Neo4J: Sample Questions 2

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Question 1 of 80

The only Neo4j instances that can join a cluster are those that are initially configured on the Leader to be allowed to join.

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
```

Question 2 of 80

Select the Cypher statements below that will delete a node with an id of 3563 and all of its possibly connected relationships?

- **A)**

```
MATCH (a:Thing {id:3563})
OPTIONAL MATCH (a)-[r]-()
DELETE a, r
```

- B)

```
MATCH (a:Thing {id:3563})
DELETE a
```

- **C)**

```
MATCH (a:Thing {id:3563})
DETACH DELETE a
```

- D)

```
MATCH (a:Thing {id:3563})-[r]-(b)
DELETE a, r
```

```
Points: 0 out of 1
Correct answer: A) C)
```

Question 3 of 80

What, specifically, does the following expression do?: size((n)-[:TYPE]->()) ?

- **A) It counts the number of relationships with this type and direction?**
- B) This is not valid Cypher.
- **C) It reads the degree-value for this relationship-type and direction directly from the node record.**
- D) It executes a MATCH first and then returns the size of the path - collection.

```
Points: 0 out of 2
Correct answer: A) C)
```

Question 4 of 80

What is the difference between count(*) and count(n)?

- A) There is no difference.
- **B) count(*) counts rows not values.**
- C) count(n) only counts distinct values.
- **D) count(n) does not count null values.**

```
Points: 0.5 out of 1
Correct answer: B) D)
```

Question 5 of 80

Adding a label to a node will automatically index the name property.

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
Automatic indexing of properties only occurs when the configuration is enabled or the index or
uniqueness constraint is applied.
```

Question 6 of 80

Neo4j version 2.2 introduced basic authentication with the server, which when enabled requires a username and password to be supplied to query the server.

- **A) True**
- B) False

```
Points: 0 out of 1
```

```
Correct answer: A)
```

Question 7 of 80

What is the main responsibility of read replicas in a causal cluster?

- A) Scaling writes
- B) Taking part in the Raft election algorithm
- **C) Scaling out graph workloads**
- D) Replicating data around the cluster

```
Points: 0 out of 1
Correct answer: C)
```

Question 8 of 80

What parts of a Cypher query can be parameterized?

- A) Labels.
- **B) Property values.**
- **C) Map values.**
- D) Relationship types.
- **E) Index query expressions for explicit indexes.**
- **F) Literals.**

```
Points: 0 out of 2
Correct answer: B) C) E) F)
```

Question 9 of 80

When modeling with Neo4j, which of the following best represents inferring a symmetric relationship for the below simple graph:

```
(parent:Parent)-[:PARENT_OF]->(child:Child)
```

- **A) child is a CHILD_OF parent**
- B) parent is the CHILD_OF parent
- C) child is the PARENT_OF parent
- D) child HAS_SIBLINGS from parent

```
Points: 1 out of 1
Correct answer: A)
```

Question 10 of 80

Which of the following best describes the LIMIT clause in Cypher?

- **A) LIMIT is used to limit the number rows returned from the query or passed to other parts of a query.**
- B) LIMIT is used within the WHERE clause to limit the number of relationships traversed during a query.
- C) The LIMIT clause is used when creating nodes to limit the number of relationships between two nodes.
- D) The LIMIT clause is used with a RETURN clause to limit the types of values returned from node properties.

```
Points: 0 out of 1
Correct answer: A)
```

Question 11 of 80

Given the below MATCH clause, which of the following is the correct way to return the relationship type of all relationships bound to the variable b?

```
MATCH (a)-[b]->(c)
```

- A) RETURN b.type
- B) RETURN b
- **C) RETURN TYPE(b)**
- D) None of these are correct.

```
Points: 0 out of 1
Correct answer: C)
```

Question 12 of 80

What are the benefits of parameterized Cypher?

