Exam Code: ADA-C01

Exam Name: SnowPro Advanced: Administrator Certification

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#### Exam A

# **QUESTION 1**

A Snowflake Administrator wants to create a virtual warehouse that supports several dashboards, issuing various queries on the same database. For this warehouse, why should the Administrator consider setting AUTO\_SUSPEND to 0 or NULL?

- A. To save costs on warehouse shutdowns and startups for different queries
- B. To save costs by running the warehouse as little as possible
- C. To keep the data cache warm to support good performance of similar queries
- D. To keep the query result cache warm for good performance on repeated queries

# Correct Answer: C

Section:

# **Explanation:**

According to the Snowflake documentation1, the AUTO\_SUSPEND property specifies the number of seconds of inactivity after which a warehouse is automatically suspended. If the property is set to 0 or NULL, the warehouse never suspends automatically. For a warehouse that supports several dashboards, issuing various queries on the same database, setting AUTO\_SUSPEND to 0 or NULL can help to keep the data cache warm, which means that the data used by the queries is already loaded into the warehouse memory and does not need to be fetched from the storage layer. This can improve the performance of similar queries that access the same data. Option A is incorrect because setting AUTO\_SUSPEND to 0 or NULL does not save costs on warehouse shutdowns and startups, but rather increases the costs by keeping the warehouse running continuously. Option B is incorrect because setting AUTO\_SUSPEND to 0 or NULL does not run the warehouse as little as possible, but rather runs the warehouse as much as possible. Option D is incorrect because setting AUTO\_SUSPEND to 0 or NULL does not save costs of previous queries for a period of time. The query result cache is not dependent on the warehouse state, but on the query criteria2.

# **QUESTION 2**

What SCIM integration types are supported in Snowflake? (Select THREE).

- A. Amazon Web Services (AWS)
- B. Google Cloud Platform (GCP)
- C. Okta
- D. Custom
- E. Azure Active Directory (Azure AD)
- F. Duo Security Provisioning Connector

# Correct Answer: C, D, E

# Section:

# **Explanation:**

According to the Snowflake documentation1, Snowflake supports SCIM 2.0 to integrate Snowflake with Okta and Microsoft Azure AD, which both function as identity providers. Snowflake also supports identity providers that are neither Okta nor Microsoft Azure (i.e. Custom). Therefore, the SCIM integration types that are supported in Snowflake are Okta, Custom, and Azure AD. Option A is incorrect because Amazon Web Services (AWS) is not a SCIM identity provider. Option B is incorrect because Google Cloud Platform (GCP) is not a SCIM identity provider. Option F is incorrect because Duo Security Provisioning Connector is not a SCIM identity provider.

# **QUESTION 3**

A team of developers created a new schema for a new project. The developers are assigned the role DEV\_TEAM which was set up using the following statements: USE ROLE SECURITYADMIN; CREATE ROLE DEV TEAM; GRANT USAGE, CREATE SCHEMA ON DATABASE DEV\_DB01 TO ROLE DEV\_TEAM; GRANT USAGE ON WAREHOUSE DEV\_WH TO ROLE DEV\_TEAM; Each team member's access is set up using the following statements:



USE ROLE SECURITYADMIN; CREATE ROLE JDOE PROFILE; CREATE USER JDOE LOGIN NAME = 'JDOE' DEFAULT ROLE='JDOE PROFILE'; GRANT ROLE JDOE PROFILE TO USER JDOE; GRANT ROLE DEV TEAM TO ROLE JDOE PROFILE; New tables created by any of the developers are not accessible by the team as a whole. How can an Administrator address this problem?

- A. Assign ownership privilege to DEV\_TEAM on the newly-created schema.
- B. Assign usage privilege on the virtual warehouse DEV WH to the role JDOE PROFILE.
- C. Set up future grants on the newly-created schemas.
- D. Set up the new schema as a managed-access schema.

# Correct Answer: C

#### Section:

# Explanation:

According to the Snowflake documentation1, future grants are a way to automatically grant privileges on future objects of a specific type that are created in a database or schema. By setting up future grants on the newlycreated schemas, the administrator can ensure that any tables created by the developers in those schemas will be accessible by the DEV TEAM role, without having to grant privileges on each table individually. Option A is incorrect because assigning ownership privilege to DEV TEAM on the newly-created schema does not grant privileges on the tables in the schema, only on the schema itself. Option B is incorrect because assigning usage privilege on the virtual warehouse DEV WH to the role JDOE PROFILE does not affect the access to the tables in the schemas, only the ability to use the warehouse. Option D is incorrect because setting up the new schema as a managed-access schema does not grant privileges on the tables in the schema, but rather requires explicit grants for each table.

- B. The role above the dropped role in the RBAC hierarchy
- C. The role executing the command
- D. The SECURITYADMIN role

#### **Correct Answer: B**

#### Section:

# Explanation:

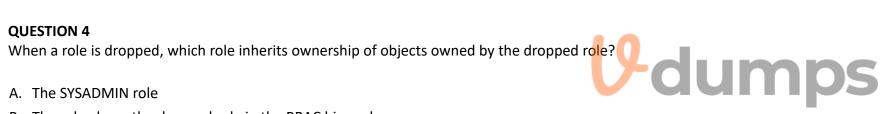
According to the Snowflake documentation1, when a role is dropped, ownership of all objects owned by the dropped role is transferred to the role that is directly above the dropped role in the role hierarchy. This is to ensure that there is always a single owner for each object in the system. 1: Drop Role | Snowflake Documentation

# **QUESTION 5**

What are the requirements when creating a new account within an organization in Snowflake? (Select TWO).

- A. The account requires at least one ORGADMIN role within one of the organization's accounts.
- B. The account name is immutable and cannot be changed.
- C. The account name must be specified when the account is created.
- D. The account name must be unique among all Snowflake customers.
- E. The account name must be unique within the organization.

#### Correct Answer: C, E Section:



#### Explanation:

According to the CREATE ACCOUNT documentation, the account name must be specified when the account is created, and it must be unique within an organization, regardless of which Snowflake Region the account is in. The other options are incorrect because:

\* The account does not require at least one ORGADMIN role within one of the organization's accounts. The account can be created by an organization administrator (i.e. a user with the ORGADMIN role) through the web interface or using SQL, but the new account does not inherit the ORGADMIN role from the existing account. The new account will have its own set of users, roles, databases, and warehouses. \* The account name is not immutable and can be changed. The account name can be modified by contacting Snowflake Support and requesting a name change. However, changing the account name may affect some features that depend on the account name, such as SSO or SCIM.

\* The account name does not need to be unique among all Snowflake customers. The account name only needs to be unique within the organization, as the account URL also includes the region and cloud platform information. For example, two accounts with the same name can exist in different regions or cloud platforms, such as myaccount.us-east-1.snowflakecomputing.com and myaccount.eu-west-1.aws.snowflakecomputing.com.

# **QUESTION 6**

A Snowflake customer is experiencing higher costs than anticipated while migrating their data warehouse workloads from on-premises to Snowflake. The migration workloads have been deployed on a single warehouse and are characterized by a large number of small INSERTs rather than bulk loading of large extracts. That single warehouse has been configured as a single cluster, 2XL because there are many parallel INSERTs that are scheduled during nightly loads.

How can the Administrator reduce the costs, while minimizing the overall load times, for migrating data warehouse history?

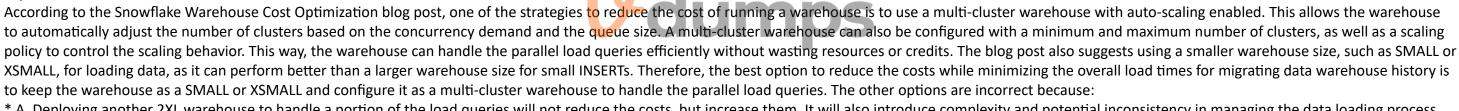
A. There should be another 2XL warehouse deployed to handle a portion of the load queries.

- B. The 2XL warehouse should be changed to 4XL to increase the number of threads available for parallel load queries.
- C. The warehouse should be kept as a SMALL or XSMALL and configured as a multi-cluster warehouse to handle the parallel load queries.
- D. The INSERTS should be converted to several tables to avoid contention on large tables that slows down query processing.

# **Correct Answer: C**

# Section:

# Explanation:



\* A. Deploying another 2XL warehouse to handle a portion of the load queries will not reduce the costs, but increase them. It will also introduce complexity and potential inconsistency in managing the data loading process across multiple warehouses.

