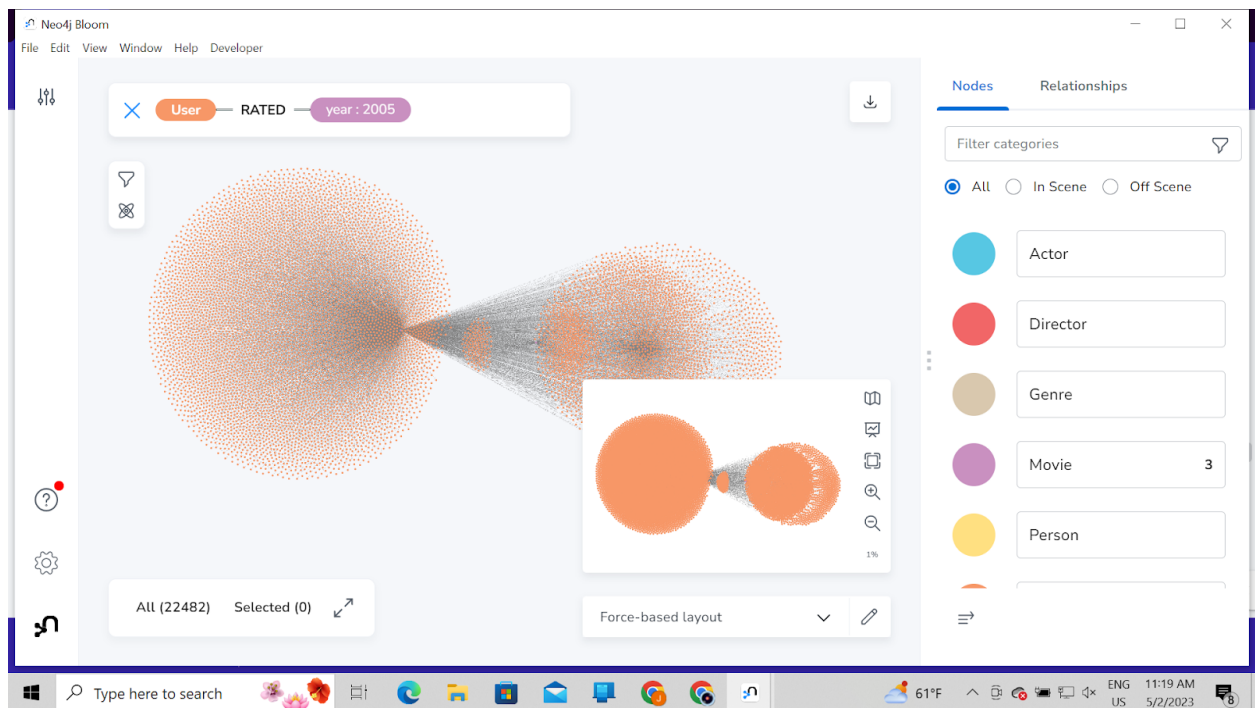
2. Graph movies directed by *joe russo* from the years 2010-2015



