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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q278-Q283):

NEW QUESTION # 278

You are building a data pipeline in Snowflake that uses an external function to perform sentiment analysis on customer reviews stored in a table named 'CUSTOMER REVIEWS'. The external function 'sentiment_analyzer' is hosted on AWS Lambda and requires an API key for authentication. You want to ensure that the API key is securely passed to the Lambda function and prevent unauthorized access. Which of the following approaches represents the MOST secure and recommended method to manage the API key?

- A. Create a Snowflake secret object to store the API key and reference it in the external function definition using the 'USING' clause and 'SYSTEM\$GET SECRET' function.
- B. Embed the API key directly into the AWS Lambda function's environment variables, avoiding any transmission from Snowflake.
- C. Store the API key directly in the external function definition as a string literal within the 'AS' clause.
- D. Pass the API key as a parameter to the external function each time it is called.

- E. Store the API key in a Snowflake table with restricted access and retrieve it within the external function's logic.

Answer: A

Explanation:

Storing the API key directly in the function definition (A) or passing it as a parameter (B) exposes the key. Storing it in a table (D) is also less secure than using Snowflake secrets. While embedding the API key into the AWS Lambda function's environment variables (E) improves security, it doesn't address securing the key during transmission from Snowflake and offers no auditability. The most secure approach is to use a Snowflake secret object (C) to store the API key securely and reference it in the external function definition using the clause and 'SYSTEM\$GET SECRET' function. This method provides encryption at rest and in transit and allows for centralized management and auditing of secrets.

NEW QUESTION # 279

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. 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.
- B. 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.
- 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 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.
- E. 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.

Answer: A,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 # 280

You need to implement a data masking policy on the 'EMAIL' column of the 'EMPLOYEES' table. The requirement is to redact the entire email address with 'XXXXX' if the user's role is 'PUBLIC'. If the user's role is 'ANALYST', the domain part of the email should be visible, but the username should be redacted. For all other roles, the full email should be visible. Which of the following SQL statements CORRECTLY implements this masking policy?

- ☒ CREATE OR REPLACE MASKING POLICY email_mask AS (val STRING) RETURNS STRING -> CASE WHEN CURRENT_ROLE() = 'PUBLIC' THEN 'XXXXX' WHEN CURRENT_ROLE() = 'ANALYST' THEN regexp_replace(val, '.*@', 'XXXXX@') ELSE val END;
- ☐ CREATE OR REPLACE MASKING POLICY email_mask AS (val STRING) RETURNS STRING -> CASE WHEN CURRENT_ROLE() = 'PUBLIC' THEN 'XXXXX' WHEN CURRENT_ROLE() = 'ANALYST' THEN regexp_replace(val, '^[^@]+', 'XXXXX') ELSE val END;
- ☐ CREATE OR REPLACE MASKING POLICY email_mask AS (val STRING) RETURNS STRING -> CASE WHEN CURRENT_ROLE() = 'PUBLIC' THEN 'XXXXX' WHEN CURRENT_ROLE() = 'ANALYST' THEN REGEXP_REPLACE(val, '(.)@', 'XXXXX@') ELSE val END;
- ☐ CREATE OR REPLACE MASKING POLICY email_mask AS (val STRING) RETURNS STRING -> CASE WHEN CURRENT_ROLE() = 'PUBLIC' THEN 'XXXXX' WHEN CURRENT_ROLE() = 'ANALYST' THEN regexp_replace(val, '^.*@', 'XXXXX@') ELSE val END;
- ☐ CREATE OR REPLACE MASKING POLICY email_mask AS (val STRING) RETURNS STRING -> CASE WHEN CURRENT_ROLE() = 'PUBLIC' THEN 'XXXXX' WHEN CURRENT_ROLE() = 'ANALYST' THEN regexp_replace(val, '^[^@]+', 'XXXXX') ELSE val END;

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

- D. Option B
- E. Option D

Answer: B

Explanation:

Option E correctly uses the 'REGEXP_REPLACE' function with the regular expression to replace everything before the '@' symbol with 'XXXXXX', thus redacting the username while preserving the domain. The other options have issues with the regex, potentially redacting the entire email in the 'ANALYST' case or not redacting the username properly. Option A's regex @ will replace everything till the last occurrence of @, which is not desired here. B and D have similar issues as A with the regex.

