Dell EMC
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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 dat
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. Howl
D. HBase

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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