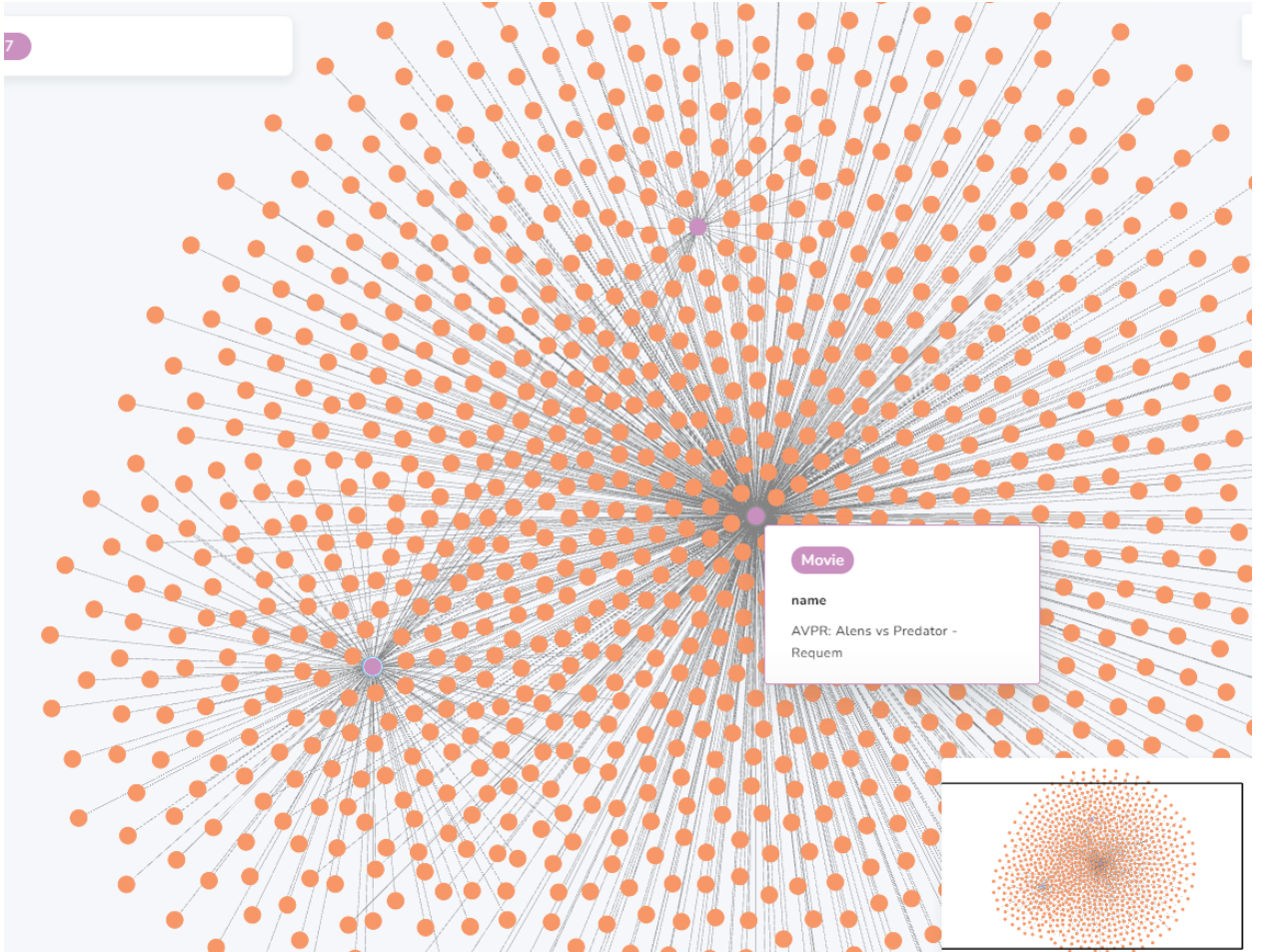
3. Find the movies that *brad pitt* starred in 2015

