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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q45-Q50):

NEW QUESTION # 45

Which UDF implementation calculates the length of strings in a Spark DataFrame?

- A. `df.withColumn("length", udf(lambda s: len(s), StringType()))`
- B. `df.select(length(col("stringColumn")).alias("length"))`
- C. `df.withColumn("length", spark.udf("len", StringType()))`

- D. spark.udf.register("stringLength", lambda s: len(s))

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Option B uses Spark's built-in SQL function length(), which is efficient and avoids the overhead of a Python UDF:

```
from pyspark.sql.functions import length, col
df.select(length(col("stringColumn")).alias("length"))
```

Explanation of other options:

Option A is incorrect syntax; spark.udfs not called this way.

Option C registers a UDF but doesn't apply it in the DataFrame transformation.

Option D is syntactically valid but uses a Python UDF which is less efficient than built-in functions.

Final Answer: B

NEW QUESTION # 46

Which command overwrites an existing JSON file when writing a DataFrame?

- A. df.write.mode("overwrite").json("path/to/file")
- B. df.write.overwrite.json("path/to/file")
- C. df.write.json("path/to/file", overwrite=True)
- D. df.write.format("json").save("path/to/file", mode="overwrite")

Answer: A

Explanation:

The correct way to overwrite an existing file using the DataFrameWriter is:

```
df.write.mode("overwrite").json("path/to/file")
```

Option D is also technically valid, but Option A is the most concise and idiomatic PySpark syntax.

Reference:PySpark DataFrameWriter API

NEW QUESTION # 47

A developer wants to refactor some older Spark code to leverage built-in functions introduced in Spark 3.5.0.

The existing code performs array manipulations manually. Which of the following code snippets utilizes new built-in functions in Spark 3.5.0 for array operations?

```
import pyspark.sql.functions as F

min_price = 110.50

result_df = prices_df \
    .filter(F.col("spot_price") >= F.lit(min_price)) \
    .agg(F.count("*"))
```

A)

```
result_df = prices_df \
    .withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))
```

B)

```
result_df = prices_df \
    .agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))
```

C)

```
result_df = prices_df \
    .agg(F.min("spot_price"), F.max("spot_price"))
```

D)

```
result_df = prices_df \
    .agg(F.count("spot_price").alias("spot_price")) \
    .filter(F.col("spot_price") > F.lit("min_price"))
```

- A. result_df= prices_df\
 .agg(F.count("spot_price").alias("spot_price")) \
 .filter(F.col("spot_price") > F.lit("min_price"))
- B. result_df= prices_df\
 .agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))
- C. result_df= prices_df\
 .withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))
- D. result_df= prices_df\
 .agg(F.min("spot_price"), F.max("spot_price"))

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct answer is B because it uses the new function `count_if`, introduced in Spark 3.5.0, which simplifies conditional counting within aggregations.

* `F.count_if(condition)` counts the number of rows that meet the specified boolean condition.

* In this example, it directly counts how many times `spot_price >= min_price` evaluates to true, replacing the older verbose combination of `when/otherwise` and filtering or summing.

Official Spark 3.5.0 documentation notes the addition of `count_if` to simplify this kind of logic:

"Added `count_if` aggregate function to count only the rows where a boolean condition holds (SPARK-43773)."

Why other options are incorrect or outdated:

* Uses a legacy-style method of adding a flag column (`when().otherwise()`), which is verbose compared to `count_if`.

* C performs a simple min/max aggregation-useful but unrelated to conditional array operations or the updated functionality.

* D incorrectly applies `.filter()` after `.agg()` which will cause an error, and misuses string `"min_price"` rather than the variable.

Therefore, B is the only option leveraging new functionality from Spark 3.5.0 correctly and efficiently.

NEW QUESTION # 48

A developer needs to produce a Python dictionary using data stored in a small Parquet table, which looks like this:

region_id	region
1	AMERICA
3	EUROPE
0	AFRICA
4	MIDDLE EAST
2	ASIA

The resulting Python dictionary must contain a mapping of region -> region_id containing the smallest 3 region_id values.
Which code fragment meets the requirements?

