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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q60-Q65):

NEW QUESTION # 60
A Spark application suffers from too many small tasks due to excessive partitioning. How can this be fixed without a full shuffle?
Options:

- A. Use the distinct() transformation to combine similar partitions
- B. Use the coalesce() transformation with a lower number of partitions
- C. Use the sortBy() transformation to reorganize the data
- D. Use the repartition() transformation with a lower number of partitions

Answer: B

Explanation:
coalesce(n) reduces the number of partitions without triggering a full shuffle, unlike repartition().
This is ideal when reducing partition count, especially during write operations.
Reference:Spark API - coalesce

NEW QUESTION # 61
A developer is trying to join two tables,sales.purchases_fctandsales.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 thepurchases_fcttable that do not exist in thecustomer_dimtable 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 = cust_df.join(purch_df, F.col('customer_id') == F.col('custid'))
- B. fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('custid'), 'right_outer')
- C. fact_df = purch_df.join(cust_df, F.col('cust_id') == F.col('customer_id'))
- D. fact_df = purch_df.join(cust_df, F.col('customer_id') == F.col('custid'), 'left')

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
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 frompurch_dfare preserved, and matching records fromcust_dfare included. Records inpurch_dfwithout a corresponding match incust_dfwill havenullvalues for the columns fromcust_df.
This approach is consistent with standard SQL join operations and is supported in PySpark's DataFrame API.

NEW QUESTION # 62
A data engineer writes the following code to join two DataFrames df1 and df2:
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 no broadcast hints were provided
- C. Broadcast join, as df2 is smaller than the default broadcast threshold
- D. Shuffle join, because AQE is not enabled, and Spark uses a static query plan

Answer: C

Explanation:
The default broadcast join threshold in Spark is:
spark.sql.autoBroadcastJoinThreshold = 10MB
Since df2 is 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 # 63
A data engineer is running a batch processing job on a Spark cluster with the following configuration:
10 worker nodes
16 CPU cores per worker node
64 GB RAM per node
The data engineer wants to allocate four executors per node, each executor using four cores.
What is the total number of CPU cores used by the application?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
If each of the 10 nodes runs 4 executors, and each executor is assigned 4 CPU cores:
Executors per node = 4
Cores per executor = 4
Total executors = 4 * 10 = 40
Total cores = 40 executors * 4 cores = 160 cores
However, Spark uses 1 core for overhead on each node when managing multiple executors. Thus, the practical allocation is:
Total usable executors = 4 executors/node × 10 nodes = 40
Total cores = 4 cores × 40 executors = 160
Answer is A - but the question asks specifically about "CPU cores used by the application," assuming all
allocated cores are usable (as Spark typically runs executors without internal core reservation unless explicitly configured).
However, if you are considering 4 executors/node × 4 cores = 16 cores per node, across 10 nodes, that's 160.
Final Answer: A

NEW QUESTION # 64
A data engineer wants to write a Spark job that creates a new managed table. If the table already exists, the job should fail and not modify anything.
Which save mode and method should be used?

- A. saveAsTable with mode ErrorIfExists
- B. saveAsTable with mode Overwrite
- C. save with mode ErrorIfExists
- D. save with mode Ignore

Answer: A

Explanation:
Comprehensive and Detailed Explanation:
The methodsaveAsTable()creates a new table and optionally fails if the table exists.
From Spark documentation:
"The mode 'ErrorIfExists' (default) will throw an error if the table already exists." Thus:
Option A is correct.
Option B (Overwrite) would overwrite existing data - not acceptable here.
Option C and D usesave(), which doesn't create a managed table with metadata in the metastore.
Final Answer: A

NEW QUESTION # 65

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