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1. An Architect needs to allow a user to create a database from an inbound share.

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## Snowflake SnowPro Advanced Architect Certification Sample Questions (Q212-Q217):

### NEW QUESTION # 212

A company is storing large numbers of small JSON files (ranging from 1-4 bytes) that are received from IoT devices and sent to a cloud provider. In any given hour, 100,000 files are added to the cloud provider. What is the MOST cost-effective way to bring this data into a Snowflake table?

- **A. A pipe**
- B. A copy command at regular intervals
- C. A stream
- D. An external table

**Answer: A**

Explanation:

\* A pipe is a Snowflake object that continuously loads data from files in a stage (internal or external) into a table. A pipe can be configured to use auto-ingest, which means that Snowflake automatically detects new or modified files in the stage and loads them into the table without any manual intervention<sup>1</sup>.

\* A pipe is the most cost-effective way to bring large numbers of small JSON files into a Snowflake table, because it minimizes the number of COPY commands executed and the number of micro-partitions created. A pipe can use file aggregation, which means that it can combine multiple small files into a single larger file before loading them into the table. This reduces the load time and the storage cost of the data<sup>2</sup>.

\* An external table is a Snowflake object that references data files stored in an external location, such as Amazon S3, Google Cloud Storage, or Microsoft Azure Blob Storage. An external table does not store the data in Snowflake, but only provides a view of the data for querying. An external table is not a cost-effective way to bring data into a Snowflake table, because it does not support file aggregation, and it requires additional network bandwidth and compute resources to query the external data<sup>3</sup>.

\* A stream is a Snowflake object that records the history of changes (inserts, updates, and deletes) made to a table. A stream can be used to consume the changes from a table and apply them to another table or a task. A stream is not a way to bring data into a Snowflake table, but a way to process the data after it is loaded into a table<sup>4</sup>.

\* A copy command is a Snowflake command that loads data from files in a stage into a table. A copy command can be executed manually or scheduled using a task. A copy command is not a cost-effective way to bring large numbers of small JSON files into a Snowflake table, because it does not support file aggregation, and it may create many micro-partitions that increase the storage cost of the data<sup>5</sup>.

References: : Pipes : Loading Data Using Snowpipe : External Tables : Streams : COPY INTO <table>

### NEW QUESTION # 213

An Architect is designing a solution that will be used to process changed records in an orders table. Newly-inserted orders must be loaded into the f\_orders fact table, which will aggregate all the orders by multiple dimensions (time, region, channel, etc.). Existing orders can be updated by the sales department within 30 days after the order creation. In case of an order update, the solution must perform two actions:

1. Update the order in the f\_ORDERS fact table.
2. Load the changed order data into the special table ORDER\_REPAIRS.

This table is used by the Accounting department once a month. If the order has been changed, the Accounting team needs to know the latest details and perform the necessary actions based on the data in the order\_repairs table.

What data processing logic design will be the MOST performant?

- A. Use two streams and one task.
- B. Use one stream and one task.
- **C. Use one stream and two tasks.**
- D. Use two streams and two tasks.

**Answer: C**

Explanation:

The most performant design for processing changed records, considering the need to both update records in the `f_orders` fact table and load changes into the `order_repairs` table, is to use one stream and two tasks. The stream will monitor changes in the `orders` table, capturing both inserts and updates. The first task would apply these changes to the `f_orders` fact table, ensuring all dimensions are accurately represented. The second task would use the same stream to insert relevant changes into the `order_repairs` table, which is critical for the Accounting department's monthly review. This method ensures efficient processing by minimizing the overhead of managing multiple streams and synchronizing between them, while also allowing specific tasks to optimize for their target operations.

Reference: Snowflake's documentation on streams and tasks for handling data changes efficiently.

#### NEW QUESTION # 214

When activating Tri-Secret Secure in a hierarchical encryption model in a Snowflake account, at what level is the customer-managed key used?

- A. At the root level (HSM)
- B. At the table level (TMK)
- C. At the micro-partition level
- D. At the account level (AMK)

**Answer: D**

Explanation:

Tri-Secret Secure is a feature that allows customers to use their own key, called the customer-managed key (CMK), in addition to the Snowflake-managed key, to create a composite master key that encrypts the data in Snowflake. The composite master key is also known as the account master key (AMK), as it is unique for each account and encrypts the table master keys (TMKs) that encrypt the file keys that encrypt the data files. The customer-managed key is used at the account level, not at the root level, the table level, or the micro-partition level. The root level is protected by a hardware security module (HSM), the table level is protected by the TMKs, and the micro-partition level is protected by the file keys<sup>12</sup>. References:

\* Understanding Encryption Key Management in Snowflake

\* Tri-Secret Secure FAQ for Snowflake on AWS

#### NEW QUESTION # 215

Which of the below query will you run to get the approximate number of distinct values in a table?

- A. `select approx_count_distinct(column1) from table1;`
- B. `select approx_count(column1) from table1;`
- C. `select count_distinct(column1 approx) from table1;`

**Answer: A**

#### NEW QUESTION # 216

What is a characteristic of loading data into Snowflake using the Snowflake Connector for Kafka?

- A. The Connector works with all file formats.
- B. The Connector creates and manages its own stage, file format, and pipe objects.
- C. Loads using the Connector have lower latency than Snowpipe and ingest data in real time.
- D. The Connector only works in AWS regions.

**Answer: B**

Explanation:

The Snowflake Connector for Kafka simplifies streaming ingestion by automatically managing Snowflake objects required for ingestion. It creates and manages internal stages, file formats, and Snowpipe pipes without requiring manual configuration (Answer C). This reduces operational overhead and simplifies deployment.

The connector is cloud-agnostic and works across supported Snowflake clouds, not just AWS. It supports a defined set of formats (such as JSON and Avro), not all possible formats. While the connector enables near real-time ingestion, it still uses Snowpipe

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