A)

```
regions = dict(  
    regions_df \  
        .select('region', 'region_id') \  
        .sort('region_id') \  
        .take(3)  
)
```



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B)

```
regions = dict(  
    regions_df \  
        .select('region_id', 'region') \  
        .sort('region_id') \  
        .take(3)  
)
```



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C)

```
regions = dict(  
    regions_df \  
        .select('region_id', 'region') \  
        .limit(3)  
        .collect()  
)
```



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D)

```
regions = dict(  
    regions_df \  
        .select('region', 'region_id') \  
        .sort(desc('region_id')) \  
        .take(3)  
)
```



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The resulting Python dictionary must contain a mapping of region -> region_id for the smallest 3 region_id values.
Which code fragment meets the requirements?

- A. regions = dict(
 regions_df
 .select('region', 'region_id')
 .sort('region_id')
 .take(3)
)
- B. regions = dict(
 regions_df
 .select('region', 'region_id')
 .sort(desc('region_id'))
 .take(3)
)
- C. regions = dict(
 regions_df

```

        .select('region_id', 'region')
        .limit(3)
        .collect()
    )
    • D. regions = dict(
        regions_df
        .select('region_id', 'region')
        .sort('region_id')
        .take(3)
    )

```

Answer: A

Explanation:

The question requires creating a dictionary where keys are region values and values are the corresponding region_id integers. Furthermore, it asks to retrieve only the smallest 3 region_id values.

Key observations:

.select('region', 'region_id') puts the column order as expected by dict() - where the first column becomes the key and the second the value.

.sort('region_id') ensures sorting in ascending order so the smallest IDs are first.

.take(3) retrieves exactly 3 rows.

Wrapping the result in dict(...) correctly builds the required Python dictionary: {'AFRICA': 0, 'AMERICA': 1, 'ASIA': 2 }.

Incorrect options:

Option B flips the order to region_id first, resulting in a dictionary with integer keys - not what's asked.

Option C uses .limit(3) without sorting, which leads to non-deterministic rows based on partition layout.

Option D sorts in descending order, giving the largest rather than smallest region_ids.

Hence, Option A meets all the requirements precisely.

NEW QUESTION # 49

23 of 55.

A data scientist is working with a massive dataset that exceeds the memory capacity of a single machine. The data scientist is considering using Apache Spark™ instead of traditional single-machine languages like standard Python scripts.

Which two advantages does Apache Spark™ offer over a normal single-machine language in this scenario? (Choose 2 answers)

- A. It requires specialized hardware to run, making it unsuitable for commodity hardware clusters.
- **B. It can distribute data processing tasks across a cluster of machines, enabling horizontal scalability.**
- C. It eliminates the need to write any code, automatically handling all data processing.
- D. It processes data solely on disk storage, reducing the need for memory resources.
- **E. It has built-in fault tolerance, allowing it to recover seamlessly from node failures during computation.**

Answer: B,E

Explanation:

Apache Spark is a distributed data processing engine designed for large-scale, cluster-based computation.

Advantages:

Horizontal Scalability: Spark can distribute tasks across many machines, handling datasets larger than the memory of a single node.

Fault Tolerance: Spark automatically recovers from node or task failures using the lineage graph (RDD recovery mechanism) and retry logic.

These two features allow Spark to process huge datasets efficiently and reliably, unlike standard Python scripts that are limited to one machine and fail on single-node errors.

Why the other options are incorrect:

B: Spark runs on commodity hardware; no specialized machines required.

C: Spark emphasizes in-memory processing, not disk-only operations.

D: Spark still requires user code in Python, Scala, SQL, or Java.

Reference:

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - advantages, cluster execution, and fault tolerance.

Apache Spark Overview - distributed processing and resilience design.

NEW QUESTION # 50

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