- **A) The query plan from previous invocations is reused, therefore it's much more performant.**
- **B) Provides protection against code injection.**
- C) Automatic query parallelization in a cluster
- D) There are no benefits. Constructing statements with literal values is as good.
- E) Parameters are only available in SQL, Cypher doesn't support it.

```
Points: 0 out of 2
Correct answer: A) B)
```

Question 13 of 80

Which function allows you to create a list of values as result of an aggregation?

- **A) The collect() function.**
- B) The toList() function.
- C) The aggregate() function.
- D) The values() function.

```
Points: 0 out of 1
Correct answer: A)
```

Question 14 of 80

Given this Cypher statement, select the answer that best describes what data is returned from the query?

```
MATCH (person:Person)
WHERE person.id = 526321
RETURN KEYS(person)
```

- **A) A collection of the property keys stored on the node with the Person label and an id property with a value of 526321.**
- B) The internal key reference pointer for the node with the Person label and an id property with a value of 526321.
- C) The index keys stored for the node with the Person label and an id property with a value of 526321.
- D) The key pointers for relationships connected to the node with the Person label and an id property with a value of 526321.

```
Points: 0 out of 1
Correct answer: A)
```

Question 15 of 80

What things can you do in a user defined procedure that you can't do in a user defined function? A) Execute Cypher queries

- **B) Write to the database**
- **C) Return multiple values**

D) Count the number of nodes in the database

```
Points: 0 out of 1
Correct answer: B) C)
```

Question 16 of 80

Which of the following schema objects does Neo4j include?

- A) Tables.
- B) Columns.
- C) Materialized views.
- D) Rows.
- **E) None of the above.**

```
Points: 0 out of 1
Correct answer: E)
```

```
Neo4j is a graph database and does not enforce relational schema objects.
```

Question 17 of 80

When modeling relationships between two nodes, you should use a NULL relationship to represent the absence of a relationship between two nodes.

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
The absence of a relationship between two nodes is sufficient to represent no connection between them.
```

Question 18 of 80

Which of the following Cypher statements will return actors and the directors who directed their movies?

- **A)**

```
MATCH (actor)-[:ACTED_IN]->(movie)<-[:DIRECTED]-(director)
RETURN actor, director
```

- B)

```
MATCH (actor)-[:ACTED_IN]->(movie)
JOIN (movie)<-[:DIRECTED]-(director)
RETURN actor, director
```

- C)

```
MATCH (actor)-[:ACTED_IN]-(movie)
CONNECT (movie)-[d:DIRECTED]-(director)
RETURN actor, director
```

- D)

```
MATCH (actor)-[a:ACTED_IN]->(movie)<-[b:DIRECTED]-(director)
RETURN a, b
```

```
Points: 0 out of 1
Correct answer: A)
```

Question 19 of 80

Which statements regarding page cache are true:

- **A) The page cache uses off-heap memory.**
- B) The Java heap contains the page cache.

- **C) If possible you should assign enough RAM to "dbms.pagecache.memory" to hold the full graph.**
- D) The page cache is implemented in C++ for maximum throughput.
- **E) The page cache has a minimal of overhead compared to the binary storage on disc.**

```
Points: 0 out of 2
Correct answer: A) C) E)
```

Question 20 of 80

When using a language driver, a Session can be considered thread safe?

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
```

Question 21 of 80

How do you perform an aggregation in Cypher?

- A) Using the GROUP BY keyword.
- **B) Using at least one aggregation function.**
- C) Defining grouping keys with WITH.
- D) With the AGGREGATE keyword.

```
Points: 0 out of 1
Correct answer: B)
```

Question 22 of 80

Which of the following best describes the options available for loading data into Neo4j?

- **A) Neo4j's neo4j-import tool, Cypher LOAD CSV clause, or batch operations against the REST endpoint.**
- B) Commercial ETL tools that can transform and load data in graph format.
- C) Direct database connections from other database tools to load data in directly.
- D) The Cypher BULK LOAD clause to import data from an existing text file.

```
Points: 0 out of 1
Correct answer: A)
```

Question 23 of 80

In modeling, the concept of an intermediate node is used in what situation?

