

DBMS 6th UNIT MCQ's

1. Which of the following is not a NoSQL database?

- a) SQL Server
- b) MongoDB
- c) Cassandra
- d) None of the mentioned

2. Point out the correct statement.

- a) Documents can contain many different key-value pairs, or key-array pairs, or even nested documents
- b) MongoDB has official drivers for a variety of popular programming languages and development environments
- c) When compared to relational databases, NoSQL databases are more scalable and provide superior performance
- d) All of the mentioned

3. Which of the following is a NoSQL Database Type?

- a) SQL
- b) Document databases
- c) JSON
- d) All of the mentioned

4. Which of the following is a wide-column store?

- a) Cassandra
- b) Riak
- c) MongoDB
- d) Redis

5. Point out the wrong statement.

- a) Non Relational databases require that schemas be defined before you can add data
- b) NoSQL databases are built to allow the insertion of data without a predefined schema
- c) NewSQL databases are built to allow the insertion of data without a predefined schema
- d) All of the mentioned

6. "Sharding" a database across many server instances can be achieved with _____

- a) LAN
- b) SAN

- c) MAN
- d) All of the mentioned

7. Most NoSQL databases support automatic _____ meaning that you get high availability and disaster recovery.

- a) processing
- b) scalability
- c) replication
- d) all of the mentioned

8. Which of the following are the simplest NoSQL databases?

- a) Key-value
- b) Wide-column
- c) Document
- d) All of the mentioned

9. _____ stores are used to store information about networks, such as social connections.

- a) Key-value
- b) Wide-column
- c) Document
- d) Graph

10. NoSQL databases is used mainly for handling large volumes of _____ data.

- a) unstructured
- b) structured
- c) semi-structured
- d) all of the mentioned

11. Following represent column in NoSQL _____.

- a) Database
- b) Field
- c) Document
- d) Collection

12. What is the aim of NoSQL?

- a) NoSQL provides an alternative to SQL databases to store textual data.
- b) NoSQL databases allow storing non-structured data.
- c) NoSQL is not suitable for storing structured data.

d) NoSQL is a new data format to store large datasets.

13. _____ is a online NoSQL developed by Cloudera.

a) HCatalog

b) Hbase

c) Imphala

d) Oozie

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22. Which of the following language is MongoDB written in?

- a) Javascript
- b) C
- c) C++
- d) All of the mentioned

23. Point out the correct statement.

- a) MongoDB is classified as a NoSQL database
- b) MongoDB favors XML format more than JSON

- c) MongoDB is column-oriented database store
- d) All of the mentioned

24. Which of the following format is supported by MongoDB?

- a) SQL
- b) XML
- c) BSON
- d) All of the mentioned

25. NoSQL was designed with security in mind, so developers or security teams don't need to worry about implementing a security layer. Is it true or false?

- a) True
- b) False

26. Which of the following is not a reason NoSQL has become a popular solution for some organizations?

- a) Better scalability
- b) Improved ability to keep data consistent
- c) Faster access to data than relational database management systems (RDBMS)
- d) More easily allows for data to be held across multiple servers

27. NoSQL prohibits structured query language (SQL). Is it True or False?

- a) True
- b) False

28. When is it best to use a NoSQL database?

- a) When providing confidentiality, integrity, and availability is crucial
- b) When the data is predictable
- c) When the retrieval of large quantities of data is needed
- d) When the retrieval speed of data is not critical

29. Which of the following companies developed NoSQL database Apache Cassandra?

- a) LinkedIn
- b) Twitter

- c) MySpace
- d) Facebook

30.NoSQL databases are most often referred to as:

- a) Relational
- b) Distributed
- c) Object-oriented
- d) Network

31.SQL databases are:

- (A) Horizontally scalable
- (B) Vertically scalable
- (C) Either horizontally or vertically scalable
- (D) They don't scale

32.Which of the following is not an example of a NoSQL database?

- (A) CouchDB
- (B) MongoDB
- (C) HBase
- (D) PostgreSQL

33.Which of the following is a reason to use an SQL database?

- (A) It can easily store unstructured data.
- (B) It's ACID-compliant.
- (C) It can enable development in the cloud.
- (D) All of the above

34.Which of the following is a characteristic of a NoSQL database?