\* B. Changing the 2XL warehouse to 4XL will not reduce the costs, but increase them. It will also provide more compute resources than needed for small INSERTs, which are not CPU-intensive but I/O-intensive.

\* D. Converting the INSERTs to several tables will not reduce the costs, but increase them. It will also create unnecessary data duplication and fragmentation, which will affect the query performance and data quality.

# **QUESTION 7**

What roles or security privileges will allow a consumer account to request and get data from the Data Exchange? (Select TWO).

- A. SYSADMIN
- **B. SECURITYADMIN**
- C. ACCOUNTADMIN
- D. IMPORT SHARE and CREATE DATABASE
- E. IMPORT PRIVILEGES and SHARED DATABASE

# Correct Answer: C, D

# Section:

# Explanation:

According to the Accessing a Data Exchange documentation, a consumer account can request and get data from the Data Exchange using either the ACCOUNTADMIN role or a role with the IMPORT SHARE and CREATE DATABASE privileges. The ACCOUNTADMIN role is the top-level role that has all privileges on all objects in the account, including the ability to request and get data from the Data Exchange. A role with the IMPORT SHARE and

CREATE DATABASE privileges can also request and get data from the Data Exchange, as these are the minimum privileges required to create a database from a share. The other options are incorrect because: \* A. The SYSADMIN role does not have the privilege to request and get data from the Data Exchange, unless it is also granted the IMPORT SHARE and CREATE DATABASE privileges. The SYSADMIN role is a pre-defined role that has all privileges on all objects in the account, except for the privileges reserved for the ACCOUNTADMIN role, such as managing users, roles, and shares.

\* B. The SECURITYADMIN role does not have the privilege to request and get data from the Data Exchange, unless it is also granted the IMPORT SHARE and CREATE DATABASE privileges. The SECURITYADMIN role is a predefined role that has the privilege to manage security objects in the account, such as network policies, encryption keys, and security integrations, but not data objects, such as databases, schemas, and tables. \* E. The IMPORT PRIVILEGES and SHARED DATABASE are not valid privileges in Snowflake. The correct privilege names are IMPORT SHARE and CREATE DATABASE, as explained above.

# **QUESTION 8**

An Administrator wants to delegate the administration of a company's data exchange to users who do not have access to the ACCOUNTADMIN role. How can this requirement be met?

- A. Grant imported privileges on data exchange EXCHANGE\_NAME to ROLE\_NAME;
- B. Grant modify on data exchange EXCHANGE\_NAME to ROLE\_NAME;
- C. Grant ownership on data exchange EXCHANGE\_NAME to ROLE NAME;
- D. Grant usage on data exchange EXCHANGE\_NAME to ROLE\_NAME;

# Correct Answer: B

# Section:

# **Explanation:**

According to the [GRANT MODIFY] documentation, the MODIFY privilege on a data exchange allows a role to perform administrative tasks on the data exchange, such as inviting members, approving profiles, and reviewing listings. This privilege can be granted by the ACCOUNTADMIN role or a role that already has the MODIFY privilege on the data exchange. Therefore, to delegate the administration of a company's data exchange to users who do not have access to the ACCOUNTADMIN role, the best option is to grant the MODIFY privilege on the data exchange to a role that the users can assume. The other options are incorrect because: \* A. There is no such privilege as IMPORTED PRIVILEGES in Snowflake. The correct privilege name is IMPORT SHARE, which allows a role to create a database from a share. This privilege is not related to the administration of a data exchange, but to the consumption of shared data.

\* C. There is no such privilege as OWNERSHIP in Snowflake. The correct privilege name is OWNED BY, which indicates the role that owns an object and has full control over it. However, this privilege cannot be granted or revoked, but only transferred by the current owner to another role using the GRANT OWNERSHIP command. Therefore, this option is not feasible for delegating the administration of a data exchange. \* D. The USAGE privilege on a data exchange allows a role to access the data exchange and view the available data listings. This privilege does not allow a role to perform administrative tasks on the data exchange, such as inviting members, approving profiles, and reviewing listings. Therefore, this option is not sufficient for delegating the administration of a data exchange.

# **QUESTION 9**

A company has implemented Snowflake replication between two Snowflake accounts, both of which are running on a Snowflake Enterprise edition. The replication is for the database APP\_DB containing only one schema, APP\_SCHEMA. The company's Time Travel retention policy is currently set for 30 days for both accounts. An Administrator has been asked to extend the Time Travel retention policy to 60 days on the secondary database only. How can this requirement be met?

- A. Set the data retention policy on the secondary database to 60 days.
- B. Set the data retention policy on the schemas in the secondary database to 60 days.
- C. Set the data retention policy on the primary database to 30 days and the schemas to 60 days.
- D. Set the data retention policy on the primary database to 60 days.

# **Correct Answer: A**

# Section:

# **Explanation:**

According to the Replication considerations documentation, the Time Travel retention period for a secondary database can be different from the primary database. The retention period can be set at the database, schema, or table level using the DATA\_RETENTION\_TIME\_IN\_DAYS parameter. Therefore, to extend the Time Travel retention policy to 60 days on the secondary database only, the best option is to set the data retention policy on the secondary database to 60 days using the ALTER DATABASE command. The other options are incorrect because:

\* B. Setting the data retention policy on the schemas in the secondary database to 60 days will not affect the database-level retention period, which will remain at 30 days. The most specific setting overrides the more general ones, so the schema-level setting will apply to the tables in the schema, but not to the database itself.

\* C. Setting the data retention policy on the primary database to 30 days and the schemas to 60 days will not affect the secondary database, which will have its own retention period. The replication process does not copy the

retention period settings from the primary to the secondary database, so they can be configured independently.

\* D. Setting the data retention policy on the primary database to 60 days will not affect the secondary database, which will have its own retention period. The replication process does not copy the retention period settings from the primary to the secondary database, so they can be configured independently.

# **QUESTION 10**

When does auto-suspend occur for a multi-cluster virtual warehouse?

- A. When there has been no activity on any cluster for the specified period of time.
- B. After a specified period of time when an additional cluster has started on the maximum number of clusters specified for a warehouse.
- C. When the minimum number of clusters is running and there is no activity for the specified period of time.
- D. Auto-suspend does not apply for multi-cluster warehouses.

# Correct Answer: C

# Section:

# **Explanation**:

According to the Multi-cluster Warehouses documentation, auto-suspend is a feature that allows a warehouse to automatically suspend itself after a specified period of inactivity. For a multi-cluster warehouse, auto-suspend applies to the entire warehouse, not to individual clusters. Therefore, auto-suspend occurs when the minimum number of clusters is running and there is no activity for the specified period of time. The other options are incorrect because:

\* A. Auto-suspend does not occur when there has been no activity on any cluster for the specified period of time. This would imply that each cluster has its own auto-suspend timer, which is not the case. The warehouse has a single auto-suspend timer that is reset by any activity on any cluster.

\* B. Auto-suspend does not occur after a specified period of time when an additional cluster has started on the maximum number of clusters specified for a warehouse. This would imply that the auto-suspend timer is affected by the number of clusters running, which is not the case. The auto-suspend timer is only affected by the activity on the warehouse, regardless of the number of clusters running. \* D. Auto-suspend does apply for multi-cluster warehouses, as explained above. It is a feature that can be enabled or disabled for any warehouse, regardless of the number of clusters.

# **QUESTION 11**



What object should be added to the share to allow Company B access to the files?

- A. A secure view with a column for file URLs.
- B. A secure view with a column for pre-signed URLs.
- C. A secure view with a column for METADATA\$FILENAME.
- D. A secure view with a column for the stage name and a column for the file path.

# **Correct Answer: B**

Section:

# Explanation:

According to the Snowflake documentation1, pre-signed URLs are required to access external files in a share. A secure view can be used to generate pre-signed URLs for the audio files stored in an external stage and expose them to the consumer account. Option A is incorrect because file URLs alone are not sufficient to access external files in a share. Option C is incorrect because METADATA\$FILENAME only returns the file name, not the full path or URL. Option D is incorrect because the stage name and file path are not enough to generate pre-signed URLs.

# **QUESTION 12**

A retailer uses a TRANSACTIONS table (100M rows, 1.2 TB) that has been clustered by the STORE ID column (varchar(50)). The vast majority of analyses on this table are grouped by STORE ID to look at store performance. There are 1000 stores operated by the retailer but most sales come from only 20 stores. The Administrator notes that most queries are currently experiencing poor pruning, ith large amounts of bytes processed by even simple queries.