- **A) To connect more than two nodes in a single context, such as where a person worked and in what role during what timeframe.**
- B) As a sub-node to represent complex entities as multiple nodes.

- C) In support of linked lists to identify next relationships.
- D) Before or after Primary nodes for quick traversals through the graph.

```
Points: 0 out of 1
Correct answer: A)
```

Question 24 of 80

Neo4j requires which of the following?

- **A) Java runtime environment.**
- B) Microsoft .NET environment.
- C) A J2EE container server.
- D) A SAN storage system.
- E) None of the above.

```
Points: 0 out of 1
Correct answer: A)
Neo4j requires a Java runtime environment for deployment.
```

Question 25 of 80

Neo4j is available with both open-source and commercial licenses.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
Neo4j can be used with both the open-source license or a commercial license which includes technical
support.
```

Question 26 of 80

Which of the following are not native security roles in Neo4j?

- A) admin
- B) publisher
- **C) developer**
- D) architect

```
Points: 0 out of 1
Correct answer: C)
```

Question 27 of 80

An Unmanaged Extension is best described by which of the following?

- **A) Unmanaged Extensions provide finer grained control over your application's interactions with Neo4j than Cypher by allowing you to write server-side code using Neo4j's Java API's and access the extension through REST calls.**
- B) Unmanaged Extensions are references to the HTTP REST API's that currently do not require authentication for reading or writing data to the graph.
- C) Unmanaged Extensions are custom application services that bypass Neo4j's Cypher interface and directly interact with data stored on disk.
- D) Unmanaged Extensions are custom Cypher extensions that provide end-user specific functional capabilities to Cypher.

```
Points: 0 out of 1
Correct answer: A)
```

Question 28 of 80

The Cypher PROFILE keyword can be used for what purpose?

- **A) Entered before the statement it is used to return the query plan and execution information for a Cypher statement for performance tuning purposes.**
- B) Used when creating parameterized Cypher queries, it tells the query engine to build a query plan for later use.
- C) The PROFILE clause will detail the current statistics for the server, including node counts, relationship counts, and data size.
- D) PROFILE will identify the schema for the current database, including labels in use, relationship types, and indexes.

```
Points: 0 out of 1
Correct answer: A)
```

Question 29 of 80

Neo4j uses the Property graph model. Which of the following best describes a property graph?

- **A) Nodes and relationships define the graph while properties add context by storing relevant information in the nodes and relationships.**
- B) Property graph defines a graph meta-structure that acts as a model or schema for the data as it is entered.
- C) The Property graph is a model similar to RDF which describes how Neo4j stores resources in the database.
- D) The Property graph allows for configuration properties to define schema and structure of the graph.

```
Points: 0 out of 1
Correct answer: A)
```

Question 30 of 80

A single node can have a relationship that points at itself?

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 31 of 80

It is possible for a node to have more than one label.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
Nodes can have 0 or more labels.
```

Question 32 of 80

Select a valid WHERE clause to follow this MATCH clause:

```
MATCH (a)-[b:CONNECTED_TO]->(c)
```

- A) A WHERE clause cannot follow a MATCH clause.
- **B) WHERE b.key = "value"**
- C) WHERE b:CONNECTED_TO.key = "value"
- D) WHERE :CONNECTED_TO.key = "value"

```
Points: 0 out of 1
Correct answer: B)
```

Question 33 of 80

Which of the following authentication providers does Neo4j have support for?

- A) Google
- **B) Kerberos**
- **C) LDAP**
- D) LinkedIn

```
Points: 0 out of 1
Correct answer: B) C)
```

Question 34 of 80

Which of the following statements best describes Cypher's MERGE clause?

