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Snowflake SnowPro Advanced Architect Certification Sample Questions (Q60-Q65):

NEW QUESTION # 60

How is the change of local time due to daylight savings time handled in Snowflake tasks? (Choose two.)

- A. A task scheduled in a UTC-based schedule will have no issues with the time changes.
- B. A task will move to a suspended state during the daylight savings time change.
- C. A frequent task execution schedule like minutes may not cause a problem, but will affect the task history.
- D. Task schedules can be designed to follow specified or local time zones to accommodate the time changes.
- E. A task schedule will follow only the specified time and will fail to handle lost or duplicated hours.

Answer: A,D

Explanation:

Explanation

According to the Snowflake documentation¹ and the web search results², these two statements are true about how the change of local time due to daylight savings time is handled in Snowflake tasks. A task is a feature that allows scheduling and executing SQL statements or stored procedures in Snowflake. A task can be scheduled using a cron expression that specifies the frequency and time zone of the task execution.

* A task scheduled in a UTC-based schedule will have no issues with the time changes. UTC is a universal time standard that does not observe daylight savings time. Therefore, a task that uses UTC as the time zone will run at the same time throughout the year, regardless of the local time changes¹.

* Task schedules can be designed to follow specified or local time zones to accommodate the time changes. Snowflake supports using any valid IANA time zone identifier in the cron expression for a task. This allows the task to run according to the local time of the specified time zone, which may include daylight savings time adjustments. For example, a task that uses Europe/London as the time zone will run one hour earlier or later when the local time switches between GMT and BST¹².

References:

* Snowflake Documentation: Scheduling Tasks

* Snowflake Community: Do the timezones used in scheduling tasks in Snowflake adhere to daylight savings?

NEW QUESTION # 61

What does a Snowflake Architect need to consider when implementing a Snowflake Connector for Kafka?

- A. The Kafka connector supports key pair authentication, OAuth, and basic authentication (for example, username and password).
- B. The Kafka connector will create one table and one pipe to ingest data for each topic. If the connector cannot create the table or the pipe it will result in an exception.
- C. The default retention time for Kafka topics is 14 days.
- D. Every Kafka message is in JSON or Avro format.

Answer: B

Explanation:

The Snowflake Connector for Kafka is a Kafka Connect sink connector that reads data from one or more Apache Kafka topics and loads the data into a Snowflake table. The connector supports different authentication methods to connect to Snowflake, such as key pair authentication, OAuth, and basic authentication (for example, username and password). The connector also supports different encryption methods, such as HTTPS and SSL¹. The connector does not require that every Kafka message is in JSON or Avro format, as it can handle other formats such as CSV, XML, and Parquet². The default retention time for Kafka topics is not relevant for the connector, as it only consumes the messages that are available in the topics and does not store them in Kafka. The connector will create one table and one pipe to ingest data for each topic by default, but this behavior can be customized by using the `snowflake.topic2table.map` configuration property³. If the connector cannot create the table or the pipe, it will log an error and retry the operation until it succeeds or the connector is stopped⁴. References:

* Installing and Configuring the Kafka Connector

* Overview of the Kafka Connector

* Managing the Kafka Connector

NEW QUESTION # 62

There are two databases in an account, named `fin_db` and `hr_db` which contain payroll and employee data, respectively. Accountants and Analysts in the company require different permissions on the objects in these databases to perform their jobs. Accountants need read-write access to `fin_db` but only require read-only access to `hr_db` because the database is maintained by human resources personnel.

An Architect needs to create a read-only role for certain employees working in the human resources department.

Which permission sets must be granted to this role?

- A. USAGE on database `hr_db`, SELECT on all schemas in database `hr_db`, SELECT on all tables in database `hr_db`
- B. USAGE on database `hr_db`, USAGE on all schemas in database `hr_db`, SELECT on all tables in database `hr_db`
- C. USAGE on database `hr_db`, USAGE on all schemas in database `hr_db`, REFERENCES on all tables in database `hr_db`
- D. MODIFY on database `hr_db`, USAGE on all schemas in database `hr_db`, USAGE on all tables in database `hr_db`

Answer: B

Explanation:

* To create a read-only role for certain employees working in the human resources department, the role needs to have the following permissions on the `hr_db` database:

* USAGE on the database: This allows the role to access the database and see its schemas and objects.

