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Databricks Certified Associate Developer for Apache Spark 3.0 Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17
The code block displayed below contains an error. The code block is intended to perform an outer join of DataFrames transactionsDf and itemsDf on columns productId and itemId, respectively.
Find the error.
Code block:
transactionsDf.join(itemsDf, [itemsDf.itemId, transactionsDf.productId], "outer")

- A. The "outer" argument should be eliminated, since "outer" is the default join type.
- B. The term [itemsDf.itemId, transactionsDf.productId] should be replaced by itemsDf.itemId == transactionsDf.productId.
- C. The join type needs to be appended to the join() operator, like join().outer() instead of listing it as the last argument inside the join() call.
- D. The term [itemsDf.itemId, transactionsDf.productId] should be replaced by itemsDf.col("itemId") == transactionsDf.col("productId").
- E. The "outer" argument should be eliminated from the call and join should be replaced by joinOuter.

Answer: B

Explanation:
Explanation
Correct code block:
transactionsDf.join(itemsDf, itemsDf.itemId == transactionsDf.productId, "outer") Static notebook | Dynamic notebook: See test 1 (https://flrs.github.io/spark_practice_tests_code/#1/33.html ,
https://bit.ly/sparkpracticeexams_import_instructions)

NEW QUESTION # 18
The code block shown below should return a copy of DataFrame transactionsDf with an added column cos.
This column should have the values in column value converted to degrees and having the cosine of those converted values taken, rounded to two decimals. Choose the answer that correctly fills the blanks in the code block to accomplish this.
Code block:
transactionsDf.__1__(__2__, round(__3__(__4__(__5__)),2))

- A. 1. withColumn
  2. "cos"
  3. cos
  4. degrees
  5. transactionsDf.value
- B. 1. withColumn
  2. col("cos")
  3. cos
  4. degrees
  5. transactionsDf.value
- C. 1. withColumn
  2. col("cos")
  3. cos
  4. degrees
  5. col("value")
  E
  . 1. withColumn

2. "cos"
3. degrees
4. cos
5. col("value")

- D. 1. withColumnRenamed
2. "cos"
3. cos
4. degrees
5. "transactionsDf.value"

Answer: A

Explanation:
Explanation
Correct code block:
transactionsDf.withColumn("cos", round(cos(degrees(transactionsDf.value)),2)) This question is especially confusing because col, "cos" are so similar. Similar-looking answer options can also appear in the exam and, just like in this question, you need to pay attention to the details to identify what the correct answer option is.
The first answer option to throw out is the one that starts with withColumnRenamed: The question NO:
speaks specifically of adding a column. The withColumnRenamed operator only renames an existing column, however, so you cannot use it here.
Next, you will have to decide what should be in gap 2, the first argument of transactionsDf.withColumn().
Looking at the documentation (linked below), you can find out that the first argument of withColumn actually needs to be a string with the name of the column to be added. So, any answer that includes col("cos") as the option for gap 2 can be disregarded.
This leaves you with two possible answers. The real difference between these two answers is where the cos and degree methods are, either in gaps 3 and 4, or vice-versa. From the question you can find out that the new column should have "the values in column value converted to degrees and having the cosine of those converted values taken". This prescribes you a clear order of operations: First, you convert values from column value to degrees and then you take the cosine of those values. So, the inner parenthesis (gap 4) should contain the degree method and then, logically, gap 3 holds the cos method. This leaves you with just one possible correct answer.
More info: pyspark.sql.DataFrame.withColumn - PySpark 3.1.2 documentation Static notebook | Dynamic notebook: See test 3

NEW QUESTION # 19
Which of the following describes the characteristics of accumulators?

- A. Accumulators can be instantiated directly via the accumulator(n) method of the pyspark.RDD module.
- B. Accumulators are immutable.
- C. 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.
- D. All accumulators used in a Spark application are listed in the Spark UI.
- E. Accumulators are used to pass around lookup tables across the cluster.

Answer: C

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 # 20
Which of the following statements about lazy evaluation is incorrect?

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

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 # 21
Which of the following code blocks returns a DataFrame with an added column to DataFrame transactionsDf that shows the unix epoch timestamps in column transactionDate as strings in the format month/day/year in column transactionDateFormatted?
Excerpt of DataFrame transactionsDf:

- A. transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate", format="dd/MM/yyyy"))
- B. transactionsDf.apply(from_unixtime(format="MM/dd/yyyy")).asColumn("transactionDateFormatted")
- C. transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate", format="MM/dd/yyyy"))
- D. transactionsDf.withColumnRenamed("transactionDate", "transactionDateFormatted", from_unixtime("transactionDateFormatted", format="MM/dd/yyyy"))
- E. transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate"))

Answer: C

Explanation:
Explanation
transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate", format="MM/dd/yyyy")) Correct. This code block adds a new column with the name transactionDateFormatted to DataFrame transactionsDf, using Spark's from_unixtime method to transform values in column transactionDate into strings, following the format requested in the question.
transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate", format="dd/MM/yyyy")) No. Although almost correct, this uses the wrong format for the timestamp to date conversion: day/month/year instead of month/day/year.
transactionsDf.withColumnRenamed("transactionDate", "transactionDateFormatted", from_unixtime("transactionDateFormatted", format="MM/dd/yyyy")) Incorrect. This answer uses wrong syntax. The command DataFrame.withColumnRenamed() is for renaming an existing column only has two string parameters, specifying the old and the new name of the column.
transactionsDf.apply(from_unixtime(format="MM/dd/yyyy")).asColumn("transactionDateFormatted") Wrong. Although this answer looks very tempting, it is actually incorrect Spark syntax. In Spark, there is no method DataFrame.apply(). Spark has an apply() method that can be used on grouped data - but this is irrelevant for this question, since we do not deal with grouped data here.
transactionsDf.withColumn("transactionDateFormatted", from_unixtime("transactionDate")) No. Although this is valid Spark syntax,

the strings in column transactionDateFormatted would look like this:
2020-04-26 15:35:32, the default format specified in Spark for from_unixtime and not what is asked for in the question.
More info: pyspark.sql.functions.from_unixtime - PySpark 3.1.1 documentation and pyspark.sql.DataFrame.withColumnRenamed - PySpark 3.1.1 documentation Static notebook | Dynamic notebook: See test 1

NEW QUESTION # 22
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