

# Test DEA-C01 Questions Fee - Test DEA-C01 King



## DEA-C01 STUDY GUIDE AND HOW TO CRACK EXAM ON DATA ENGINEER ASSOCIATE?

DEA-C01 Practice Test and Preparation Guide



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All the given practice questions in the desktop software are identical to the SnowPro Advanced: Data Engineer Certification Exam (DEA-C01) actual test. Windows computers support the desktop practice test software. Pass4sureCert has a complete support team to fix issues of Snowflake DEA-C01 PDF QUESTIONS software users. Pass4sureCert practice tests (desktop and web-based) produce score report at the end of each attempt. So, that users get awareness of their SnowPro Advanced: Data Engineer Certification Exam (DEA-C01) preparation status and remove their mistakes.

### Snowflake DEA-C01 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>Security: The Security topic of the DEA-C01 test covers the principles of Snowflake security, including the management of system roles and data governance. It measures the ability to secure data and ensure compliance with policies, crucial for maintaining secure data environments for Snowflake Data Engineers and Software Engineers.</li></ul>                              |
| Topic 2 | <ul style="list-style-type: none"><li>Storage and Data Protection: The topic tests the implementation of data recovery features and the understanding of Snowflake's Time Travel and micro-partitions. Engineers are evaluated on their ability to create new environments through cloning and ensure data protection, highlighting essential skills for maintaining Snowflake data integrity and accessibility.</li></ul> |
| Topic 3 | <ul style="list-style-type: none"><li>Data Movement: Snowflake Data Engineers and Software Engineers are assessed on their proficiency to load, ingest, and troubleshoot data in Snowflake. It evaluates skills in building continuous data pipelines, configuring connectors, and designing data sharing solutions.</li></ul>                                                                                             |

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|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Performance Optimization:</b> This topic assesses the ability to optimize and troubleshoot underperforming queries in Snowflake. Candidates must demonstrate knowledge in configuring optimal solutions, utilizing caching, and monitoring data pipelines. It focuses on ensuring engineers can enhance performance based on specific scenarios, crucial for Snowflake Data Engineers and Software Engineers.</li> </ul>       |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Data Transformation:</b> The SnowPro Advanced: Data Engineer exam evaluates skills in using User-Defined Functions (UDFs), external functions, and stored procedures. It assesses the ability to handle semi-structured data and utilize Snowpark for transformations. This section ensures Snowflake engineers can effectively transform data within Snowflake environments, critical for data manipulation tasks.</li> </ul> |

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## Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q158-Q163):

### NEW QUESTION # 158

A company uses Amazon S3 and AWS Glue Data Catalog to manage a data lake that contains contact information for customers. The company uses PySpark and AWS Glue jobs with a `DynamicFrame` to run a workflow that processes data within the data lake. A data engineer notices that the workflow is generating errors as a result of how customer postal codes are stored in the data lake. Some postal codes include unnecessary numbers or invalid characters. The data engineer needs a solution to address the errors and correct the postal codes in the data lake.

- **A. Create a schema definition for PySpark that matches the format the processing workflow requires for postal codes. Pass the schema to the `DynamicFrame` during processing.**
- B. Use AWS Glue workflow properties to allow job state sharing. Configure the AWS Glue jobs to read values from the postal code column by using the properties from a previously successful run of the jobs.
- C. Set the `DynamicFrame` `additional_options` parameter `'useS3ListImplementation'` to `True`.
- D. Configure the `column.push_down_predicate` setting and the `catalogPartitionPredicate` settings for the postal code column in the `DynamicFrame`.

**Answer: A**

Explanation:

By defining and enforcing a strict schema in PySpark that specifies the exact format you expect for postal codes (for example, a string of five digits), Spark will automatically flag or coerce any values that don't match. Passing that schema into your Glue `DynamicFrame` ensures that malformed postal codes are identified and can be corrected or filtered out as part of your ETL logic, eliminating the downstream errors.

### NEW QUESTION # 159

While running an external function, the following error message is received:

Error: function received the wrong number of rows

What is causing this to occur?