* USAGE on all schemas in the database: This allows the role to access the schemas and see their objects.

* SELECT on all tables in the database: This allows the role to query the data in the tables.

* Option A is the correct answer because it grants the minimum permissions required for a read-only role on the `hr_db` database.

* Option B is incorrect because SELECT on schemas is not a valid permission. Schemas only support USAGE and CREATE permissions.

* Option C is incorrect because MODIFY on the database is not a valid permission. Databases only support USAGE, CREATE, MONITOR, and OWNERSHIP permissions. Moreover, USAGE on tables is not sufficient for querying the data. Tables support SELECT, INSERT, UPDATE, DELETE, TRUNCATE, REFERENCES, and OWNERSHIP permissions.

* Option D is incorrect because REFERENCES on tables is not relevant for querying the data.

REFERENCES permission allows the role to create foreign key constraints on the tables.

References:

* : <https://docs.snowflake.com/en/user-guide/security-access-control-privileges.html#database-privileges>

* : <https://docs.snowflake.com/en/user-guide/security-access-control-privileges.html#schema-privileges>

* : <https://docs.snowflake.com/en/user-guide/security-access-control-privileges.html#table-privileges>

NEW QUESTION # 63

A company is designing high availability and disaster recovery plans and needs to maximize redundancy and minimize recovery time objectives for their critical application processes. Cost is not a concern as long as the solution is the best available. The plan so far consists of the following steps:

1. Deployment of Snowflake accounts on two different cloud providers.
2. Selection of cloud provider regions that are geographically far apart.
3. The Snowflake deployment will replicate the databases and account data between both cloud provider accounts.
4. Implementation of Snowflake client redirect.

What is the MOST cost-effective way to provide the HIGHEST uptime and LEAST application disruption if there is a service event?

- A. Connect the applications using the `<organization_name>-<accountLocator>` URL. Use the Business Critical Snowflake edition.
- B. Connect the applications using the `<organization_name>-<connection_name>` URL. Use the Business Critical Snowflake edition.
- C. Connect the applications using the `<organization_name>-<connection_name>` URL. Use the Virtual Private Snowflake (VPS) edition.
- D. Connect the applications using the `<organization_name>-<accountLocator>` URL. Use the Enterprise Snowflake edition.

Answer: A

Explanation:

To provide the highest uptime and least application disruption in case of a service event, the best option is to use the Business

Critical Snowflake edition and connect the applications using the <organization_name>-<accountLocator> URL. The Business Critical Snowflake edition offers the highest level of security, performance, and availability for Snowflake accounts. It includes features such as customer-managed encryption keys, HIPAA compliance, and 4-hour RPO and RTO SLAs. It also supports account replication and failover across regions and cloud platforms, which enables business continuity and disaster recovery. By using the <organization_name>-<accountLocator> URL, the applications can leverage the Snowflake Client Redirect feature, which automatically redirects the client connections to the secondary account in case of a failover. This way, the applications can seamlessly switch to the backup account without any manual intervention or configuration changes. The other options are less cost-effective or less reliable because they either use a lower edition of Snowflake, which does not support account replication and failover, or they use the <organization_name>-<connection_name> URL, which does not support client redirect and requires manual updates to the connection string in case of a failover. References:

- * [Snowflake Editions] 1
- * [Replication and Failover/Failback] 2
- * [Client Redirect] 3
- * [Snowflake Account Identifiers] 4

NEW QUESTION # 64

What is a key consideration when setting up search optimization service for a table?

- A. Search optimization service can significantly improve query performance on partitioned external tables.
- B. The table must be clustered with a key having multiple columns for effective search optimization.
- C. Search optimization service can help to optimize storage usage by compressing the data into a GZIP format.
- **D. Search optimization service works best with a column that has a minimum of 100 K distinct values.**

Answer: D

Explanation:

A: The Search Optimization Service is designed to accelerate the performance of queries that use filters on large tables. One of the key considerations for its effectiveness is using it with tables where the columns used in the filter conditions have a high number of distinct values, typically in the hundreds of thousands or more.

This is because the service creates a map-reduce-like index on the column to speed up queries that use point lookups or range scans on that column. The more unique values there are, the more effective the index is at narrowing down the search space.

References: Snowflake documentation and best practices on the Search Optimization Service, which would be covered under the SnowPro Advanced: Architect certification materials.

NEW QUESTION # 65

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