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Databricks Certified Associate Developer for Apache Spark 3.0 Exam Sample Questions (Q141-Q146):

NEW QUESTION # 141
Which of the following code blocks returns a copy of DataFrame transactionsDf in which column productId has been renamed to productNumber?

- A. transactionsDf.withColumnRenamed(col(productId), col(productNumber))
- B. transactionsDf.withColumn("productId", "productNumber")
- C. transactionsDf.withColumnRenamed("productId", "productNumber")
- D. transactionsDf.withColumnRenamed(productId, productNumber)
- E. transactionsDf.withColumnRenamed("productNumber", "productId")

Answer: C

Explanation:
Explanation
More info: pyspark.sql.DataFrame.withColumnRenamed - PySpark 3.1.2 documentation Static notebook | Dynamic notebook: See test 2

NEW QUESTION # 142
The code block shown below should show information about the data type that column storeId of DataFrame transactionsDf contains. Choose the answer that correctly fills the blanks in the code block to accomplish this.
Code block:
transactionsDf.__1__(__2__).__3__

- A. 1. select
  2. storeId
  3. dtypes
- B. 1. select
  2. "storeId"
  3. print_schema()
- C. 1. select
  2. "storeId"
  3. printSchema()
- D. 1. limit
  2. 1
  3. columns
- E. 1. limit
  2. "storeId"
  3. printSchema()

Answer: D

Explanation:
Explanation
Correct code block:
transactionsDf.select("storeId").printSchema()
The difficulty of this question is that it is hard to solve with the stepwise first-to-last-gap approach that has worked well for similar questions, since the answer options are so different from one another. Instead, you might want to eliminate answers by looking for patterns of frequently wrong answers.

A first pattern that you may recognize by now is that column names are not expressed in quotes. For this reason, the answer that includes storeId should be eliminated.
By now, you may have understood that the DataFrame.limit() is useful for returning a specified amount of rows. It has nothing to do with specific columns. For this reason, the answer that resolves to limit("storeId") can be eliminated.
Given that we are interested in information about the data type, you should question whether the answer that resolves to limit(1).columns provides you with this information. While DataFrame.columns is a valid call, it will only report back column names, but not column types. So, you can eliminate this option.
The two remaining options either use the printSchema() or print_schema() command. You may remember that DataFrame.printSchema() is the only valid command of the two. The select("storeId") part just returns the storeId column of transactionsDf - this works here, since we are only interested in that column's type anyways.
More info: pyspark.sql.DataFrame.printSchema - PySpark 3.1.2 documentation Static notebook | Dynamic notebook: See test 3

NEW QUESTION # 143
Which of the following describes Spark's Adaptive Query Execution?

- A. Adaptive Query Execution features are dynamically switching join strategies and dynamically optimizing skew joins.
- B. Adaptive Query Execution features include dynamically coalescing shuffle partitions, dynamically injecting scan filters, and dynamically optimizing skew joins.
- C. Adaptive Query Execution is enabled in Spark by default.
- D. Adaptive Query Execution applies to all kinds of queries.
- E. Adaptive Query Execution reoptimizes queries at execution points.

Answer: A

Explanation:
Explanation
Adaptive Query Execution features include dynamically coalescing shuffle partitions, dynamically injecting scan filters, and dynamically optimizing skew joins.
This is almost correct. All of these features, except for dynamically injecting scan filters, are part of Adaptive Query Execution. Dynamically injecting scan filters for join operations to limit the amount of data to be considered in a query is part of Dynamic Partition Pruning and not of Adaptive Query Execution.
Adaptive Query Execution reoptimizes queries at execution points.
No, Adaptive Query Execution reoptimizes queries at materialization points.
Adaptive Query Execution is enabled in Spark by default.
No, Adaptive Query Execution is disabled in Spark needs to be enabled through the spark.sql.adaptive.enabled property.
Adaptive Query Execution applies to all kinds of queries.
No, Adaptive Query Execution applies only to queries that are not streaming queries and that contain at least one exchange (typically expressed through a join, aggregate, or window operator) or one subquery.
More info: How to Speed up SQL Queries with Adaptive Query Execution, Learning Spark, 2nd Edition, Chapter 12 (https://bit.ly/3tOh8M1)

NEW QUESTION # 144
Which of the following statements about reducing out-of-memory errors is incorrect?

