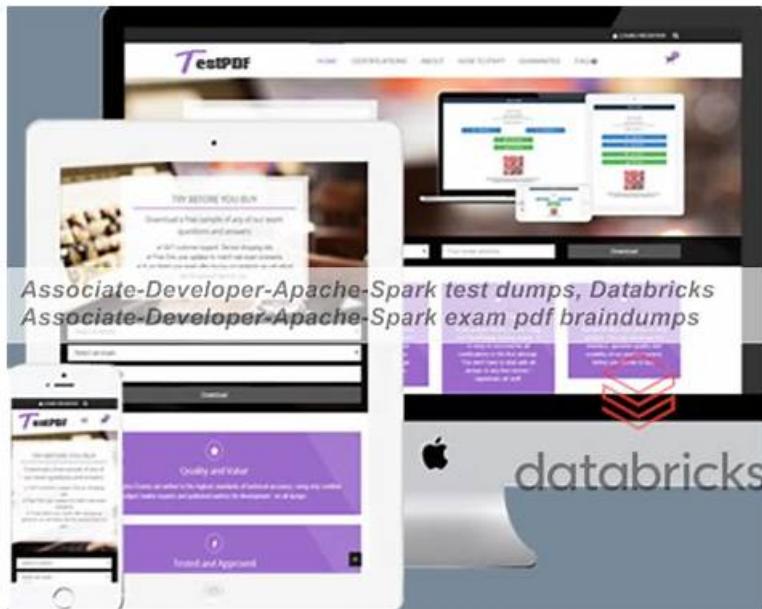


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Databricks Certified Associate Developer for Apache Spark 3.0 Exam Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which of the following statements about RDDs is incorrect?

- A. RDDs are great for precisely instructing Spark on how to do a query.
- B. An RDD consists of a single partition.
- C. RDD stands for Resilient Distributed Dataset.
- D. RDDs are immutable.
- E. The high-level DataFrame API is built on top of the low-level RDD API.

Answer: B

Explanation:

Explanation

An RDD consists of a single partition.

Quite the opposite: Spark partitions RDDs and distributes the partitions across multiple nodes.

NEW QUESTION # 52

Which of the following describes characteristics of the Spark driver?

- A. In a non-interactive Spark application, the Spark driver automatically creates the SparkSession object.
- B. The Spark driver processes partitions in an optimized, distributed fashion.
- C. If set in the Spark configuration, Spark scales the Spark driver horizontally to improve parallel processing performance.
- D. The Spark driver's responsibility includes scheduling queries for execution on worker nodes.
- E. The Spark driver requests the transformation of operations into DAG computations from the worker nodes.

Answer: A

Explanation:

Explanation

The Spark driver requests the transformation of operations into DAG computations from the worker nodes.

No, the Spark driver transforms operations into DAG computations itself.

If set in the Spark configuration, Spark scales the Spark driver horizontally to improve parallel processing performance.

No. There is always a single driver per application, but one or more executors.

The Spark driver processes partitions in an optimized, distributed fashion.

No, this is what executors do.

In a non-interactive Spark application, the Spark driver automatically creates the SparkSession object.

Wrong. In a non-interactive Spark application, you need to create the SparkSession object. In an interactive Spark shell, the Spark driver instantiates the object for you.

NEW QUESTION # 53

Which of the following code blocks silently writes DataFrame `itemsDf` in avro format to location `fileLocation` if a file does not yet exist at that location?

- A. `itemsDf.write.avro(fileLocation)`
- B. `itemsDf.write.format("avro").mode("ignore").save(fileLocation)`
- C. `itemsDf.write.format("avro").mode("errorIfExists").save(fileLocation)`
- D. `itemsDf.save.format("avro").mode("ignore").write(fileLocation)`
- E. `spark.DataFrameWriter(itemsDf).format("avro").write(fileLocation)`

Answer: A

Explanation:

Explanation

The trick in this question is knowing the "modes" of the `DataFrameWriter`. Mode `ignore` will ignore if a file already exists and not replace that file, but also not throw an error. Mode `errorIfExists` will throw an error, and is the default mode of the `DataFrameWriter`.

The question NO:

explicitly calls for the DataFrame to be "silently" written if it does not exist, so you need to specify `mode("ignore")` here to avoid having Spark communicate any error to you if the file already exists.

The 'overwrite' mode would not be right here, since, although it would be silent, it would overwrite the already-existing file. This is not what the question asks for.

It is worth noting that the option starting with `spark.DataFrameWriter(itemsDf)` cannot work, since `spark` references the `SparkSession` object, but that object does not provide the `DataFrameWriter`.

As you can see in the documentation (below), `DataFrameWriter` is part of PySpark's SQL API, but not of its `SparkSession` API.

More info:

`DataFrameWriter: pyspark.sql.DataFrameWriter.save` - PySpark 3.1.1 documentation
`SparkSession API: Spark SQL - PySpark 3.1.1 documentation`
`Static notebook | Dynamic notebook: See test 1`

NEW QUESTION # 54

Which of the following statements about lazy evaluation is incorrect?