Why is this occurring?



- A. The STORE\_ID should be numeric.
- B. The table is not big enough to take advantage of the clustering key.
- C. Sales across stores are not uniformly distributed.
- D. The cardinality of the stores to transaction count ratio is too low to use the STORE\_ID as a clustering key.

# **Correct Answer: C**

# Section:

# **Explanation:**

According to the Snowflake documentation1, clustering keys are most effective when the data is evenly distributed across the key values. If the data is skewed, such as in this case where most sales come from only 20 stores out of 1000, then the micro-partitions will not be well-clustered and the pruning will be poor. This means that more bytes will be scanned by queries, even if they filter by STORE\_ID. Option A is incorrect because the data type of the clustering key does not affect the pruning. Option B is incorrect because the table is large enough to benefit from clustering, if the data was more balanced. Option D is incorrect because the cardinality of the clustering key is not relevant for pruning, as long as the key values are distinct.

1: Considerations for Choosing Clustering for a Table | Snowflake Documentation

# **QUESTION 13**

A team is provisioning new lower environments from the production database using cloning. All production objects and references reside in the database, and do not have external references. What set of object references needs to be re-pointed before granting access for usage?

- A. Sequences, views, and secure views
- B. Sequences, views, secure views, and materialized views
- C. Sequences, storage integrations, views, secure views, and materialized views
- D. There are no object references that need to be re-pointed

# Correct Answer: C

Section:

# **Explanation:**

According to the Snowflake documentation1, when an object in a schema is cloned, any future grants defined for this object type in the schema are applied to the cloned object unless the COPY GRANTS option is specified in the CREATE statement for the clone operation. However, some objects may still reference the source object or external objects after cloning, which may cause issues with access or functionality. These objects include: \* Sequences: If a table column references a sequence that generates default values, the cloned table may reference the source or cloned sequence, depending on where the sequence is defined. To avoid conflicts, the sequence reference should be re-pointed to the desired sequence using the ALTER TABLE command2.

\* Storage integrations: If a stage or a table references a storage integration, the cloned object may still reference the source storage integration, which may not be accessible or valid in the new environment. To avoid errors, the storage integration reference should be re-pointed to the desired storage integration using the ALTER STAGE or ALTER TABLE command34.

\* Views, secure views, and materialized views: If a view references another view or table, the cloned view may still reference the source object, which may not be accessible or valid in the new environment. To avoid errors, the view reference should be re-pointed to the desired object using the CREATE OR REPLACE VIEW command5.

1: Cloning Considerations | Snowflake Documentation 2: [ALTER TABLE | Snowflake Documentation] 3: [ALTER STAGE | Snowflake Documentation] 4: [ALTER TABLE | Snowflake Documentation] 5: [CREATE VIEW | Snowflake Documentation] 0: [CREATE VIEW | Snowflake Documentation]

# **QUESTION 14**

The ACCOUNTADMIN of Account 123 works with Snowflake Support to set up a Data Exchange. After the exchange is populated with listings from other Snowflake accounts, hat roles in Account 123 are allowed to request and get data?

- A. Only the ACCOUNTADMIN role, and no other roles
- B. Any role with USAGE privilege on the Data Exchange
- C. Any role with IMPORT SHARE and CREATE DATABASE privileges
- D. Any role that the listing provider has designated as authorized

#### Correct Answer: B Section:



# **Explanation:**

To request and get data from a Data Exchange, the role in Account 123 must have the USAGE privilege on the Data Exchange object. This privilege allows the role to view the listings and request access to the data. According to the Snowflake documentation, "To view the listings in a data exchange, a role must have the USAGE privilege on the data exchange object. To request access to a listing, a role must have the USAGE privilege on the data exchange object and the IMPORT SHARE privilege on the account." The other options are either incorrect or not sufficient to request and get data from a Data Exchange. Option A is incorrect, as the ACCOUNTADMIN role is not the only role that can request and get data, as long as other roles have the necessary privileges. Option C is incorrect, as the IMPORT SHARE and CREATE DATABASE privileges are not required to request and get data, but only to create a database from a share after the access is granted. Option D is incorrect, as the listing provider does not designate the authorized roles in Account 123, but only approves or denies the requests from Account 123.

# **QUESTION 15**

A Snowflake account is configured with SCIM provisioning for user accounts and has bi-directional synchronization for user identities. An Administrator with access to SECURITYADMIN uses the Snowflake UI to create a user by issuing the following commands:

use role USERADMIN;

create or replace role DEVELOPER\_ROLE;

create user PTORRES PASSWORD = 'hello world!' MUST\_CHANGE\_PASSWORD = FALSE

default\_role = DEVELOPER\_ROLE;

The new user named PTORRES successfully logs in, but sees a default role of PUBLIC in the web UI. When attempted, the following command fails:

use DEVELOPER\_ROLE;

Why does this command fail?

- A. The DEVELOPER\_ROLE needs to be granted to SYSADMIN before user PTORRES will be able to use the role.
- B. The new role can only take effect after USERADMIN has logged out.
- C. USERADMIN needs to explicitly grant the DEVELOPER\_ROLE to the new USER.
- D. The new role will only take effect once the identity provider has synchronized by way of SCIM with the Snowflake account.

# **Correct Answer: C**

# Section:

# **Explanation:**

According to the Snowflake documentation1, creating a user with a default role does not automatically grant that role to the user. The user must be explicitly granted the role by the role owner or a higher-level role. Therefore, the USERADMIN role, which created the DEVELOPER\_ROLE, needs to explicitly grant the DEVELOPER\_ROLE to the new user PTORRES using the GRANT ROLE command. Otherwise, the user PTORRES will not be able to use the DEVELOPER\_ROLE and will see the default role of PUBLIC in the web UI. Option A is incorrect because the DEVELOPER\_ROLE does not need to be granted to SYSADMIN before user PTORRES can use the role. Option B is incorrect because the new role can take effect immediately after it is created and granted to the user, and does not depend on the USERADMIN role logging out. Option D is incorrect because the new role will not be affected by the identity provider synchronization, as it is created and managed in Snowflake.

# **QUESTION 16**

Which type of listing in the Snowflake Marketplace can be added and queried immediately?

- A. Monetized listing
- B. Standard listing
- C. Regional listing
- D. Personalized listing

#### **Correct Answer: B**

#### Section:

# Explanation:

According to the Snowflake documentation1, a standard listing is a type of listing that provides free access to the full data product, with no payment required. A standard listing can be added and queried immediately by the consumer, as long as they accept the terms and conditions of the listing. A monetized listing is a type of listing that charges for access to the data product, using the pricing models offered by Snowflake. A monetized listing requires the consumer to provide payment information and agree to the billing terms before accessing the data product. A regional listing is not a type of listing, but a way to specify the regions where the listing is available. A

personalized listing is a type of listing that provides limited trial access to the data product, with unlimited access to the full data product available upon request. A personalized listing requires the consumer to request access from the provider and wait for the provider to grant access before accessing the data product. Therefore, the only type of listing that can be added and queried immediately is the standard listing.

# **QUESTION 17**

A virtual warehouse report whis configured with AUTO RESUME=TRUE and AUTO SUSPEND=300. A user has been granted the role accountant. An application with the accountant role should use this warehouse to run financial reports, and should keep track of compute credits used by the warehouse. What minimal privileges on the warehouse should be granted to the role to meet the requirements for the application? (Select TWO).

- A. OPERATE
- B. MODIFY
- C. MONITOR
- D. USAGE
- E. OWNERSHIP

# Correct Answer: C, D

# Section:

# Explanation:

According to the Snowflake documentation1, the MONITOR privilege on a warehouse grants the ability to view the warehouse usage and performance metrics, such as the number of credits consumed, the average and maximum run time, and the number of queries executed. The USAGE privilege on a warehouse grants the ability to use the warehouse to execute queries and load data. Therefore, the minimal privileges on the warehouse that should be granted to the role to meet the requirements for the application are MONITOR and USAGE. Option A is incorrect because the OPERATE privilege on a warehouse grants the ability to start, stop, resume, and suspend the warehouse, which is not required for the application. Option B is incorrect because the MODIFY privilege on a warehouse grants the ability to alter the warehouse properties, such as the size, auto-suspend, and auto-resume settings, which is not required for the application. Option E is incorrect because the OWNERSHIP privilege on a warehouse grants the ability to drop the warehouse, grant or revoke privileges on the warehouse, and transfer the ownership to another role, which is not required for the application.