- A) MERGE is used to merge multiple nodes or relationships in the graph together to form a single node or relationship.
- B) MERGE is used to return multiple nodes in a Cypher return statement.
- **C) The MERGE clause ensures that a pattern exists in the graph. Either the pattern already exists, or it needs to be created.**
- D) MERGE can be used to join two graph databases together by de-duplicating nodes and relationships.

- E) MERGE is not a valid Cypher clause.

```
Points: 0 out of 1
Correct answer: C)
```

Question 35 of 80

The Raft log only contains transaction data

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
The Raft log stores other data including cluster membership.
```

Question 36 of 80

What's the default port for the Bolt server?

- A) **7687**
- B) 7474
- C) 7473
- D) 5000

```
Points: 0 out of 1
Correct answer: A)
```

Question 37 of 80

In which directory would you find the neo4j.conf file that defines the configuration of the server?

- A)**"conf" directory**
- B)"properties" directory
- C)"bin" directory
- D)"data" directory

```
Points: 0 out of 1
Correct answer: A)
```

Question 38 of 80

Neo4j is written in C++.

- A) True
- **B) False**

```
Points: 0 out of 1
```

```
Correct answer: B)
Neo4j is written in Java.
```

Question 39 of 80

Which keyword in the RETURN clause will return only one instance of each item in a result set?

- A) UNIQUE
- **B) DISTINCT**
- C) SINGLE
- D) FIRST

```
Points: 0 out of 1
Correct answer: B)
```

Question 40 of 80

Online backups allow for backing up a running instance of Neo4j, which is only available with the Enterprise Edition.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 41 of 80

To transform a collection of nodes or relationships into a collection of properties or results of a function or expression, which Cypher clause would you use?

- **A) EXTRACT**
- B) GET
- C) REDUCE
- D) FILTER
- E) KEYS
- F) ALL
- G) MERGE

```
Points: 0 out of 1
Correct answer: A)
```

Question 42 of 80

Which of the following best describes the Neo4j data model?

- A) Nodes and properties.
- **B) Nodes, relationships, and properties.**
- C) Nodes, foreign keys, and relationships.

- D) Rows, properties, and relationships.
- E) Nodes and relationships.

```
Points: 0 out of 1
Correct answer: B)
Neo4j's data model consists of nodes, relationships between the nodes, and properties on both nodes
and relationships.
```

Question 43 of 80

Which of the following best describes the CONNECT_BY clause in Cypher

- A) The CONNECT_BY clause is used to join nodes when they are connected by varying relationship depths.
- B) The CONNECT_BY clause is used when constructing a graph tree structure where you want to define the nodes that a leaf node is connected to.
- C) The CONNECT_BY clause is used in Cypher to limit the pattern to only certain relationship types.
- D) The CONNECT_BY clause is a constraint that ensures only certain relationships can connect two nodes with specific labels together.
- **E) CONNECT_BY is not a valid Cypher clause.**

```
Points: 0 out of 1
Correct answer: E)
```

Question 44 of 80

Which of the following best describes the OPTIONAL MATCH clause in Cypher?

- A) OPTIONAL MATCH is not a Cypher clause.
- **B) The OPTIONAL MATCH searches for a described pattern that may or may not exist, assigning NULL to any identifiers in the pattern that do not exist.**
- C) The OPTIONAL MATCH clause will take a set of property values and optionally match them against all nodes in the database.
- D) OPTIONAL MATCH provides parameter placeholders for Cypher queries. It holds a parameterized query and then optionally matches it against the graph with the values supplied by the client.

