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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q37-Q42):

### NEW QUESTION # 37

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



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

B)

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

C)

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

D)



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

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(\n regions_df\n .select('region', 'region_id')\n .sort('region_id')\n .take(3)\n)`
- B. `regions = dict(\n regions_df\n .select('region_id', 'region')\n .limit(3)\n .collect()\n)`
- C. `regions = dict(\n regions_df\n .select('region_id', 'region')\n .sort('region_id')\n .take(3)\n)`
- D. `regions = dict(\n regions_df\n .select('region', 'region_id')\n .sort(desc('region_id'))\n .take(3)\n)`

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

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 # 38

A data engineer uses a broadcast variable to share a DataFrame containing millions of rows across executors for lookup purposes. What will be the outcome?

- A. The job may fail because the driver does not have enough CPU cores to serialize the large DataFrame
- **B. The job may fail if the memory on each executor is not large enough to accommodate the DataFrame being broadcasted**
- C. The job may fail if the executors do not have enough CPU cores to process the broadcasted dataset
- D. The job will hang indefinitely as Spark will struggle to distribute and serialize such a large broadcast variable to all executors

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Apache Spark, broadcast variables are used to efficiently distribute large, read-only data to all worker nodes. However, broadcasting very large datasets can lead to memory issues on executors if the data does not fit into the available memory.

According to the Spark documentation:

"Broadcast variables allow the programmer to keep a read-only variable cached on each machine rather than shipping a copy of it with tasks. This can greatly reduce the amount of data sent over the network." However, it also notes:

"Using the broadcast functionality available in SparkContext can greatly reduce the size of each serialized task, and the cost of launching a job over a cluster. If your tasks use any large object from the driver program inside of them (e.g., a static lookup table), consider turning it into a broadcast variable." But caution is advised when broadcasting large datasets:

"Broadcasting large variables can cause out-of-memory errors if the data does not fit in the memory of each executor." Therefore, if the broadcasted DataFrame containing millions of rows exceeds the memory capacity of the executors, the job may fail due to memory constraints.

Reference: Spark 3.5.5 Documentation - Tuning

### NEW QUESTION # 39

What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

Options:

- A. A stage contains multiple jobs, and each job contains multiple tasks.
- B. A stage contains multiple tasks, and each task contains multiple jobs.
- **C. A job contains multiple stages, and each stage contains multiple tasks.**
- D. A job contains multiple tasks, and each task contains multiple stages.

**Answer: C**

Explanation:

A Spark job is triggered by an action (e.g., count, show).

The job is broken into stages, typically one per shuffle boundary.

Each stage is divided into multiple tasks, which are distributed across worker nodes.

Reference: Spark Execution Model

### NEW QUESTION # 40

10 of 55.

What is the benefit of using Pandas API on Spark for data transformations?

- **A. It executes queries faster using all the available cores in the cluster as well as provides Pandas's rich set of features.**
- B. It runs on a single node only, utilizing memory efficiently.
- C. It computes results immediately using eager execution.
- D. It is available only with Python, thereby reducing the learning curve.

**Answer: A**

Explanation:

Pandas API on Spark provides a distributed implementation of the Pandas DataFrame API on top of Apache Spark.

Advantages:

Executes transformations in parallel across all nodes and cores in the cluster.

Maintains Pandas-like syntax, making it easy for Python users to transition.  
Enables scaling of existing Pandas code to handle large datasets without memory limits.  
Therefore, it combines Pandas usability with Spark's distributed power, offering both speed and scalability.

Why the other options are incorrect:

B: While it uses Python, that's not its main advantage.

C: It runs distributed across the cluster, not on a single node.

D: Pandas API on Spark uses lazy evaluation, not eager computation.

Reference:

PySpark Pandas API Overview - advantages of distributed execution.

Databricks Exam Guide (June 2025): Section "Using Pandas API on Apache Spark" - explains the benefits of Pandas API integration for scalable transformations.

#### NEW QUESTION # 41

A data scientist is working on a project that requires processing large amounts of structured data, performing SQL queries, and applying machine learning algorithms. The data scientist is considering using Apache Spark for this task.

Which combination of Apache Spark modules should the data scientist use in this scenario?

Options:

- A. Spark DataFrames, Structured Streaming, and GraphX
- B. Spark Streaming, GraphX, and Pandas API on Spark
- C. Spark SQL, Pandas API on Spark, and Structured Streaming
- **D. Spark DataFrames, Spark SQL, and MLlib**

**Answer: D**

Explanation:

Comprehensive

To cover structured data processing, SQL querying, and machine learning in Apache Spark, the correct combination of components is:

Spark DataFrames: for structured data processing

Spark SQL: to execute SQL queries over structured data

MLlib: Spark's scalable machine learning library

This trio is designed for exactly this type of use case.

Why other options are incorrect:

A: GraphX is for graph processing - not needed here.

B: Pandas API on Spark is useful, but MLlib is essential for ML, which this option omits.

C: Spark Streaming is legacy; GraphX is irrelevant here.

#### NEW QUESTION # 42

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