# **OUESTION 18**

What is required for stages, without credentials, to limit data exfiltration after a storage integration and associated stages are created

- A. ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE CREATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION = true; ALTER ACCOUNT my account SET PREVENT UNLOAD TO INLINE URL = false;
- B. ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE CREATION = false; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION = false; ALTER ACCOUNT my\_account SET PREVENT\_UNLOAD\_TO\_INLINE\_URL = true;
- C. ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE CREATION = false; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION = false; ALTER ACCOUNT my\_account SET PREVENT\_UNLOAD\_TO\_INLINE\_URL = false;
- D. ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE CREATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT my account SET REQUIRE STORAGE INTEGRATION = true; ALTER ACCOUNT MY my\_account SET PREVENT\_UNLOAD\_TO\_INLINE\_URL = true;

# **Correct Answer: D**

# Section:

# **Explanation:**

According to the Snowflake documentation1, stages without credentials are a way to create external stages that use storage integrations to access data files in cloud storage without providing any credentials to Snowflake. Storage integrations are objects that define a trust relationship between Snowflake and a cloud provider, allowing Snowflake to authenticate and authorize access to the cloud storage. To limit data exfiltration after a storage integration and associated stages are created, the following account-level parameters can be set:

\* REQUIRE STORAGE INTEGRATION FOR STAGE CREATION: This parameter enforces that all external stages must be created using a storage integration. This prevents users from creating external stages with inline credentials or URLs that point to unauthorized locations.

\* REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION: This parameter enforces that all operations on external stages, such as PUT, GET, COPY, and LIST, must use a storage integration. This prevents users from performing operations on external stages with inline credentials or URLs that point to unauthorized locations.

\* PREVENT UNLOAD TO INLINE URL: This parameter prevents users from unloading data from Snowflake tables to inline URLs that do not use a storage integration. This prevents users from exporting data to unauthorized locations.

Therefore, the correct answer is option D, which sets all these parameters to true. Option A is incorrect because it sets PREVENT UNLOAD TO INLINE URL to false, which allows users to unload data to inline URLs that do not use a storage integration. Option B is incorrect because it sets both REQUIRE STORAGE INTEGRATION FOR STAGE CREATION and REQUIRE STORAGE INTEGRATION FOR STAGE OPERATION to false, which allows users to create and operate on external stages without using a storage integration. Option C is incorrect because it sets all the parameters to false, which does not enforce any restrictions on data exfiltration.

# **QUESTION 19**

A Snowflake Administrator has a multi-cluster virtual warehouse and is using the Snowflake Business Critical edition. The minimum number of clusters is set to 2 and the maximum number of clusters is set to 10. This configuration works well for the standard workload, rarely exceeding 5 running clusters. However, once a month the

Administrator notes that there are a few complex long-running queries that are causing increased queue time and the warehouse reaches its maximum limit at 10 clusters. Which solutions will address the issues happening once a month? (Select TWO).

- A. Use a task to increase the cluster size for the time period that the more complex queries are running and another task to reduce the size of the cluster once the complex queries complete.
- B. Have the group running the complex monthly queries use a separate appropriately-sized warehouse to support their workload.
- C. Increase the multi-cluster maximum to 20 or more clusters.
- D. Examine the complex queries and determine if they can be made more efficient using clustering keys or materialized views.
- E. Increase the minimum number of clusters started in the multi-cluster configuration to 5.

#### **Correct Answer: A, B**

#### Section:

# Explanation:

According to the Snowflake documentation1, a multi-cluster warehouse is a virtual warehouse that consists of multiple clusters of compute resources that can scale up or down automatically to handle the concurrency and performance needs of the queries submitted to the warehouse. A multi-cluster warehouse has a minimum and maximum number of clusters that can be specified by the administrator. Option A is a possible solution to address the issues happening once a month, as it allows the administrator to use a task to increase the cluster size for the time period that the more complex gueries are running and another task to reduce the size of the cluster once the complex queries complete. This way, the warehouse can have more resources available to handle the complex queries without reaching the maximum limit of 10 clusters, and then return to the normal cluster size to save costs. Option B is another possible solution to address the issues happening once a month, as it allows the administrator to have the group running the complex monthly queries use a separate appropriately-sized warehouse to support their workload. This way, the warehouse can isolate the complex queries from the standard workload and avoid queue time and resource contention. Option C is not a recommended solution to address the issues happening once a month, as it would increase the costs and complexity of managing the multi-cluster warehouse, and may not solve the underlying problem of inefficient queries. Option D is a good practice to improve the performance of the queries, but it is not a direct solution to address the issues happening once a month, as it requires analyzing and optimizing the complex queries using clustering keys or materialized views, which may not be feasible or effective in all cases. Option E is not a recommended solution to address the issues happening once a month, as it would increase the costs and waste resources by starting more clusters than needed for the standard workload.

# **OUESTION 20**

Which masking policy will mask a column whenever it is queried through a view owned by a role named MASKED VIEW ROLE?

- A. create or replace masking policy maskstring as (val string) returns string -> case when is role in session ('MASKED VIEW ROLE') then '\*\* else val end; \*,
- B. create or replace masking policy maskString as (val string) returns string -> case when array contains ('MASKED VIEW ROLE' :: variant, parse ison (current available roles ())) then '\* else val end; \*\* '
- C. create or replace masking policy maskstring as (val string) returns string -> case when invoker role() in ('MASKED VIEW ROLE') then else val end; '\*\*
- D. create or replace masking policy maskString as (val string) returns string -> case when current role() in ('MASKED VIEW ROLE') then '\*\*\*\*\*\*\* 'else val end;

#### **Correct Answer: A**

#### Section:

# Explanation:

A masking policy is a SQL expression that transforms the data in a column based on the role that queries the column1. The is role in session function returns true if the specified role is in the current session2. Therefore, the masking policy in option A will mask the column data with asterisks whenever it is gueried through a view owned by the MASKED VIEW ROLE3. The other options use different functions that do not check the ownership of the view, but rather the current role, the invoker role, or the available roles in the session45. These functions may not return the desired result if the role that owns the view is different from the role that queries the view.

# **QUESTION 21**

What session parameter can be used to test the integrity of secure views based on the account that is accessing that view?

# A. MIMIC CONSUMER ACCOUNT

B. TEST ACCOUNT ID

- C. PRODUCER TEST ACCT
- D. SIMULATED\_DATA\_SHARING\_CONSUMER

# **Correct Answer: D**

# Section:

# **Explanation:**

The SIMULATED DATA SHARING CONSUMER session parameter allows a data provider to test the integrity of secure views based on the account that is accessing that view2. By setting this parameter to the name of the consumer account, the data provider can query the secure view and see the results that a user in the consumer account will see2. This helps to ensure that sensitive data in a shared database is not exposed to unauthorized users1. The other options are not valid session parameters in Snowflake3

# **QUESTION 22**

A user has enrolled in Multi-factor Authentication (MFA) for connecting to Snowflake. The user informs the Snowflake Administrator that they lost their mobile phone the previous evening. Which step should the Administrator take to allow the user to log in to the system, without revoking their MFA enrollment?

- A. Alter the user and set MINS TO BYPASS MFA to a value that will disable MFA long enough for the user to log in.
- B. Alter the user and set DISABLE\_MFA to true, which will suspend the MFA requirement for 24 hours.
- C. Instruct the user to connect to Snowflake using SnowSQL, which does not support MFA authentication.
- D. Instruct the user to append the normal URL with /?mode=mfa bypass&code= to log on.

# **Correct Answer: A**

# Section:

# Explanation:



The MINS\_TO\_BYPASS\_MFA property allows the account administrator to temporarily disable MFA for a user who has lost their phone or changed their phone number1. The user can log in without MFA for the specified number of minutes, and then re-enroll in MFA using their new phone1. This does not revoke their MFA enrollment, unlike the DISABLE MFA property, which cancels their enrollment and requires them to re-enroll from scratch1. The other options are not valid ways to bypass MFA, as SnowSQL does support MFA authentication2, and there is no such URL parameter as /?mode=mfa bypass&code= for Snowflake3

# **QUESTION 23**

A company enabled replication between accounts and is ready to replicate data across regions in the same cloud service provider. The primary database object is : PROD AWS EAST. Location : AWS EAST The secondary database object is : PROD AWS WEST. Location : AWS WEST What command and account location is needed to refresh the data?