- (A) Uses tables for storage
- (B) Needs a schema
- (C) Requires JOINS
- (D) Uses JSON

35. Which of the following is a primary classification for NoSQL architectures?

- (A) Document databases
- (B) Graph databases
- (C) Key-value databases
- (D) All of the above

36. SQL command types include data manipulation language (DML) and data definition language (DDL).

- (A) True
- (B) False

37. _____ systems are scale-out file-based (HDD) systems moving to more uses of memory in the nodes.

- (A) NoSQL
- (B) NewSQL
- (C) SQL
- (D) All of the mentioned

38. Point out the correct statement.

- (A) Hadoop is ideal for the analytical, post-operational, data-warehouse-ish type of workload
- (B) HDFS runs on a small cluster of commodity-class nodes
- (C) NEWSQL is frequently the collection point for big data
- (D) None of the mentioned

39. Which is an advantage of NewSQL?

- (A) Less complex applications, greater consistency.
- (B) Convenient standard tooling.
- (C) SQL influenced extensions.
- (D) All of the mentioned

40. Point out the correct statement.

- a) MongoDB is classified as a NoSQL database
- b) MongoDB favors XML format more than JSON
- c) MongoDB is column-oriented database store

d) All of the mentioned

41. NoSQL was designed with security in mind, so developers or security teams don't need to worry about implementing a security layer. Is it true or false?

(A) True

(B) False

Answer's :

1. A- SQL Serve
2. D- All of the mentioned
3. B- Document databases
4. A- Cassandra
5. A- Non Relational databases require that schemas be defined before you can add data
6. B- SAN
7. C- replication
8. A- Key-value
9. D- Graph
10. A- unstructured
11. B- Field
12. D- NoSQL is a new data format to store large datasets
13. B- Hbase
14. A- SQL Server
15. B- Document databases
16. A- Cassandra
17. B- SAN
18. C- replication
19. A- Key-value
20. D- Graph
21. A- unstructured
22. D- All of the mentioned
23. A- MongoDB is classified as a NoSQL database
24. C- BSON
25. B- False
26. B- Improved ability to keep data consistent
27. B- False
28. C- When the retrieval of large quantities of data is needed
29. D- Facebook
30. B- Distributed
31. B- Vertically scalable
32. D- PostgreSQL
33. B- It's ACID-compliant
34. D- Uses JSON
35. D- All of the above

- 36. A- True
- 37. A- NoSQL
- 38. A- Hadoop is ideal for the analytical, post-operational, data-warehouse-ish type of workload
- 39. D- All of the mentioned
- 40. A- MongoDB is classified as a NoSQL database
- 41. B- False

42. According to analysts, for what can traditional IT systems provide a foundation when they're integrated with big data technologies like Hadoop?

- (A) Big data management and data mining
- (B) Data warehousing and business intelligence
- (C) Management of Hadoop clusters
- (D) Collecting and storing unstructured data

Answer: A

43. What are the main components of Big Data?

- (A) MapReduce
- (B) HDFS
- (C) YARN
- (D) All of these

Answer: D

44. What are the different features of Big Data Analytics?

- (A) Open-Source
- (B) Scalability
- (C) Data Recovery
- (D) All the above

Answer: D

45. Which one of the following is false about Hadoop?

- (A) It is a distributed framework
- (B) The main algorithm used in it is Map Reduce
- (C) It runs with commodity hardware

(D) All are true

Answer: D

46. What license is Apache Hadoop distributed under?

(A) Apache License 2.0

(B) Shareware

(C) Mozilla Public License

(D) Commercial

Answer: A

47. Which of the following platforms does Apache Hadoop run on ?

(A) Bare metal

(B) Unix-like

(C) Cross-platform

(D) Debian

Answer: C

48. Apache Hadoop achieves reliability by replicating the data across multiple hosts and hence does not require _____ storage on hosts.

(A) Standard RAID levels

(B) RAID

(C) ZFS

(D) Operating system

Answer: B

49. Hadoop works in

(A) master-worker fashion

(B) master – slave fashion

(C) worker/slave fashion

(D) All of the mentioned

Answer:B

50. The input split used in MapReduce indicates

A - The average size of the data blocks used as input for the program

B - The location details of where the first whole record in a block begins and the last whole record in the block ends.

