NoSQL

Ω1.	Which types of indexes are available in CosmosDB?
	range and spatial
	secondary and primary key
	secondary and spatial
	range and primary key
	You want to connect a DynamoDB stream to AWS Lambda function. Which one of
	se object do you create?
	DynamoDB table
/	DynamoDB trigger
	DynamoDB item
	DynamoDB index
Q3.	To index a field that holds an array value in MongoDB, which index type do you
crea	ate?
	partial
	sparse
	compound
/	multikey
Q4.	You want to test HBASE on your laptop using the fewest number of steps. What do
you	ı do?
	Set up Hadoop in pseudo-distributed mode.
/	Set up HBASE in local mode.
	Set up HBASE in pseudo-distributed mode.
	Set up Hadoop in local mode.
Q5.	You need to create a document database that supports database triggers. Which
No:	SQL database should you use?
/	DynamoDB
	BigTable
	Redis
	MongoDB
Q6.	What is recommended size for Redis keys?
	medium
/	short
	single bit
	long
Q7.	What does Redis use to sort the elements of a sorted set?
/	Scores
	lds
	Values
	Keys

Q8. You need to change the shard key of an existing MongoDB collection. What do	you
do?	
Dump the collection data, drop the collection, create a new collection and shard k import the data.	ey,
Add second shard key and drop the first shard key.	
☑ Dump the collection data, drop the collection, presplit the data, create a new collection	ection
and shard key, import the data.	
Drop and recreate the shard key.	
Q9. Polyglot storage means using multiple types of what in the same application?	
Security systems	
Database systems	
✓ Storage systems	
Query systems	
Q10. You need to implement the simplest possible scalable, in-memory cache for yo AWS application. Which service do you select?	ur
Elasticache using Memcached.	
DynamoDB.	
DynamoDB Accelerator (DAX).	
✓ Elasticache using Redis.	
Q11. You are doing data modelling for Google BigTable. Which statement expresses	it
and when you should split entities across multiple rows?	
Keep all information for an entity in a single row. Store related entities in adjacent	rows.
Keep all information for an entity in a single row.Split entities across multiple rows if the entity data is over thousands of MBs, or if	i+
does not need atomic updates and reads.	10
Split entities across multiple rows if the entity data is over hundreds of MBs, or if	t
does not need atomic updates and reads.	
Q12. Which two characteristics define Amazon Quantum Ledger Database?	
Key-value data model; transactionally consistent with ACID semantics.	
Document data model; transactionally consistent with ACID semantics.	
Key-value data model; transactions with tunable consistency.	
Document data model; transactions with tunable consistency.	
Q13. You need to design the primary key for DynamoDB based on three attributes.	What
do you do?	
Designate all three fields as the primary key.	
Concatenate all three fields into one new field, then designate that new field as the	е
primary key.	
Designate two fields of the three fields as the primary key.	
Concatenate two fields into one new field, then designate that new field and the	
remaining field as the primary key. Q14. Which of these data types should you avoid in designing a Google Bigtable ro	107
Q14. Which of these data types should you avoid in designing a Google bigtable fo key?	/ V
multi-valued identifiers	

string identifiers
□ timestamps
✓ frequently updated identifiers
Q15. Your startup is building a prototype that has an evolving schema. Your data will be
eventually consistent. Your application is hosted in AWS. Which database do you
choose?
Neptune
DocumentDB
✓ DynamoDB
Amazon Aurora
Q16. You need to create a scalable database that allows you to share documents across
authorized mobile clients in real time. What Google NoSQL database should you use?
Memorystore
Datastore
✓ Firebase
■ Bigtable
Q17. You need to design security for DynamoDB to allow users read-only access to
certain items and attributes in a table. What do you do?
Use IAM roles.
Use IAM policy conditions.
Use a VPC endpoint.
Use IAM policies.
Q18. Which statement is preferred Cypher code for Neo4j?
MATCH (:Person)>(:Card)>(:Company) RETURN count(vehicle)
Match (:Person)>(:Car):(vehicle:Car)>(:Company) RETURN count(vehicle)
MATCH (:Person)>(vehicle:Car)>(:Company) RETURN count(vehicle)
MATCH (:Person)>(:Card), (vehicle:Car)>(:Company) RETURN count(vehicle)
Q19. You need multi-item ACID transactions with snapshot isolation within a partition fo
your cloud-based application. Which NoSQL databse do you choose?
☐ Bigtable
■ GraphDB
DynamoDB
Q20. You need to control your application's batch updates destination for your Bigtable
multinode cluster. Which action do you take?
Create a custom app profile to route batch updates.
Create a custom app profile to route the batch update from that client.
Update the default app profile to route the natch update from that client.
Use the default app profile to route batch updates.
Q21. Your query to verify that your Redis key is configured to support expiring user
information on a defined interval returns -2, What does this value indicate?
The queried key value expired in the last two seconds.
The queried key value exists, but has no associated expire value.

