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Snowflake ARA-C01 Certification Exam covers a wide range of topics, including Snowflake architecture design, Snowflake security, performance tuning, data integration, and data governance. ARA-C01 exam is intended to test the candidate's deep understanding of these topics and their ability to apply the best practices to design and implement Snowflake solutions. ARA-C01 Exam is conducted online and consists of multiple-choice questions that are designed to test the candidate's knowledge and practical skills.

>> Latest ARA-C01 Exam Objectives <<

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Snowflake SnowPro Advanced Architect Certification Sample Questions (Q77-Q82):

NEW QUESTION # 77

A company is designing a process for importing a large amount of IoT JSON data from cloud storage into Snowflake. New sets of IoT data get generated and uploaded approximately every 5 minutes.

Once the IoT data is in Snowflake, the company needs up-to-date information from an external vendor to join to the data. This data is then presented to users through a dashboard that shows different levels of aggregation. The external vendor is a Snowflake customer.

What solution will MINIMIZE complexity and MAXIMIZE performance?

- A. 1. Create an external table over the JSON data in cloud storage.
2. Create a task that runs every 5 minutes to run a transformation procedure on new data, based on a saved timestamp.
3. Ask the vendor to expose an API so an external function can be used to generate a call to join the data back to the IoT data in the transformation procedure.
4. Give the transformed table access to the dashboard tool.
5. Perform the aggregations on the dashboard tool.
- B. 1. Create a Snowpipe to bring the JSON data into Snowflake.
2. Use streams and tasks to trigger a transformation procedure when new JSON data arrives.
3. Ask the vendor to expose an API so an external function call can be made to join the vendor's data back to the IoT data in a transformation procedure.
4. Create materialized views over the larger dataset to perform the aggregations required by the dashboard.
5. Give the materialized views access to the dashboard tool.
- **C. 1. Create a Snowpipe to bring the JSON data into Snowflake.**
2. Use streams and tasks to trigger a transformation procedure when new JSON data arrives.
3. Ask the vendor to create a data share with the required data that is then imported into the Snowflake account.
4. Join the vendor's data back to the IoT data in a transformation procedure
5. Create materialized views over the larger dataset to perform the aggregations required by the dashboard.
6. Give the materialized views access to the dashboard tool.
- D. 1. Create an external table over the JSON data in cloud storage.
2. Create a task that runs every 5 minutes to run a transformation procedure on new data based on a saved timestamp.
3. Ask the vendor to create a data share with the required data that can be imported into the company's Snowflake account.
4. Join the vendor's data back to the IoT data using a transformation procedure.
5. Create views over the larger dataset to perform the aggregations required by the dashboard.
6. Give the views access to the dashboard tool.

Answer: C

Explanation:

Using Snowpipe for continuous, automated data ingestion minimizes the need for manual intervention and ensures that data is available in Snowflake promptly after it is generated. Leveraging Snowflake's data sharing capabilities allows for efficient and secure access to the vendor's data without the need for complex API integrations. Materialized views provide pre-aggregated data for fast access, which is ideal for dashboards that require high performance¹²³⁴.

Reference =

- * Snowflake Documentation on Snowpipe⁴
- * Snowflake Documentation on Secure Data Sharing²
- * Best Practices for Data Ingestion with Snowflake¹

NEW QUESTION # 78

When using the copy into <table> command with the CSV file format, how does the match_by_column_name parameter behave?

- A. The command will return a warning stating that the file has unmatched columns.
- **B. The command will return an error.**
- C. The parameter will be ignored.
- D. It expects a header to be present in the CSV file, which is matched to a case-sensitive table column name.

Answer: B

Explanation:

<https://community.snowflake.com/s/article/COPY-INTO-table-Command-MATCH-BY-COLUMN-NAME- Copy-Option-Returns-Error-When-Loading-CSV-Data>

NEW QUESTION # 79

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

Answer: B

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 intervention¹.

* 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 data².

* 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 data³.

* 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 table⁴.

* 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 data⁵.

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

NEW QUESTION # 80

An Architect has chosen to separate their Snowflake Production and QA environments using two separate Snowflake accounts. The QA account is intended to run and test changes on data and database objects before pushing those changes to the Production account. It is a requirement that all database objects and data in the QA account need to be an exact copy of the database objects, including privileges and data in the Production account on at least a nightly basis.

Which is the LEAST complex approach to use to populate the QA account with the Production account's data and database objects on a nightly basis?

- A. 1) In the Production account, create an external function that connects into the QA account and returns all the data for one specific table
2) Run the external function as part of a stored procedure that loops through each table in the Production account and populates each table in the QA account
- **B. 1) Enable replication for each database in the Production account
2) Create replica databases in the QA account
3) Create clones of the replica databases on a nightly basis
4) Run tests directly on those cloned databases**
- C. 1) Create a share in the Production account for each database
2) Share access to the QA account as a Consumer
3) The QA account creates a database directly from each share
4) Create clones of those databases on a nightly basis

- 5) Run tests directly on those cloned databases
- D. 1) Create a stage in the Production account
 - 2) Create a stage in the QA account that points to the same external object-storage location
 - 3) Create a task that runs nightly to unload each table in the Production account into the stage
 - 4) Use Snowpipe to populate the QA account

Answer: B

Explanation:

Explanation

* This approach is the least complex because it uses Snowflake's built-in replication feature to copy the data and database objects from the Production account to the QA account. Replication is a fast and efficient way to synchronize data across accounts, regions, and cloud platforms. It also preserves the privileges and metadata of the replicated objects. By creating clones of the replica databases, the QA account can run tests on the cloned data without affecting the original data. Clones are also zero-copy, meaning they do not consume any additional storage space unless the data is modified. This approach does not require any external stages, tasks, Snowpipe, or external functions, which can add complexity and overhead to the data transfer process.

References:

- * Introduction to Replication and Failover
- * Replicating Databases Across Multiple Accounts
- * Cloning Considerations

NEW QUESTION # 81

An Architect would like to save quarter-end financial results for the previous six years. Which Snowflake feature can the Architect use to accomplish this?

- A. Time Travel
- B. Secure views
- C. Zero-copy cloning
- D. Materialized view
- E. Search optimization service

Answer: C

NEW QUESTION # 82

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