- A. The JSON returned by the remote service is not constructed correctly
- B. Nested arrays are not supported in the JSON response
- C. External functions do not support multiple rows
- **D. The return message did not produce the same number of rows that it received**

**Answer: D**

Explanation:

Explanation

The error message "function received the wrong number of rows" is caused by the return message not producing the same number of rows that it received. External functions require that the remote service returns exactly one row for each input row that it receives from Snowflake. If the remote service returns more or fewer rows than expected, Snowflake will raise an error and abort the function execution. The other options are not causes of this error message. Option A is incorrect because external functions do support multiple rows as long as they match the input rows. Option B is incorrect because nested arrays are supported in the JSON response as long as they conform to the return type definition of the external function. Option C is incorrect because the JSON returned by the remote service may be constructed correctly but still produce a different number of rows than expected.

#### NEW QUESTION # 160

Company DEF has a strict security policy that mandates that all data at rest in Amazon S3 must be encrypted. They want to ensure that the encryption keys are managed by AWS, but they also want the flexibility to change the encryption keys when required.

Which of the following encryption methods best meets Company DEF's requirements?

- A. Server-Side Encryption with AWS Key Management Service (SSE-KMS).
- B. Server-Side Encryption with Customer-Provided Keys (SSE-C).
- C. Client-Side Encryption with a client-side master key.
- D. Server-Side Encryption with Amazon S3 Managed Keys (SSE-S3).

**Answer: A**

#### NEW QUESTION # 161

Which functions will compute a 'fingerprint' over an entire table, query result, or window to quickly detect changes to table contents or query results? (Select TWO).

- A. HASH\_AGG(<expr>, <expr>)
- B. HASH\_AGG(\*)
- C. HASH (\*)
- D. HASH COMPARE(\*)
- E. HASH\_AGG\_COMPARE (\*)

**Answer: A,B**

Explanation:

Explanation

The functions that will compute a 'fingerprint' over an entire table, query result, or window to quickly detect changes to table contents or query results are:

HASH\_AGG(\*): This function computes a hash value over all columns and rows in a table, query result, or window. The function returns a single value for each group defined by a GROUP BY clause, or a single value for the entire input if no GROUP BY clause is specified.

HASH\_AGG(<expr>, <expr>): This function computes a hash value over two expressions in a table, query result, or window. The function returns a single value for each group defined by a GROUP BY clause, or a single value for the entire input if no GROUP BY clause is specified. The other functions are not correct because:

HASH (\*): This function computes a hash value over all columns in a single row. The function returns one value per row, not one value per table, query result, or window.

HASH\_AGG\_COMPARE (): This function compares two hash values computed by HASH\_AGG() over two tables or query results and returns true if they are equal or false if they are different. The function does not compute a hash value itself, but rather compares two existing hash values.

HASH COMPARE(): This function compares two hash values computed by HASH() over two rows and returns true if they are equal or false if they are different. The function does not compute a hash value itself, but rather compares two existing hash values.

#### NEW QUESTION # 162

A company is migrating its database servers from Amazon EC2 instances that run Microsoft SQL Server to Amazon RDS for Microsoft SQL Server DB instances. The company's analytics team must export large data elements every day until the migration is complete. The data elements are the result of SQL joins across multiple tables. The data must be in Apache Parquet format. The

analytics team must store the data in Amazon S3.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Create an AWS Lambda function that queries the EC2 instance-based databases by using Java Database Connectivity (JDBC). Configure the Lambda function to retrieve the required data, transform the data into Parquet format, and transfer the data into an S3 bucket. Use Amazon EventBridge to schedule the Lambda function to run every day.
- B. Schedule SQL Server Agent to run a daily SQL query that selects the desired data elements from the EC2 instance-based SQL Server databases. Configure the query to direct the output .csv objects to an S3 bucket. Create an S3 event that invokes an AWS Lambda function to transform the output format from .csv to Parquet.
- C. Use a SQL query to create a view in the EC2 instance-based SQL Server databases that contains the required data elements. Create and run an AWS Glue crawler to read the view.  
Create an AWS Glue job that retrieves the data and transfers the data in Parquet format to an S3 bucket. Schedule the AWS Glue job to run every day.
- **D. Create a view in the EC2 instance-based SQL Server databases that contains the required data elements. Create an AWS Glue job that selects the data directly from the view and transfers the data in Parquet format to an S3 bucket. Schedule the AWS Glue job to run every day.**

**Answer: D**

## NEW QUESTION # 163

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