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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q58-Q63):

### NEW QUESTION # 58

A DataFrame df has columns name, age, and salary. The developer needs to sort the DataFrame by age in ascending order and salary in descending order.

Which code snippet meets the requirement of the developer?

- A. `df.sort("age", "salary", ascending=[False, True]).show()`
- B. `df.orderBy(col("age").asc(), col("salary").asc()).show()`
- C. `df.sort("age", "salary", ascending=[True, True]).show()`
- D. `df.orderBy("age", "salary", ascending=[True, False]).show()`

**Answer: D**

Explanation:

To sort a PySpark DataFrame by multiple columns with mixed sort directions, the correct usage is:

python

CopyEdit

```
df.orderBy("age", "salary", ascending=[True, False])
```

age will be sorted in ascending order

salary will be sorted in descending order

The orderBy() and sort() methods in PySpark accept a list of booleans to specify the sort direction for each column.

Documentation Reference: PySpark API - DataFrame.orderBy

### NEW QUESTION # 59

The following code fragment results in an error:

```
@F.udf(T.IntegerType())
```

```
def simple_udf(t: str) -> str:
```

```
    return answer * 3.14159
```

Which code fragment should be used instead?

- A. `@F.udf(T.IntegerType())`  
`def simple_udf(t: float) -> float:`  
 `return t * 3.14159`
- B. `@F.udf(T.DoubleType())`  
`def simple_udf(t: float) -> float:`  
 `return t * 3.14159`
- C. `@F.udf(T.IntegerType())`  
`def simple_udf(t: int) -> int:`  
 `return t * 3.14159`
- D. `@F.udf(T.DoubleType())`  
`def simple_udf(t: int) -> int:`  
 `return t * 3.14159`

**Answer: B**

Explanation:

The original code has several issues:

It references a variable answer that is undefined.

The function is annotated to return a str, but the logic attempts numeric multiplication.

The UDF return type is declared as T.IntegerType() but the function performs a floating-point operation, which is incompatible.

Option B correctly:

Uses DoubleType to reflect the fact that the multiplication involves a float (3.14159).  
 Declares the input as float, which aligns with the multiplication.  
 Returns a float, which matches both the logic and the schema type annotation.  
 This structure aligns with how PySpark expects User Defined Functions (UDFs) to be declared:  
 "To define a UDF you must specify a Python function and provide the return type using the relevant Spark SQL type (e.g., DoubleType for float results)." Example from official documentation:  

```
from pyspark.sql.functions import udf
from pyspark.sql.types import DoubleType
@udf(returnType=DoubleType())
def multiply_by_pi(x: float) -> float:
    return x * 3.14159
```

 This makes Option B the syntactically and semantically correct choice.

### NEW QUESTION # 60

A developer notices that all the post-shuffle partitions in a dataset are smaller than the value set for `spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold`.  
 Which type of join will Adaptive Query Execution (AQE) choose in this case?

- A. A Cartesian join
- **B. A shuffled hash join**
- C. A broadcast nested loop join
- D. A sort-merge join

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Adaptive Query Execution (AQE) dynamically selects join strategies based on actual data sizes at runtime. If the size of post-shuffle partitions is below the threshold set by:

`spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold`

then Spark prefers to use a shuffled hash join.

From the Spark documentation:

"AQE selects a shuffled hash join when the size of post-shuffle data is small enough to fit within the configured threshold, avoiding more expensive sort-merge joins." Therefore:

A is wrong - Cartesian joins are only used with no join condition.

B is correct - this is the optimized join for small partitioned shuffle data under AQE.

C and D are used under other scenarios but not for this case.

Final Answer: B

### NEW QUESTION # 61

A `DataFrame` has columns `name`, `age`, and `salary`. The developer needs to sort the `DataFrame` by `age` in ascending order and `salary` in descending order.

Which code snippet meets the requirement of the developer?

- A. `df.sort("age", "salary", ascending=[False, True]).show()`
- B. `df.orderBy(col("age").asc(), col("salary").asc()).show()`
- C. `df.sort("age", "salary", ascending=[True, True]).show()`
- **D. `df.orderBy("age", "salary", ascending=[True, False]).show()`**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To sort a PySpark `DataFrame` by multiple columns with mixed sort directions, the correct usage is:

python

CopyEdit

```
df.orderBy("age", "salary", ascending=[True, False])
```

`age` will be sorted in ascending order

`salary` will be sorted in descending order

The `orderBy()` and `sort()` methods in PySpark accept a list of booleans to specify the sort direction for each column.  
Documentation Reference: [PySpark API - DataFrame.orderBy](#)

#### NEW QUESTION # 62

A data analyst builds a Spark application to analyze finance data and performs the following operations: `filter`, `select`, `groupBy`, and `coalesce`.

Which operation results in a shuffle?

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

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The `groupBy()` 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()` and `select()` 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 (unlike `repartition()`).

Reference: [Apache Spark - Understanding Shuffle](#)

#### NEW QUESTION # 63

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