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IBM CAD201EN
Introduction to Cloud Native, DevOps, Agile, and NoSQL

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Module 4 - Graded Quiz

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Graded Quiz due Dec 20, 2023 09:58 IST   Completed

Question 1

1.0/1.0 point (graded)
What is the main benefit of using NoSQL databases?

- ○ They are better suited for small-scale data

- ○ They are more specialized in their use cases

- ○ They are more complex to develop application functionality for

- ● They can handle large-scale data and concurrent users

✔

Answer
Correct:
NoSQL databases offer a significant advantage in managing vast amounts of data and concurrent users, making them vital for modern applications that require real-time processing and analysis of extensive data sets.

Submit   You have used 1 of 2 attempts

Question 2

1.0/1.0 point (graded)
What led to the development of new scalable technologies in the late'90s and early 2000s?

- ○ The need for faster data processing on local networks

- ○ The desire to improve data security in applications

- ○ The rise of cloud computing

- ● The need to serve millions of users on the public internet

✔

Answer
Correct:
During the dotcom boom, internet applications and companies needed to serve millions of users on the public internet. This led to a need for new scalable technologies to handle the increased demand for availability and performance.

Submit   You have used 1 of 2 attempts

Question 3

1.0/1.0 point (graded)
How does MongoDB provide high availability?

- ○ By restricting the amount of data that can be stored

- ○ By requiring a predefined schema

- ○ By only allowing horizontal scaling

- ● By keeping multiple copies of your data

✓

Answer
Correct:
MongoDB provides high availability by keeping multiple copies of your data, allowing for failover and replication.

[Submit]   You have used 1 of 2 attempts

Question 4

1.0/1.0 point (graded)
What advantage does MongoDB offer over traditional relational databases?

- ○ MongoDB only supports one type of data

- ○ MongoDB does not support sub-documents

- ○ MongoDB requires a predefined schema before data can be stored

- ● MongoDB allows for more flexibility in storing structured and unstructured data

✓

Answer
Correct:
MongoDB allows more flexibility in storing structured and unstructured data than traditional relational databases, which require a predefined schema before data can be stored.

[Submit]   You have used 1 of 2 attempts

Question 5

1.0/1.0 point (graded)
What is the key benefit of MongoDB's evolving schema?

- ○ It requires using third-party frameworks for additional information

- ○ It requires changing the database structure

- ○ It limits the types of data that can be stored

- ● It allows for easy adaptation to new data requirements

✓

Answer
Correct:
MongoDB's evolving schema allows for easy adaptation to new data requirements, making it more flexible than traditional relational databases that require changing the database structure.

[Submit]   You have used 1 of 2 attempts

Question 6

1.0/1.0 point (graded)
What is the key benefit of MongoDB's querying and analytics capabilities?

- ○ It doesn't support Aggregation pipelines

- ○ It requires writing complex SQL queries

○ It requires writing complex SQL queries

○ It limits the complexity of queries that can be built

◉ It uses MongoDB Query Language (MQL) to build complex queries

✓

Answer
Correct:
MQL allows for building complex queries to find data, and if queries are even more complex, Aggregation pipelines within MongoDB can be used.

| Submit | You have used 1 of 2 attempts |

Question 7

1.0/1.0 point (graded)
Why is MongoDB a good fit for real-time analytics?

○ It cannot respond to changes happening minute by minute

○ It requires complex ETL processes

○ It can only handle structured data

◉ It can perform analysis where the data is stored

✓

Answer
Correct:
MongoDB is a good fit for real-time analytics because it can perform analysis where the data is stored.

| Submit | You have used 1 of 2 attempts |

Question 8

1.0/1.0 point (graded)
What is one of the benefits of using MongoDB in the finance industry?

○ It requires complex Extract, Transform, and Load (ETL) processes

○ It does not provide encryption for stored data

○ It cannot store data from distributed IoT devices

◉ It can perform thousands of operations on the database per second and is highly reliable

✓

Answer
Correct:
MongoDB can perform thousands of operations on the database per second, making it a good choice for financial institutions that require fast and reliable access to data.

| Submit | You have used 1 of 2 attempts |

Question 9

1.0/1.0 point (graded)
What is the purpose of the Mongo shell?

○ To perform CRUD operations on MySQL databases

○ To connect to your email account and send emails

○ To create documents and collections for your database

● To interact with your databases and perform data and administrative operations on MongoDB

✓

Answer
Correct:
The Mongo shell is a command line tool provided by MongoDB to interact with your databases and perform data and administrative operations on MongoDB.

Submit   You have used 1 of 2 attempts

Question 10

1.0/1.0 point (graded)
Which function can be used to delete more than one document meeting the criteria?

○ removeMany

○ deleteOne

○ removeOne

● deleteMany

✓

Answer
Correct: To delete more than one document meeting the criteria, we use the 'deleteMany' function.

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