- A. Location : AWS WEST Command : REFRESH DATABASE PROD AWS WEST REFRESH;
- B. Location : AWS WEST Command : ALTER DATABASE PROD AWS WEST REFRESH;
- C. Location : AWS EAST Command : REFRESH DATABASE PROD AWS WEST REFRESH;
- D. Location : AWS EAST Command: ALTER DATABASE PROD AWS WEST REFRESH;

# **Correct Answer: A**

# Section:

# Explanation:

The REFRESH DATABASE command is used to refresh a secondary database with the latest data and metadata from the primary database1. The command must be executed in the target account where the secondary database resides2. Therefore, the answer is A, as the location is AWS WEST and the command is REFRESH DATABASE PROD AWS WEST REFRESH. The other options are incorrect because they either use the wrong location, the wrong command, or the wrong database name.

# **QUESTION 24**

What roles can be used to create network policies within Snowflake accounts? (Select THREE).

- A. SYSADMIN
- **B. SECURITYADMIN**
- C. ACCOUNTADMIN
- D. ORGADMIN
- E. Any role with the global permission of CREATE NETWORK POLICY
- F. Any role that owns the database where the network policy is created

# Correct Answer: B, C, E

# Section:

# Explanation:

Network policies are used to restrict access to the Snowflake service and internal stages based on user IP address1. To create network policies, a role must have the global permission of CREATE NETWORK POLICY2. By default, the system-defined roles of SECURITYADMIN and ACCOUNTADMIN have this permission3. However, any other role can be granted this permission by an administrator4. Therefore, the answer is B, C, and E. The other options are incorrect because SYSADMIN and ORGADMIN do not have the CREATE NETWORK POLICY permission by default3, and network policies are not tied to specific databases5.

# **QUESTION 25**

In general, the monthly billing for database replication is proportional to which variables? (Select TWO).

- A. The frequency of changes to the primary database as a result of data loading or DML operations
- B. The amount of table data in the primary database that changes as a result of data loading or DML operations
- C. The frequency of the secondary database refreshes from the primary database
- D. The number of times data moves across regions and/or cloud service providers between the primary and secondary database accounts
- E. The number and size of warehouses defined in the primary account

# Correct Answer: A, B

# Section:

# Explanation:

Snowflake charges for database replication based on two categories: data transfer and compute resources1. Data transfer costs depend on the amount of data that is transferred from the primary database to the secondary database across regions and/or cloud service providers2. Compute resource costs depend on the use of Snowflake-provided compute resources to copy data between accounts across regions1. Both data transfer and compute resource costs are proportional to the frequency and amount of changes to the primary database as a result of data loading or DML operations3. Therefore, the answer is A and B. The other options are not directly related to the replication billing, as the frequency of secondary database refreshes does not affect the amount of data transferred or copied4, and the number and size of warehouses defined in the primary account do not affect the replication process5.

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# **QUESTION 26**

Which statement allows this user to access this Snowflake account from a specific IP address (192.168.1.100) while blocking their access from anywhere else?

- A. CREATE NETWORK POLICY ADMIN POLICY ALLOWED IP LIST = ('192.168.1.100'); ALTER USER ABC SET NETWORK POLICY = 'ADMIN POLICY'; User ABC is the only user with an ACCOUNTADMIN role.
- B. CREATE NETWORK POLICY ADMIN POLICY ALLOWED IP LIST = ('192.168.1.100'); ALTER ROLE ACCOUNTADMIN SET NETWORK POLICY = 'ADMIN POLICY';
- C. CREATE NETWORK POLICY ADMIN POLICY ALLOWED IP LIST = ('192.168.1.100') BLOCKED IP LIST = ('0.0.0.0/0'); ALTER USER ABC SET NETWORK POLICY = 'ADMIN POLICY';
- D. CREATE OR REPLACE NETWORK POLICY ADMIN\_POLICY ALLOWED\_IP\_LIST = ('192.168. 1. 100/0') ; ALTER USER ABC SET NETWORK\_POLICY = 'ADMIN\_POLICY';

# **Correct Answer: C**

# Section:

# Explanation:

Option C creates a network policy that allows only the IP address 192.168.1.100 and blocks all other IP addresses using the CIDR notation 0.0.0/01. It then applies the network policy to the user ABC, who has the ACCOUNTADMIN role. This ensures that only this user can access the Snowflake account from the specified IP address, while blocking their access from anywhere else. Option A does not block any other IP addresses, option B applies the network policy to the role instead of the user, and option D uses an invalid CIDR notation.

# **QUESTION 27**

A company has many users in the role ANALYST who routinely query Snowflake through a reporting tool. The Administrator has noticed that the ANALYST users keep two small clusters busy all of the time, and occasionally they need three or four clusters of that size.

Based on this scenario, how should the Administrator set up a virtual warehouse to MOST efficiently support this group of users?

- A. Create a multi-cluster warehouse with MIN\_CLUSTERS set to 1. Give MANAGE privileges to the ANALYST role so this group can start and stop the warehouse, and increase the number of clusters as needed.
- B. Create a multi-cluster warehouse with MIN\_CLUSTERS set to 2. Set the warehouse to auto-resume and auto-suspend, and give USAGE privileges to the ANALYST role. Allow the warehouse to auto-scale.
- C. Create a standard X-Large warehouse, which is equivalent to four small clusters. Set the warehouse to auto-resume and auto-suspend, and give USAGE privileges to the ANALYST role.
- D. Create four virtual warehouses (sized Small through XL) and set them to auto-suspend and auto-resume. Have users in the ANALYST role select the appropriate warehouse based on how many queries are being run.

#### **Correct Answer: B**

#### Section:

#### **Explanation:**

According to the Snowflake documentation1, a multi-cluster warehouse is a virtual warehouse that consists of multiple clusters of compute resources that can scale up or down automatically to handle the concurrency and performance needs of the queries submitted to the warehouse. A multi-cluster warehouse has a minimum and maximum number of clusters that can be specified by the administrator. Option B is the most efficient way to support the group of users, as it allows the administrator to create a multi-cluster warehouse with MIN\_CLUSTERS set to 2, which means that the warehouse will always have two clusters running to handle the standard workload. The warehouse can also auto-scale up to the maximum number of clusters (which can be set according to the peak workload) when there is a spike in demand, and then scale down when the demand decreases. The warehouse can also auto-scapend, which means that the warehouse will alutomatically start when a query is submitted and automatically stop after a period of inactivity. The administrator can also give USAGE privileges to the ANALYST role, which means that the users can use the warehouse to execute queries and load data, but not modify or operate the warehouse. Option A is not efficient, as it requires the users to manually start and stop the warehouse, and increase the number of clusters as needed, which can be time-consuming and error-prone. Option C is not efficient, as it creates a standard X-Large warehouse, which is equivalent to four small clusters, which may be more than needed for the standard workload, and may not be enough for the peak workload. Option D is not efficient, as it creates four virtual warehouses of different sizes, which can be confusing and cumbersome for the users to select the appropriate warehouse based on how many queries are being run, and may also result in wasted resources and costs.

# **QUESTION 28**

Which command can temporarily disable Multi-factor Authentication (MFA) for the Snowflake username user1 for 24 hours?

- A. alter user userl set MINS TO BYPASS MFA=1440;
- B. alter user userl set DISABLE\_MFA=1440;
- C. alter user userl set TEMPORARY\_MFA\_BYPASS=1440;
- D. alter user userl set HOURS\_TO\_BYPASS\_MFA=24;

# **Correct Answer: A**

#### Section:

#### **Explanation:**

According to the Snowflake documentation1, the MINS\_TO\_BYPASS\_MFA property specifies the number of minutes to temporarily disable MFA for a user so that they can log in without the temporary token generated by the Duo Mobile application. After the time passes, MFA is enforced and the user cannot log in without the token. Therefore, to disable MFA for 24 hours, the value of this property should be set to 1440 minutes (24 x 60). Option B is incorrect because the DISABLE\_MFA property is a boolean value that permanently disables MFA for a user, not a numeric value that specifies the duration. Option C is incorrect because there is no such property as HOURS\_TO\_BYPASS\_MFA in Snowflake.

# **QUESTION 29**

Which function is the role SECURITYADMIN responsible for that is not granted to role USERADMIN?

