

# **DEA-C02 Relevant Questions Exam 100% Pass | Snowflake DEA-C02: SnowPro Advanced: Data Engineer (DEA-C02)**



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**>> DEA-C02 Relevant Questions <<**

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

## (Q165-Q170):

### NEW QUESTION # 165

You have a Snowflake table, 'raw\_data', which contains a column 'data url' storing URLs pointing to CSV files with varying schemas. Each CSV file represents sales data, but the column names and data types can differ. You need to create a process to automatically discover the schema of each CSV file, load the data into Snowflake, and standardize the column names to 'order id', 'product id', 'quantity', and 'price'. Which of the following approaches best addresses this requirement, considering scalability and minimal manual intervention?

- A. Use Snowpipe with auto-ingest to continuously load the CSV files into a VARIANT column in a staging table. Create a series of views on top of the staging table, each view attempting to extract data based on different potential schema variations. Union all the views together to create a single consolidated view.
- B. Create a Snowflake external table that points to the external stage. Define a single file format to be used by external table. Define a pipe that uses 'COPY INTO' to ingest data into external table from the files found at the file URLs.
- C. Leverage a combination of Snowflake Scripting and External functions: create external function that infer the schema of the CSV, create temporary table based on identified schema, fetch the CSV data using SYSTEM\$URL GET using snowflake scripting, copy the data into the temporary table, transform the data into required structure, ingest into target table and finally drop the temporary table
- D. Create a stored procedure that iterates through each URL in 'raw\_data', downloads the CSV file using 'SYSTEM\$URL\_GET', parses the CSV header to determine the column names, manually maps the discovered column names to the standardized names, creates a temporary table with the discovered schema, loads the data into the temporary table, transforms the data to use the standardized column names, and then inserts the transformed data into a final target table. Drop the temporary table after successful insertion.
- E. Create a Python-based external function that downloads the CSV file from the URL using a library like 'pandas', infers the schema using 'pandas.read\_csv', maps the discovered column names to the standardized names, and returns the data as a JSON string. Then, create a Snowflake table with a VARIANT column, call the external function for each URL, and load the returned JSON data into the table. Create a view on top of it.

Answer: C,E

Explanation:

Option C is the most suitable approach. It leverages the power of Python and the 'pandas' library within an external function to handle the complexities of schema discovery and standardization. The external function isolates the data transformation logic, making the Snowflake SQL code cleaner. Option E is also valid as it encapsulates the schema discovery and dynamic table creation in Snowflake Scripting. Options A is error prone and not scalable. Option B uses 'VARIANT column, but requires creation of a lot of views. Option D is incorrect since External Tables do not support data coming from URLs but rather from external stages.

### NEW QUESTION # 166

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

Answer: B

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 # 167

You are tasked with loading a large CSV file (1 T B) into Snowflake. The file contains data for the past 5 years, partitioned by year in the filename (e.g., 'data 2019.csv', 'data 2020.csv', etc.). You need to minimize data loading time and ensure data quality. You have a Snowflake virtual warehouse 'XSMALL' and a stage 'my\_stage'. Which of the following strategies would be MOST effective?

- A. Increase the virtual warehouse size to 'LARGE', use a single 'COPY' command to load all files with the `ERROR = ABORT STATEMENT` option. Create a file format with `'SKIP HEADER = 1'` and `'TRIM SPACE = TRUE'`.
- **B. Increase the virtual warehouse size to 'LARGE', use a single 'COPY' command to load all files with the `ERROR = CONTINUE` option. Implement data quality checks post-load using SQL queries.**
- C. Use Snowpipe with auto-ingest enabled. Ensure your cloud storage event notifications are properly configured. Create a file format with `'SKIP HEADER = 1'` and `'TRIM SPACE = TRUE'` Leave the warehouse as 'XSMALL' to control costs.
- D. Create multiple named file formats each with a unique 'SKIP HEADER' value matching the number of header rows in each file. Load using a single 'COPY' command referencing each file format specifically.
- E. Load each file individually using a separate 'COPY' command with `'VALIDATION MODE = RETURN ERRORS'` to check for data quality issues before loading the next file. Use the 'XSMALL' warehouse for all loads.

