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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q299-Q304):

NEW QUESTION # 299

Consider a table 'EVENT DATA' that stores events from various applications. The table has columns like 'EVENT ID', 'EVENT TIMESTAMP', 'APPLICATION ID', 'USER ID', and 'EVENT _ TYPE'. A significant portion of queries filter on 'EVENT TIMESTAMP' ranges AND 'APPLICATION ID'. The data volume is substantial, and query performance is crucial. You observe high clustering depth after initial loading. Which combination of actions will provide the MOST effective performance optimization, addressing both clustering depth and query performance?

- A. Cluster the table on 'USER ID' and rely solely on Snowflake's automatic reclustering feature, without running 'OPTIMIZE TABLES' manually.
- B. Create multiple materialized views: one filtering on common 'EVENT TIMESTAMP' ranges, and another filtering on common 'APPLICATION ID' values.
- C. Create separate tables for each 'APPLICATION ID', each clustered on 'EVENT_TIMESTAMP'. Then, create a view that UNION ALLs these tables.
- **D. Cluster the table on '(EVENT_TIMESTAMP, APPLICATION_ID)' and periodically run 'OPTIMIZE TABLE EVENT DATA' using a warehouse sized appropriately for the table size. Then, monitor clustering depth regularly.**
- E. Cluster the table on 'EVENT_TIMESTAMP' and periodically run 'OPTIMIZE TABLE EVENT DATA' using a small warehouse. Also, create a separate table clustered on 'APPLICATION_ID'.

Answer: D

Explanation:

Clustering on '(EVENT_TIMESTAMP, APPLICATION_ID)' directly addresses the common query patterns. Regularly running 'OPTIMIZE TABLE EVENT DATA' with an appropriately sized warehouse ensures the data remains well-clustered as new data is added, reducing clustering depth and maintaining performance. Monitoring clustering depth is essential to identify when reclustering is needed. Clustering on a single dimension like 'USER ID' (C) doesn't address the primary query patterns. Creating separate tables (A, D) introduces complexity and management overhead. Materialized views (E) are helpful for specific pre-aggregated results, but clustering optimizes the base table for a wider range of queries. Optimizing with the right sized warehouse is crucial, a small warehouse might take an extremely long time.

NEW QUESTION # 300

You're building a data product on the Snowflake Marketplace that includes a view that aggregates data from a table containing Personally Identifiable Information (PII). You need to ensure that consumers of your data product CANNOT directly access the underlying PII data but can only see the aggregated results from the view. What is the MOST secure and recommended approach to achieve this?

- A. Grant 'READ' privilege on the internal stage containing the data files backing the PII table.
- **B. Grant the 'SELECT' privilege only on the view to the share used for the Marketplace listing. Do not grant any privileges on the underlying PII table.**
- C. Create a stored procedure that returns the aggregated data, and grant EXECUTE privilege on the stored procedure to the share. The stored procedure SELECTs from the PII table.
- D. Grant USAGE privilege on the database containing the PII table and to the share.
- E. Grant the 'SELECT' privilege directly on the underlying PII table to the share used for the Marketplace listing, along with the 'SELECT' privilege on 'sensitive data view'.

Answer: B

Explanation:

Granting only 'SELECT' privilege on the view (option B) ensures that consumers can only access the view and not the underlying PII data. Granting 'SELECT' on the underlying table (option A) defeats the purpose of the view. Using a stored procedure (option C), while potentially masking the data access, is less performant and can still expose data if not carefully implemented. 'USAGE' privilege (option D) only allows access to the database, not the data itself. 'READ' on the stage (option E) allows direct access to the raw data, which exposes the PII.

NEW QUESTION # 301

You are developing a Secure UDF in Snowflake to encrypt sensitive customer data'. The UDF should only be accessible by authorized roles. Which of the following steps are essential to properly secure the UDF?

- A. Setting the 'SECURITY INVOKER' clause when creating the UDF to execute the UDF with the privileges of the caller.
- B. Granting the EXECUTE privilege on the UDF only to the roles that require access.
- C. Using the 'SECURE' keyword when creating the UDF to prevent viewing the UDF definition.
- D. Ensuring that the UDF is owned by a role with appropriate permissions and limiting access to this role.
- E. Using masking policies instead of Secure UDFs is the recommended approach for data security

Answer: B,C,D

Explanation:

Secure UDFs protect the code definition. Granting EXECUTE privilege controls access to the UDF Ownership control is critical for managing permissions. SECURITY INVOKER, when used inappropriately can lead to security breaches if not properly managed and it executes with the privileges of the caller, potentially bypassing intended access restrictions. Masking policies are useful, but don't cover the core security functionality of secure UDFs, which hide the function's code itself.

