

Week 1

Introduction to Big Data Quiz

1. Which of the following does not belong to traditional database technology?
 - a. RDBMS
 - b. DBMS
 - c. Flat Files
 - d. NOSQL

Answer: d

2. If a big data analyst were to analyze data from a database of call logs provided by a telecom service provider, which element of big data would he be dealing with?
 - a. Volume
 - b. Variety
 - c. Velocity
 - d. All of the above

Answer: d

3. Some people call this data as “structured but not relational” . Which data are we talking now?
 - a. Structured Data
 - b. Unstructured Data
 - c. Semi structured Data
 - d. Mixed Data

Answer: c

4. You have a database of size 500 GB and the size of the database did not drastically increase over a 6 month period and even the forecast does not indicate a dramatic increase in size in the future. This is a Big Data problem and it is best to convert this database (and its dependencies/jobs etc.) in to a Hadoop based solution.
 - a. True
 - b. False

Answer: False

5. Scenario: Due to increase in the data volume you are asked to re-engineer an online shopping website which is currently using MySQL database server as it backend. The website fetches the data from the database and also insert/delete records in the database. Users should not see a performance degradation after the re-engineering effort. Your Approach: Since Hadoop is a batch and not an interactive solution it is best to choose a NoSQL database solution.
 - A. True
 - B. False

Answer : True

6. Scenario: You have an ETL job in Oracle that takes 2 hours to complete. Business users are requesting you to bring down the execution time of the job to 1 hour. Best Approach: It is recommended to add additional servers to solve this problem?
- True
 - False

Answer: False

7. What is spurious correlation?
- Correlation that occurs because of poor data
 - Correlation that occurs because of poor analysis
 - Correlation that is not really present but seems to appear so because of hidden variables
 - Correlation that is not really present but seems to appear because of fault in the system

Answer: c

8. In Big Data, What is a Model?
- A human construct that helps understand data
 - A human construct that helps understand real world problem
 - A human construct that helps understand big data generated by humans
 - A machine construct that helps understand data.

Answer: b

9. In the Peter Norvig video, he says that machine translation is an example where domain knowledge is not needed because
- Machine translations are based upon a probabilistic model of language which does not include any linguistic language
 - Domain knowledge is not really needed to understand a passage
 - Good translations are possible without use of domain knowledge
 - Semantics of words need to be input to create a good machine translation

Answer: a

10. You have to analyze data of players using input from commentary, but you see that the same player's name are often expressed in different ways. For example, Virat Kohli, V Kohli, Virat are often found in the commentary and refer to the same person. In terms of Big Data, this is an example of?
- Veracity, since not all the data was in the same format.
 - Veracity, since the data was unstructured
 - Variety, since sometimes the data had a comma and sometimes it did not
 - Volume, since the number of stadiums is very large.

Answer: c

11. The difference between old-style data and new style data is that
- New style data has a schema while old style data has no schema
 - New style data is generated by humans, old style by machine

- c. New style data has no schema while old style data has schema
- d. New style data may be structures, unstructured or semi structured while old style data is only structured.

Answer: d