```
Points: 0 out of 1
Correct answer: B)
```

Question 45 of 80

Which of the following Cypher statements will return the number of cities in the state of California?

- **A)**

```
MATCH (:State {name:"California"})<-[:LOCATED_IN]-(city:City)
RETURN count(city)
```

- **B)**

```
MATCH (state:State)<-[:LOCATED_IN]-(city:City)
WHERE state.name="California"
RETURN count(city)
```

- C)

```
MATCH (state:State {name:"California"})
JOIN state, MATCH (city:City)
RETURN count(city)
```

- D)

```
MATCH (city:City)
FILTER relationships(LOCATED_IN)
FILTER related(:STATE {name:"California"})
RETURN count(city)
```

```
Points: 0 out of 2
Correct answer: A) B)
```

Question 46 of 80

To restore a Neo4j instance from a backup, which of the following is accurate?

- A) **The Neo4j backups are fully functional databases. To use a backup, all you need to do replace your database folder with the backup. Just make sure the database isn't running while replacing the folder.**
- B) The Neo4j "backup-restore" command will copy the compressed backup archive files and logical logs to the existing instance database folder, replay the transactions, and bring the database back online.
- C) Issuing a "restore" command with a timestamp will recover the Neo4j instance up to that particular point in time, before any transactions corrupted the database files.
- D) Shut down the current instance, replace the database folder with the backup, and then startup the Neo4j instance in recovery mode so the database is fully recovered.

```
Points: 0 out of 1
Correct answer: A)
```

Question 47 of 80

We can add properties to an existing node by using which Cypher keyword?

- A) ADD
- B) UPDATE
- **C) SET**
- D) CREATE

```
Points: 0 out of 1
Correct answer: C)
```

Question 48 of 80

Which of the following Cypher statements would return the total population in all cities located in California?

- **A)**

```
MATCH (:STATE {name:"California"})<-[:LOCATED_IN]-(city:CITY)
RETURN sum(city.population)
```

- B)

```
MATCH (city:CITY)
sum(city.population) as total
WHERE (city)-[:LOCATED_IN]->(:STATE {name="California"})
RETURN total
```

- C)

```
SUM (:CITY.population)
WHERE city.relationships(:SATE.name="California")
RETURN
```

- D)

```
MATCH (state:STATE {name:"California"})
MATCH (city:CITY)
JOIN state,city
RETURN SUM(city.population)
```

```
Points: 0 out of 1
Correct answer: A)
```

Question 49 of 80

Which settings determine the maximum memory use of Neo4j?

- **A) dbms.pagecache.memory and wrapper.java.maxmemory.**
- B) object_cache_size, file_cache_size, heap_size.
- C) dbms.pagecache.size
- D) java.io.heapsize, neo4j.db.cachesize
- E) Java option -Xmx

```
Points: 0 out of 1
Correct answer: A)
```

Question 50 of 80

Which of the following best describes what the below Cypher statement will do?

```
MATCH (city:City {name: "San Mateo"})
MERGE (state:State {name: "California"})
MERGE (city)-[:LOCATED_IN]->(state)
RETURN city, state
```

- A) **If there is a City node with name "San Mateo", uniquely create a :LOCATED_IN relationship to a State node with name "California," creating the State node if it does not already exist.**
- B) The :LOCATED_IN relationship is only created if there is both a City node with name "San Mateo" and a State node with name "California."
- C) The :LOCATED_IN relationship is overwritten only if there is both a City node with name "San Mateo" and a State node with name "California."
- D) The :LOCATED_IN relationship is matched only if there is both a City node with name "San Mateo" and a State node with name "California."

```
Points: 0 out of 1
Correct answer: A)
```

Question 51 of 80

When using a language driver, TLS encryption is enabled for all connections by default

- **A) True**
- B) False

```
Points: 1 out of 1
Correct answer: A)
```

Question 52 of 80

In Neo4j modeling, a timeline tree is a recommended approach for representing time and connecting discrete events with no natural relationship to other events where you need to find events by granularity of time.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 53 of 80

Which procedure can be run to get a list of all procedures in the DBMS?

- A) db.procedures()
- B) dbms.showProcedures()
- C) db.listProcedures()
- **D) dbms.procedures()**

```
Points: 0 out of 1
Correct answer: D)
```

Question 54 of 80

Which of the following best describes a Relationship in Neo4j?

- A) **A structure with a name and direction that describes the relationship between two nodes and provides structure and context to the graph.**
- B) The link between two types of nodes.
- C) A link that indicates how one type of node is, or should be connected to another type of node.
- D) A key/value pair that identifies additional nodes that a single node is related to, including direction and weight.

