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Damit wir besser auf die derzeitigen Herausforderungen reagieren und Ihnen die Fragenkataloge zur Databricks Associate-Developer-Apache-Spark Zertifizierungsprüfung von besserer Qualität bieten können, versuchen wir, unser Bestes zu tun, indem wir die IT-Elite Gruppe von EchteFrage verändern und die Testaufgaben von der Databricks Associate-Developer-Apache-Spark Zertifizierungsprüfung rechtzeitig aktualisieren. Unser Ziel liegt darin, dass Sie die Databricks Associate-Developer-Apache-Spark Zertifizierungsprüfung in kürzester Zeit leicht bestehen können. Bevor Sie unsere Prüfungsmaterialien kaufen, können Sie ein paar kostenlose Prüfungsfragen und Antworten herunterladen und proben.

Databricks Certified Associate Developer for Apache Spark 3.0 Exam Associate-Developer-Apache-Spark Prüfungsfragen mit Lösungen (Q47-Q52):

47. Frage

Which of the following describes Spark's way of managing memory?

- A. Spark uses a subset of the reserved system memory.
- B. Disabling serialization potentially greatly reduces the memory footprint of a Spark application.
- C. Spark's memory usage can be divided into three categories: Execution, transaction, and storage.
- **D. Storage memory is used for caching partitions derived from DataFrames.**
- E. As a general rule for garbage collection, Spark performs better on many small objects than few big objects.

Antwort: D

Begründung:

Explanation

Spark's memory usage can be divided into three categories: Execution, transaction, and storage.

No, it is either execution or storage.

As a general rule for garbage collection, Spark performs better on many small objects than few big objects.

No, Spark's garbage collection runs faster on fewer big objects than many small objects.

Disabling serialization potentially greatly reduces the memory footprint of a Spark application.

The opposite is true - serialization reduces the memory footprint, but may impact performance in a negative way.

Spark uses a subset of the reserved system memory.

No, the reserved system memory is separate from Spark memory. Reserved memory stores Spark's internal objects.

More info: [Tuning - Spark 3.1.2 Documentation](#), [Spark Memory Management | Distributed Systems Architecture](#), [Learning Spark](#), 2nd Edition, Chapter 7

48. Frage

The code block shown below should return the number of columns in the CSV file stored at location filePath.

From the CSV file, only lines should be read that do not start with a # character. Choose the answer that correctly fills the blanks in the code block to accomplish this.

Code block:

```
__1__ (__2__ . __3__ . csv(filePath, __4__ ) . __5__ )
```

- A. 1. size
2. spark
3. read()
4. escape='#'
5. columns
- B. 1. size
2. pyspark
3. DataFrameReader
4. comment='#'
5. columns
- C. 1. len
2. pyspark
3. DataFrameReader
4. comment='#'
5. columns
- D. 1. DataFrame
2. spark

- 3. read()
- 4. escape='#'
- 5. shape[0]
- E. 1. len
- 2. spark
- 3. read
- 4. comment='#'
- 5. columns

Antwort: E

Begründung:

Explanation

Correct code block:

```
len(spark.read.csv(filePath, comment='#').columns)
```

This is a challenging question with difficulties in an unusual context: The boundary between DataFrame and the DataFrameReader. It is unlikely that a question of this difficulty level appears in the exam. However, solving it helps you get more comfortable with the DataFrameReader, a subject you will likely have to deal with in the exam.

Before dealing with the inner parentheses, it is easier to figure out the outer parentheses, gaps 1 and 5. Given the code block, the object in gap 5 would have to be evaluated by the object in gap 1, returning the number of columns in the read-in CSV. One answer option includes DataFrame in gap 1 and shape[0] in gap 2. Since DataFrame cannot be used to evaluate shape[0], we can discard this answer option.

Other answer options include size in gap 1. size() is not a built-in Python command, so if we use it, it would have to come from somewhere else. pyspark.sql.functions includes a size() method, but this method only returns the length of an array or map stored within a column (documentation linked below).

So, using a size() method is not an option here. This leaves us with two potentially valid answers.

We have to pick between gaps 2 and 3 being spark.read or pyspark.DataFrameReader. Looking at the documentation (linked below), the DataFrameReader is actually a child class of pyspark.sql, which means that we cannot import it using pyspark.DataFrameReader. Moreover, spark.read makes sense because on Databricks, spark references current Spark session (pyspark.sql.Session) and spark.read therefore returns a DataFrameReader (also see documentation below). Finally, there is only one correct answer option remaining.

More info:

- pyspark.sql.functions.size - PySpark 3.1.2 documentation
- pyspark.sql.DataFrameReader.csv - PySpark 3.1.2 documentation
- pyspark.sql.Session.read - PySpark 3.1.2 documentation

Static notebook | Dynamic notebook: See test 3

49. Frage

The code block displayed below contains multiple errors. The code block should return a DataFrame that contains only columns transactionId, predError, value and storeId of DataFrame transactionsDf. Find the errors.

