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## **Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q295-Q300):**

### **NEW QUESTION # 295**

A data engineer is using the Snowflake Spark connector to write data to a Snowflake table. The write operation fails consistently with the error 'net.snowflake.client.jdbc.SnowflakeSQLException: SQL execution error: String ' is too long (maximum is

16777216)'. Which of the following is the most likely cause and how can it be resolved using Spark Connector?

- The error indicates that a String column in the Snowflake table is not large enough to accommodate the data being written. Increase the size of the column in Snowflake using 'ALTER TABLE'.
- The Snowflake warehouse is overloaded. Increase the warehouse size to improve performance and resolve the error.
- Spark is attempting to write null values to a non-nullable column in Snowflake. Update the Spark code to handle null values appropriately or use a default value.
- One or more string fields in the Spark DataFrame exceed the maximum allowed length for string columns in Snowflake (16MB). Truncate the string fields in the Spark DataFrame before writing to Snowflake. A potential solution using Spark is `df.withColumn("column_name", substring(col("column_name"), 0, 16777216))`
- The Snowflake Spark connector is not configured correctly. Verify the connection parameters and ensure that the correct Snowflake account and warehouse are specified.

- A. Option A
- B. Option D
- C. Option E
- D. Option B
- E. Option C

**Answer: B**

Explanation:

The error message clearly states that a string is too long. While options A might seem plausible, it is better to pre-process data on spark using `substring(0, 16777216)`. This helps to ensure data conforms to the desired constraints before reaching snowflake. Option B addresses performance, but is not a root cause of the error. Option C relates to nulls but the error message is for maximum string length.

#### NEW QUESTION # 296

You have a table 'EMPLOYEE DATA' containing Personally Identifiable Information (PII), including 'salary' and 'email'. You need to implement column-level security such that: 1) The 'salary' column is only visible to users in the 'FINANCE ROLE'. 2) The 'email' column is masked with a SHA256 hash for all users except those in the 'HR ROLE'. You create the following masking policies:

```
CREATE MASKING POLICY mask_salary AS (val NUMBER) RETURNS NUMBER ->
CASE
    WHEN CURRENT_ROLE() IN ('FINANCE_ROLE') THEN val
    ELSE NULL
END;

CREATE MASKING POLICY mask_email AS (val VARCHAR) RETURNS VARCHAR ->
CASE
    WHEN CURRENT_ROLE() IN ('HR_ROLE') THEN val
    ELSE SHA256(val)
END;
```

Which of the following SQL statements correctly applies these masking policies to the 'EMPLOYEE DATA' table?

- A. ALTER TABLE EMPLOYEE\_DATAAPPLY MASKING POLICY mask\_salary ON COLUMN salary; ALTER TABLE EMPLOYEE\_DATAAPPLY MASKING POLICY mask\_email ON COLUMN email;
- B. ALTER TABLE EMPLOYEE\_DATA MODIFY COLUMN salary SET MASKING POLICY mask\_salary; ALTER TABLE EMPLOYEE\_DATA MODIFY COLUMN email SET MASKING POLICY mask\_email;
- C. ALTER TABLE EMPLOYEE\_DATAALTER COLUMN salary SET MASKING POLICY mask\_salary; ALTER TABLE EMPLOYEE\_DATAALTER COLUMN email SET MASKING POLICY mask\_email;
- D. ALTER TABLE EMPLOYEE\_DATA MODIFY COLUMN salary SET MASKING POLICY = mask\_salary; ALTER TABLE EMPLOYEE\_DATA MODIFY COLUMN email SET MASKING POLICY = mask\_email;
- E. CREATE OR REPLACE TAG employee\_data.salary VALUE 'mask\_salary'; CREATE OR REPLACE TAG employee\_data.email VALUE 'mask\_email';

**Answer: C**

Explanation:

The correct syntax for applying a masking policy to a column is 'ALTER TABLE ALTER COLUMN SET MASKING POLICY'. 'MODIFY COLUMN' is used for changing data types or constraints, not applying masking policies. The sign after 'SET MASKING POLICY' is incorrect syntax. There's no 'APPLY MASKING POLICY' command in Snowflake.

#### NEW QUESTION # 297

You are tasked with optimizing a data pipeline that loads data from an external cloud storage location into Snowflake, transforms it,

and then loads it into reporting tables. The pipeline is experiencing intermittent performance issues. You want to proactively identify and address these issues. Which of the following monitoring techniques and Snowflake features would be MOST effective for continuous monitoring and performance optimization?