NEW QUESTION # 302

You have implemented a Snowpipe using auto-ingest to load data from an AWS S3 bucket. The pipe is configured to load data into a table with a 'DATE' column ('TRANSACTION DATE'). The data files in S3 contain a date field in the format 'YYYYMMDD'. Occasionally, you observe data loading failures in Snowpipe with the error message indicating an issue converting the string to a date. The 'FILE FORMAT' definition includes 'DATE FORMAT = 'YYYYMMDD''. Furthermore, you are also noticing that after a while, some files are not being ingested even though they are present in the S3 bucket. How to effectively diagnose and resolve these issues?

- A. The 'DATE FORMAT' parameter is case-sensitive. Ensure it matches the case of the incoming data. Also, check the 'VALIDATION MODE' and 'ERROR' parameters to ensure error handling is appropriately configured for files with date format errors. For the files that are not ingested use 'SYSTEM\$PIPE' to find the cause of the issue.
- B. Verify that the 'DATE FORMAT' is correct and that all files consistently adhere to this format. Check for corrupted files in S3 that may be preventing Snowpipe from processing subsequent files. Additionally, review the Snowpipe error notifications in Snowflake to identify the root cause of ingestion failures. Use 'SYSTEM\$PIPE' to troubleshoot the files not ingested
- C. The issue may arise if the time zone of the Snowflake account does not match the time zone of your data in AWS S3. Try setting the 'TIMEZONE' parameter in the FILE FORMAT definition. For files that are not being ingested, manually refresh the Snowpipe with 'ALTER PIPE ... REFRESH'.
- D. The error could be due to invalid characters in the source data files. Implement data cleansing steps to remove invalid characters from the date fields before uploading to S3. For files not being ingested, check S3 event notifications for missing or failed events.
- E. Snowflake's auto-ingest feature has limitations and may not be suitable for inconsistent data formats. Consider using the Snowpipe REST API to implement custom error handling and data validation logic. Monitor the Snowflake event queue to ensure events are being received.

Answer: A,B

Explanation:

Option A is partially correct as the validation_mode parameter in file format needs to be reviewed, not only the case sensitivity for the date. Case sensitivity isn't strictly enforced for DATE FORMAT. Snowflake's documentation specifies the valid specifiers (YYYY, MM, DD, etc.) which are generally case-insensitive in this context. The 'VALIDATION MODE' and 'ON ERROR' parameters in the copy option are critical. Incorrect handling of files that fails can cause future file ingests to stop. Option E highlights the importance of verifying the data format consistency and checking for corrupted files. Corrupted files or files that do not adhere to the specified format can cause Snowpipe to fail and potentially stop processing further files. Option B is incorrect, while timezone mismatches can cause issues, they don't directly lead to data loading failures with format conversion if the format is wrong or if file validation caused the issue. Option C's suggestion of data cleansing is valid in general, but it addresses a different problem (data quality) than the specific error described in the question. Option D proposes switching to the REST API, which is an overkill for this scenario. The auto-ingest feature is suitable; the problem is likely with data format inconsistencies or error handling.

NEW QUESTION # 303

You are ingesting data from an external stage (AWS S3) into a Snowflake table using Snowpipe. Data files are continuously being uploaded to the stage. After several hours, you notice that some data files are not being loaded. You check the Snowpipe error notifications and see 'net.snowflake.ingest.errors.FileSizeLimitExceededError'. You have already verified that the Snowpipe is correctly configured and the user has the necessary permissions. What are the MOST LIKELY reasons for this error and how can you resolve them?

- A. Snowflake has reached its maximum allowable data storage capacity. Increase your Snowflake storage capacity to resolve this issue.
- B. The Snowpipe is encountering a transient network error. Reset the pipe using ALTER PIPE REFRESH;
- **C. The size of the data files in the stage exceeds the maximum allowed size for Snowpipe. Split the large files into smaller files before uploading to the stage.**
- D. The Snowpipe configuration is incorrect; specifically, the 'FILE FORMAT' parameter is not correctly specified to handle the file type. Reconfigure the Snowpipe with the correct 'FILE FORMAT'.
- E. The data files are being uploaded to the stage faster than Snowpipe can process them. Increase the value of the 'MAX CONCURRENCY' parameter in the Snowpipe definition.

Answer: C

Explanation:

The 'net.snowflake.ingest.errors.FileSizeLimitExceededError' clearly indicates that the size of the data files being ingested is exceeding the maximum allowed size for Snowpipe. While Snowflake does have storage capacity limits, that is not the root cause of this specific error. Splitting the files into smaller sizes prior to uploading will allow Snowpipe to process the data without exceeding the size limit. While network errors can occur, the error message is specific to file size. Snowpipe does not use 'MAX CONCURRENCY' parameter. It automatically adjusts the concurrency. The file format issues will create different error.

NEW QUESTION # 304

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