- A. Lineages allow Spark to coalesce transformations into stages
- B. **Execution is triggered by transformations.**
- C. Spark will fail a job only during execution, but not during definition.
- D. Accumulators do not change the lazy evaluation model of Spark.
- E. Predicate pushdown is a feature resulting from lazy evaluation.

Answer: B

Explanation:

Explanation

Execution is triggered by transformations.

Correct. Execution is triggered by actions only, not by transformations.

Lineages allow Spark to coalesce transformations into stages.

Incorrect. In Spark, lineage means a recording of transformations. This lineage enables lazy evaluation in Spark.

Predicate pushdown is a feature resulting from lazy evaluation.

Wrong. Predicate pushdown means that, for example, Spark will execute filters as early in the process as possible so that it deals with the least possible amount of data in subsequent transformations, resulting in a performance improvements.

Accumulators do not change the lazy evaluation model of Spark.

Incorrect. In Spark, accumulators are only updated when the query that refers to the is actually executed. In other words, they are not updated if the query is not (yet) executed due to lazy evaluation.

Spark will fail a job only during execution, but not during definition.

Wrong. During definition, due to lazy evaluation, the job is not executed and thus certain errors, for example reading from a non-existing file, cannot be caught. To be caught, the job needs to be executed, for example through an action.

NEW QUESTION # 55

Which of the following code blocks performs an inner join of DataFrames `transactionsDf` and `itemsDf` on columns `productId` and `itemId`, respectively, excluding columns `value` and `storeId` from DataFrame `transactionsDf` and column `attributes` from DataFrame `itemsDf`?

- A. 1.transactionsDf.createOrReplaceTempView('transactionsDf')
2.itemsDf.createOrReplaceTempView('itemsDf')
3.
4.**statement = """**
5.**SELECT * FROM transactionsDf**
6.**INNER JOIN itemsDf**
7.**ON transactionsDf.productId==itemsDf.itemId**
8.**"""**
9.**spark.sql(statement).drop("value", "storeId", "attributes")**
- B. transactionsDf.drop("value", "storeId").join(itemsDf.drop("attributes"), "transactionsDf.productId==itemsDf.itemId")
- C. 1.transactionsDf.createOrReplaceTempView('transactionsDf')
2.itemsDf.createOrReplaceTempView('itemsDf')
3.
4.spark.sql("SELECT -value, -storeId FROM transactionsDf INNER JOIN itemsDf ON productId==itemId").drop("attributes")
- D. 1.transactionsDf\
2. .drop(col('value'), col('storeId')) \
3. .join(itemsDf.drop(col('attributes')), col('productId')==col('itemId'))
- E. transactionsDf.drop("value", 'storeId').join(itemsDf.select('attributes'), transactionsDf.productId==itemsDf.itemId)

Answer: A

Explanation:

Explanation

This question offers you a wide variety of answers for a seemingly simple question. However, this variety reflects the variety of ways that one can express a join in PySpark. You need to understand some SQL syntax to get to the correct answer here.

transactionsDf.createOrReplaceTempView('transactionsDf')

itemsDf.createOrReplaceTempView('itemsDf')

statement = """

SELECT * FROM transactionsDf

INNER JOIN itemsDf

ON transactionsDf.productId==itemsDf.itemId

"""

spark.sql(statement).drop("value", "storeId", "attributes")

Correct - this answer uses SQL correctly to perform the inner join and afterwards drops the unwanted columns. This is totally fine.

If you are unfamiliar with the triple-quote """ in Python: This allows you to express strings as multiple lines.

transactionsDf\
drop(col('value'), col('storeId')) \
join(itemsDf.drop(col('attributes')), col('productId')==col('itemId'))

No, this answer option is a trap, since DataFrame.drop() does not accept a list of Column objects. You could use transactionsDf.drop('value', 'storeId') instead.

transactionsDf.drop("value", "storeId").join(itemsDf.drop("attributes"), "transactionsDf.productId==itemsDf.itemId")

Incorrect - Spark does not evaluate "transactionsDf.productId==itemsDf.itemId" as a valid join expression.

This would work if it would not be a string.

transactionsDf.drop('value', 'storeId').join(itemsDf.select('attributes'), transactionsDf.productId==itemsDf.itemId) Wrong, this statement incorrectly uses itemsDf.select instead of itemsDf.drop.

transactionsDf.createOrReplaceTempView('transactionsDf')

itemsDf.createOrReplaceTempView('itemsDf')

spark.sql("SELECT -value, -storeId FROM transactionsDf INNER JOIN itemsDf ON productId==itemId").drop("attributes") No, here the SQL expression syntax is incorrect. Simply specifying -columnName does not drop a column.

More info: pyspark.sql.DataFrame.join - PySpark 3.1.2 documentation

Static notebook | Dynamic notebook: See test 3

NEW QUESTION # 56

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