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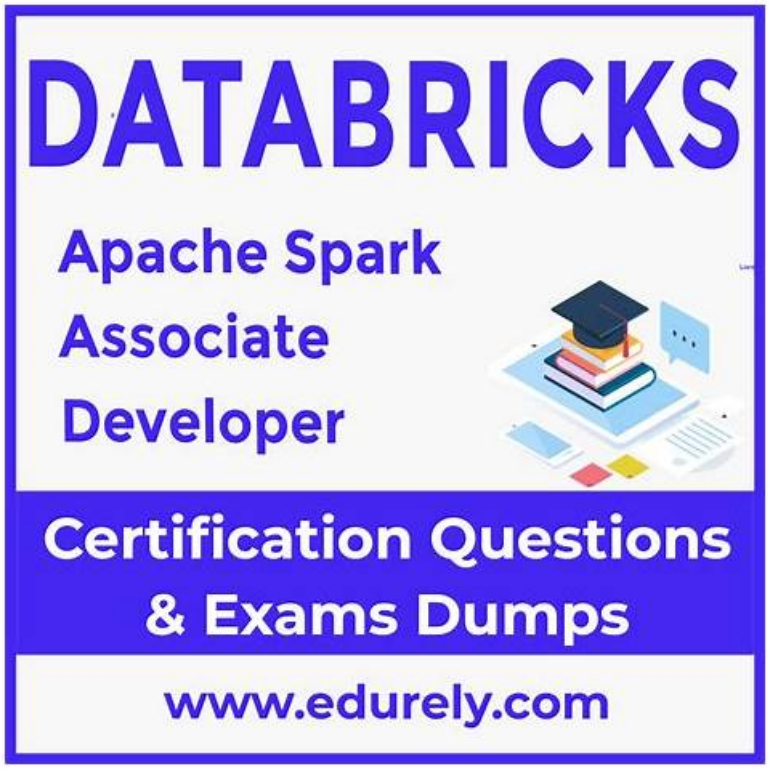

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q93-Q98):

NEW QUESTION # 93
33 of 55.
The data engineering team created a pipeline that extracts data from a transaction system.
The transaction system stores timestamps in UTC, and the data engineers must now transform the transaction_datetime field to the "America/New_York" timezone for reporting.
Which code should be used to convert the timestamp to the target timezone?

- A. raw.withColumn("transaction_datetime", to_utc_timestamp(col("transaction_datetime"), "America/New_York"))
- B. raw.withColumn("transaction_datetime", convert_timezone(col("transaction_datetime"), "America/New_York"))
- C. raw.withColumn("transaction_datetime", date_format(col("transaction_datetime"), "America/New_York"))
- D. raw.withColumn("transaction_datetime", from_utc_timestamp(col("transaction_datetime"), "America/New_York"))

Answer: D

Explanation:
In Spark SQL, to convert a UTC timestamp to another timezone, you use the function from_utc_timestamp().
Correct syntax:
from pyspark.sql.functions import from_utc_timestamp, col
df_converted = raw.withColumn(
"transaction_datetime",
from_utc_timestamp(col("transaction_datetime"), "America/New_York")
)
This adjusts the UTC time into the specified timezone using Spark's timezone database.
Why the other options are incorrect:
B: to_utc_timestamp() converts local time to UTC, not the other way around.
C: date_format() formats timestamps as strings but doesn't adjust timezones.
D: convert_timezone() is not a valid Spark SQL function.
Reference:
Spark SQL Functions - from_utc_timestamp() and to_utc_timestamp().
Databricks Exam Guide (June 2025): Section "Using Spark SQL" - working with timestamps and timezone conversions.

NEW QUESTION # 94
What is the difference betweendf.cache()anddf.persist()in Spark DataFrame?