NEW QUESTION # 281

A data pipeline ingests clickstream data from various sources into a raw Snowflake table CRAW_CLICKS). A transformation job then processes this data and loads it into a more structured 'CLICK_EVENTS' table, performing filtering, cleaning, and data enrichment. The data engineering team notices significant performance bottlenecks during this transformation process, leading to data freshness issues.

The team wants to optimize this process, considering the following:

- A. Implement a change data capture (CDC) mechanism on the source systems to only ingest changed data into 'RAW_CLICKS', reducing the overall data volume and the amount of data processed by the transformation job.
- B. Create a materialized view on top of 'RAW_CLICKS' that pre-computes the necessary transformations and aggregations, allowing the 'CLICK_EVENTS' table to be populated directly from the materialized view.
- C. Replace the transformation job with a series of smaller, more specialized jobs, each running on a separate virtual warehouse optimized for the specific task, and orchestrate these jobs using a data pipeline tool.
- D. Use a larger virtual warehouse for the transformation job and partition the 'RAW_CLICKS' table on the ingestion timestamp to improve data pruning and reduce the amount of data processed during the transformation.
- E. Optimize the transformation queries by identifying and rewriting inefficient SQL patterns, ensuring appropriate use of joins, filtering conditions, and data type conversions.

Answer: A,B,E

Explanation:

Implementing CDC reduces the amount of data processed. Materialized views pre-compute results, avoiding repeated transformations. Optimizing SQL queries improves the efficiency of the transformation logic. Using a larger warehouse helps, but doesn't address the fundamental issue of processing unnecessary data. Breaking the transformation job into smaller jobs may add overhead and complexity without a clear performance benefit. Partitioning is a database term and clustering is snowflake, the question relates to snowflake.

NEW QUESTION # 282

A data engineer observes that a daily data transformation pipeline in Snowflake, which processes data from external stage 's3://my-bucket/raw_dataP', is consistently taking longer to complete. Upon investigation, the engineer finds that the COPY INTO statement is the bottleneck. The COPY INTO statement is as follows:

```
COPY INTO MY_DATABASE.MY_SCHEMA.TARGET_TABLE
FROM @MY_DATABASE.MY_SCHEMA.MY_STAGE
FILE_FORMAT = (TYPE = CSV FIELD_DELIMITER = ',' SKIP_HEADER = 1)
ON_ERROR = 'CONTINUE'
PATTERN = '.csv';
```

Which of the following could be the root cause of the performance degradation and how would you address them? Select two options.

- A. The 'ON_ERROR = 'CONTINUE'' option is causing the COPY INTO statement to perform additional error handling, slowing down the process. Remove the 'ON_ERROR' clause to improve performance.
- B. The PATTERN '.csv' is inefficient. Refine the PATTERN to be more specific, targeting only the necessary files, potentially using date-based partitioning. If date partitioning is used, leverage partition pruning by including the appropriate date criteria in the COPY INTO statement.
- C. The external stage contains a large number of small files. Snowflake's COPY INTO statement performs best with fewer, larger files. Consolidate the small files into larger files before loading.

- D. The virtual warehouse used for the COPY INTO operation is undersized. Increase the virtual warehouse size to improve performance.
- E. Snowflake automatically optimizes COPY INTO operations. No specific action is needed.

Answer: B,C

Explanation:

Option B is correct because a large number of small files can significantly degrade COPY INTO performance. Snowflake performs best with fewer, larger files. Option E is also correct because an overly broad pattern can force Snowflake to evaluate unnecessary files. Refining the pattern and leveraging partition pruning can improve performance. Option A is incorrect as 'ON_ERROR = CONTINUE' is not the primary cause for performance issues, it just handles the error instead of failing the job. Option C might help in some cases but its not the primary cause, more focusing on the data loading part. Option D is incorrect as Snowflake does not fully automate COPY INTO operations and some level of tuning might be needed.

NEW QUESTION # 283

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