- A. Reset a Snowflake user's password
- B. Manage system grants
- C. Create new users
- D. Create new roles

#### **Correct Answer: B**

# Section:

# Explanation:

According to the Snowflake documentation1, the SECURITYADMIN role is responsible for managing all grants on objects in the account, including system grants. The USERADMIN role can only create and manage users and roles, but not grant privileges on other objects. Therefore, the function that is unique to the SECURITYADMIN role is to manage system grants. Option A is incorrect because both roles can reset a user's password. Option C is incorrect because both roles can create new users. Option D is incorrect because both roles can create new roles.

# **QUESTION 30**

An Administrator has a table named SALES DATA which needs some edits, but the Administrator does not want to change the main table data. The Administrator decides to make a transient copy of this table and wants the transient table to have all the same permissions as the original table.

How can the Administrator create the transient table so it inherits the same permissions as the original table, and what considerations need to be made concerning the requirements? (Select TWO).

- A. Use the following SQL command: create transient table TRANSIENT\_SALES\_DATA as select \* from SALES\_DATA;
- B. Use the following SQL command: create transient table TRANSIENT SALES DATA as select \* from SALES DATA copy grants;
- C. Use the following SQL commands: create transient table TRANSIENT\_SALES\_DATA like SALES\_DATA copy grants; insert into TRANSIENT\_SALES\_DATA select \* from SALES\_DATA;
- D. Transient tables will persist until explicitly dropped and contribute to overall storage costs.
- E. Transient tables will be purged at the end of the user session and do not have any Fail-safe period.

# Correct Answer: B, D

# Section:

# Explanation:

According to the Snowflake documentation1, the COPY GRANTS option can be used to copy all privileges, except OWNERSHIP, from the existing table to the new transient table. This option also preserves any future grants defined for the object type in the schema. Option A is incorrect because it does not copy any grants from the original table. Option C is incorrect because it does not copy the data from the original table, only the structure and grants. Option E is incorrect because transient tables are not session-based and do not have a Fail-safe period, but they do have a Time Travel retention period2. 1: CREATE TABLE | Snowflake Documentation 2: Working with Temporary and Transient Tables | Snowflake Documentation

# **QUESTION 31**

Which actions are considered breaking changes to data that is shared with consumers in the Snowflake Marketplace? (Select TWO).

- A. Dropping a column from a table
- B. Deleting data from a table
- C. Unpublishing the data listing
- D. Renaming a table
- E. Adding region availability to the listing

# Correct Answer: A, D

# Section:

# Explanation:

According to the Snowflake documentation1, breaking changes are changes that affect the schema or structure of the shared data, such as dropping or renaming a column or a table. These changes may cause errors or unexpected results for the consumers who query the shared data. Deleting data from a table, unpublishing the data listing, or adding region availability to the listing are not breaking changes, as they do not alter the schema or structure of the shared data.

1: Managing Data Listings in Snowflake Data Marketplace | Snowflake Documentation

# **QUESTION 32**

What are the MINIMUM grants required on the database, schema, and table for a stream to be properly created and managed?

- A. Database: Usage Schema: Usage Table: Select, Create Stream
- B. Database: Usage Schema: Usage Table: Select
- C. Database: Usage, Create Stream Schema: Usage Table: Select

# D. Database: Usage Schema: Usage, Create Stream Table: Select

# Correct Answer: A

# Section:

# **QUESTION 33**

An Administrator has been asked to support the company's application team need to build a loyalty program for its customers. The customer table contains Personal Identifiable Information (PII), and the application team's role is DEVELOPER.

CREATE TABLE customer\_data ( customer\_first\_name string, customer\_last\_name string, customer\_address string, customer\_email string, ... some other columns,

);

The application team would like to access the customer data, but the email field must be obfuscated. How can the Administrator protect the sensitive information, while maintaining the usability of the data?

A. Create a view on the customer\_data table to eliminate the email column by omitting it from the SELECT clause. Grant the role DEVELOPER access to the view.

- B. Create a separate table for all the non-PII columns and grant the role DEVELOPER access to the new table.
- C. Use the CURRENT\_ROLE and CURRENT\_USER context functions to integrate with a secure view and filter the sensitive data.
- D. Use the CURRENT\_ROLE context function to integrate with a masking policy on the fields that contain sensitive data.

# **Correct Answer: D**

Section:

# **QUESTION 34**

An organization's sales team leverages this Snowflake query a few times a day: SELECT CUSTOMER ID, CUSTOMER\_NAME, ADDRESS, PHONE NO FROM CUSTOMERS WHERE LAST UPDATED BETWEEN TO\_DATE (CURRENT\_TIMESTAMP) AND (TO\_DATE (CURRENT\_TIMESTAMP) -7);

What can the Snowflake Administrator do to optimize the use of persisted query results whenever possible?

- A. Wrap the query in a User-Defined Function (UDF) to match syntax execution.
- B. Assign everyone on the sales team to the same virtual warehouse.
- C. Assign everyone on the sales team to the same security role.
- D. Leverage the CURRENT\_DATE function for date calculations.

# **Correct Answer: D**

# Section:

# **Explanation:**

According to the web search results from my predefined tool search\_web, one of the factors that affects the reuse of persisted query results is the exact match of the query syntax1. If the query contains functions that return different values for successive runs, such as CURRENT\_TIMESTAMP, then the query will not match the previous query and will not benefit from the cache. To avoid this, the query should use functions that return consistent values for the same day, such as CURRENT\_DATE, which returns the current date without the time component2. Option A is incorrect because wrapping the query in a UDF does not guarantee the syntax match, as the UDF may also contain dynamic functions. Option B is incorrect because the virtual warehouse does not affect the persisted query results, which are stored at the account level1. Option C is incorrect because the security role does not affect the persisted query results, as long as the role has the necessary privileges to access the tables and views used in the query1. 1: Using Persisted Query Results | Snowflake Documentation 2: Date and Time Functions | Snowflake Documentation

# **QUESTION 35**

# **V**-dumps

Which tasks can be performed by the ORGADMIN role? (Select THREE).

- A. Create one or more accounts in the organization.
- B. View a list of all regions enabled for the organization.
- C. Create secure views on application tables within the organization.
- D. View usage information for all accounts in the organization.
- E. Perform zero-copy cloning on account data.
- F. Create a reader account to share data with another organization.

# Correct Answer: A, B, D

# Section:

# **Explanation:**

A user with the ORGADMIN role can perform the following tasks1:

- \* Create one or more accounts in the organization.
- \* View a list of all regions enabled for the organization.
- \* View usage information for all accounts in the organization.

Option C is incorrect because creating secure views on application tables is not a function of the ORGADMIN role, but rather a function of the roles that have access to the tables and schemas within the accounts. Option E is incorrect because performing zero-copy cloning on account data is not a function of the ORGADMIN role, but rather a function of the roles that have the CLONE privilege on the objects within the accounts. Option F is incorrect because creating a reader account to share data with another organization is not a function of the ORGADMIN role, but rather a function of the roles that have the CREATE SHARE privilege on the objects within the accounts.

# **QUESTION 36**

What role or roles should be used to properly create the object required to setup OAuth 2.0 integration?

- A. Any role with GRANT USAGE on SECURITY INTEGRATION
- B. ACCOUNTADMIN and SYSADMIN
- C. ACCOUNTADMIN and SECURITYADMIN
- D. ACCOUNTADMIN only

# **Correct Answer: D**

# Section:

# Explanation:

According to the Using OAuth 2.0 with Snowflake - Blog, only the ACCOUNTADMIN role can create and manage integrations, so an administrator must assume that role when creating a security integration for OAuth. The other roles do not have the necessary privileges to create the object required to setup OAuth 2.0 integration.

# **QUESTION 37**

The following SQL command was executed: Use role SECURITYADMIN; Grant ownership On future tables In schema PROD. WORKING To role PROD\_WORKING\_OWNER; Grant role PROD\_WORKING\_OWNER to role SYSADMIN; Use role ACCOUNTADMIN; Create table PROD.WORKING.XYZ (value number) ; Which role(s) can alter or drop table XYZ?

A. Because ACCOUNTADMIN created the table, only the ACCOUNTADMIN role can alter or drop table XYZ.



- B. SECURITYADMIN, SYSADMIN, and ACCOUNTADMIN can alter or drop table XYZ.
- C. PROD\_WORKING\_OWNER, ACCOUNTADMIN, and SYSADMIN can alter or drop table XYZ.
- D. Only the PROD\_WORKING\_OWNER role can alter or drop table XYZ.