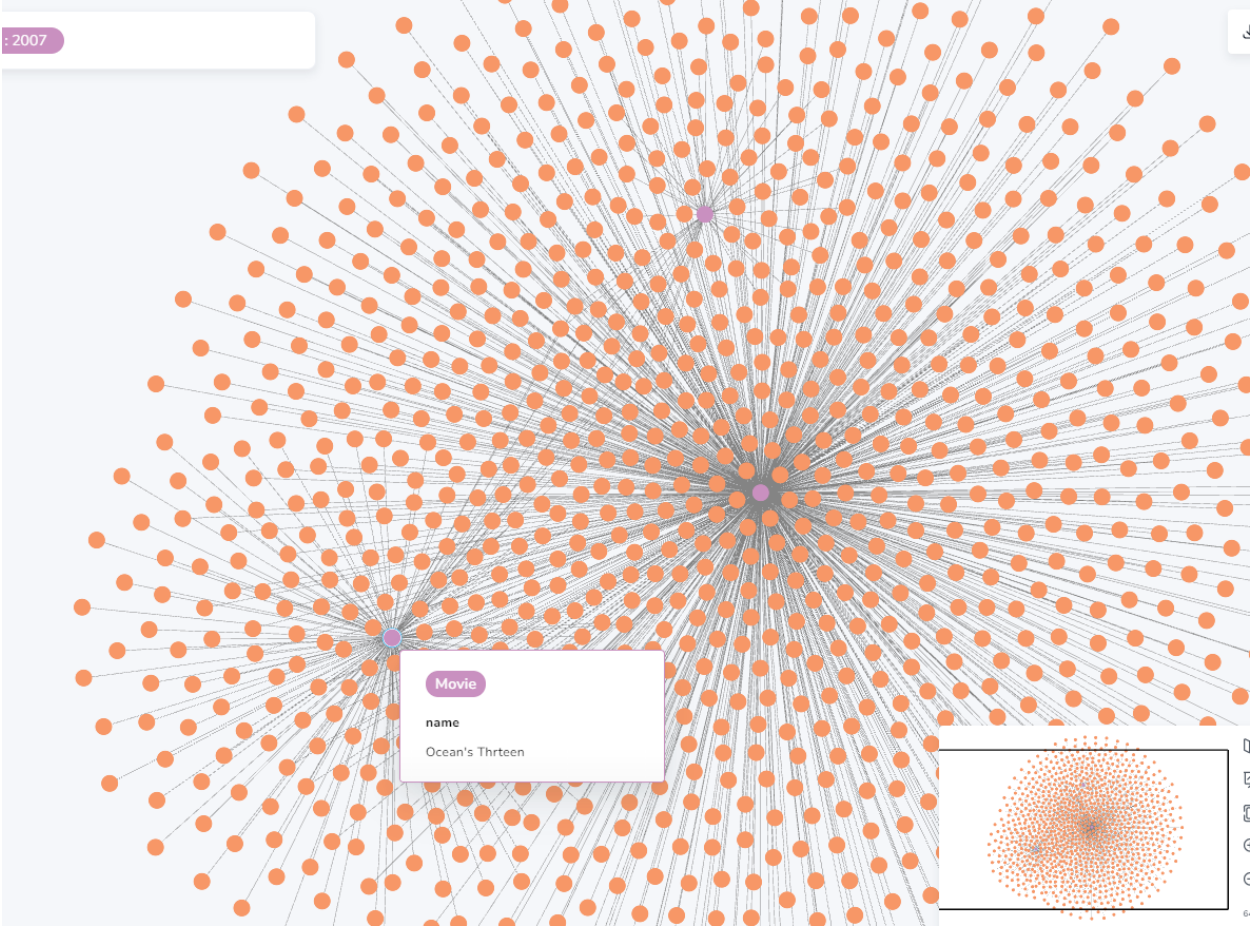


4. Graph the *users* who that rated *movies* made in 2005.

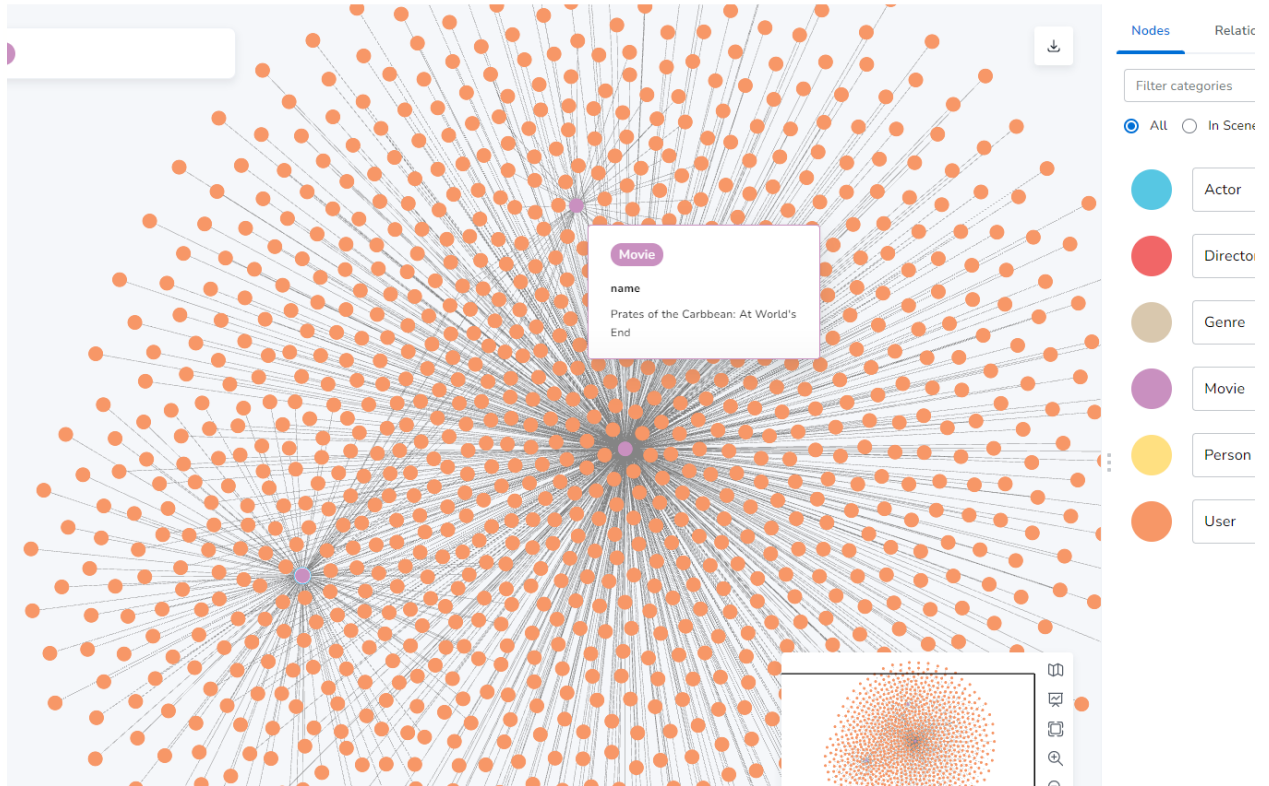


5. Display a graph that shows the three movies (show their names) made in 2007 that users rated.









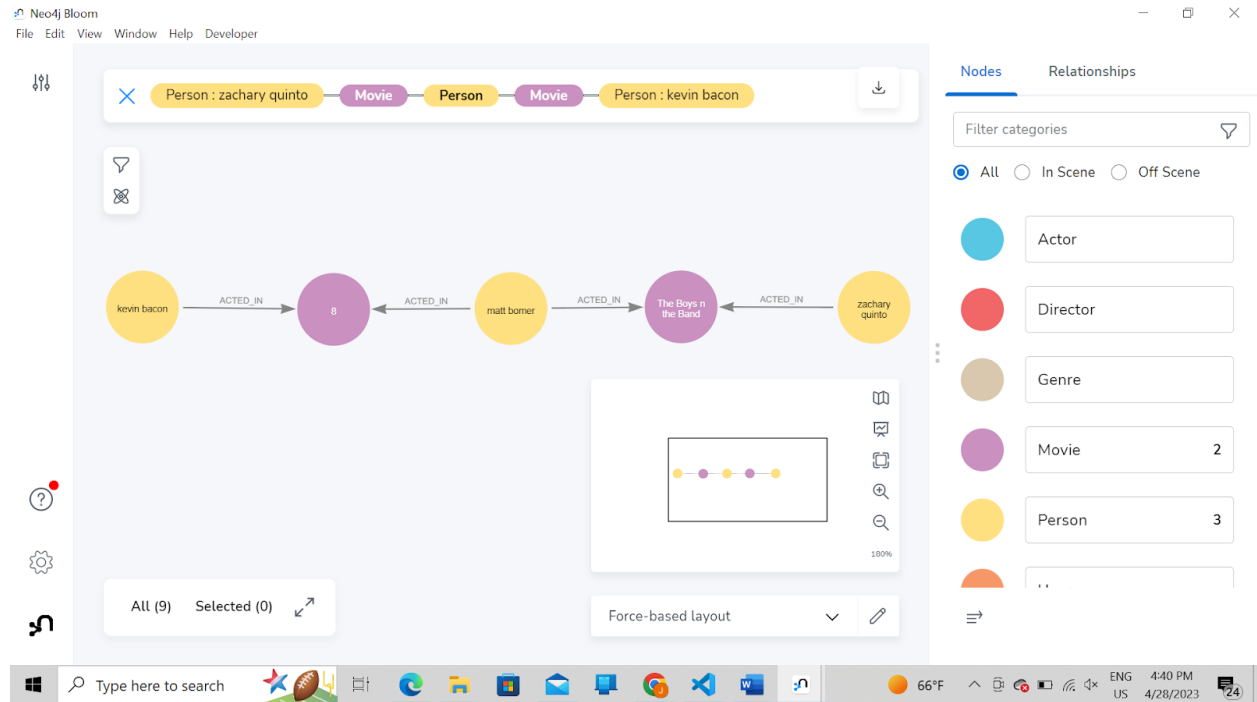
6. In question 5, what is one observation you can make about those movies by looking at the graph? (note: you have to go to the setting in the bottom left corner of your bloom app and make sure to max your node query limit to 10000.)

When changing the node query limit from the default value to 10,000, we observed that the graph became much bigger. The number of movies went from 3 to 4. More specifically, The Simpson was added when we changed the query limit to 10,000. The number of users also increased from 997 to 8922.

7. One of the entertaining games of the 1990s was Six Degrees of Kevin Bacon. The goal was the guess the shortest connection between any actor and Kevin Bacon (or another actor, through the movies they worked in). The theory was any two actors in hollywood could be connected within six hops.

Task: Either using cypher code or bloom visualization, find the shortest connection between Kevin Bacon and Zachary Quinto. Do not use nodes with labels Genre or User. Describe the result in the form “ Kevin Bacon acted in the movie XYZ which had the actor ABC who acted in the movie...which has Zachary Quinto”. Insert a screenshot of the shortest connection graph and the code. You may want to crosscheck your answer here -

<https://oracleofbacon.org/movie/links.php>



Kevin Bacon acted in the movie “8” which had the actor Matt Bomer who acted in the movie “The Boys n the Band” which has Zachary Quinto