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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q69-Q74):

NEW QUESTION # 69
A company has a data processing pipeline that runs multiple SQL queries in sequence against an Amazon Redshift cluster. After a merger, a query joining two large sales tables becomes slow. Table S1 has 10 billion records, Table S2 has 900 million records. The query performance must improve.

- A. Use the Amazon Redshift query optimizer to review and select optimizations to implement.
- B. Use the KEY distribution style for both sales tables. Select a low cardinality column to use for the join.
- C. Use Amazon Redshift Advisor to review and select optimizations to implement.

- D. Use the KEY distribution style for both sales tables. Select a high cardinality column to use for the join.
- E. Use the EVEN distribution style for Table S1. Use the ALL distribution style for Table S2.

Answer: C,D

Explanation:
To optimize joins between large tables, Redshift recommends using KEY distribution on a common, high- cardinality join key to ensure co-location of data blocks. The Amazon Redshift Advisor identifies performance bottlenecks and provides recommendations for distribution and sort keys.
"Use KEY distribution when joining large tables on a common high-cardinality column. Use Redshift Advisor to identify query optimization opportunities."

NEW QUESTION # 70
A hotel management company receives daily data files from each of its hotels. The company wants to upload its data to AWS. The company plans to use Amazon Athena to access the files. The company needs to protect the files from accidental deletion. The company will develop an application on its on-premises servers to automatically forward the files to a fully managed AWS ingestion service.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use the Amazon Kinesis Agent on the on-premises servers to send data to Amazon Data Firehose. Store the data in an Amazon S3 bucket that has versioning enabled.
- B. Use AWS DataSync to replicate data from the on-premises servers to Amazon Elastic File System (Amazon EFS). Configure automatic backups in AWS Backup.
- C. Use a self-managed Apache Kafka agent on the on-premises servers to stream data to Amazon Managed Streaming for Apache Kafka (Amazon MSK). Store the data in an Amazon S3 bucket with versioning enabled.
- D. Use AWS Glue jobs to ingest data from the on-premises servers into Amazon RDS. Enable automated backups for data protection.

Answer: A

Explanation:
Comprehensive and Detailed Explanation (150-250 words)
Amazon Kinesis Data Firehose is a fully managed data ingestion service that enables reliable and scalable delivery of streaming and batch data into Amazon S3 with minimal operational overhead. This directly satisfies the requirement for a fully managed AWS ingestion service while avoiding the need to provision, scale, or manage infrastructure.
By using the Amazon Kinesis Agent on the on-premises servers, the company can automatically forward daily data files to Kinesis Data Firehose. Firehose handles buffering, retry logic, scaling, and delivery without requiring administrative effort. Delivering the data to Amazon S3 allows seamless integration with Amazon Athena, which natively queries data stored in S3 without requiring data movement or transformation.
Enabling Amazon S3 versioning protects files from accidental deletion by preserving previous versions of objects. This aligns with AWS best practices for data durability and governance, especially for analytics workloads and compliance requirements.
Other options introduce unnecessary operational complexity. AWS DataSync with Amazon EFS is not optimized for Athena-based analytics. AWS Glue jobs and Amazon RDS are unsuitable for file-based analytical access. A self-managed Apache Kafka solution with Amazon MSK significantly increases operational overhead.
Therefore, option B is the most efficient, scalable, and operationally optimal solution according to AWS Certified Data Engineer - Associate best practices.

NEW QUESTION # 71
A company stores CSV files in an Amazon S3 bucket. A data engineer needs to process the data in the CSV files and store the processed data in a new S3 bucket.
The process needs to rename a column, remove specific columns, ignore the second row of each file, create a new column based on the values of the first row of the data, and filter the results by a numeric value of a column.
Which solution will meet these requirements with the LEAST development effort?

- A. Use an AWS Glue workflow to build a set of jobs to crawl and transform the CSV files.
- B. Use AWS Glue DataBrew recipes to read and transform the CSV files.
- C. Use AWS Glue Python jobs to read and transform the CSV files.
- D. Use an AWS Glue custom crawler to read and transform the CSV files.

Answer: B

NEW QUESTION # 72
A company uses Amazon Redshift as its data warehouse service. A data engineer needs to design a physical data model.
The data engineer encounters a de-normalized table that is growing in size. The table does not have a suitable column to use as the distribution key.
Which distribution style should the data engineer use to meet these requirements with the LEAST maintenance overhead?

- A. ALL distribution
- B. AUTO distribution
- C. EVEN distribution
- D. KEY distribution

Answer: C

NEW QUESTION # 73
A technology company currently uses Amazon Kinesis Data Streams to collect log data in real time. The company wants to use Amazon Redshift for downstream real-time queries and to enrich the log data.
Which solution will ingest data into Amazon Redshift with the LEAST operational overhead?

- A. Configure Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to send data directly to a Redshift provisioned cluster table.
- B. Use Amazon Redshift streaming ingestion from Kinesis Data Streams and to present data as a materialized view.
- C. Set up an Amazon Data Firehose delivery stream to send data to Amazon S3. Configure a Redshift provisioned cluster to load data every minute.
- D. Set up an Amazon Data Firehose delivery stream to send data to a Redshift provisioned cluster table.

Answer: B

Explanation:
The most efficient and low-operational-overhead solution for ingesting data into Amazon Redshift from Amazon Kinesis Data Streams is to use Amazon Redshift streaming ingestion. This feature allows Redshift to directly ingest streaming data from Kinesis Data Streams and process it in real-time.
* Amazon Redshift Streaming Ingestion:
* Redshift supports native streaming ingestion from Kinesis Data Streams, allowing real-time data to be queried using materialized views.
* This solution reduces operational complexity because you don't need intermediary services like Amazon Kinesis Data Firehose or S3 for batch loading.

NEW QUESTION # 74
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