# **Correct Answer: C**

# Section:

# **Explanation:**

According to the GRANT OWNERSHIP documentation, the ownership privilege grants full control over the table and can only be held by one role at a time. However, the current owner can also grant the ownership privilege to another role, which transfers the ownership to the new role. In this case, the SECURITYADMIN role granted the ownership privilege on future tables in the PROD\_WORKING schema to the PROD\_WORKING\_OWNER role. This means that any table created in that schema after the grant statement will be owned by the PROD\_WORKING\_OWNER role. Therefore, the PROD\_WORKING\_OWNER role can alter or drop table XYZ, which was created by the ACCOUNTADMIN role can also alter or drop table XYZ, because it is the top-level role that has all privileges on all objects in the account. Furthermore, the SYSADMIN role can also alter or drop table XYZ, because it on drop table SYZ, because it does not have the ownership privilege on the table, nor does it have the PROD\_WORKING\_OWNER role. The PROD\_WORKING\_OWNER role.

# **QUESTION 38**

When adding secure views to a share in Snowflake, which function is needed to authorize users from another account to access rows in a base table?

- A. CURRENT\_ROLE
- **B. CURRENT ACCOUNT**
- C. CURRENT\_USER
- D. CURRENT\_CLIENT

# **Correct Answer: C**

#### Section:

# **Explanation:**

According to the Working with Secure Views documentation, secure views are designed to limit access to sensitive data that should not be exposed to all users of the underlying table(s). When sharing secure views with another account, the view definition must include a function that returns the identity of the user who is querying the view, such as CURRENT\_USER, CURRENT\_ROLE, or CURRENT\_ACCOUNT. These functions can be used to filter the rows in the base table based on the user's identity. For example, a secure view can use the CURRENT\_USER function to compare the user name with a column in the base table that contains the authorized user names. Only the rows that match the user name will be returned by the view. The CURRENT\_CLIENT function is not suitable for this purpose, because it returns the IP address of the client that is connected to Snowflake, which is not related to the user's identity.

# **QUESTION 39**

In which scenario will use of an external table simplify a data pipeline?

- A. When accessing a Snowflake table from a relational database
- B. When accessing a Snowflake table from an external database within the same region
- C. When continuously writing data from a Snowflake table to external storage
- D. When accessing a Snowflake table that references data files located in cloud storage

#### **Correct Answer: D**

#### Section:

# **Explanation:**

According to the Introduction to External Tables documentation, an external table is a Snowflake feature that allows you to query data stored in an external stage as if the data were inside a table in Snowflake. The external stage is not part of Snowflake, so Snowflake does not store or manage the stage. This simplifies the data pipeline by eliminating the need to load the data into Snowflake before querying it. External tables can access data stored in any format that the COPY INTO command supports, such as CSV, JSON, AVRO, ORC, or PARQUET. The other scenarios do not involve external tables, but rather require data loading, unloading, or federation.

# **QUESTION 40**



A Snowflake user runs a complex SQL query on a dedicated virtual warehouse that reads a large amount of data from micro-partitions. The same user wants to run another query that uses the same data set. Which action would provide optimal performance for the second SQL query?

- A. Assign additional clusters to the virtual warehouse.
- B. Increase the STATEMENT TIMEOUT IN SECONDS parameter in the session.
- C. Prevent the virtual warehouse from suspending between the running of the first and second queries.
- D. Use the RESULT\_SCAN function to post-process the output of the first query.

#### **Correct Answer: D**

# Section:

# Explanation:

According to the Using Persisted Query Results documentation, the RESULT SCAN function allows you to query the result set of a previous command as if it were a table. This can improve the performance of the second query by avoiding reading the same data from micro-partitions again. The other actions do not provide optimal performance for the second query because:

\* Assigning additional clusters to the virtual warehouse does not affect the data access speed, but only the query execution speed. It also increases the cost of the warehouse. \* Increasing the STATEMENT TIMEOUT IN SECONDS parameter in the session does not improve the performance of the query, but only allows it to run longer before timing out. It also increases the risk of resource contention and deadlock.

\* Preventing the virtual warehouse from suspending between the running of the first and second queries does not guarantee that the data will be cached in memory, as Snowflake uses a least recently used (LRU) cache eviction policy. It also increases the cost of the warehouse.

https://docs.snowflake.com/en/user-guide/querying-persisted-results

# **QUESTION 41**

For Snowflake network policies, what will occur when the account level and user level network policies are both defined?

- A. The account level policy will override the user level policy.
- B. The user level policy will override the account level policy.
- C. The user level network policies will not be supported.
- D. A network policy error will be generated with no definitions provided.

# **Correct Answer: B**

#### Section:

# **Explanation**:

According to the Network Policies documentation, a network policy can be applied to an account, a security integration, or a user. If there are network policies applied to more than one of these, the most specific network policy overrides more general network policies. The following summarizes the order of precedence:

- \* Account: Network policies applied to an account are the most general network policies. They are overridden by network policies applied to a security integration or user.
- \* Security Integration: Network policies applied to a security integration override network policies applied to the account, but are overridden by a network policy applied to a user. \* User: Network policies applied to a user are the most specific network policies. They override both accounts and security integrations.

Therefore, if both the account level and user level network policies are defined, the user level policy will take effect and the account level policy will be ignored. The other options are incorrect because: \* The account level policy will not override the user level policy, as explained above.

- \* The user level network policies will be supported, as they are part of the network policy feature.
- \* A network policy error will not be generated, as there is no conflict between the account level and user level network policies.

# **QUESTION 42**

MY TABLE is a table that has not been updated or modified for several days. On 01 January 2021 at 07:01, a user executed a guery to update this table. The guery ID is '8e5d0ca9-005e-44e6-b858-a8f5b37c5726'. It is now 07:30 on the same day.

Which queries will allow the user to view the historical data that was in the table before this query was executed? (Select THREE).

A. SELECT \* FROM my table WITH TIME TRAVEL (OFFSET => -60\*30);

B. SELECT \* FROM my table AT (TIMESTAMP => '2021-01-01 07:00:00' :: timestamp);



- C. SELECT \* FROM TIME TRAVEL ('MY TABLE', 2021-01-01 07:00:00);
- D. SELECT \* FROM my table PRIOR TO STATEMENT '8e5d0ca9-005e-44e6-b858-a8f5b37c5726';
- E. SELECT \* FROM my table AT (OFFSET => -60\*30);
- F. SELECT \* FROM my table BEFORE (STATEMENT => '8e5d0ca9-005e-44e6-b858-a8f5b37c5726');

# Correct Answer: B, D, F

# Section:

# Explanation:

According to the AT | BEFORE documentation, the AT or BEFORE clause is used for Snowflake Time Travel, which allows you to query historical data from a table based on a specific point in the past. The clause can use one of the following parameters to pinpoint the exact historical data you wish to access:

\* TIMESTAMP: Specifies an exact date and time to use for Time Travel.

- \* OFFSET: Specifies the difference in seconds from the current time to use for Time Travel.
- \* STATEMENT: Specifies the query ID of a statement to use as the reference point for Time Travel.

Therefore, the gueries that will allow the user to view the historical data that was in the table before the guery was executed are:

\* B. SELECT \* FROM my table AT (TIMESTAMP => '2021-01-01 07:00:00' :: timestamp); This guery uses the TIMESTAMP parameter to specify a point in time that is before the guery execution time of 07:01. \* D. SELECT \* FROM my table PRIOR TO STATEMENT '8e5d0ca9-005e-44e6-b858-a8f5b37c5726'; This query uses the PRIOR TO STATEMENT keyword and the STATEMENT parameter to specify a point in time that is immediately preceding the query execution time of 07:01.

\* F. SELECT \* FROM my table BEFORE (STATEMENT => '8e5d0ca9-005e-44e6-b858-a8f5b37c5726'); This guery uses the BEFORE keyword and the STATEMENT parameter to specify a point in time that is immediately preceding the query execution time of 07:01.

The other queries are incorrect because:

\* A. SELECT \* FROM my table WITH TIME TRAVEL (OFFSET => -60\*30); This query uses the OFFSET parameter to specify a point in time that is 30 minutes before the current time, which is 07:30. This is after the query execution time of 07:01, so it will not show the historical data before the query was executed.

