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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q131-Q136):

NEW QUESTION # 131

A data scientist is working on a project that requires processing large amounts of structured data, performing SQL queries, and applying machine learning algorithms. The data scientist is considering using Apache Spark for this task.

Which combination of Apache Spark modules should the data scientist use in this scenario?

Options:

- A. Spark SQL, Pandas API on Spark, and Structured Streaming
- **B. Spark DataFrames, Spark SQL, and MLlib**
- C. Spark Streaming, GraphX, and Pandas API on Spark
- D. Spark DataFrames, Structured Streaming, and GraphX

Answer: B

Explanation:

Comprehensive Explanation:

To cover structured data processing, SQL querying, and machine learning in Apache Spark, the correct combination of components is:

Spark DataFrames: for structured data processing

Spark SQL: to execute SQL queries over structured data

MLlib: Spark's scalable machine learning library

This trio is designed for exactly this type of use case.

Why other options are incorrect:

A: GraphX is for graph processing - not needed here.

B: Pandas API on Spark is useful, but MLlib is essential for ML, which this option omits.

C: Spark Streaming is legacy; GraphX is irrelevant here.

Reference:Apache Spark Modules Overview

NEW QUESTION # 132

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

Options:

- A. It is available only with Python, thereby reducing the learning curve.
- B. It computes results immediately using eager execution, making it simple to use.
- **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.

NEW QUESTION # 133

25 of 55.

A Data Analyst is working on employees_df and needs to add a new column where a 10% tax is calculated on the salary.

Additionally, the DataFrame contains the column age, which is not needed.

Which code fragment adds the tax column and removes the age column?

- A. employees_df = employees_df.dropField("age").withColumn("tax", col("salary") * 0.1)
- B. employees_df = employees_df.withColumn("tax", col("salary") * 0.1).drop("age")
- C. employees_df = employees_df.withColumn("tax", lit(0.1)).drop("age")
- D. employees_df = employees_df.withColumn("tax", col("salary") + 0.1).drop("age")

Answer: B

Explanation:

To create a new calculated column in Spark, use the .withColumn() method.

To remove an unwanted column, use the .drop() method.

Correct syntax:

```
from pyspark.sql.functions import col
employees_df = employees_df.withColumn("tax", col("salary") * 0.1).drop("age")
.withColumn("tax", col("salary") * 0.1) → adds a new column where tax = 10% of salary.
.drop("age") → removes the age column from the DataFrame.
```

Why the other options are incorrect:

B: lit(0.1) creates a constant value, not a calculated tax.

C: .dropField() is not a DataFrame API method (used only in struct field manipulations).

D: Adds 0.1 to salary instead of calculating 10%.

Reference:

PySpark DataFrame API - withColumn(), drop(), and col().

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - manipulating, renaming, and dropping columns.

NEW QUESTION # 134

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

Options:

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

Answer: B

Explanation:

A Spark job is triggered by an action (e.g., count, show).

The job is broken into stages, typically one per shuffle boundary.

Each stage is divided into multiple tasks, which are distributed across worker nodes.

NEW QUESTION # 135

Given:

python

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```
spark.sparkContext.setLogLevel("<LOG_LEVEL>")
```

Which set contains the suitable configuration settings for Spark driver LOG_LEVELs?

- A. FATAL, NONE, INFO, DEBUG
- B. WARN, NONE, ERROR, FATAL
- C. ALL, DEBUG, FAIL, INFO
- D. ERROR, WARN, TRACE, OFF

Answer: D

Explanation:

The `setLogLevel()` method of `SparkContext` sets the logging level on the driver, which controls the verbosity of logs emitted during job execution. Supported levels are inherited from `log4j` and include the following:

ALL
DEBUG
ERROR
FATAL
INFO
OFF
TRACE
WARN

According to official Spark and Databricks documentation:

"Valid log levels include: ALL, DEBUG, ERROR, FATAL, INFO, OFF, TRACE, and WARN." Among the choices provided, only option B (ERROR, WARN, TRACE, OFF) includes four valid log levels and excludes invalid ones like "FAIL" or "NONE".

NEW QUESTION # 136

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