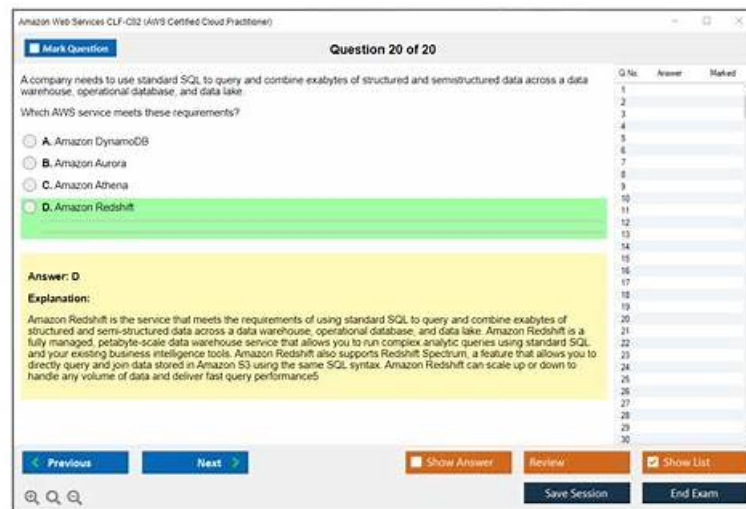


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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q156-Q161):

NEW QUESTION # 156

You are tasked with implementing a data recovery strategy for a critical table 'SALES DATA' in Snowflake. The table is frequently updated, and you need to ensure you can recover to a specific point in time in case of accidental data corruption. Which approach provides the most efficient and granular recovery option, minimizing downtime and data loss? Consider performance and storage implications of each method.

- A. Creating a Snowflake Stream on 'SALES_DATA' and capturing all DML changes for point-in-time recovery.
- B. Create a scheduled task that takes a snapshot of the sales data and store it to an external staging location.
- C. Regularly creating full clones of the 'SALES_DATA' table to a separate database.
- D. Using the 'UNDROP TABLE' command in conjunction with the 'AT' clause to revert the table to a previous state.
- E. Relying solely on Snowflake's Time Travel feature with the default data retention period.

Answer: A

Explanation:

Option C is correct: Streams provide a granular way to capture DML changes. While Time Travel provides recovery, a stream specifically captures the changes, allowing for more controlled replay and point-in-time recovery. Full clones are resource-intensive, "UNDROP" is for dropped tables, not general recovery, and relying solely on default Time Travel may not meet specific recovery time objectives.

NEW QUESTION # 157

A company is using Snowflake's web app interface to manage its data'. A data engineer needs to create a new table, load data into it from a CSV file stored in an internal stage, and then grant SELECT privileges on the table to a specific role using the web app. Which sequence of actions within the Snowflake web app represents the most efficient and secure way to accomplish this task?

- A. 1. Use the SQL worksheet to execute CREATE TABLE statement. 2. Use the Database -> Tables interface, select the table, and use the 'Load Data' option to load the CSV file. 3. Use the Database -> Tables interface, select the table, and use the 'Privileges' tab to grant SELECT privilege to the role.
- B. 1. Use the Database Tables interface to create the new table using the table editor. 2. Use the Data Load Data wizard to load the CSV file. 3. Use the SQL worksheet to execute GRANT SELECT ON TABLE statement.
- C. 1. Use the Database Tables interface to create the new table using the table editor. 2. Use the Data Load Data wizard to load the CSV file. 3. Use the Database -> Tables interface, select the table, and use the 'Privileges' tab to grant SELECT privilege to the role.
- D. 1. Use the SQL worksheet to execute CREATE TABLE statement. 2. Use the Data Load Data wizard to load the CSV file. 3. Use the SQL worksheet to execute GRANT SELECT ON TABLE statement.
- E. 1. Use the Database Tables interface to create the new table using the table editor. 2. Upload the CSV file directly to the table using the 'Load Data' option. 3. Use the SQL worksheet to execute GRANT SELECT ON TABLE statement.

Answer: B

Explanation:

Option E is the most efficient and secure option, as it leverages both the graphical interface and SQL for specific tasks. Using the Table interface in option A is clunky. Option B is inefficient as Data -> Load Data Wizard is preferable to uploading via the table interface itself. Option C uses the SQL Worksheet and lacks security. Option D is redundant. Option E provides a good balance. Creating the table via the GUI, loading the data via the load data wizard and then granting privileges by the SQL Worksheet is most efficient.

NEW QUESTION # 158

You are designing a complex data pipeline in Snowflake that involves multiple interdependent Tasks. Several of these Tasks need to access sensitive customer data, and you want to ensure that the least privilege principle is followed. How should you configure the Tasks and their associated roles to minimize the risk of unauthorized data access while maintaining the functionality of the pipeline? (Select TWO)

- A. Grant the role to the user that owns all the Tasks. This ensures that all Tasks have the necessary privileges to access any data within the Snowflake account.
- B. Create a single role with broad data access privileges and grant this role to all Tasks. This simplifies role management and ensures that no Task encounters permission errors during execution.
- C. Grant 'SELECT privilege on all tables containing sensitive data to the 'PUBLIC' role. Tasks will inherit these privileges and can access the data without explicit role assignments.
- D. Create separate, specific roles for each Task or group of related Tasks. Grant each role only the minimum necessary privileges to access the specific tables and functions required by that Task. Assign each Task to the appropriate role using the 'EXECUTE AS OWNER clause.
- E. Use stored procedures executed with 'EXECUTE AS CALLER to encapsulate the sensitive data access logic. The stored procedure owner (who should have appropriate privileges) grants execute privilege to the Task's role, but the Task itself does not directly interact with the sensitive data.