C - Splitting the input data to a MapReduce program into a size already configured in the mapred-site.xml

D - None of these

Answer: B

51.The inter process communication between different nodes in Hadoop uses

A - REST API

B - RPC

C - RMI

D - IP Exchange

Answer: B

52. In HDFS the files cannot be

A - read

B - deleted

C - executed

D - Archived

Answer: C

53.Which technology is used to store data in Hadoop?

A - HBase

B - Avro

C - Sqoop

D - Zookeeper

Answer: A

54. Point out the correct statement.

- a) MapReduce tries to place the data and the compute as close as possible
- b) Map Task in MapReduce is performed using the Mapper() function
- c) Reduce Task in MapReduce is performed using the Map() function
- d) All of the mentioned

Answer:A

55. _____ part of the MapReduce is responsible for processing one or more chunks of data and producing the output results.

- a) Maptask
- b) Mapper
- c) Task execution
- d) All of the mentioned

Answer:A

56.HDFS works in a _____ fashion.

- a) master-worker
- b) master-slave
- c) worker/slave
- d) all of the mentioned

Answer:A

57. Which of the following scenario may not be a good fit for HDFS?

- a) HDFS is not suitable for scenarios requiring multiple/simultaneous writes to the same file
- b) HDFS is suitable for storing data related to applications requiring low latency data access
- c) HDFS is suitable for storing data related to applications requiring low latency data access
- d) None of the mentioned

Answer:A

58.HDFS provides a command line interface called _____ used to interact with HDFS.

- a) "HDFS Shell"

- b) "FS Shell"
- c) "DFS Shell"
- d) None of the mentioned

Answer: B

59. HDFS is implemented in _____ programming language.

- a) C++
- b) Java
- c) Scala
- d) None of the mentioned

Answer: B

60. Hadoop is a framework that works with a variety of related tools. Common cohorts include _____

- a) MapReduce, Hive and HBase
- b) MapReduce, MySQL and Google Apps
- c) MapReduce, Hummer and Iguana
- d) MapReduce, Heron and Trumpet

Answer: A

61. What was Hadoop named after?

- a) Creator Doug Cutting's favorite circus act
- b) Cutting's high school rock band
- c) The toy elephant of Cutting's son
- d) A sound Cutting's laptop made during Hadoop development

Answer: C

62. All of the following accurately describe Hadoop, EXCEPT _____

- a) Open-source
- b) Real-time
- c) Java-based
- d) Distributed computing approach

Answer: B

63. _____ command is used to interact and view Job Queue information in HDFS.

- a) queue
- b) priority
- c) dist
- d) all of the mentioned

Answer:A

64. Which of the following command runs the HDFS secondary namenode?

- a) secondary namenode
- b) secondary namenode
- c) secondary namenode
- d) none of the mentioned

Answer: B

65. Which of the following is used for the MapReduce job Tracker node?

- a) mradmin
- b) tasktracker
- c) jobtracker
- d) none of the mentioned

Answer: C

66. As compared to RDBMS, Apache Hadoop

- (A) Has higher data Integrity
- (B) Does ACID transactions
- (C) Is suitable for read and write many times
- (D) Works better on unstructured and semi-structured data.

Answer: D

67. Which of the following are Built-In Counters in Hadoop?

- (A) FileSystem Counters
- (B) FileInputFormat Counters
- (C) FileOutputFormat counters
- (D) All of the above

Answer: D

68. Which of the following is not an output format in Hadoop?

- (A) TextoutputFormat
- (B) ByteoutputFormat
- (C) SequenceFileOutputFormat
- (D) DBOutputFormat

Answer: B

69. The Hadoop MapReduce framework spawns one map task for each _____ generated by the InputFormat for the job.

- (A) OutputSplit
- (B) InputSplit
- (C) InputSplitStream
- (D) All of the mentioned

Answer: B

70. _____ part of the MapReduce is responsible for processing one or more chunks of data and producing the output results.

- (A) Maptask
- (B) Mapper
- (C) Task execution
- (D) All of the mentioned

Answer: A