Assessment Questions on 'Practicing Graph Analytics in Neo4j With Cypher'

9 questions

1.

[NOTE: The following questions apply to the results from the "Practicing Graph Analytics in Neo4j With Cypher" Assignment using the dataset titled 'gene_gene_associations_50k.csv'. They are based on the assumption you successfully completed the "Practicing Graph Analytics in Neo4j With Cypher" assignment using the dataset included in the download linked below.]

gene_gene_associations_50k.zip (http...

What is the number of nodes returned?

- 50,000
- 9656
- 9756
- 8673

2.

What's the number of edges?

- 50,000

- 49,834
- 46,621
- None of the above

3.

The number of loops in the graph is:

- 1035
- 1395
- 1221
- 1243

4.

The query match (n)-[r]->(m) where m <> n return distinct n, m, count(r) gives us

- **the count of all non loop edges between every adjacent node pair.**
- **the count of all edges between every adjacent node pair.**
- **the count of all edges.**
- None of the above

5.

The query match (n)-[r]->(m) where m <> n return distinct n, m, count(r) as myCount order by myCount desc limit 1 produces what?

- a random edge
- the node with the maximum number of looping edges

- two neighboring nodes, each with a high outdegree
- the pair of nodes with the maximum number of multi-edges between them

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6.

The query match p=(n {Name:'BRCA1'})-[:AssociationType*..2]->(m) return p produces what?

- The neighbors' neighbors of the node whose name is 'BRCA1'
- The 2-neighborhood of the node whose name is 'BRCA1'
- The neighbors whose distance is greater than 1 and less than 2 of the node whose name is 'BRCA1'
- The neighbors of the node whose name is 'BRCA1'

7.

How many non-directed shortest paths are there between the node named 'BRCA1' and the node named 'NBR1'?

- 8
- 9
- 10
- None of the above

8.

The top 2 nodes with the highest outdegree are:

- GRB2 and TP53
- EP300 and BRCA1
- MEPCE and EGFR

- [ ] SNCA and BRCA1

9.

Applying the example queries provided to you, create the degree histogram for the network. How many nodes in the graph have a degree of 3?

- [ ] 1351
- [ ] 821
- [ ] 675
- [ ] 512

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