Code block:

```
transactionsDf.select([col(productId), col(f)])
```

Sample of transactionsDf:

```
1. +-----+-----+-----+-----+-----+
2. |transactionId|predError|value|storeId|productId| f|
3. +-----+-----+-----+-----+-----+
4. | 1 | 3 | 4 | 25 | 1 | null |
5. | 2 | 6 | 7 | 2 | 2 | null |
6. | 3 | 3 | null | 25 | 3 | null |
7. +-----+-----+-----+-----+-----+
```

- A. The column names should be listed directly as arguments to the operator and not as a list.
- B. The column names should be listed directly as arguments to the operator and not as a list and following the pattern of how column names are expressed in the code block, columns productId and f should be replaced by transactionId, predError, value and storeId.
- C. The select operator should be replaced by a drop operator.
- D. The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all column names should be expressed as strings without being wrapped in a col() operator.
- E. The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all col() operators should be removed.

Antwort: D

Begründung:

Explanation

Correct code block: `transactionsDf.drop("productId", "f")`

This question requires a lot of thinking to get right. For solving it, you may take advantage of the digital notepad that is provided to you during the test. You have probably seen that the code block includes multiple errors. In the test, you are usually confronted with a code block that only contains a single error. However, since you are practicing here, this challenging multi-error question will make it easier for you to deal with single-error questions in the real exam.

The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all column names should be expressed as strings without being wrapped in a `col()` operator.

Correct! Here, you need to figure out the many, many things that are wrong with the initial code block. While the question can be solved by using a select statement, a drop statement, given the answer options, is the correct one. Then, you can read in the documentation that drop does not take a list as an argument, but just the column names that should be dropped. Finally, the column names should be expressed as strings and not as Python variable names as in the original code block.

The column names should be listed directly as arguments to the operator and not as a list.

Incorrect. While this is a good first step and part of the correct solution (see above), this modification is insufficient to solve the question.

The column names should be listed directly as arguments to the operator and not as a list and following the pattern of how column names are expressed in the code block, columns `productId` and `f` should be replaced by `transactionId`, `predError`, `value` and `storeId`.

Wrong. If you use the same pattern as in the original code block (`col(productId)`, `col(f)`), you are still making a mistake.

`col(productId)` will trigger Python to search for the content of a variable named `productId` instead of telling Spark to use the column `productId` - for that, you need to express it as a string.

The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all `col()` operators should be removed.

No. This still leaves you with Python trying to interpret the column names as Python variables (see above).

The select operator should be replaced by a drop operator.

Wrong, this is not enough to solve the question. If you do this, you will still face problems since you are passing a Python list to drop and the column names are still interpreted as Python variables (see above).

More info: `pyspark.sql.DataFrame.drop` - PySpark 3.1.2 documentation

Static notebook | Dynamic notebook: See test 3

50. Frage

Which of the following options describes the responsibility of the executors in Spark?

- A. The executors accept jobs from the driver, analyze those jobs, and return results to the driver.
- **B. The executors accept tasks from the driver, execute those tasks, and return results to the driver.**
- C. The executors accept tasks from the driver, execute those tasks, and return results to the cluster manager.
- D. The executors accept tasks from the cluster manager, execute those tasks, and return results to the driver.
- E. The executors accept jobs from the driver, plan those jobs, and return results to the cluster manager.

Antwort: B

Begründung:

Explanation

More info: Running Spark: an overview of Spark's runtime architecture - Manning (<https://bit.ly/2RPMJn9>)

51. Frage

Which of the following DataFrame methods is classified as a transformation?

- A. `DataFrame.first()`
- B. `DataFrame.count()`
- C. `DataFrame.foreach()`
- **D. `DataFrame.select()`**
- E. `DataFrame.show()`

Antwort: D

Begründung:

Explanation

`DataFrame.select()`

Correct, `DataFrame.select()` is a transformation. When the command is executed, it is evaluated lazily and returns an RDD when it is triggered by an action.

`DataFrame.foreach()`

Incorrect, `DataFrame.foreach()` is not a transformation, but an action. The intention of `foreach()` is to apply code to each element of a `DataFrame` to update accumulator variables or write the elements to external storage. The process does not return an RDD - it is an action!

`DataFrame.first()`

Wrong. As an action, `DataFrame.first()` executed immediately and returns the first row of a `DataFrame`.

`DataFrame.count()`

Incorrect. `DataFrame.count()` is an action and returns the number of rows in a `DataFrame`.

`DataFrame.show()`

No, `DataFrame.show()` is an action and displays the `DataFrame` upon execution of the command.

52. Frage

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