```
Points: 0 out of 1
Correct answer: A)
```

Question 55 of 80

What prefix should be used in the connection URI when connecting an application to a Neo4j causal cluster?

- A) bolt
- B) bolt+cluster
- **C) bolt+routing**
- D) bolt+causalcluster

```
Points: 0 out of 1
Correct answer: C)
```

Question 56 of 80

Neo4j can be embedded directly into your application by importing the libraries and writing directly with the Java APIs.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 57 of 80

Foreign keys are necessary in a graph database. These allow you to determine which nodes are related.

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
Nodes are connected by relationships. Foreign keys are not needed.
```

Question 58 of 80

Of the following, which would be recommended approaches for tuning and potentially improving performance of Neo4j?

- **A) Optimizing the cache settings so more of the graph fits into memory.**
- B) Increasing the size of the performance global area to increase the number of hits in the cache.
- **C) Distributing reads across a cluster of Neo4j instances for higher concurrent access.**
- D) Increasing the parallel_servers configuration setting so queries can be broken down and worked on by multiple threads.

```
Points: 0 out of 2
Correct answer: A) C)
```

Question 59 of 80

Referential integrity is maintained in Neo4j because you cannot delete a node that has existing relationships attached.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
Nodes cannot be deleted if they still have relationships attached to them.
```

Question 60 of 80

When running an Online backup, Neo4j will automatically select to run a full or incremental backup based on whether an existing backup is present at the specified backup location and there are enough log files since the last backup to support a incremental backup?

- A) **True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 61 of 80

Which of the following Cypher statements will list all the labels in the database?

- A) RETURN db.labels()
- **B) CALL db.labels()**
- C) RETURN CALL db.labels()
- **D) CALL db.labels() YIELD label RETURN label**

```
Points: 0 out of 1
Correct answer: B) D)
```

Question 62 of 80

Which of the following statements best describes properties?

- **A) Properties are the key-value pairs on both nodes and relationships.**
- B) Properties are the key-value pairs on nodes only.
- C) Properties are the key-value pairs on relationships only.
- D) None of the above.

```
Points: 0 out of 1
Correct answer: A)
Properties are the key-value pairs on both nodes and relationships.
```

Question 63 of 80

In modeling, the use of Bi-directional relationships is a good practice when which of the following is true?

- **A) The semantics of the relationship in one direction is different from the other direction.**
- B) When you want to show the same relationship between two nodes in each direction.
- C) When a relationship between two nodes could be represented in either direction.
- D) This is never a good idea.

```
Points: 0 out of 1
Correct answer: A)
```

Question 64 of 80

When using a language driver, a statement results comprises a stream of...

- A) nodes
- B) rows
- C) entries
- **D) records**

```
Points: 0 out of 1
Correct answer: D)
```

Question 65 of 80

Which of the following best describes Cypher, Neo4j's graph query language?

- A) It's a SQL plugin for Neo4j.
- B) It is a regular expression-like programming language for interfacing with Neo4j.
- **C) It is a declarative query language designed for graph pattern matching and traversals.**
- D) It is a procedural programming language for interfacing with Neo4j.

```
Points: 0 out of 1
Correct answer: C)
Cypher is a declarative query language designed for graph pattern matching and traversals.
```

Question 66 of 80

Given a model consisting of nodes with the Person label connected by relationships with type KNOWS, select the statement below that will match on both Sarah's friends and her friends of friends?

- A)

```
MATCH (sarah:Person)-[:KNOWS]->(friend:Person)
WHERE sarah.name = "Sarah"
RETURN friend
```

- **B)**

```
MATCH (sarah:Person)-[:KNOWS*1..2]->(friend:Person)
WHERE sarah.name = "Sarah"
RETURN friend
```

- **C)**