The queried key value does not exist.
■ There are two expired keys with this value.
Q22. You are designing a MongoDB schema to support queries that will include lookups.
What should you do?
Create an index on the key value used as the primary key.
Create an index on the key value used as the foreign key.
Create a multicolumn index on the key value used as the foreign key and the most
unique column in the document.
Create a multicolumn index on the key value used as the primary and also the foreign
key.
Q23. What is the aggregation operator for a join concept in MongoDB?
\$\sqroup
\$\square\ \square\ \qquare\ \qqqq\ \qqq\ \qqqq\ \qqq\ \qqqq\ \qqqqq\ \qqqqqq
\$project
Q24. For your mobile application, you need to select a Google cloud database that can
support compound, filtered document queries. Which do you choose?
Cloud SQL
Cloud Spanner
✓ Cloud Firestore
Cloud Firebase
Q25. To bulk load data into Amazon Neptune, what do you do?
✓ Upload data to S3 VPC endpoint, Use the Neptune loader to load from s3 into your
Neptune instance
Ad data to a Kinesis stream, and use the Neptune loader to load from S# into your
Neptune instance.
Add data to a Kinesis stream, and create a Kinesis stream VPC endpoint. Use the
Neptune loader to load from S3 into your Neptune instance.
Upload data to S Use the Neptune loader to load from S3 into your Neptune instance.
Q26. You need to create a pub/sub server. Which database do you use?
Neo4j
Cassandra
Redis
MyS#### QL O27 SQL databases and NoSQL are which types of scalable?
Q27. SQL databases and NoSQL are which types of scalable?
horizontally, infinitely
vertically, horizontallyvertically, infinitely
horizontally, vertically Q28. You need to create a scalable database that allows you to query data nodes and
edges efficiently. What do you use?
a relational database

a columnstore database
a document database
✓ a graph database
Q29. You are developing a model for a graph database. Your data will be moved from a
relational database into Neo4j. Which of these transformations apply?
Rows become labels: bales become nodes.
☑ Tables become labels: rows become nodes.
☐ Tables become collections: rows become items.
Rows become collections: tables become items.
Q30. You need to execute a command for MongoDB that does NOT load values from
the .mongorc.js file. What do you do?
Delete the .monorc.js file and restart mongo shell.
Use the mongo shell to create a command withnorc option
Rem all lines in the .mongorc.js file ad restart mongo shell.
Use the mongo shell to create a command withnodedefault option.
Q31. You need to store an unordered collection of name-value pairs with differing data
types in DynamoDB. Which data type should you choose?
✓ map
set
□ list
stack
Q32. Which statement retrieves an item from the MusicCollection table in DynamoDB?
aws dynamodb querytable-name MusicCollectionkey file://key.json
aws dynamodb get-itemtable-name MusicCollectionkey file://key.json
aws dynamodb selecttable-name MusicCollectionkey file://key.json
aws dynamodb put-itemtable-name MusicCollectionkey file://key.json
Q33. Database availability is measured by which metric?
the amount of service calls
the number of minutes
the amount of service costs
the number of nines
Q34. You need to encrypt data at rest in DynamoDB. Which action do you take?
You assign a default AWS encryption key to your table to encrypt data.
You create an AWS encryption key and assign it to your table to encrypt data.
None. Data is encrypted by default.
You create an AWS encryption key and assign it to your database to encrypt data.
Q35. You need to generate a unique, sequential identifier for each value stored in a Redis
cluster. What do you do?
Implement a SortedSet object to generate a value.
Use the GUID keyword to generate a value.
Implement a List object to generate a value.
Use the INCR keyword to generate a value

Q36. You want to return a list of all elements in two Redis sets. Which keyword do you
use?
smembers
returnall
sunion
sismember
Q37. Which method shows you whether MongoDB uses any indexes when running a
query, and how the indexes are used?
detailQueryExecution()
showPlan()
explain()
describe() O29 Which statement accurately describes global secondary indexes in Dynama DP2
 Q38. Which statement accurately describes global secondary indexes in DynamoDB? The global secondary indexes in DynamoDB are consistent, and are not guaranteed to return correct results.
The global secondary indexes in DynamoDB are transactionally consistent, and are guaranteed to return correct results.
 The global secondary indexes in DynamoDB are partially consistent, and are not guaranteed to return correct results.
The global secondary indexes in DynamoDB are eventually consistent, and are not guaranteed to return correct results.
reference link:
Q39. Which command do you use to add a value to a Redis stream named mystream?
ADD mystream * sensor-id 1234 temperature 19.8 1518951480106-1
☐ UPDATE mystream * sensor-id 1234 temperature 19.8 1518951480106-3
✓ XADD mystream * sensor-id 1234 temperature 9.8 1518951480106-0
■ INSERT mystream * sensor-d 1234 temperature 19.8 15181480106-2
Q40. Which code example completes this statement and creates an index for a
MongoDB object named restaurants, sorted ascending by the field name?
<pre>var indexCollection = function(db) {return co(function*() {});};</pre>
<pre>const results = yield db.table('restaurants').createIndex({"name": 1}, null); return results;</pre>
<pre>const results = yield db.collection('restaurants').createIndex({"name": 0}, null); return results;</pre>
<pre>const results = yield db.collection('restaurants').createIndex({"name": 1}, null); return results;</pre>
<pre>const results = yield db.table('restaurants').createIndex({"name": 0}, null); return results;</pre>
Q41. Which Cypher code executes the multiquery block?

