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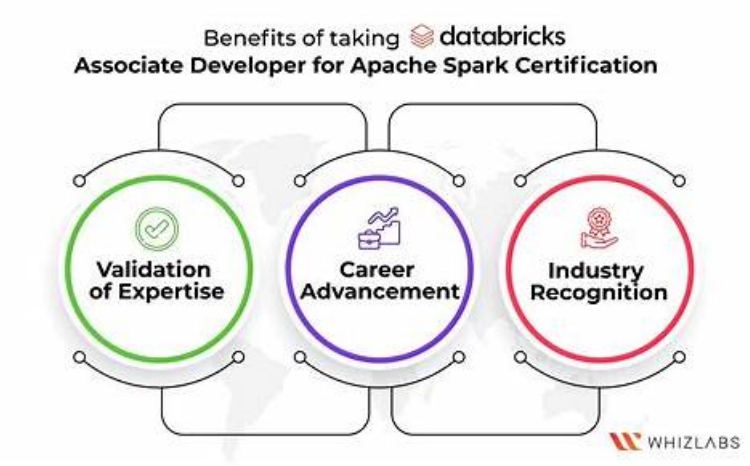

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q128-Q133):

NEW QUESTION # 128

A developer is trying to join two tables, sales.purchases_fct and sales.customer_dim, using the following code:

```
import pyspark.sql.functions as F

purch_df = spark.table('sales.purchases_fct')
cust_df = spark.table('sales.customer_dim').dropDuplicates(['cust_id'])

fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('cust_id'))
```


fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('custid')) The developer has discovered that customers in the purchases_fct table that do not exist in the customer_dim table are being dropped from the joined table.
Which change should be made to the code to stop these customer records from being dropped?

- A. fact_df = purch_df.join(cust_df, F.col('cust_id') == F.col('customer_id'))
- B. fact_df = cust_df.join(purch_df, F.col('customer_id') == F.col('custid'))
- C. fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('custid'), 'left')
- D. fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('custid'), 'right_outer')

Answer: C

Explanation:
In Spark, the default join type is an inner join, which returns only the rows with matching keys in both DataFrames. To retain all records from the left DataFrame (purch_df) and include matching records from the right DataFrame (cust_df), a left outer join should be used.
By specifying the join type as 'left', the modified code ensures that all records from purch_df are preserved, and matching records from cust_df are included. Records in purch_df without a corresponding match in cust_df will have null values for the columns from cust_df.
This approach is consistent with standard SQL join operations and is supported in PySpark's DataFrame API.

NEW QUESTION # 129
A Spark engineer is troubleshooting a Spark application that has been encountering out-of-memory errors during execution. By reviewing the Spark driver logs, the engineer notices multiple "GC overhead limit exceeded" messages.
Which action should the engineer take to resolve this issue?

- A. Increase the memory allocated to the Spark Driver.
- B. Optimize the data processing logic by repartitioning the DataFrame.
- C. Cache large DataFrames to persist them in memory.
- D. Modify the Spark configuration to disable garbage collection

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The message"GC overhead limit exceeded"typically indicates that the JVM is spending too much time in garbage collection with little memory recovery. This suggests that the driver or executor is under-provisioned in memory.
The most effective remedy is to increase the driver memory using:
--driver-memory 4g
This is confirmed in Spark's official troubleshooting documentation:
"If you see a lot ofGC overhead limit exceedederrors in the driver logs, it's a sign that the driver is running out of memory."
-Spark Tuning Guide
Why others are incorrect:
Amay help but does not directly address the driver memory shortage.
Bis not a valid action; GC cannot be disabled.
Dincreases memory usage, worsening the problem.

NEW QUESTION # 130
A data analyst builds a Spark application to analyze finance data and performs the following operations:filter, select,groupBy, andcoalesce.
Which operation results in a shuffle?

- A. coalesce
- B. groupBy
- C. filter
- D. select

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
ThegroupBy()operation causes a shuffle because it requires all values for a specific key to be brought together, which may involve moving data across partitions.
In contrast:
filter()andselect()are narrow transformations and do not cause shuffles.
coalesce()tries to reduce the number of partitions and avoids shuffling by moving data to fewer partitions without a full shuffle (unlikerepartition()).
Reference:Apache Spark - Understanding Shuffle

NEW QUESTION # 131
A data scientist of an e-commerce company is working with user data obtained from its subscriber database and has stored the data in a DataFrame df_user. Before further processing the data, the data scientist wants to create another DataFrame df_user_non_pii and store only the non-PII columns in this DataFrame. The PII columns in df_user are first_name, last_name, email, and birthdate.
Which code snippet can be used to meet this requirement?

- A. df_user_non_pii = df_user.dropfields("first_name", "last_name", "email", "birthdate")
- B. df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate")
- C. df_user_non_pii = df_user.dropfields("first_name, last_name, email, birthdate")
- D. df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate")

Answer: D

Explanation:
Comprehensive and Detailed Explanation:
To remove specific columns from a PySpark DataFrame, the drop() method is used. This method returns a new DataFrame without the specified columns. The correct syntax for dropping multiple columns is to pass each column name as a separate argument to the drop() method.
Correct Usage:
df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate") This line of code will return a new DataFrame df_user_non_pii that excludes the specified PII columns.
Explanation of Options:
A).Correct. Uses the drop() method with multiple column names passed as separate arguments, which is the standard and correct usage in PySpark.
B).Although it appears similar to Option A, if the column names are not enclosed in quotes or if there's a syntax error (e.g., missing quotes or incorrect variable names), it would result in an error. However, as written, it's identical to Option A and thus also correct.
C).Incorrect. The dropfields() method is not a method of the DataFrame class in PySpark. It's used with StructType columns to drop fields from nested structures, not top-level DataFrame columns.
D).Incorrect. Passing a single string with comma-separated column names to dropfields() is not valid syntax in PySpark.
References:
PySpark Documentation:DataFrame.drop
Stack Overflow Discussion:How to delete columns in PySpark DataFrame

NEW QUESTION # 132
A data analyst wants to add a column date derived from a timestamp column.
Options:

- A. dates_df.withColumn("date", f.date_format("timestamp", "yyyy-MM-dd")).show()
- B. dates_df.withColumn("date", f.unix_timestamp("timestamp")).show()
- C. dates_df.withColumn("date", f.to_date("timestamp")).show()
- D. dates_df.withColumn("date", f.from_unixtime("timestamp")).show()

Answer: C

Explanation:
f.to_date() converts a timestamp or string to a DateType.
Ideal for extracting the date component (year-month-day) from a full timestamp.
Example:
from pyspark.sql.functions import to_date
dates_df.withColumn("date", to_date("timestamp"))

NEW QUESTION # 133
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