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## **Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q91-Q96):**

### **NEW QUESTION # 91**

A large e-commerce company stores clickstream data in an AWS S3 bucket. The data is partitioned by date and consists of Parquet files. They need to analyze this data in Snowflake without physically moving it into Snowflake's internal storage. However, the data frequently changes, and they need to ensure queries reflect the latest updates to the files without significant latency. Which of the following approaches would be MOST suitable, considering cost, performance, and data freshness?

- A. Create a standard external table with the 'AUTO REFRESH' parameter set to 'TRUE'. This will automatically refresh the metadata whenever changes are detected in S3.
- B. **Create an Iceberg table backed by the S3 bucket. Snowflake will automatically manage the metadata and handle incremental updates efficiently.**
- C. Create a series of views on top of the S3 bucket using 'READ\_PARQUET' function, updating view definitions whenever underlying files change.
- D. Create a standard external table directly on the S3 bucket. Refresh the external table metadata using SALTER

EXTERNAL TABLE ... REFRESH' on a daily schedule.

- E. Create an external table using a Snowflake-managed catalog. Configure a Snowpipe to automatically refresh the metadata as new files are added to the S3 bucket.

#### Answer: B

Explanation:

Iceberg tables are the most suitable option in this scenario. They address the limitations of standard external tables regarding metadata management and incremental updates. 'AUTO REFRESH' for external tables isn't ideal for frequent changes as it still relies on scanning the file system. A Snowflake-managed catalog with Snowpipe could work, but Iceberg is more purpose-built for handling the data evolution in place. `READ_PARQUET` in views is inefficient as it requires parsing the data every time the view is queried. Iceberg provides ACID properties and optimized query performance on data residing in external storage. The key benefit is the automatic metadata management provided by Snowflake for Iceberg tables.

#### NEW QUESTION # 92

You are building a data pipeline that involves ingesting data from AWS S3 into Snowflake using Snowpipe. The data arrives in small files frequently, and you are experiencing performance issues with delayed data availability. You need to optimize the pipeline for near real-time ingestion. Which combination of strategies will MOST effectively address this scenario?

- A. Configure S3 event notifications to trigger Snowpipe only when a sufficient number of files have arrived in the S3 bucket, using a serverless function (like AWS Lambda) to manage the file count threshold.
- B. Manually refresh the Snowpipe using the 'ALTER PIPE ... REFRESH' command every few minutes to force ingestion of new data.
- C. Enable auto-ingest on the Snowpipe and increase the frequency of S3 event notifications to Snowflake. Combine this with clustering the target table on a relevant column to optimize query performance after loading.
- D. Increase the warehouse size used for the Snowpipe load process and adjust the 'MAX FILE SIZE' parameter on the pipe definition to match the size of the incoming files.
- E. Implement a micro-batching process using a third-party tool (like Apache Spark) to aggregate the small files into larger batches before loading them into S3, then configure Snowpipe to ingest the larger files.

#### Answer: C

Explanation:

Enabling auto-ingest on the Snowpipe and increasing the frequency of S3 event notifications is the most effective way to handle frequent small files. Auto-ingest automatically loads files as soon as they are available, and frequent notifications ensure minimal delay. Clustering the target table improves query performance by organizing data based on a relevant column, leading to faster data retrieval. The option A related to MAX FILE SIZE is invalid since it does not exist in the context of Snowpipe. Options involving third-party tools add complexity and latency. Manually refreshing the pipe is not a scalable solution. Option C is not ideal because you want low latency, not delaying trigger. Option D provides the lowest latency at scale, while A, B, C and E would likely have a negative impact on latency, add extra steps, or are plain incorrect.

#### NEW QUESTION # 93

You are tasked with calculating the daily moving average of sales for each product category in your Snowflake data warehouse using Snowpark Python. You need to handle cases where there might be missing sales data for certain days. You have the following sales data available in a table named with columns: (DATE), (VARCHAR), and 'sales\_amount' (NUMBER). Which of the following Snowpark Python code snippets correctly calculates the 7-day moving average of sales amount per product category, filling in missing sales days with 0, and handles potential division by zero?

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

#### Answer: B

Explanation:

Option C correctly addresses the problem by first generating a date series to account for missing dates. The solution then does cross join to generate the data, followed by the window aggregation and coalesce, which correctly uses the avg window operation filling

zero for the null values.

#### NEW QUESTION # 94

A data engineer is tasked with creating an external table that points to a directory in AWS S3 containing CSV files. The files have a header row and are comma-delimited. The engineer executes the following DDL statement:

- A. The statement will fail because the 'LOCATION' is missing the protocol (e.g., 's3://').
- B. The statement will fail because external tables cannot be created directly from CSV files without defining a stage.
- C. The statement will fail because the 'SKIP HEADER' property is invalid and the 'skip\_header' parameter should be used in the 'CREATE FILE FORMAT' statement.
- D. The statement will succeed if a file format named 'csv\_format' with the specified properties already exists.
- E. The statement will fail because the 'FIELD\_DELIMITER' property should be 'DELIMITER'.

**Answer: C**

Explanation:

The 'SKIP\_HEADER' property is deprecated in the 'CREATE EXTERNAL TABLE' statement. You must define this property in the file format. A stage is not strictly necessary for creating an external table, the location can be specified directly if the proper access permissions are in place. The 'FIELD\_DELIMITER' property is valid. Also if a File Format is already created correctly, it does not mean this statement will succeed, the parameters passed on the statement itself are relevant. So statement will fail because the 'SKIP HEADER' property is invalid and the 'skip\_header' parameter should be used in the 'CREATE FILE FORMAT' statement.

#### NEW QUESTION # 95

You are tasked with designing a solution to load semi-structured data (JSON) from an AWS S3 bucket into a Snowflake table using Snowpipe and the REST API. The data in S3 is constantly being updated, and you need to ensure that only new or modified files are loaded into Snowflake. Which of the following steps are essential for implementing an efficient and cost-effective solution?

- A. Configure an S3 event notification to trigger a REST API call to the Snowpipe endpoint whenever a new or modified file is added to the S3 bucket. The API call should include the file name in the request.
- B. Configure Snowpipe to automatically detect new files in the S3 bucket using event notifications, but manually refresh the pipe using SYSTEM \$PIPE STATUS periodically to ensure that all files are processed.
- C. Create a Snowflake external function that polls the S3 bucket every minute, checks for new files using the LIST command, and then calls the Snowpipe REST API endpoint for each new file.
- D. Configure auto-ingest using SQS queue and SNOWPIPE object. No need to manually call the REST API endpoint for data loading.
- E. Use the 'VALIDATION MODES' copy option with 'RETURN\_ALL RESULTS = TRUE' to validate all data being loaded into the Snowflake table.

**Answer: A,D**

Explanation:

Options A and E are the most efficient and cost-effective solutions. Option A utilizes S3 event notifications to trigger Snowpipe, loading only new files using REST API, and avoids unnecessary polling. Option E uses Snowflake's Auto Ingest feature. Auto ingest eliminates the need for manual Snowpipe calls through REST API and reduces latency. Option B involves inefficient polling. Option C involves unnecessary manual refreshing of the pipe. Option D focuses on data validation during the copy process but doesn't address the core requirement of efficient file detection and triggering.

#### NEW QUESTION # 96

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