MATCH (c:Company {name: 'Neo4j'}) RETURN c, MATCH (p:Person) WHERE p.name = 'Jenr	-C
MATCH (t:Technology)-[:LIKES]-(a:Person {name: 'Jennifer'}) RETURN t.type;	C
←	
✓ B	
MATCH (c:Company {name: 'Neo4j'}) RETURN c, MATCH (p:Person) WHERE p.name = 'Jenr	Q
MATCH (t:Technology)-[:LIKES]-(a:Person {name: 'Jennifer'}) RETURN t.type	٦
MATCH (- Company (- company) No. 4 1 1 2 2 PETHEN OF AND MATCH (- company) HIVERE (- company)	
MATCH (c:Company {name: 'Neo4j'}) RETURN c AND MATCH (p:Person) WHERE p.name = 'I	ſĠ
AND MATCH (t:Technology)-[:LIKES]-(a:Person {name: 'Jennifer'}) RETURN t.type;	
\bigcap D	
MATCH (c:Company {name: 'Neo4j'}) RETURN c;MATCH (p:Person) WHERE p.name = 'Jenni	
MATCH (t:Technology)-[:LIKES]-(a:Person {name: 'Jennifer'}) RETURN t.type;	O
[Explanation:]The correct Cypher code to execute a multiquery block would use comma	s to
separate each query in a single statement. In this case, option B has all the queries	
separated by commas, making it the correct choice. Option A has the correct queries, b	ut
they are separated by "RETURN" which is not correct syntax for multiquery. Option C ha	
additional "AND" before the second query which is also not correct syntax. Option D ha	
each query separated by semicolons, which would execute them as separate queries, no	
a multiquery block.	Jt us
Q42. You need to create a scalable database that supports immutable writes. What d	0
you use?	•
✓ A ledger database	
A graph database	
A key-value database	
A columnstore database	
Q43. You need to create a data store for the catalog for your new ecommerce	
application. Your company is a startup, so the catalog schema may evolve. Which do	VOLL
choose?	you
□ Neo4j	
Redis	
MySQL Manage DB	
MongoDB O44 You need to coloct a NaSOL database for beauty aggregate given your kloods. Wh	ai ab
Q44. You need to select a NoSQL database for heavy aggregate query workloads. What was do you choose?	IICH
type do you choose?	
graph	
key-value	
document	
Q45. You need to select a columnstore database that enforce built-in data types. You	
want to add indexes to improve performance for known workloads. Which do you	
choose?	

Cassandra
☐ Bigtable
✓ Redis
HBase
Q46. In DynamoDB, the partition key and sort key are also known as which type of
attributes?
range, hash
primary, range
hash, range
range, secondary
Q47. What is a popular, open-source key-value store database?
■ MongoDB
Redis
■ MySQL
□ Cassandra
Q48. You need to create a scalable database to store and query JSON data. What do you
use?
a relational database
a document database
a graph database
a ledger database
Q49. Which command gets all documents in a MongoDB datastore where the status
equals A or the quantity is less than 30?
db.inventory.find({ status: "a", qty: { \$lt: 30 } })
db.inventory.find({ \$or: [{ status: "A" }, { qty: { \$lt: 30 } }] })
db.inventory.find({ status: "A", qty: { \$lt: 30 } })
db.inventory.find({ \$or: [{ status: "a" }, { qty: { \$lt: 30 } }] })
store and query JSON
Q50. Benefit of using NoSQL database?
Strict data modeling
Limited scalability
Easy schema evolution
 Limited data storage capacity
[Explanation:]One of the benefits of using NoSQL databases is easy schema evolution.
NoSQL databases are designed to handle flexible data models, which can be easily
modified and updated as the data evolves. This makes it easier to handle changing.
Q51. NoSQL databases are most often referred to as?
Relational
Distributed
Object-oriented
□ Network

[Explanation:]Since this non-relational database design does not require a schema, it offers rapid scalability to manage large and typically unstructured data sets. NoSQL is also type of distributed database, which means that information is copied and stored on various servers, which can be remote or local.