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Databricks Certified Associate Developer for Apache Spark 3.0 Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

The code block displayed below contains one or more errors. The code block should load parquet files at location filePath into a DataFrame, only loading those files that have been modified before

2029-03-20 05:44:46. Spark should enforce a schema according to the schema shown below. Find the error.

Schema:

- 1.root
2. |-- itemId: integer (nullable = true)
3. |-- attributes: array (nullable = true)
4. | |-- element: string (containsNull = true)
5. |-- supplier: string (nullable = true)

Code block:

```
1.schema = StructType([
2. StructType("itemId", IntegerType(), True),
3. StructType("attributes", ArrayType(StringType(), True), True),
4. StructType("supplier", StringType(), True)
5.])
6.
7.spark.read.options("modifiedBefore", "2029-03-20T05:44:46").schema(schema).load(filePath)
```

- A. Columns in the schema definition use the wrong object type and the syntax of the call to Spark's DataFrameReader is incorrect.
- B. The data type of the schema is incompatible with the schema() operator and the modification date threshold is specified incorrectly.
- C. Columns in the schema are unable to handle empty values and the modification date threshold is specified incorrectly.
- D. The attributes array is specified incorrectly, Spark cannot identify the file format, and the syntax of the call to Spark's DataFrameReader is incorrect.
- E. Columns in the schema definition use the wrong object type, the modification date threshold is specified incorrectly, and Spark cannot identify the file format.

Answer: E

Explanation:

Explanation

Correct code block:

```
schema = StructType([
StructField("itemId", IntegerType(), True),
StructField("attributes", ArrayType(StringType(), True), True),
StructField("supplier", StringType(), True)
])
```

spark.read.options(modifiedBefore="2029-03-20T05:44:46").schema(schema).parquet(filePath) This question is more difficult than what you would encounter in the exam. In the exam, for this question type, only one error needs to be identified and not "one or multiple" as in the question.

Columns in the schema definition use the wrong object type, the modification date threshold is specified incorrectly, and Spark cannot identify the file format.

Correct! Columns in the schema definition should use the StructField type. Building a schema from pyspark.sql.types, as here using classes like StructType and StructField, is one of multiple ways of expressing a schema in Spark. A StructType always contains a list of StructFields (see documentation linked below). So, nesting StructType and StructType as shown in the question is wrong. The modification date threshold should be specified by a keyword argument like options(modifiedBefore="2029-03-20T05:44:46") and not two consecutive non-keyword arguments as in the original code block (see documentation linked below).

Spark cannot identify the file format correctly, because either it has to be specified by using the DataFrameReader.format(), as an argument to DataFrameReader.load(), or directly by calling, for example, DataFrameReader.parquet().

Columns in the schema are unable to handle empty values and the modification date threshold is specified incorrectly.

No. If StructField would be used for the columns instead of StructType (see above), the third argument specified whether the column is nullable. The original schema shows that columns should be nullable and this is specified correctly by the third argument being True in the schema in the code block.

It is correct, however, that the modification date threshold is specified incorrectly (see above).

The attributes array is specified incorrectly, Spark cannot identify the file format, and the syntax of the call to Spark's DataFrameReader is incorrect.

Wrong. The attributes array is specified correctly, following the syntax for ArrayType (see linked documentation below). That Spark cannot identify the file format is correct, see correct answer above. In addition, the DataFrameReader is called correctly through the SparkSession spark.

Columns in the schema definition use the wrong object type and the syntax of the call to Spark's DataFrameReader is incorrect.

Incorrect, the object types in the schema definition are correct and syntax of the call to Spark's DataFrameReader is correct.

The data type of the schema is incompatible with the schema() operator and the modification date threshold is specified incorrectly.

False. The data type of the schema is StructType and an accepted data type for the DataFrameReader.schema() method. It is correct however that the modification date threshold is specified incorrectly (see correct answer above).

NEW QUESTION # 19

Which of the following describes how Spark achieves fault tolerance?

- A. If an executor on a worker node fails while calculating an RDD, that RDD can be recomputed by another executor using the lineage.
- B. Spark builds a fault-tolerant layer on top of the legacy RDD data system, which by itself is not fault tolerant.
- C. Spark helps fast recovery of data in case of a worker fault by providing the MEMORY_AND_DISK storage level option.
- D. Spark is only fault-tolerant if this feature is specifically enabled via the spark.fault_recovery.enabled property.
- E. Due to the mutability of DataFrames after transformations, Spark reproduces them using observed lineage in case of worker node failure.

Answer: A

Explanation:

Explanation

Due to the mutability of DataFrames after transformations, Spark reproduces them using observed lineage in case of worker node failure.

Wrong - Between transformations, DataFrames are immutable. Given that Spark also records the lineage, Spark can reproduce any DataFrame in case of failure. These two aspects are the key to understanding fault tolerance in Spark.

Spark builds a fault-tolerant layer on top of the legacy RDD data system, which by itself is not fault tolerant.

Wrong. RDD stands for Resilient Distributed Dataset and it is at the core of Spark and not a "legacy system".

It is fault-tolerant by design.

Spark helps fast recovery of data in case of a worker fault by providing the MEMORY_AND_DISK storage level option.

