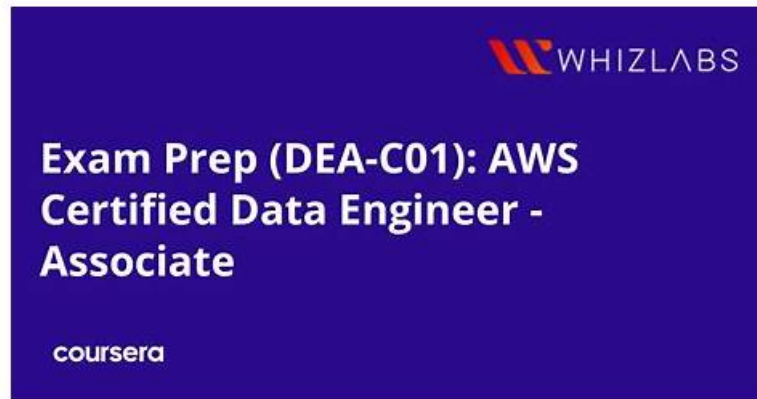


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## Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q107-Q112):

### NEW QUESTION # 107

A company's data engineer needs to optimize the performance of table SQL queries. The company stores data in an Amazon Redshift cluster. The data engineer cannot increase the size of the cluster because of budget constraints.

The company stores the data in multiple tables and loads the data by using the EVEN distribution style. Some tables are hundreds of gigabytes in size. Other tables are less than 10 MB in size.

Which solution will meet these requirements?

- A. Use the ALL distribution style for rarely updated small tables. Specify primary and foreign keys for all tables.
- B. Keep using the EVEN distribution style for all tables. Specify primary and foreign keys for all tables.
- C. Specify a combination of distribution, sort, and partition keys for all tables.

- D. Use the ALL distribution style for large tables. Specify primary and foreign keys for all tables.

**Answer: C**

Explanation:

This solution meets the requirements of optimizing the performance of table SQL queries without increasing the size of the cluster. By using the ALL distribution style for rarely updated small tables, you can ensure that the entire table is copied to every node in the cluster, which eliminates the need for data redistribution during joins. This can improve query performance significantly, especially for frequently joined dimension tables. However, using the ALL distribution style also increases the storage space and the load time, so it is only suitable for small tables that are not updated frequently or extensively. By specifying primary and foreign keys for all tables, you can help the query optimizer to generate better query plans and avoid unnecessary scans or joins. You can also use the AUTO distribution style to let Amazon Redshift choose the optimal distribution style based on the table size and the query patterns.

Reference:

Choose the best distribution style

Distribution styles

Working with data distribution styles

### NEW QUESTION # 108

A company needs to use an AWS Glue PySpark job to read specific data from an Amazon DynamoDB table.

The company knows the partition key values for the required records. The existing processing logic of the AWS Glue PySpark job requires the data to be in DynamicFrame format. The company needs a solution to ensure that the job reads only the specified data. Which solution will meet this requirement with the MINIMUM number of read capacity units (RCUs)?

- A. Perform a scan on the DynamoDB table in the AWS Glue job. Put the data into a DynamicFrame. Filter the DynamicFrame on the partition key.
- B. Use the AWS Glue DynamoDB ETL connector to read the DynamoDB table. Use the filter option to read the required partition key.
- C. Perform a query on the DynamoDB table in the AWS Glue job by using only the sort key in the key condition expression. Load the data into a DynamicFrame.
- **D. Perform a query on the DynamoDB table in the AWS Glue job. Use the partition key in the key condition expression. Put the data into a DynamicFrame.**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation (150-250 words)

Amazon DynamoDB is optimized for Query operations, which retrieve items efficiently using the partition key and optionally the sort key. Queries consume significantly fewer RCUs than Scan operations because only matching partitions are read.

By performing a Query using the partition key in the key condition expression, the AWS Glue job reads only the required items directly from DynamoDB. This minimizes the number of read capacity units consumed and avoids unnecessary reads.

Using a Scan operation, even when followed by filtering in a DynamicFrame, consumes RCUs for the entire table or index and is highly inefficient. Using only the sort key in a query is invalid without the partition key and would not meet DynamoDB query requirements. The Glue DynamoDB connector filter option still performs a scan under the hood and does not minimize RCUs.

The queried data can be directly loaded into a DynamicFrame, satisfying the existing processing logic requirement without additional transformations.

Therefore, Option D provides the most efficient and cost-effective solution.

### NEW QUESTION # 109

A company has used an Amazon Redshift table that is named Orders for 6 months. The company performs weekly updates and deletes on the table. The table has an interleaved sort key on a column that contains AWS Regions.

The company wants to reclaim disk space so that the company will not run out of storage space. The company also wants to analyze the sort key column.

Which Amazon Redshift command will meet these requirements?

- A. VACUUM DELETE ONLY Orders
- B. VACUUM FULL Orders
- C. VACUUM SORT ONLY Orders
- **D. VACUUM REINDEX Orders**

**Answer: D**

Explanation:

Amazon Redshift is a fully managed, petabyte-scale data warehouse service that enables fast and cost-effective analysis of large volumes of data. Amazon Redshift uses columnar storage, compression, and zone maps to optimize the storage and performance of data. However, over time, as data is inserted, updated, or deleted, the physical storage of data can become fragmented, resulting in wasted disk space and degraded query performance. To address this issue, Amazon Redshift provides the VACUUM command, which reclaims disk space and resorts rows in either a specified table or all tables in the current schema.

