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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q194-Q199):

NEW QUESTION # 194

You are designing a CI/CD pipeline for your Snowflake data transformations. One stage involves testing a new stored procedure that modifies several tables in your data warehouse. To ensure data integrity and proper rollback capabilities during testing in your development environment, you want to use a combination of cloning and Time Travel. Select the option that represents the most robust strategy for testing with the ability to revert to the original state in case of failures. Choose all that apply.

- A. Before executing the stored procedure in development, create clones of all affected tables and store the clone names in a configuration file for rollback if needed.
- B. Create a new database by cloning the existing database before the transformations. Use the cloned database for all development and testing.
- C. Create a clone of the schema containing all the tables affected by the stored procedure before executing the procedure in the development environment. This will create point in time backup to rollback at schema level.
- D. Immediately after executing the stored procedure, execute 'UNDROP TABLE' on all the affected tables. If there were errors, it would restore data from the point of the procedure execution.

- E. Leverage Snowflake's Time Travel feature to create a named snapshot of each affected table immediately before running the stored procedure. Use the 'AT(TIMESTAMP ...)' or 'BEFORE(STATEMENT => ...)' syntax within your testing framework, for easy reversion.

Answer: C,E

Explanation:

Options B and C provide the most robust and Snowflake-native rollback capabilities. Cloning the schema provides a complete and consistent snapshot of all affected tables. Time Travel offers fine-grained control for reverting individual tables to a specific point in time. Option A is less efficient as you would need to manage numerous clones and track them manually which would impact the development. Option D 'UNDROP TABLE' command is for objects that have been dropped already, it is not relevant here. Cloning database in Option E is too resource intensive for regular testing within a CI/CD pipeline.

NEW QUESTION # 195

You have a table named 'ORDERS' with a column 'ORDER DETAILS' that contains JSON data'. You want to extract a specific nested value ('customer id') from this JSON data using a SQL UDF. The JSON structure varies, and sometimes the 'customer id' field might be missing. You need to create a UDF that handles missing fields gracefully and returns NULL if 'customer id' is not found. Also, You are looking for a performant solution that is highly scalable. Which of the following SQL UDF definitions is most appropriate?

- A.

```
CREATE OR REPLACE FUNCTION get_customer_id(order_details VARIANT) RETURNS VARCHAR AS $$ TRY_PARSE_JSON(order_details):customer_id::VARCHAR; $$;
```

- B.

```
CREATE OR REPLACE FUNCTION get_customer_id(order_details VARIANT) RETURNS VARCHAR AS $$ SELECT CASE WHEN IS_OBJECT(order_details) AND order_details:customer_id IS NOT NULL THEN order_details:customer_id::VARCHAR ELSE NULL END; $$;
```

- C.

```
CREATE OR REPLACE FUNCTION get_customer_id(order_details VARIANT) RETURNS VARCHAR AS $$ SELECT order_details:customer_id::VARCHAR; $$;
```

- D.

```
CREATE OR REPLACE FUNCTION get_customer_id(order_details VARCHAR) RETURNS VARCHAR AS $$ SELECT PARSE_JSON(order_details):customer_id::VARCHAR; $$;
```

- E.

```
CREATE OR REPLACE FUNCTION get_customer_id(order_details VARCHAR) RETURNS VARCHAR AS $$ TRY_PARSE_JSON(order_details):customer_id::VARCHAR; $$;
```

Answer: E

Explanation:

Option B is the most appropriate because it uses 'NVL' to explicitly handle the case where is NULL, returning NULL in such cases. This prevents errors and ensures graceful handling of missing data. Option A would result in an error if the key doesn't exist in the JSON. Option C is more verbose but also handles NULLs, but NVL provides a more concise solution and it doesn't handle invalid JSON structures. Option D uses 'PARSE JSON' on a 'VARCHAR' input, which is less efficient than using 'VARIANT' directly. Option E: TRY_PARSE_JSON returns NULL, and can't get to customer_id. This question tests understanding of JSON handling, NULL handling, and performance considerations when working with semi-structured data in Snowflake UDFs. It also requires knowledge on the appropriate data type to define UDF arguments and expected return type.

NEW QUESTION # 196

A data engineering team is implementing a data governance strategy in Snowflake. They need to track the lineage of a critical table 'SALES DATA' from source system ingestion to its final consumption in a dashboard. They have implemented masking policies on sensitive columns in 'SALES DATA'. Which combination of Snowflake features and actions will MOST effectively allow them to monitor data lineage and object dependencies, including visibility into masking policies?