This is not true. For supporting recovery in case of worker failures, Spark provides "_2", "_3", and so on, storage level options, for example MEMORY_AND_DISK_2. These storage levels are specifically designed to keep duplicates of the data on multiple nodes. This saves time in case of a worker fault, since a copy of the data can be used immediately, vs. having to recompute it first.

Spark is only fault-tolerant if this feature is specifically enabled via the spark.fault_recovery.enabled property.

No, Spark is fault-tolerant by design.

NEW QUESTION # 20

Which of the following code blocks returns a 2-column DataFrame that shows the distinct values in column productId and the number of rows with that productId in DataFrame transactionsDf?

- A. transactionsDf.groupBy("productId").agg(col("value").count())
- B. transactionsDf.groupBy("productId").select(count("value"))
- C. transactionsDf.count("productId").distinct()
- D. transactionsDf.groupBy("productId").count()
- E. transactionsDf.count("productId")

Answer: D

Explanation:

Explanation

transactionsDf.groupBy("productId").count()

Correct. This code block first groups DataFrame transactionsDf by column productId and then counts the rows in each group.

transactionsDf.groupBy("productId").select(count("value"))

Incorrect. You cannot call select on a GroupedData object (the output of a groupBy) statement.

transactionsDf.count("productId")

No. DataFrame.count() does not take any arguments.

transactionsDf.count("productId").distinct()

Wrong. Since DataFrame.count() does not take any arguments, this option cannot be right.

transactionsDf.groupBy("productId").agg(col("value").count())

False. A Column object, as returned by col("value"), does not have a count() method. You can see all available methods for Column object linked in the Spark documentation below.

More info: pyspark.sql.DataFrame.count - PySpark 3.1.2 documentation, pyspark.sql.Column - PySpark

3.1.2 documentation

Static notebook | Dynamic notebook: See test 3

NEW QUESTION # 21

The code block shown below should write DataFrame transactionsDf to disk at path csvPath as a single CSV file, using tabs (\t characters) as separators between columns, expressing missing values as string n/a, and omitting a header row with column names. Choose the answer that correctly fills the blanks in the code block to accomplish this.

transactionsDf._1_.write._2_(_3_, "")._4_. _5_(csvPath)

- A. 1. csv
2. option
3. "sep"
4. option("emptyValue", "n/a")
5. path
* 1. repartition(1)
2. mode
3. "sep"
4. mode("nullValue", "n/a")
5. csv
- B. 1. coalesce(1)
2. option
3. "sep"
4. option("header", True)
5. path
- C. 1. repartition(1)
2. option
3. "sep"
4. option("nullValue", "n/a")
5. csv
(Correct)
- D. 1. coalesce(1)
2. option
3. "colsep"
4. option("nullValue", "n/a")
5. path

Answer: C

Explanation:

Explanation

Correct code block:

transactionsDf.repartition(1).write.option("sep", "\t").option("nullValue", "n/a").csv(csvPath) It is important here to understand that the question specifically asks for writing the DataFrame as a single CSV file. This should trigger you to think about partitions. By default, every partition is written as a separate file, so you need to include repartition(1) into your call. coalesce(1) works here, too! Secondly, the question is very much an invitation to search through the parameters in the Spark documentation that work with DataFrameWriter.csv (link below). You will also need to know that you need an option() statement to apply these parameters. The final concern is about the general call structure. Once you have called accessed write of your DataFrame, options follow and then you write the DataFrame with csv. Instead of csv(csvPath), you could also use save(csvPath, format='csv') here. More info: pyspark.sql.DataFrameWriter.csv - PySpark 3.1.1 documentation Static notebook | Dynamic notebook: See test 1

NEW QUESTION # 22

Which of the following describes the characteristics of accumulators?

- A. All accumulators used in a Spark application are listed in the Spark UI.
- B. If an action including an accumulator fails during execution and Spark manages to restart the action and complete it successfully, only the successful attempt will be counted in the accumulator.
- C. Accumulators are immutable.
- D. Accumulators are used to pass around lookup tables across the cluster.
- E. Accumulators can be instantiated directly via the accumulator(n) method of the pyspark.RDD module.

Answer: B

Explanation:

Explanation

If an action including an accumulator fails during execution and Spark manages to restart the action and complete it successfully, only the successful attempt will be counted in the accumulator.

Correct, when Spark tries to rerun a failed action that includes an accumulator, it will only update the accumulator if the action

succeeded.

Accumulators are immutable.

No. Although accumulators behave like write-only variables towards the executors and can only be read by the driver, they are not immutable.

All accumulators used in a Spark application are listed in the Spark UI.

Incorrect. For scala, only named, but not unnamed, accumulators are listed in the Spark UI. For pySpark, no accumulators are listed in the Spark UI - this feature is not yet implemented.

Accumulators are used to pass around lookup tables across the cluster.

Wrong - this is what broadcast variables do.

Accumulators can be instantiated directly via the accumulator(n) method of the pyspark.RDD module.

Wrong, accumulators are instantiated via the accumulator(n) method of the sparkContext, for example: counter = spark.sparkContext.accumulator(0).

More info: python - In Spark, RDDs are immutable, then how Accumulators are implemented? - Stack Overflow, apache spark - When are accumulators truly reliable? - Stack Overflow, Spark - The Definitive Guide, Chapter 14

NEW QUESTION # 23

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