- A. Utilize Snowflake's System Functions to periodically query performance views (e.g., 'QUERY\_HISTORY,' and write aggregated metrics to a dedicated monitoring table. Configure a scheduled task to generate alerts based on predefined thresholds.
- B. Enable Snowflake's Auto-Suspend and Auto-Resume features on the warehouse. This is the most efficient way to manage resources and optimize costs, indirectly addressing performance concerns.
- C. Rely solely on Snowflake's default query history and resource monitors. These automatically track performance and usage, providing sufficient insight without additional configuration.
- D. Focus exclusively on optimizing SQL queries and data transformations. Monitoring is unnecessary since Snowflake automatically handles performance optimization.
- E. Implement custom logging and monitoring using Snowflake Scripting and User-Defined Functions (UDFs) to capture granular performance metrics at each stage of the pipeline and push notifications via external functions to a monitoring service.

**Answer: A,E**

Explanation:

Options B and C provide the most effective methods for continuous monitoring and performance optimization. Option B allows for highly customized and granular monitoring of the entire pipeline, enabling proactive issue identification through external notifications. Option C leverages Snowflake's built-in system functions and task scheduling to create a robust monitoring and alerting system. Option A is insufficient as default monitoring may not provide the granularity needed. Option D is incorrect because monitoring is crucial. Option E primarily focuses on cost optimization, not performance monitoring.

#### NEW QUESTION # 298

You are developing a Snowpark Python application that processes data from a large table. You want to optimize the performance by leveraging Snowpark's data skipping capabilities. The table 'CUSTOMER ORDERS' is partitioned by 'ORDER DATE'. Which of the following Snowpark operations will MOST effectively utilize data skipping during data transformation?

- A. Executing 'df.collect()' to load the entire table into the client's memory before filtering.
- B. Using the 'cache()' method on the DataFrame before filtering by 'ORDER DATE'
- C. Applying a filter '2023-01-01' & '2023-03-31')) before performing any join or aggregation operations.
- D. Creating a new DataFrame with only the columns needed using 'ORDER\_DATE', 'ORDER\_AMOUNT' before any filtering operations.
- E. Applying a filter >= '2023-01-01' & (col('ORDER\_DATE') <= '2023-03-31')) after performing a complex join operation.

**Answer: C**

Explanation:

Option C is the most effective. Data skipping works best when filters are applied early in the query execution plan. By filtering on the partition column 'ORDER DATE' before any joins or aggregations, Snowflake can effectively skip irrelevant partitions, significantly reducing the amount of data scanned. Applying the filter after joins (Option A) defeats the purpose of data skipping. Selecting columns (Option B) doesn't directly utilize data skipping. Caching (Option D) might help with subsequent operations but doesn't leverage data skipping itself. Collecting data (Option E) is highly inefficient for large tables and bypasses any server-side optimizations.

#### NEW QUESTION # 299

You are tasked with designing a data pipeline to load data from an Azure Blob Storage container into Snowflake using an external stage. The data is in CSV format, compressed using GZIP. The container contains millions of small CSV files. To optimize the data loading process and minimize cost, which of the following strategies would you implement, considering both stage configuration and COPY INTO options? Choose TWO that apply.

- A. Use the 'MATCH BY COLUMN NAME = CASE INSENSITIVE' option with a copy transformation in the 'COPY INTO' statement to ensure that the column order in the CSV files doesn't affect the data load.
- B. Leverage Snowflake's Snowpipe with a REST API endpoint to trigger data loads whenever new files are available in the Azure Blob Storage container.
- C. Use the 'VALIDATION MODE = RETURN ERRORS' option in the 'COPY INTO' statement to identify and correct any

data quality issues during the load. This ensures that only clean data is loaded into Snowflake.

- D. **Consolidate the small CSV files in the Azure Blob Storage container into larger files before loading them into Snowflake. This reduces the overhead of processing numerous small files.**
- E. Create a pipe object with 'AUTO INGEST = TRUE to automatically ingest new files as they are added to the Azure Blob Storage container. This ensures near real-time data ingestion.

**Answer: B,D**

Explanation:

Consolidating small files into larger files (option E) significantly improves COPY INTO performance by reducing overhead. Using Snowpipe with a REST API endpoint (option C) allows for efficient, triggered data loading. 'VALIDATION MODE (option A) is useful for data quality but doesn't directly address optimization for millions of small files. 'AUTO INGEST (option B) is specific to AWS S3 and Google Cloud Storage, not Azure Blob Storage event notifications. Column matching (option D) addresses schema flexibility, not optimization.

## NEW QUESTION # 300

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