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Databricks Certified Associate Developer for Apache Spark 3.0 Exam Sample Questions (Q65-Q70):

NEW QUESTION #65

Which of the following code blocks returns a new DataFrame in which column attributes of DataFrame itemsDf is renamed to feature0 and column supplier to feature1?

- A. itemsDf.withColumnRenamed(attributes, feature0).withColumnRenamed(supplier, feature1)
- B. itemsDf.withColumnRenamed(col("attributes"), col("feature0"), col("supplier"), col("feature1"))
- C. 1.itemsDf.withColumnRenamed("attributes", "feature0") 2.itemsDf.withColumnRenamed("supplier", "feature1")
- D. itemsDf.withColumn("attributes", "feature0").withColumn("supplier", "feature1")
- E. itemsDf.withColumnRenamed("attributes", "feature0").withColumnRenamed("supplier", "feature1")

Answer: E

Explanation:

Explanation

itemsDf.withColumnRenamed("attributes", "feature0").withColumnRenamed("supplier", "feature1") Correct! Spark's

DataFrame.withColumnRenamed syntax makes it relatively easy to change the name of a column.

itemsDf.withColumnRenamed(attributes, feature0).withColumnRenamed(supplier, feature1) Incorrect. In this code block, the Python interpreter will try to use attributes and the other column names as variables. Needless to say, they are undefined, and as a result the block will not run.

itemsDf.withColumnRenamed(col("attributes"), col("feature0"), col("supplier"), col("feature1")) Wrong. The

DataFrame.withColumnRenamed() operator takes exactly two string arguments. So, in this answer both using col() and using four arguments is wrong.

itemsDf.withColumnRenamed("attributes", "feature0")

itemsDf.withColumnRenamed("supplier", "feature1")

No. In this answer, the returned DataFrame will only have column supplier be renamed, since the result of the first line is not written back to itemsDf.

itemsDf.withColumn("attributes", "feature0").withColumn("supplier", "feature1") Incorrect. While withColumn works for adding and naming new columns, you cannot use it to rename existing columns.

More info: pyspark.sql.DataFrame.withColumnRenamed - PySpark 3.1.2 documentation Static notebook | Dynamic notebook: See test 3

NEW QUESTION #66

Which of the following code blocks returns DataFrame transactionsDf sorted in descending order by column predError, showing missing values last?

- A. transactionsDf.orderBy("predError").desc_nulls_last()
- B. transactionsDf.orderBy("predError").asc nulls last()
- C. transactionsDf.sort("predError", ascending=False)
- D. transactionsDf.desc_nulls_last('predError')
- E. transactionsDf.sort(asc_nulls_last("predError"))

Answer: C

Explanation:

Explanation

transactionsDf.sort("predError", ascending=False)

Correct! When using DataFrame.sort() and setting ascending=False, the DataFrame will be sorted by the specified column in descending order, putting all missing values last. An alternative, although not listed as an answer here, would be transactionsDf.sort(desc_nulls_last("predError")).

transactionsDf.sort(asc nulls last("predError"))

Incorrect. While this is valid syntax, the DataFrame will be sorted on column predError in ascending order and not in descending order, putting missing values last.

transactionsDf.desc nulls last("predError")

Wrong, this is invalid syntax. There is no method DataFrame.desc_nulls_last() in the Spark API. There is a Spark function desc_nulls_last() however (link see below).

 $transactions Df. order By ("predError"). desc_nulls_last()$

No. While transactionsDf.orderBy("predError") is correct syntax (although it sorts the DataFrame by column predError in ascending order) and returns a DataFrame, there is no method DataFrame.desc_nulls_last() in the Spark API. There is a Spark function desc_nulls_last() however (link see below).

transactionsDf.orderBy("predError").asc nulls last()

Incorrect. There is no method DataFrame.asc nulls last() in the Spark API (see above).

More info: pyspark.sql.functions.desc_nulls_last - PySpark 3.1.2 documentation and pyspark.sql.DataFrame.sort - PySpark 3.1.2 documentation (https://bit.ly/3g1JtbI , https://bit.ly/2R90NCS) Static notebook | Dynamic notebook: See test 1 (https://flrs.github.io/spark practice tests code/#1/32.html ,

https://bit.ly/sparkpracticeexams import instructions)

NEW QUESTION #67

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

Answer: B

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 repatition(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

Which of the following code blocks returns only rows from DataFrame transactionsDf in which values in column productId are unique?

- A. transactionsDf.dropDuplicates(subset=["productId"])
- B. transactionsDf.distinct("productId")
- C. transactionsDf.dropDuplicates(subset="productId")
- D. transactionsDf.unique("productId")
- E. transactionsDf.drop duplicates(subset="productId")

Answer: A

Explanation:

Explanation

Although the question suggests using a method called unique() here, that method does not actually exist in PySpark. In PySpark, it is called distinct(). But then, this method is not the right one to use here, since with distinct() we could filter out unique values in a specific column.

However, we want to return the entire rows here. So the trick is to use dropDuplicates with the subset keyword parameter. In the documentation for dropDuplicates, the examples show that subset should be used with a list. And this is exactly the key to solving this question: The productId column needs to be fed into the subset argument in a list, even though it is just a single column. More info: pyspark.sql.DataFrame.dropDuplicates - PySpark 3.1.1 documentation Static notebook | Dynamic notebook: See test 1

NEW QUESTION #69

Which of the following describes characteristics of the Dataset API?

- A. The Dataset API does not support unstructured data.
- B. In Python, the Dataset API's schema is constructed via type hints.
- C. The Dataset API does not provide compile-time type safety.
- D. The Dataset API is available in Scala, but it is not available in Python.
- E. In Python, the Dataset API mainly resembles Pandas' DataFrame API.

Answer: D

Explanation:

Explanation

The Dataset API is available in Scala, but it is not available in Python.

Correct. The Dataset API uses fixed typing and is typically used for object-oriented programming. It is available when Spark is used with the Scala programming language, but not for Python. In Python, you use the DataFrame API, which is based on the Dataset API.

The Dataset API does not provide compile-time type safety.

No - in fact, depending on the use case, the type safety that the Dataset API provides is an advantage.

The Dataset API does not support unstructured data.

Wrong, the Dataset API supports structured and unstructured data.

In Python, the Dataset API's schema is constructed via type hints.

No, this is not applicable since the Dataset API is not available in Python.

In Python, the Dataset API mainly resembles Pandas' DataFrame API.

The Dataset API does not exist in Python, only in Scala and Java.

NEW QUESTION #70

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