The VACUUM command has four options: FULL, DELETE ONLY, SORT ONLY, and REINDEX. The option that best meets the requirements of the question is VACUUM REINDEX, which re-sorts the rows in a table that has an interleaved sort key and rewrites the table to a new location on disk. An interleaved sort key is a type of sort key that gives equal weight to each column in the sort key, and stores the rows in a way that optimizes the performance of queries that filter by multiple columns in the sort key. However, as data is added or changed, the interleaved sort order can become skewed, resulting in suboptimal query performance. The VACUUM REINDEX option restores the optimal interleaved sort order and reclaims disk space by removing deleted rows. This option also analyzes the sort key column and updates the table statistics, which are used by the query optimizer to generate the most efficient query execution plan.

The other options are not optimal for the following reasons:

A. VACUUM FULL Orders. This option reclaims disk space by removing deleted rows and resorts the entire table. However, this option is not suitable for tables that have an interleaved sort key, as it does not restore the optimal interleaved sort order. Moreover, this option is the most resource-intensive and time-consuming, as it rewrites the entire table to a new location on disk.

B. VACUUM DELETE ONLY Orders. This option reclaims disk space by removing deleted rows, but does not resort the table. This option is not suitable for tables that have any sort key, as it does not improve the query performance by restoring the sort order. Moreover, this option does not analyze the sort key column and update the table statistics.

D. VACUUM SORT ONLY Orders. This option resorts the entire table, but does not reclaim disk space by removing deleted rows. This option is not suitable for tables that have an interleaved sort key, as it does not restore the optimal interleaved sort order. Moreover, this option does not analyze the sort key column and update the table statistics.

1: Amazon Redshift VACUUM

2: Amazon Redshift Interleaved Sorting

3: Amazon Redshift ANALYZE

### NEW QUESTION # 110

A company is using an AWS Transfer Family server to migrate data from an on-premises environment to AWS. Company policy mandates the use of TLS 1.2 or above to encrypt the data in transit.

Which solution will meet these requirements?

- A. Generate new SSH keys for the Transfer Family server. Make the old keys and the new keys available for use.
- B. Update the security group rules for the on-premises network to allow only connections that use TLS 1.2 or above.
- C. Install an SSL certificate on the Transfer Family server to encrypt data transfers by using TLS 1.2.
- **D. Update the security policy of the Transfer Family server to specify a minimum protocol version of TLS 1.2.**

**Answer: D**

Explanation:

The AWS Transfer Family server's security policy can be updated to enforce TLS 1.2 or higher, ensuring compliance with company policy for encrypted data transfers.

AWS Transfer Family Security Policy:

AWS Transfer Family supports setting a minimum TLS version through its security policy configuration. This ensures that only connections using TLS 1.2 or above are allowed.

Reference:

Alternatives Considered:

A (Generate new SSH keys): SSH keys are unrelated to TLS and do not enforce encryption protocols like TLS 1.2.

B (Update security group rules): Security groups control IP-level access, not TLS versions.

D (Install SSL certificate): SSL certificates ensure secure connections, but the TLS version is controlled via the security policy.

AWS Transfer Family Documentation

### NEW QUESTION # 111

A company runs concurrent analytical queries on Amazon Redshift tables multiple times each day. The queries require consistent data views three times each day. The company runs extract, transform, and load (ETL) operations that update dimension tables

while the queries run. The company has noticed that the queries cause table-level locks during the ETL operations. The company's current solution experiences query timeouts and deadlocks during peak processing hours, which affects analytical reporting and on-demand analysis.

Which solution will fix this issue?

- A. Deploy separate Amazon Redshift clusters for ETL and analytics workloads. Use cross-database queries and data sharing to maintain data consistency.
- B. Use Amazon Redshift materialized views for analytical queries. Schedule ETL operations during off-peak hours to minimize lock contention.
- C. Configure Amazon Redshift federated queries to access source data directly. Use read replicas to isolate analytical workloads from ETL operations.
- D. Use Amazon Redshift Spectrum to query data in Amazon S3 for analytical workloads. Maintain ETL operations on Amazon Redshift tables with transaction isolation.

**Answer: A**

Explanation:

Option D is correct because the problem is lock contention between ETL writes and analytical reads on the same Redshift tables. AWS documents that table locks can block both reads and writes, and that Redshift data sharing lets you share live data across Redshift clusters and workgroups without manually moving or copying the data. Because the shared data is live, consumer users see the most up-to-date information as soon as it is updated. Separating ETL and analytics onto different Redshift clusters while using data sharing is therefore the cleanest way to isolate workloads and still provide consistent data views.

Option A reduces contention only by changing schedules and does not fully solve concurrent peak-hour conflicts. Option B is not correct because Redshift federated queries are read-only against external sources and do not provide a Redshift "read replica" design for this case. Option C does not address the locking problem on the dimension tables that ETL is updating. The official Redshift guidance and service capabilities point to workload isolation plus data sharing as the best fix. This also matches the exam guide's emphasis on choosing architectures that maintain performance and consistency without unnecessary copying.

## NEW QUESTION # 112

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