

1. What is the shortest path between DR. STRANGE and DR. DOOM?
There are several characters with the name Dr. Strange. For the sake of simplicity, I am calculating the shortest path between. Dr. Stephen Strange and Dr. Victor Von Doom.

The shortest path between these two characters is 1

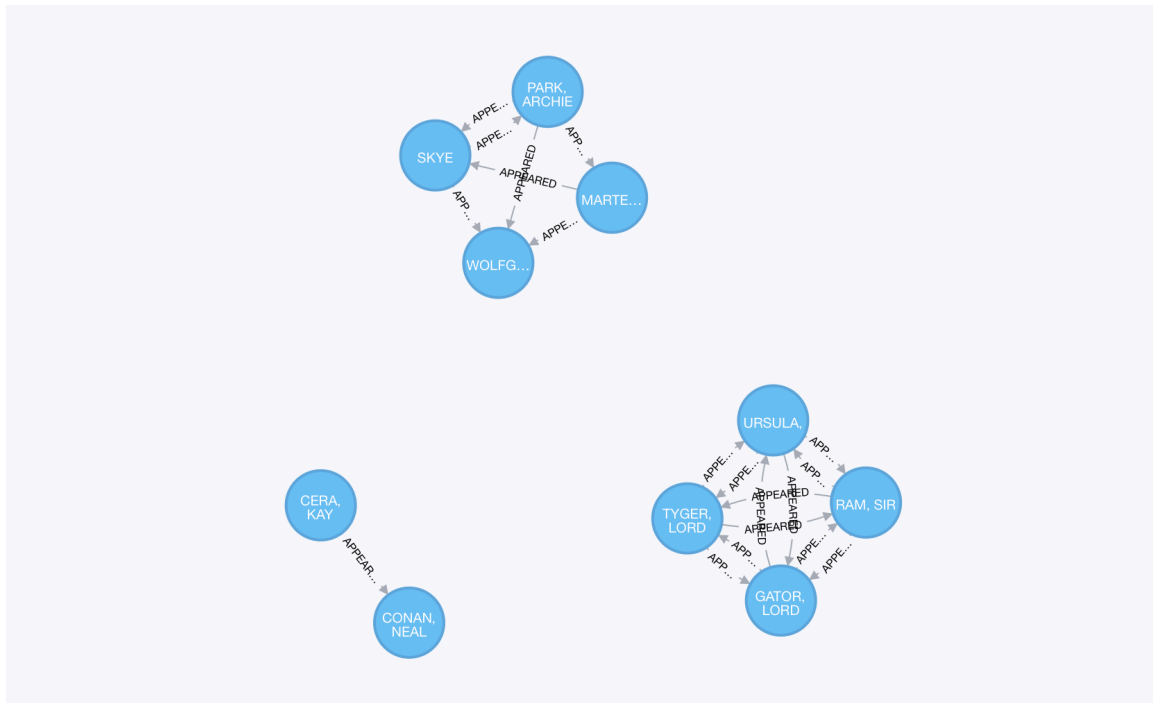
2. List the 5 shortest paths between DR. STRANGE and DR. DOOM

```
[{"name": "DR. STRANGE/STEPHEN", "degree": 777, "w": 8, "name": "DR. DOOM/VICTOR VON", "degree": 441}], 1
[{"name": "DR. STRANGE/STEPHEN", "degree": 777, "w": 12, "name": "DR. DOOM/VICTOR VON", "degree": 441}], 1
[{"name": "DR. STRANGE/STEPHEN", "degree": 777, "w": 3, "name": "CAPTAIN BRITAIN/BRIA", "degree": 327, "w": 2, "name": "DR. DOOM/VICTOR VON", "degree": 441}], 2
[{"name": "DR. STRANGE/STEPHEN", "degree": 777, "w": 3, "name": "CAPTAIN BRITAIN/BRIA", "degree": 327, "w": 1, "name": "DR. DOOM/VICTOR VON", "degree": 441}], 2
[{"name": "DR. STRANGE/STEPHEN", "degree": 777, "w": 1, "name": "REDWING", "degree": 175, "w": 1, "name": "DR. DOOM/VICTOR VON", "degree": 441}], 2
```

3. List 5 Friends of Friends with the most connections and COLOSSUS II.

friend_of_friend.name	COUNT(*)
WONG	453
MOONSTONE II/KARLA S	370
CARTER, PEGGY	367
POWER MAN/ERIK JOSTE	350
KINGPIN/WILSON FISK	342

4. Visualize 10 Friends of friends for IRON MAN



5. Discover how the Avengers grew over time from 5 to 10. Find team members starting with 5 and incrementing to 10. Who was added to the team? Is the resulting graph ever not fully connected?

```
MATCH (tony:Hero {name:'IRON MAN/TONY STARK'}) -[e:APPEARED]-> (other) <-
[f:APPEARED]- (donald:Hero {name:'THOR/DR. DONALD BLAK'})
RETURN tony,donald,other
ORDER BY e.w DESC, f.w DESC
LIMIT 8
```

The graph returned by this result is always fully connected