Answer: D,E

Explanation:

Following the least privilege principle is crucial for security. Creating specific roles for each Task (B) and granting only the necessary privileges minimizes the risk of unauthorized access. Using stored procedures with 'EXECUTE AS CALLER (C) allows you to

control data access through a separate, secured object, further limiting the Task's direct access to sensitive data. Option A grants excessive privileges, violating least privilege. Option D simplifies management but compromises security. Option E makes sensitive data broadly accessible, which is highly insecure.

NEW QUESTION # 159

You have a Snowflake table called 'ORDERS' with a column named 'ORDER DETAILS' that contains JSON data'. You need to create a UDF to extract a specific value from the JSON and return it. The JSON structure is consistent: '{\"customer\": {\"name\": 'John Doe', 'email': 'john.doe@example.com'}, 'items': [{\"item id\": 1, 'quantity': 2}, {\"item id\": 2, 'quantity': 1}]}'. You want to extract the customer's email address. Which of the following UDF definitions is the most efficient and correct?

```

☐ '''sql CREATE OR REPLACE FUNCTION get_customer_email(order_details VARIANT) RETURNS VARCHAR LANGUAGE SQL AS $$ SELECT order_details:customer:email::VARCHAR $$;'''
☐ '''sql CREATE OR REPLACE FUNCTION get_customer_email(order_details VARCHAR) RETURNS VARCHAR LANGUAGE SQL AS $$ SELECT PARSE_JSON(order_details):customer:email::VARCHAR $$;'''
☐ '''sql CREATE OR REPLACE FUNCTION get_customer_email(order_details VARIANT) RETURNS VARCHAR LANGUAGE JAVASCRIPT AS $$ var obj = JSON.parse(ORDER_DETAILS); return obj.customer.email; $$;'''
☐ '''sql CREATE OR REPLACE FUNCTION get_customer_email(order_details VARIANT) RETURNS VARCHAR LANGUAGE SQL AS $$ SELECT GET_PATH(order_details, 'customer', 'email')::VARCHAR $$;'''
☐ '''sql CREATE OR REPLACE FUNCTION get_customer_email(order_details VARCHAR) RETURNS VARCHAR LANGUAGE SQL AS $$ SELECT JSON_EXTRACT_PATH_TEXT(order_details, 'customer', 'email') $$;'''

```

- A. Option A
- B. Option D
- C. Option E
- D. Option B
- E. Option C

Answer: A

Explanation:

Option A is the most efficient and correct. Since the input is a VARIANT, Snowflake automatically parses the JSON. Using `order_details:customer:email::VARCHAR` directly accesses the nested fields in a performant manner within SQL. Using 'PARSE_JSON' when the input is already a VARIANT (Option B) is unnecessary and inefficient. Option C uses Javascript that while valid is slower than pure SQL solution when processing JSON. Option D using GET_PATH is valid, but not native to the syntax which is slightly less efficient. Option E is deprecated function that is no longer used, thus is invalid.

NEW QUESTION # 160

You have a Snowflake table, 'CUSTOMER ORDERS', with columns like 'CUSTOMER ID', 'ORDER DATE', 'ORDER AMOUNT', and 'REGION'. A BI dashboard relies on a query that aggregates data from this table, but the query performance is consistently slow. The query frequently filters by 'ORDER DATE' and groups by 'REGION'. Based on the following 'EXPLAIN' output, which combination of techniques should be considered to improve the performance the most?

```
{ "operation": "Aggregate", "cardinality": 1000, "cost": 10000000, "input": { "operation": "Filter", "cardinality": 1000000, "cost": 5000000, "input": { "operation": "TableScan", "cardinality": 100000000, "cost": 1000000, "table": "CUSTOMER_ORDERS" } } }
```

- A. Increase the virtual warehouse size to 'LARGE' or 'XLARGE'.
- B. Redesign the dashboard to minimize the data being displayed at once to the user.
- C. Cluster the 'CUSTOMER ORDERS' table on 'ORDER DATE' and 'REGION'.
- D. Create a materialized view that pre-aggregates the data by 'ORDER DATE' and 'REGION'.
- E. Create an index on the 'ORDER DATE' column.

Answer: C,D

Explanation:

The 'EXPLAIN' output shows that the 'TableScan' operation has a high cardinality (100000000 rows), indicating that Snowflake is scanning a large portion of the table. The 'Filter' operation also has a high cardinality (1000000 rows). Creating a materialized view (A) that pre-aggregates the data by 'ORDER DATE' and 'REGION' can significantly improve performance by reducing the amount of data that needs to be scanned and aggregated at query time. Clustering the table on 'ORDER DATE' and 'REGION' (C) can also improve performance by organizing the data in a way that allows Snowflake to prune more data during the table scan. Indexes are not supported, increasing warehouse size provides more compute resources but is less effective than optimizing the data organization or query strategy. Redesigning dashboard can help with presentation layer but not at Database layer.

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