- A. Bothcache()andpersist()can be used to set the default storage level (MEMORY_AND_DISK_SER)
- B. cache()- Persists the DataFrame with the default storage level (MEMORY_AND_DISK) andpersist()- Can be used to set different storage levels to persist the contents of the DataFrame
- C. persist()- Persists the DataFrame with the default storage level (MEMORY_AND_DISK_SER) andcache()- Can be used to set different storage levels to persist the contents of the DataFrame.
- D. Both functions perform the same operation. Thepersist()function provides improved performance asits default storage level isDISK_ONLY.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
df.cache()is shorthand fordf.persist(StorageLevel.MEMORY_AND_DISK)
df.persist()allows specifying any storage level such asMEMORY_ONLY,DISK_ONLY, MEMORY_AND_DISK_SER, etc.
By default,persist()usesMEMORY_AND_DISK, unless specified otherwise.
Reference:Spark Programming Guide - Caching and Persistence

NEW QUESTION # 95
A data engineer writes the following code to join two DataFramesdf1anddf2:
df1 = spark.read.csv("sales_data.csv") # ~10 GB
df2 = spark.read.csv("product_data.csv") # ~8 MB
result = df1.join(df2, df1.product_id == df2.product_id)

```
df1 = spark.read.csv("sales_data.csv")
df2 = spark.read.csv("product_data.csv")
result = df1.join(df2, df1.product_id == df2.product_id)
```


Which join strategy will Spark use?

- A. Shuffle join, as the size difference between df1 and df2 is too large for a broadcast join to work efficiently
- B. Shuffle join, because AQE is not enabled, and Spark uses a static query plan
- C. Shuffle join because no broadcast hints were provided
- D. Broadcast join, as df2 is smaller than the default broadcast threshold

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The default broadcast join threshold in Spark is:
spark.sql.autoBroadcastJoinThreshold = 10MB
Sincedf2is only 8 MB (less than 10 MB), Spark will automatically apply a broadcast join without requiring explicit hints.
From the Spark documentation:
"If one side of the join is smaller than the broadcast threshold, Spark will automatically broadcast it to all executors." A is incorrect because Spark does support auto broadcast even with static plans.
B is correct: Spark will automatically broadcast df2.
C and D are incorrect because Spark's default logic handles this optimization.
Final Answer: B

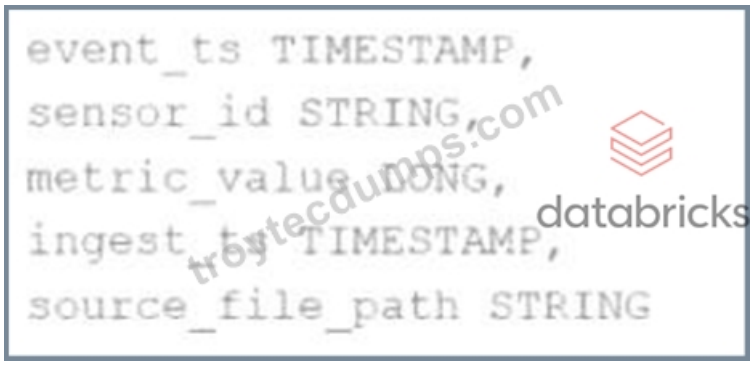
NEW QUESTION # 96
25 of 55.
A Data Analyst is working on employees_df and needs to add a new column where a 10% tax is calculated on the salary.
Additionally, the DataFrame contains the column age, which is not needed.
Which code fragment adds the tax column and removes the age column?

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

Answer: A

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 # 97
Given the schema:



event_ts TIMESTAMP,
sensor_id STRING,
metric_value LONG,
ingest_ts TIMESTAMP,
source_file_path STRING
The goal is to deduplicate based on: event_ts, sensor_id, and metric_value.
Options:

- A. dropDuplicates on all columns (wrong criteria)
- B. dropDuplicates on the exact matching fields
- C. groupBy without aggregation (invalid use)
- D. dropDuplicates with no arguments (removes based on all columns)

Answer: B

Explanation:
dedup_df = iot_bronze_df.dropDuplicates(["event_ts","sensor_id","metric_value"]) dropDuplicates accepts a list of columns to use for deduplication.
This ensures only unique records based on the specified keys are retained.
Reference:DataFrame.dropDuplicates() API

NEW QUESTION # 98
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