- A. Use the INFORMATION_SCHEMA views like 'TABLES', 'COLUMNS', and 'POLICY_REFERENCES'. These views, combined with custom queries to analyze query history logs, will provide a complete lineage and masking policy overview.
- B. Create a custom metadata repository and use Snowflake Scripting to parse query history and object metadata periodically. Manually track dependencies and policy changes by analyzing the output.
- C. Enable Account Usage views like 'QUERY_HISTORY', and 'ACCESS_HISTORY'. These views directly show table dependencies and policy applications.
- D. Rely solely on a third-party data catalog tool that integrates with Snowflake's metadata API. These tools automatically track lineage and policy information and provide the best and most effective results.
- E. Utilize Snowflake's Data Governance features, specifically enabling Data Lineage using Snowflake Horizon and utilize the

view along with query the 'QUERY HISTORY' view. These features natively track data flow and policy application.

Answer: E

Explanation:

Snowflake Horizon's Data Lineage feature is designed to track the flow of data through your Snowflake environment. Combining this with 'POLICY_REFERENCES' (which shows which policies are applied to which objects) and (to see how data is transformed) provides the most complete and native solution. Account Usage views and INFORMATION_SCHEMA views provide valuable metadata, but don't offer lineage tracking out-of-the-box like Snowflake Horizon. While third-party tools and custom solutions are options, leveraging Snowflake's native capabilities is generally more efficient and cost-effective for basic lineage tracking.

NEW QUESTION # 197

A Snowflake table 'PRODUCT REVIEWS' is being ingested into from an external system. You have a stream 'PRODUCT REVIEWS STREAM' defined on this table to capture changes. Due to a bug in the ingestion process, incorrect data was loaded for a specific period. You need to correct the data. Which of the following SQL statements, when executed against the 'PRODUCT REVIEWS STREAM', will return the number of rows that were inserted, updated, and deleted during that period?

- A.

```
SELECT count( ) FROM PRODUCT_REVIEWS_STREAM;
```
- B.

```
SELECT count( ) FROM PRODUCT_REVIEWS_STREAM WHERE METADATA$action = 'DELETE';
```
- C.

```
SELECT METADATA$action, count( ) FROM PRODUCT_REVIEWS_STREAM GROUP BY METADATA$action;
```
- D.

```
SELECT count( ) FROM PRODUCT_REVIEWS_STREAM WHERE METADATA$action = 'UPDATE';
```
- E.

```
SELECT count( ) FROM PRODUCT_REVIEWS_STREAM;
```

Answer: C

Explanation:

Option D is correct: The query 'SELECT METADATA\$action, count() FROM GROUP BY METADATA\$action\$ will correctly return the number of rows for each action (INSERT, UPDATE, DELETE) within the stream. Options A, B, and C will give a total of only a single action type and E would give the total number of records in the stream regardless of action, failing to provide granular count per action.

NEW QUESTION # 198

You are responsible for ensuring data consistency across multiple Snowflake tables involved in a financial reporting system. You've noticed discrepancies in aggregate calculations between a 'TRANSACTIONS' table and a summary table 'MONTHLY REPORTS'. The 'TRANSACTIONS' table is frequently updated via streams and tasks. Which combination of the following strategies would be MOST effective in identifying and resolving these inconsistencies in near real-time?

- A. Use Snowflake's row access policies to restrict access to the 'TRANSACTIONS' table, forcing users to only access the 'MONTHLY REPORTS' table.
- B. Implement data validation checks within the data pipeline (streams and tasks) that update the 'TRANSACTIONS' table to reject transactions that violate predefined business rules.
- C. Create a Snowflake alert that triggers when the difference in the total 'SALE_AMOUNT' between the 'TRANSACTIONS' table and 'MONTHLY REPORTS' exceeds a predefined threshold within a specified time window.
- D. Utilize Snowflake's Time Travel feature to compare the 'TRANSACTIONS' table and 'MONTHLY _ REPORTS' table at a specific point in time and identify the changes that led to the discrepancies.
- E. Implement a Snowflake task that periodically recalculates the 'MONTHLY_REPORTS' table from the 'TRANSACTIONS' table and compares the results with the existing data, logging any discrepancies. Use a smaller warehouse size to minimize cost.

Answer: B,C,D

Explanation:

Options B, C and D are the most useful. Option B leverages Time Travel to compare data at a specific point. Option C creates an alert to check the difference in total amount. Option D prevents inconsistent data from ever entering the table. Option A attempts to fix an issue, rather than preventing it and a small warehouse will take too long to complete. Option E restricts table access, but does not resolve inconsistent data, which is not what the prompt requests.

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