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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q104-Q109):

NEW QUESTION # 104

You're working with a real-time streaming application using Spark Streaming. How can you ensure that your application gracefully handles late-arriving data and maintains data consistency?

- A. Recompute the entire stream from scratch for each late record
- B. Use Spark's checkpointing functionality to recover from failures
- **C. Implement micro-batching with windowing and watermarking techniques**
- D. Ignore late-arriving data altogether

Answer: C

Explanation:

Ignoring or reprocessing the entire stream is inefficient and introduces inconsistencies. Spark Streaming's micro-batching processes data in small chunks (micro-batches), allowing for handling late-arriving data within appropriate windows. Watermarking helps identify the boundary between on-time and late data, ensuring consistency and avoiding duplicate processing.

NEW QUESTION # 105

In the context of packaging a PySpark application, what is the purpose of the 'requirements.txt' file?

- A. To list all the third-party dependencies required by the application.
- B. To define the Spark version compatible with the application.
- C. To list the environment variables needed for the application.
- D. To specify the Python version required for the application.

Answer: A

Explanation:

The 'requirements.txt' file is used to list all third-party libraries (dependencies) that the PySpark application needs. These dependencies are then installed using pip.

NEW QUESTION # 106

What does setting the Spark configuration parameter `spark.sql.shuffle.partitions` impact?

- A. The serialization format of data
- B. The compression codec used for shuffle files
- C. The memory allocation for executor instances
- D. The default level of parallelism for joins and aggregations

Answer: D

Explanation:

The `spark.sql.shuffle.partitions` configuration parameter sets the number of partitions to use when shuffling data for joins or aggregations, which directly impacts the level of parallelism and the performance of these operations. A high number of partitions can lead to smaller tasks, potentially improving parallelism but at the cost of increased scheduling overhead. Conversely, too few partitions can lead to fewer, larger tasks, possibly causing out-of-memory errors or underutilizing the cluster.

NEW QUESTION # 107

In Spark, when is it most beneficial to use the `repartitionByRange` method?

- A. When decreasing the number of partitions to reduce task scheduling overhead.
- B. When sorting data within each partition by a specified column or set of columns is required.
- C. When minimizing network traffic during shuffle operations is the primary concern.
- D. When the data is highly skewed and a uniform distribution of data across partitions is required.

Answer: B

Explanation:

The `repartitionByRange` method is used to repartition the data based on a range of values, which effectively sorts the data within each partition according to the specified columns. This can be beneficial for performance optimization in scenarios where sorted data can improve the efficiency of subsequent operations, such as range-based queries or when preparing data for window functions. While Option A mentions data skew, `repartitionByRange` is specifically designed for sorting rather than uniformly distributing skewed data. Option B and D address different concerns related to shuffle operations and task scheduling, which are not the primary purposes of `repartitionByRange`.

NEW QUESTION # 108

When deploying a Spark application on Cloudera Data Engineering (CDE), a service managed on Kubernetes, which command would you use to specify resource requirements such as CPU and memory for the Spark executor?

- A.

```
spark-submit --deploy-mode cluster --conf spark.kubernetes.executor.request.cores=2 --conf spark.kubernetes.executor.limit.memory=4g
```
- B.

```
kubectl set resources deployment my-spark-app --limits(cpu=2, memory=4Gi)
```
- C.

```
cd /opt/cloudera/parcels/CDP-spark2/2.4.0-1.cdh6.3.0-1.cde2.4.0-1.2.0/parcels/CDP-spark2/2.4.0-1.cdh6.3.0-1.cde2.4.0-1.2.0/libexec/python
```

- D. 

Answer: C

Explanation:

When deploying a Spark application on CDE service, which is managed on Kubernetes, you would typically use the CDE CLI to submit and configure your Spark jobs. The correct command would involve the `cde spark submit` command along with `-conf` flags to specify configuration options such as executor memory and cores. This approach is tailored to the CDE environment, leveraging its CLI for configuration rather than directly interfacing with Kubernetes (`kubectl`) or using the generic `spark-submit` command.

NEW QUESTION # 109

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