

Dell EMC

D-DS-FN-23

Dell Technologies Data Scientist and Big Data Analytics Foundations 2023



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Question: 1

Before you build an ARMA model, how can you tell if your time series is weakly stationary?

Response:

- A. There appears to be a constant variance around a constant mean.
- B. The mean of the series is close to 0.
- C. The series is normally distributed.
- D. There appears to be no apparent trend component.

Answer: A

Question: 2

You have two tables of customers in your database. Customers in cust_table_1 were sent an e-mail promotion last year, and customers in cust_table_2 received a newsletter last year.

Customers can only be entered in once per table. You want to create a table that includes all customers, and any of the communications they received last year. Which type of join would you use for this table?

Response:

- A. Full outer join
- B. Inner join
- C. Left outer join
- D. Cross join

Answer: A

Question: 3

Your colleague, who is new to Hadoop, approaches you with a question. They want to know how best to access their data

- a. This colleague has a strong background in data flow languages and programming.

Which query interface would you recommend?

Response:

- A. Pig
- B. Hive
- C. Hwi
- D. HBase

Answer: A

Question: 4

What is Hadoop?

Response:

- A. Java classes for HDFS types and Map Reduce job management and HDFS
- B. Java classes for HDFS types and Map Reduce job management and the Map Reduce paradigm
- C. Map Reduce paradigm and HDFS
- D. Map Reduce paradigm and massive unstructured data storage on commodity hardware

Answer: A

Question: 5

How does Pig's use of a schema differ from that of a traditional RDBMS?

Response:

- A. Pig's schema is optional
- B. Pig's schema requires that the data is physically present when the schema is defined
- C. Pig's schema is required for ETL
- D. Pig's schema supports a single data type

Answer: A

Question: 6

Your organization has a website where visitors randomly receive one of two coupons. It is also possible that visitors to the website will not receive a coupon.

You have been asked to determine if offering a coupon to visitors to your website has any impact on their purchase decision. Which analysis method should you use?

Response:

- A. K-means clustering
- B. Association rules
- C. Student T-test
- D. One-way ANOVA

Answer: D

Question: 7

In the Map Reduce framework, what is the purpose of the Reduce function?

Response:

- A. It aggregates the results of the Map function and generates processed output
- B. It distributes the input to multiple nodes for processing
- C. It writes the output of the Map function to storage
- D. It breaks the input into smaller components and distributes to other nodes in the cluster

Answer: A

Question: 8

How are window functions different from regular aggregate functions?

Response:

- A. Rows retain their separate identities and the window function can access more than the current row.
- B. Rows are grouped into an output row and the window function can access more than the current row.
- C. Rows retain their separate identities and the window function can only access the current row.
- D. Rows are grouped into an output row and the window function can only access the current row.

Answer: A

Question: 9

What is the primary function of the NameNode in Hadoop?

Response:

- A. Keeps track of which MapReduce jobs have been assigned to each TaskTracker
- B. Monitors the state of each JobTracker node and signals an event if unavailable
- C. Runs some number of mapping tasks against its assigned data
- D. Acts as a regulator/resolver among clients and DataNodes

Answer: D

Question: 10

What activities occur during the discovery phase of the data analytics lifecycle?

Response:

- A. Deploy and monitor model performance
- B. Build training and test datasets
- C. Interview project sponsor and stakeholders
- D. Perform ETL and data exploration

Answer: C

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