```
MATCH (sarah:Person)-[:KNOWS]->(friend:Person)
OPTIONAL MATCH (friend)-[:KNOWS]->(fof:Person)
WHERE sarah.name = "Sarah"
RETURN friend, fof
```

- D)

```
All of these are correct.
```

```
Points: 0 out of 2
Correct answer: B) C)
```

Question 67 of 80

Relationships are defined with regard to node instances, not classes of nodes.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 68 of 80

Neo4j is an ACID-compliant database.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
Neo4j is an ACID-compliant database.
```

Question 69 of 80

In Neo4j modeling, the use of a Linked List is helpful for which of the following reasons?

- **A) To link entities together in a sequence, such as a series of events.**
- **B) Identifying the start and end nodes of a series of events.**
- C) To chain together nodes with similar labels.
- D) To always start a graph traversal at a certain point.

```
Points: 0 out of 2
Correct answer: A) B)
```

Question 70 of 80

Two nodes representing the same kind of thing, such as a person, can be connected to other nodes using different relationship types.

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 71 of 80

All nodes with the same label must have the same property keys.

- A) True
- B) **False**

```
Points: 0 out of 1
Correct answer: B)
Neo4j does not enforce by default that all nodes with the same label must have the same property keys.
This is only guaranteed with Property Existence Constraints.
```

Question 72 of 80

A single node can have a relationship that points at itself?

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 73 of 80

Which statement best defines uniqueness constraints in Neo4j?

- A) Neo4j does not support uniqueness constraints.
- B) A rule in the database that ensures a property value is unique among all nodes.
- **C) A rule in the database that ensures a property value is unique for all nodes with a specific label.**
- D) A rule in the database that ensures a node or relationship is unique.

```
Points: 0 out of 1
Correct answer: C)
Uniqueness constraints are rules in the database that ensure a property value is unique for all nodes
with a specific label.
```

Question 74 of 80

Read replicas have transactions pushed down to them by core servers

- A) True
- **B) False**

```
Points: 0 out of 1
Correct answer: B)
Read replicas pull from core servers
```

Question 75 of 80

What type of database is Neo4j?

- A) Key-value store.
- B) Document database.
- **C) Graph database.**
- D) Relational database.
- E) Semantic database.

```
Points: 0 out of 1
Correct answer: C)
Neo4j is a graph database.
```

Question 76 of 80

How can we ensure that the same relationship cannot be created twice between two nodes?

- A) Use the DISTINCT keyword when creating the relationship.
- B) Use the UNIQUE keyword when creating the relationship.
- C) Use the ONLY keyword when creating the relationship.
- **D) Use the MERGE keyword when creating the relationship.**

```
Points: 0 out of 2
```

```
Correct answer: D)
```

Question 77 of 80

In a Neo4j database, which of the below best describes what Nodes are used for?

- **A) Used to represent entities and complex value types in the graph.**
- B) As a table structure that identifies like entities and groups them together.
- C) As a reference holder for keys, which also store values, and foreign key links to other nodes.
- D) As endpoints on either side of a relationship, used to bring together relationships in the graph.

```
Points: 0 out of 1
Correct answer: A)
```

Question 78 of 80

Which algorithm does Neo4j use to achieve consensus commits?

- A) Paxos
- **B) Raft**
- C) An in house algorithm
- D) SWIM

```
Points: 0 out of 1
Correct answer: B)
```

Question 79 of 80

The four building blocks of a Neo4j Graph Database are:

1. Nodes
2. Relationships
3. Properties
4. Labels

- **A) True**
- B) False

```
Points: 0 out of 1
Correct answer: A)
```

Question 80 of 80

Neo4j can be deployed...

- A) ...embedded in a Java application.
- B) ...as a standalone server.
- **C) ...embedded in a Java application or as a standalone server.**

- D) ...with an app server only.
- E) None of the above.

```
Points: 0 out of 1
Correct answer: C)
Neo4j can either be embedded in a Java application or deployed as a standalone server.
```