\* C. SELECT \* FROM TIME TRAVEL ('MY TABLE', 2021-01-01 07:00:00); This query is not valid syntax for Time Travel. The TIME TRAVEL function does not exist in Snowflake. The correct syntax is to use the AT or BEFORE clause after the table name in the FROM clause.

\* E. SELECT \* FROM my\_table AT (OFFSET => -60\*30); This query uses the AT keyword and the OFFSET parameter to specify a point in time that is 30 minutes before the current time, which is 07:30. This is equal to the query execution time of 07:01, so it will not show the historical data before the guery was executed. The AT keyword specifies that the request is inclusive of any changes made by a statement or transaction with timestamp equal to the specified parameter. To exclude the changes made by the query, the BEFORE keyword should be used instead.

# **QUESTION 43**

What are characteristics of Dynamic Data Masking? (Select TWO).

- A. A masking policy that is currently set on a table can be dropped.
- B. A single masking policy can be applied to columns in different tables.
- C. A masking policy can be applied to the VALUE column of an external table.
- D. The role that creates the masking policy will always see unmasked data in query results.
- E. A single masking policy can be applied to columns with different data types.

# Correct Answer: B, E

# Section:

# Explanation:

According to the Using Dynamic Data Masking documentation, Dynamic Data Masking is a feature that allows you to alter sections of data in table and view columns at query time using a predefined masking strategy. The following are some of the characteristics of Dynamic Data Masking:

\* A single masking policy can be applied to columns in different tables. This means that you can write a policy once and have it apply to thousands of columns across databases and schemas. \* A single masking policy can be applied to columns with different data types. This means that you can use the same masking strategy for columns that store different kinds of data, such as strings, numbers, dates, etc.

\* A masking policy that is currently set on a table can be dropped. This means that you can remove the masking policy from the table and restore the original data visibility.

\* A masking policy can be applied to the VALUE column of an external table. This means that you can mask data that is stored in an external stage and queried through an external table. \* The role that creates the masking policy will always see unmasked data in query results. This is not true, as the masking policy can also apply to the creator role depending on the execution context conditions defined in the policy. For example, if the policy specifies that only users with a certain custom entitlement can see the unmasked data, then the creator role will also need to have that entitlement to see the unmasked data.

# **QUESTION 44**

A Snowflake Administrator needs to set up Time Travel for a presentation area that includes facts and dimensions tables, and receives a lot of meaningless and erroneous loT data. Time Travel is being used as a component of the company's data quality process in which the ingestion pipeline should revert to a known quality data state if any anomalies are detected in the latest load. Data from the past 30 days may have to be retrieved because of latencies in the data acquisition process.

According to best practices, how should these requirements be met? (Select TWO).

- A. Related data should not be placed together in the same schema. Facts and dimension tables should each have their own schemas.
- B. The fact and dimension tables should have the same DATA\_RETENTION\_TIME\_IN\_ DAYS.
- C. The DATA\_RETENTION\_TIME\_IN\_DAYS should be kept at the account level and never used for lower level containers (databases and schemas).
- D. Only TRANSIENT tables should be used to ensure referential integrity between the fact and dimension tables.
- E. The fact and dimension tables should be cloned together using the same Time Travel options to reduce potential referential integrity issues with the restored data.

# Correct Answer: B, E

# Section:

# **Explanation:**

According to the Understanding & Using Time Travel documentation, Time Travel is a feature that allows you to query, clone, and restore historical data in tables, schemas, and databases for up to 90 days. To meet the requirements of the scenario, the following best practices should be followed:

\* The fact and dimension tables should have the same DATA\_RETENTION\_TIME\_IN\_DAYS. This parameter specifies the number of days for which the historical data is preserved and can be accessed by Time Travel. To ensure that the fact and dimension tables can be reverted to a consistent state in case of any anomalies in the latest load, they should have the same retention period. Otherwise, some tables may lose their historical data before others, resulting in data inconsistency and quality issues.

\* The fact and dimension tables should be cloned together using the same Time Travel options to reduce potential referential integrity issues with the restored data. Cloning is a way of creating a copy of an object (table, schema, or database) at a specific point in time using Time Travel. To ensure that the fact and dimension tables are cloned with the same data set, they should be cloned together using the same AT or BEFORE clause. This will avoid any referential integrity issues that may arise from cloning tables at different points in time.

The other options are incorrect because:

\* Related data should not be placed together in the same schema. Facts and dimension tables should each have their own schemas. This is not a best practice for Time Travel, as it does not affect the ability to query, clone, or restore historical data. However, it may be a good practice for data modeling and organization, depending on the use case and design principles.

\* The DATA\_RETENTION\_TIME\_IN\_DAYS should be kept at the account level and never used for lower level containers (databases and schemas). This is not a best practice for Time Travel, as it limits the flexibility and granularity of setting the retention period for different objects. The retention period can be set at the account, database, schema, or table level, and the most specific setting overrides the more general ones. This allows for customizing the retention period based on the data needs and characteristics of each object.

\* Only TRANSIENT tables should be used to ensure referential integrity between the fact and dimension tables. This is not a best practice for Time Travel, as it does not affect the referential integrity between the tables. Transient tables are tables are tables that do not have a Fail-safe period, which means that they cannot be recovered by Snowflake after the retention period ends. However, they still support Time Travel within the retention period, and can be queried, cloned, and restored like permanent tables. The choice of table type depends on the data durability and availability requirements, not on the referential integrity.

# **QUESTION 45**

A Snowflake Administrator needs to persist all virtual warehouse configurations for auditing and backups. Given a table already exists with the following schema: Table Name : VWH\_META Column 1 : SNAPSHOT\_TIME TIMESTAMP\_NTZ Column 2 : CONFIG VARIANT

Which commands should be executed to persist the warehouse data at the time of execution in JSON format in the table VWH META?

A. 1. SHOW WAREHOUSES; 2. INSERT INTO VWH META SELECT CURRENT TIMESTAMP (), FROM TABLE (RESULT\_SCAN (LAST\_QUERY\_ID(1)));

B. 1. SHOW WAREHOUSES; 2. INSERT INTO VWH META SELECT CURRENT TIMESTAMP (), \* FROM TABLE (RESULT\_SCAN (LAST\_QUERY\_ID ())) ;

C. 1. SHOW WAREHOUSES; 2. INSERT INTO VWH\_META SELECT CURRENT\_TIMESTAMP (), OBJECT CONSTRUCT (\*) FROM TABLE (RESULT\_SCAN (LAST\_QUERY\_ID ()));

D. 1. SHOW WAREHOUSES; 2. INSERT INTO VWH META SELECT CURRENT TIMESTAMP (), \* FROM TABLE (RESULT\_SCAN (SELECT LAST QUERY ID(-1)));

Correct Answer: C Section: Explanation: According to the Using Persisted Query Results documentation, the RESULT\_SCAN function allows you to query the result set of a previous command as if it were a table. The LAST\_QUERY\_ID function returns the query ID of the most recent statement executed in the current session. Therefore, the combination of these two functions can be used to access the output of the SHOW WAREHOUSES command, which returns the configurations of all the virtual warehouses in the account. However, to persist the warehouse data in JSON format in the table VWH\_META, the OBJECT\_CONSTRUCT function is needed to convert the output of the SHOW WAREHOUSES command into a VARIANT column. The OBJECT\_CONSTRUCT function takes a list of key-value pairs and returns a single JSON object. Therefore, the correct commands to execute are: 1. SHOW WAREHOUSES;

2. INSERT INTO VWH\_META SELECT CURRENT\_TIMESTAMP (), OBJECT\_CONSTRUCT (\*) FROM TABLE (RESULT\_SCAN (LAST\_QUERY\_ID ())); The other options are incorrect because:

\*

A) This option does not use the OBJECT\_CONSTRUCT function, so it will not persist the warehouse data in JSON format. Also, it is missing the \* symbol in the SELECT clause, so it will not select any columns from the result set of the SHOW WAREHOUSES command.

\* B) This option does not use the OBJECT\_CONSTRUCT function, so it will not persist the warehouse data in JSON format. It will also try to insert multiple columns into a single VARIANT column, which will cause a type mismatch error.

\* D) This option does not use the OBJECT\_CONSTRUCT function, so it will not persist the warehouse data in JSON format. It will also try to use the RESULT\_SCAN function on a subquery, which is not supported. The RESULT\_SCAN function can only be used on a query ID or a table name.

