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Snowflake ADA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Account Management and Data Governance: This section of the exam measures the skills of Data Governance Managers and Database Administrators and covers account organization, access control, and regulatory data protection. Candidates will learn how to manage organizational accounts, encryption keys, and Tri-Secret Secure implementations. It focuses on applying best practices in ORGADMIN and ACCOUNTADMIN roles, implementing masking and row access policies, and performing data classification and tagging. The domain also emphasizes data auditing, account identifiers, and effective management of tables, views, and query operations to support enterprise-wide governance standards.
Topic 2	<ul style="list-style-type: none">Performance Monitoring and Tuning: This section of the exam measures the skills of Cloud Infrastructure Engineers and Performance Analysts and focuses on optimizing Snowflake compute and storage resources. Candidates will need to understand how to configure and manage virtual warehouses, evaluate query profiles, and apply caching and clustering strategies for performance tuning. It also includes monitoring concurrency, resource utilization, and implementing cost optimization strategies. The ability to interpret, explain plans, apply search optimization, and manage cost controls is key for maintaining efficient Snowflake environments.
Topic 3	<ul style="list-style-type: none">Snowflake Security, Role-Based Access Control (RBAC), and User Administration: This section of the exam measures the skills of Snowflake Administrators and Cloud Security Engineers and covers authentication, access control, and network management in Snowflake. Candidates must understand how to configure authentication methods such as SSO, MFA, OAuth, and key-pair authentication, and how to manage network policies and private connectivity. The domain also tests knowledge of user and role management using SCIM, designing access control architecture, and applying the RBAC framework to ensure secure user authorization and data protection within Snowflake environments.
Topic 4	<ul style="list-style-type: none">Disaster Recovery, Backup, and Data Replication: This section of the exam measures the skills of Disaster Recovery Engineers and Cloud Operations Managers and covers Snowflake methods for ensuring business continuity. Candidates must understand how to replicate databases and account-level objects, implement failover strategies, and perform backup and restoration through Time Travel and Fail-safe features. The domain emphasizes replication across accounts, handling data consistency during failover, and applying cost-efficient disaster recovery strategies to maintain availability during outages or regional failures.
Topic 5	<ul style="list-style-type: none">Data Sharing, Data Exchange, and Snowflake Marketplace: This section of the exam measures the skills of Data Integration Specialists and Data Platform Administrators and covers managing and implementing data-sharing solutions within Snowflake. It evaluates understanding of data sharing models across regions and clouds, secure data sharing methods, and managing provider-consumer relationships. The domain also includes the use of Snowflake Data Exchange and Marketplace to publish, consume, and manage data listings, ensuring secure collaboration and efficient data monetization.

Snowflake SnowPro Advanced Administrator Sample Questions (Q24-Q29):

NEW QUESTION # 24

If the query matches the definition, will Snowflake always dynamically rewrite the query to use a materialized view?

- A. No, because joins are not supported by materialized views.
- B. No, because the optimizer might decide against it.**
- C. No, because the materialized view may not be up-to-date.
- D. Yes, because materialized views are always faster.

Answer: B

Explanation:

Snowflake's query optimizer can automatically rewrite queries against the base table or regular views to use the materialized view instead, if the query matches the definition of the materialized view¹. However, this is not always guaranteed, as the optimizer might decide against using the materialized view based on various factors, such as the freshness of the data, the size of the result set, the

complexity of the query, and the availability of the materialized view². Therefore, the answer is no, because the optimizer might decide against it.

NEW QUESTION # 25

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 security role.
- **C. Leverage the CURRENT_DATE function for date calculations.**
- D. Assign everyone on the sales team to the same virtual warehouse.

Answer: C

Explanation:

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

NEW QUESTION # 26

An Administrator needs to create a sample of the table LINEITEM. The sample should not be repeatable and the sampling function should take the data by blocks of rows.

What select command will generate a sample of 20% of the table?

- A. select * from LINEITEM tablesample system (20) seed (1);
- B. select * from LINEITEM sample bernoulli (20);
- C. select * from LINEITEM tablesample block (20 rows);
- **D. select * from LINEITEM sample system (20);**

Answer: D

Explanation:

Explanation

This command will generate a sample of 20% of the table by using the SYSTEM (or BLOCK) sampling method, which selects each block of rows with a probability of 20/100. This method is suitable for taking data by blocks of rows, as the question requires.

According to the Snowflake documentation, "SYSTEM (or BLOCK): Includes each block of rows with a probability of p/100.

Similar to flipping a weighted coin for each block of rows. This method does not support fixed-size sampling." The other options are either incorrect or do not meet the requirements of the question. Option A uses the BERNOULLI (or ROW) sampling method, which selects each row with a probability of 20/100, but does not take data by blocks of rows. Option C uses the BLOCK sampling method, but specifies a fixed number of rows (20) instead of a percentage (20%).

Option D uses the SYSTEM sampling method, but specifies a seed value (1), which makes the sampling repeatable, contrary to the question.

NEW QUESTION # 27

A virtual warehouse report_wh is 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. MONITOR**
- B. MODIFY
- C. OPERATE
- D. OWNERSHIP
- **E. USAGE**

Answer: A,E

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.

NEW QUESTION # 28

A Snowflake Administrator is investigating why a query is not re-using the persisted result cache.

The Administrator found the two relevant queries from the SNOWFLAKE. ACCOUNT_USAGE. QUERY_HISTORY view:

	START_TIME	USER_NAME	ROLE_NAME	WAREHOUSE_NAME	QUERY_TEXT	EXECUTION_STATUS	BYTES_SCANNED	QUERY_ID
1	2022-11-30 01:49:09.124 -0800	USER1	A	WH_FINANCE	SELECT * FROM DB.S1.T1 WHERE (CREATE_DATE >= CURRENT_DATE()) AND LAST_MODIFIED < CURRENT_TIMESTAMP();	SUCCESS	2,048	01a8a70d-3201-6ab7-0000-e125001
2	2022-11-30 01:49:19.442 -0800	USER1	B	WH_PROD	SELECT * FROM DB.S1.T1 WHERE (CREATE_DATE >= CURRENT_DATE()) AND LAST_MODIFIED < CURRENT_TIMESTAMP();	SUCCESS	2,048	01a8a70d-3201-6ab7-0000-e125001

Why is the second query re-scanning micro-partitions instead of using the first query's persisted result cache?

- A. The queries are executed with two different roles.
- **B. The second query includes a CURRENT_TIMESTAMP () function.**
- C. The queries are executed with two different virtual warehouses.
- D. The second query includes a CURRENT_DATE () function.

Answer: B

Explanation:

The inclusion of the CURRENT_TIMESTAMP() function in the second query prevents it from re-using the first query's persisted result cache because this function makes each execution unique due to the constantly changing timestamp. According to the Snowflake documentation, "The query does not include non-reusable functions, which return different results for successive runs of the same query. UUID_STRING, RANDOM, and RANDSTR are good examples of non-reusable functions." The CURRENT_TIMESTAMP() function is another example of a non-reusable function, as it returns the current date and time at the start of query execution, which varies for each run. Therefore, the second query is not identical to the first query, and the result cache is not reused. The other options are either incorrect or irrelevant to the question. Option B is incorrect, as the CURRENT_DATE() function is a reusable function, as it returns the same value for all queries executed within the same day. Option C is irrelevant, as the virtual warehouse used to execute the query does not affect the result cache reuse. Option D is also irrelevant, as the role used to execute the query does not affect the result cache reuse, as long as the role has the necessary access privileges for all the tables used in the query.

NEW QUESTION # 29

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