**Answer: B**

Explanation:

Option B is the most effective. Increasing the warehouse size to 'LARGE' allows for parallel processing and faster loading. `ERROR = CONTINUE` ensures that the load process doesn't halt on minor errors, and post-load data quality checks are more efficient. A allows validation during load which slows down the process significantly. C will halt the entire process upon encountering an error. D is not suitable because it will be throttled by the XSMALL warehouse, which is not good for initial data loading. E isn't realistic as files should have a standard header

#### NEW QUESTION # 168

You are tasked with creating a resilient data ingestion pipeline using Snowpipe and external tables on AWS S3. The data consists of JSON files, some of which may occasionally contain invalid JSON structures (e.g., missing closing brackets, incorrect data types). You want to ensure that even if some files are corrupted, the valid data is still ingested into your target Snowflake table, and the corrupted files are logged for later investigation. Which of the following steps would BEST achieve this?

- A. Set the `'ON ERROR'` option to `'ABORT STATEMENT'` in the Snowpipe definition. This will stop the entire Snowpipe process when a JSON error is detected, allowing you to manually investigate and fix the corrupted files before restarting the pipeline.
- B. Configure the external table definition with `'VALIDATION MODE = RETURN ERRORS'` and then create a view on top of the external table that filters out rows where the `'METADATA$FILE_ROW_NUMBER'` column contains errors.
- **C. Configure Snowpipe to use the `'ON ERROR = SKIP FILE'` copy option and then create a separate task to query the `'VALIDATION MODE'` metadata column in the external table to identify and log the corrupted files.**
- D. Create a custom error handler using a Snowflake stored procedure that catches the `'JSON_PARSER_ERROR'` exception and logs the filename to a separate error table. Use the `ERROR = 'CONTINUE'` copy option in the Snowpipe definition.
- E. Use Snowflake's `=> 'JSON', job_id =>` function against the external stage before ingesting data with Snowpipe to pre-validate files. Then ingest only validated files to your target table

**Answer: C**

Explanation:

Configuring `ERROR = 'SKIP FILE'` will ensure that Snowpipe skips any file containing errors and continues processing other valid files. Using the `'VALIDATION MODE'` metadata column in the external table allows you to identify which files were skipped due to errors. While custom error handlers could be used, using Snowpipe built-in feature with metadata column is more simpler and effective for the task. `Validate` function needs a `job_id` and it is not commonly used for external stages. `'ON ERROR = 'ABORT STATEMENT'` will cause pipeline to stop and hence is less preferable.

### NEW QUESTION # 169

You are using Snowpark to perform a complex join operation between two large tables: 'ORDERS (1 OGB) and 'CUSTOMER (50GB). The join is performed on 'ORDERS.CUSTOMER ID = CUSTOMER.ID. The query is running slower than expected. You have already confirmed that the warehouse size is adequate. Which of the following strategies, applied in combination, would most likely improve the join performance within a Snowpark context?

- A. Analyze the query profile in Snowflake's web UI to identify the specific bottleneck (e.g., excessive data spilling, high CPU utilization) and address it directly.
- B. Use Snowpark's 'hint function to force a broadcast join, assuming the 'CUSTOMER table can fit into memory on the worker nodes.
- C. Ensure both tables are clustered on the join keys 'ORDERS.CUSTOMER\_ID' and 'CUSTOMER.ID'.
- D. Increase the 'AUTO RESIZE' setting on the warehouse to automatically scale up the warehouse size when the load increases.
- E. Use 'session.add\_import to add external JAR dependencies. This would enable use of external libraries and improve performance.

**Answer: A,C**

Explanation:

Options A and D are the most effective in combination. Clustering both tables on the join keys allows Snowflake to efficiently locate and join related rows, drastically reducing the amount of data that needs to be scanned. Analyzing the query profile (D) allows you to pinpoint the exact bottleneck. Broadcasting the customer table might help if it's small enough (B), but it's risky without proper analysis. Auto-resizing (C) might help but is not a targeted solution and can lead to higher costs. Importing JARs (E) is unrelated to core join performance optimization unless custom join logic is needed which it isn't in this case.

### NEW QUESTION # 170

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