Quiz Pass-Sure Databricks - Associate-Developer-Apache-Spark-3.5 - Certification Databricks Certified Associate Developer for Apache Spark 3.5 - Python Exam Cost

Databricks
Certification Details

Databricks Certified Associate Developer for Apache Spark

Prior Certification
Not Required

Exam Validity
2 Years

Exam Fee
$200 USD

Exam Duration
120 Minutes

No. of Questions
60 Questions

Passing Marks
70%

Recommended Experience
Basic coding knowledge in Python or Scala

Exam Format
Multiple choice

Languages
English

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It is important to mention here that the Databricks Certified Associate Developer for Apache Spark 3.5 - Python practice questions played important role in their Databricks Associate-Developer-Apache-Spark-3.5 Exams preparation and their success. So we can say that with the DatabricksAssociate-Developer-Apache-Spark-3.5 Exam Questions you will get everything that you need to learn, prepare and pass the difficult Databricks Associate-Developer-Apache-Spark-3.5 exam with good scores.

Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q66-Q71):

NEW QUESTION # 66
A data engineer is working on a real-time analytics pipeline using Apache Spark Structured Streaming. The engineer wants to process incoming data and ensure that triggers control when the query is executed. The system needs to process data in micro-batches with a fixed interval of 5 seconds.
Which code snippet the data engineer could use to fulfil this requirement?
A)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(continuous='5 seconds') \
    .start()
```

B)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger() \
    .start()
```

C)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

D)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime=5000) \
    .start()
```

Options:

- A. Uses trigger(processingTime='5 seconds') - correct micro-batch trigger with interval.
- B. Uses trigger(processingTime=5000) - invalid, as processingTime expects a string.
- C. Uses trigger() - default micro-batch trigger without interval.
- D. Uses trigger(continuous='5 seconds') - continuous processing mode.

Answer: A

Explanation:
To define a micro-batch interval, the correct syntax is:
query = df.writeStream \
outputMode("append") \
trigger(processingTime='5 seconds') \
start()
This schedules the query to execute every 5 seconds.
Continuous mode (used in Option A) is experimental and has limited sink support.
Option D is incorrect because processingTime must be a string (not an integer).
Option B triggers as fast as possible without interval control.
Reference:Spark Structured Streaming - Triggers

NEW QUESTION # 67

5 of 55.
What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

- A. A stage contains multiple jobs, and each job contains multiple tasks.
- B. A stage contains multiple tasks, and each task contains multiple jobs.
- C. A job contains multiple tasks, and each task contains multiple stages.
- D. A job contains multiple stages, and each stage contains multiple tasks.

Answer: D

Explanation:
In Apache Spark's execution hierarchy, the relationships are structured as follows:

Job: Created when an action (e.g., count(), collect(), save()) is triggered on an RDD or DataFrame.
Stage: Each job is divided into one or more stages, separated by shuffle boundaries (e.g., after a reduceByKey or join).
Task: Each stage consists of multiple tasks, one per partition, executed in parallel on executors.
Execution Hierarchy:
Job → Stage(s) → Task(s)
So, a job contains multiple stages, and each stage contains multiple tasks.
Why the other options are incorrect:
A: A job does not directly contain tasks without stages.
B: A stage cannot contain multiple jobs; it belongs to a single job.
C: Tasks do not contain jobs.
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):
Spark Architecture Overview - Execution Hierarchy: Jobs, Stages, and Tasks.
Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - describes execution hierarchy and lazy evaluation.

NEW QUESTION # 68

What is the benefit of using Pandas on Spark for data transformations?
Options:

- A. It computes results immediately using eager execution, making it simple to use.
- B. It is available only with Python, thereby reducing the learning curve.
- C. It executes queries faster using all the available cores in the cluster as well as provides Pandas's rich set of features.
- D. It runs on a single node only, utilizing the memory with memory-bound DataFrames and hence cost- efficient.

Answer: C

Explanation:
Pandas API on Spark (formerly Koalas) offers:
Familiar Pandas-like syntax
Distributed execution using Spark under the hood
Scalability for large datasets across the cluster
It provides the power of Spark while retaining the productivity of Pandas.
Reference:Pandas API on Spark Guide

NEW QUESTION # 69

A data scientist is working with a Spark DataFrame called customerDF that contains customer information.
The DataFrame has a column named email with customer email addresses. The data scientist needs to split this column into username and domain parts.
Which code snippet splits the email column into username and domain columns?

- A. customerDF.select(
  regexp_replace(col("email"), "@", "").alias("username"),
  regexp_replace(col("email"), "@", "").alias("domain")
)
- B. customerDF.withColumn("username", substring_index(col("email"), "@", 1)) \
  .withColumn("domain", substring_index(col("email"), "@", -1))
- C. customerDF.select(
  col("email").substr(0, 5).alias("username"),
  col("email").substr(-5).alias("domain")
)
- D. customerDF.withColumn("username", split(col("email"), "@").getItem(0)) \
  .withColumn("domain", split(col("email"), "@").getItem(1))

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Option B is the correct and idiomatic approach in PySpark to split a string column (like email) based on a delimiter such as "@".
The split(col("email"), "@") function returns an array with two elements: username and domain.

getItem(0) retrieves the first part (username).
getItem(1) retrieves the second part (domain).
withColumn() is used to create new columns from the extracted values.
Example from official Databricks Spark documentation on splitting columns:
from pyspark.sql.functions import split, col
df.withColumn("username", split(col("email"), "@").getItem(0)) \
withColumn("domain", split(col("email"), "@").getItem(1))
##Why other options are incorrect:
A uses fixed substring indices (substr(0, 5)), which won't correctly extract usernames and domains of varying lengths.
C uses substring_index, which is available but less idiomatic for splitting emails and is slightly less readable.
D removes "@" from the email entirely, losing the separation between username and domain, and ends up duplicating values in both fields.
Therefore, Option B is the most accurate and reliable solution according to Apache Spark 3.5 best practices.

NEW QUESTION # 70
A Data Analyst needs to retrieve employees with 5 or more years of tenure.
Which code snippet filters and shows the list?

- A. employees_df.filter(employees_df.tenure >= 5).show()
- B. employees_df.filter(employees_df.tenure >= 5).collect()
- C. employees_df.where(employees_df.tenure >= 5)
- D. filter(employees_df.tenure >= 5)

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To filter rows based on a condition and display them in Spark, usefilter(...).show():
employees_df.filter(employees_df.tenure >= 5).show()
Option A is correct and shows the results.
Option B filters but doesn't display them.
Option C uses Python's built-infilter, not Spark.
Option D collects the results to the driver, which is unnecessary if.show()is sufficient.
Final Answer: A

NEW QUESTION # 71
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