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Databricks-Certified-Associate-Developer-for-Apache-Spark-3.0

Apache Spark Associate Developer

Questions & Answers

(Demo Version - Limited Content)

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Version: 8.0

Question: 1

If spark is running in client mode, which of the following statement about is correct ?

- A. Spark driver is attributed to the machine that has the most resources
- B. Spark driver is randomly attributed to a machine in the cluster
- C. The entire spark application is run on a single machine
- D. Spark driver remainse on the client machine that submitted the application.

Answer: D

Explanation:

Client mode is nearly the same as cluster mode except that the Spark driver remains on the clientmachine that submitted the application.

Question: 2

Which of the following code blocks reads from a csv file where values are separated with ';' ?

- A. `spark.read.format("csv").option("header", "true").option("inferSchema", "true").option("sep", ";").load(file)`
- B. `spark.load.format("csv").option("header", "true").option("inferSchema", "true").read(file)`
- C. `spark.read.format("csv").option("header", "true").option("inferSchema", "true").load(file)`
- D. `spark.read.format("csv").option("header", "true").option("inferSchema", "true").option("sep", "true").toDf(file)`

Answer: A

Explanation:

Correct syntax is;

```
spark.read.format("csv").option("header", "true").option("inferSchema", "true").option("sep", ";").load(file)
```

Get familiar with the syntax of reading and writing from/to files. You will be tested on this in yourexam.

Question: 3

Which of the following code blocks returns a DataFrame with a new column aSquared and allpreviously existing columns from DataFrame df given that df has a column named a ?

- A. `df.withColumn("aSquared", col(a) * col(a))`
- B. `df.withColumn(col("a") * col("a"), "aSquared")`
- C. `df.withColumn(aSquared, col(a) * col(a))`
- D. `df.withColumn(aSquared, col("a") * col("a"))`
- E. `df.withColumn("aSquared", col("a") * col("a"))`

Answer: E

Explanation:

You will have such questions in the exam, be careful while reading the responses.

Question: 4

If we want to create a constant integer 1 as a new column 'new_column' in a dataframe df, which code block we should select ?

A. `df.withColumn(new_column, lit(1))`
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- B. `df.withColumn("new_column", lit("1"))`
- C. `df.withColumnRenamed('new_column', lit(1))`
- D. `df.withColumn("new_column", 1)`
- E. `df.withColumn("new_column", lit(1))`

Answer: E

Explanation:

The second argument for `DataFrame.withColumn` should be a `Column` so you have to use a literal to add constant value 1:

Question: 5

Which of the following code blocks returns a DataFrame with two new columns 'a' and 'b' from the existing column 'aSquared' where the values of 'a' and 'b' is half of the column 'aSquared' ?

- A. `df.withColumn("aSquared" / 2, col(a)).withColumn("aSquared" / 2, col(b))`
- B. `df.withColumn(aSquared/2, col(a)).withColumn(aSquared / 2, col(b))`
- C. `df.withColumn(aSquared, col(a) * col(a))`
- D. `df.withColumn("aSquared" / 2, col("a")).withColumn("aSquared" / 2, col("b"))`
- E. `df.withColumn("a", col("aSquared")/2).withColumn("b", col("aSquared")/2)`

Answer: E

Explanation:

Familiarize yourself with the syntax of `withColumn` and `withColumnRenamed`.

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