- A. Reducing partition size can help against out-of-memory errors.
- B. Limiting the amount of data being automatically broadcast in joins can help against out-of-memory errors.
- C. Concatenating multiple string columns into a single column may guard against out-of-memory errors.
- D. Decreasing the number of cores available to each executor can help against out-of-memory errors.
- E. Setting a limit on the maximum size of serialized data returned to the driver may help prevent out-of-memory errors.

Answer: C

Explanation:
Explanation
Concatenating multiple string columns into a single column may guard against out-of-memory errors.
Exactly, this is an incorrect answer! Concatenating any string columns does not reduce the size of the data, it just structures it a different way. This does little to how Spark processes the data and definitely does not reduce out-of-memory errors.
Reducing partition size can help against out-of-memory errors.
No, this is not incorrect. Reducing partition size is a viable way to aid against out-of-memory errors, since executors need to load

partitions into memory before processing them. If the executor does not have enough memory available to do that, it will throw an out-of-memory error. Decreasing partition size can therefore be very helpful for preventing that.
Decreasing the number of cores available to each executor can help against out-of-memory errors.
No, this is not incorrect. To process a partition, this partition needs to be loaded into the memory of an executor. If you imagine that every core in every executor processes a partition, potentially in parallel with other executors, you can imagine that memory on the machine hosting the executors fills up quite quickly. So, memory usage of executors is a concern, especially when multiple partitions are processed at the same time. To strike a balance between performance and memory usage, decreasing the number of cores may help against out-of-memory errors.
Setting a limit on the maximum size of serialized data returned to the driver may help prevent out-of-memory errors.
No, this is not incorrect. When using commands like collect() that trigger the transmission of potentially large amounts of data from the cluster to the driver, the driver may experience out-of-memory errors. One strategy to avoid this is to be careful about using commands like collect() that send back large amounts of data to the driver. Another strategy is setting the parameter spark.driver.maxResultSize. If data to be transmitted to the driver exceeds the threshold specified by the parameter, Spark will abort the job and therefore prevent an out-of-memory error.
Limiting the amount of data being automatically broadcast in joins can help against out-of-memory errors.
Wrong, this is not incorrect. As part of Spark's internal optimization, Spark may choose to speed up operations by broadcasting (usually relatively small) tables to executors. This broadcast is happening from the driver, so all the broadcast tables are loaded into the driver first. If these tables are relatively big, or multiple mid-size tables are being broadcast, this may lead to an out-of- memory error. The maximum table size for which Spark will consider broadcasting is set by the spark.sql.autoBroadcastJoinThreshold parameter.
More info: Configuration - Spark 3.1.2 Documentation and Spark OOM Error - Closeup. Does the following look familiar when... | by Amit Singh Rathore | The Startup | Medium

NEW QUESTION # 145
Which of the following code blocks returns a copy of DataFrame transactionsDf where the column storeId has been converted to string type?

- A. transactionsDf.withColumn("storeId", col("storeId", "string"))
- B. transactionsDf.withColumn("storeId", col("storeId").convert("string"))
- C. transactionsDf.withColumn("storeId", col("storeId").cast("string"))
- D. transactionsDf.withColumn("storeId", convert("storeId").as("string"))
- E. transactionsDf.withColumn("storeId", convert("storeId", "string"))

Answer: C

Explanation:
Explanation
This question asks for your knowledge about the cast syntax. cast is a method of the Column class. It is worth noting that one could also convert a column type using the Column.astype() method, which is just an alias for cast.
Find more info in the documentation linked below.
More info: pyspark.sql.Column.cast - PySpark 3.1.2 documentation
Static notebook | Dynamic notebook: See test 2

NEW QUESTION # 146
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