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

# (Q118-Q123):

**NEW QUESTION # 118**
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. 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.
- 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. 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.
- E. 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.

**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 headen

**NEW QUESTION # 119**
You have a Snowpark DataFrame 'df_products' with columns 'product id', 'category', and 'price'. You need to perform the following transformations in a single, optimized query using Snowpark Python: 1. Filter for products in the 'Electronics' or 'Clothing' categories. 2. Group the filtered data by category. 3. Calculate the average price for each category. 4. Rename the aggregated column to 'average_price'. Which of the following code snippets demonstrates the most efficient way to achieve this?

```
df_products.filter((df_products['category'] == 'Electronics') | (df_products['category'] == 'Clothing')).groupBy('category').agg(avg(df_products['price']).alias('average_price')).show()

from snowflake.snowpark.functions import col, avg df_products.filter(col('category').isin(['Electronics', 'Clothing'])).groupBy(col('category')).agg(avg(col('price')).as_('average_price')).show()

df_products.where(df_products.category.isin(['Electronics', 'Clothing'])).groupBy(df_products.category).agg(mean(df_products.price).name('average_price')).show()

from snowflake.snowpark.functions import col, avg df_products.filter(col('category').isin(['Electronics', 'Clothing'])).groupBy('category').agg(avg('price').alias('average_price')).show()

from snowflake.snowpark.functions import col, avg df_products.where(col('category').isin(['Electronics', 'Clothing'])).groupBy('category').agg(avg('price').alias('average_price')).to_pandas()
```

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

**Answer: B**

Explanation:
Option B is the most efficient and correct. It uses 'col()' from 'snowflake.snowpark.functions' to properly reference the 'category' and 'price' columns, uses 'isin()' for a more concise and efficient filtering of multiple category values, groups by the category using and calculates the average price with 'avg(col('price')).as_('average_price')'. Option A, C, and D are syntactically incorrect or less efficient ways to accomplish the same task within Snowpark. Option E is incorrect because it utilizes 'to_pandas()' which returns the

result as a Pandas DataFrame rather than a Snowpark DataFrame, failing to adhere to the Snowpark environment. While Option D is very similar, it lacks the proper syntax for specifying column references with 'col('category')' in the groupBy and 'col('price')' in the avg function.

**NEW QUESTION # 120**
Your company utilizes Snowflake Streams and Tasks for continuous data ingestion and transformation. A critical task, 'TRANSFORM DATA', consumes data from a stream 'RAW DATA STREAW on table 'RAW DATA' and loads it into a reporting table 'REPORTING TABLE. You observe that 'TRANSFORM DATA is failing intermittently with a 'Stream is stale' error. What steps can you take to diagnose and resolve this issue? Choose all that apply.

- A. Increase the parameter at the database level to ensure Time Travel data is available for a longer period.
- B. Drop and recreate the stream and task to reset their states.
- C. Ensure that the ' TRANSFORM DATA' task is consuming the stream data frequently enough to prevent the stream from becoming stale.
- D. Use the "AT' or 'BEFORE clause when querying the stream to explicitly specify a point in time to consume data from.
- E. Modify the task definition to use the 'WHEN condition to prevent execution when the stream is empty.

**Answer: A,C**

Explanation:
Option A is correct: Increasing will ensure that Time Travel has sufficient history, preventing the stream from becoming stale if the task is delayed. Option C is correct: Ensuring frequent consumption of the stream prevents it from exceeding the data retention period. Option B may prevent the task from running, but doesn't address the root cause of the staleness, option D will fix the problem. Option E is a drastic measure and should only be considered as a last resort.

**NEW QUESTION # 121**
You are using Snowpark Python to perform a complex data transformation involving multiple tables and several intermediate dataframes. During the transformation, an error occurs within one of the Snowpark functions, causing the entire process to halt. To ensure data consistency, you need to implement transaction management. Which of the following Snowpark DataFrameWriter options or session configurations would be MOST appropriate for rolling back the entire transformation in case of an error during the write operation to the final target table?

- A. Use and manually track intermediate dataframes to delete them in case of failure.
- B. Set the session parameter to 'TRUE and wrap the entire transformation within a 'try...except block, explicitly calling in the 'excepts block.
- C. Use True)' to automatically rollback the write operation if an error occurs during the write process.
- D. Set the session parameter to 'TRUE to ensure all DDL operations are atomic and can be rolled back.
- E. Wrap the entire transformation in a stored procedure and call 'SYSTEM$QUERY within the stored procedure's exception handler.

**Answer: B**

Explanation:
Setting 'TRANSACTION_ABORT ON ERROR to 'TRUE ensures that any error will abort the transaction. Wrapping the code in a 'try...except' block allows you to catch the exception and explicitly call 'session.rollback()' to undo any changes made within the transaction. Option A is relevant to DDL operations, not general data transformations. Option B involves manual tracking, which is error-prone. Option D is not a valid Snowpark DataFrameWriter option. Option E, while potentially useful for cancelling queries, does not directly manage transaction rollback from within the Snowpark session.

**NEW QUESTION # 122**
You have configured a Kafka Connector to load JSON data into a Snowflake table named 'ORDERS. The JSON data contains nested structures. However, Snowflake is only receiving the top- level fields, and the nested fields are being ignored. Which configuration option within the Kafka Connector needs to be adjusted to correctly flatten and load the nested JSON data into Snowflake?

- A. Set the 'value.converter.schemas.enable' property to 'true'.
- B. Use the 'transforms' configuration with the 'org.apache.kafka.connect.transforms.ExtractField$Value' transformation to

extract specific fields.

- C. Enable the 'snowflake.ingest.stage' property and set it to a Snowflake internal stage.
- D. Apply the 'org.apache.kafka.connect.transforms.Flatten' transformation to the 'transforms' configuration.
- E. Configure the 'snowflake.data.field.name' property to specify the column in the Snowflake table where the entire JSON should be loaded as a VARIANT.

**Answer: D**

Explanation:
The correct answer is E. The 'org.apache.kafka.connect.transforms.Flatten' transformation is designed specifically for flattening nested JSON structures within Kafka Connect. By applying this transformation to the 'transforms' configuration of the Kafka Connector, you can instruct the connector to recursively flatten the nested JSON data before loading it into Snowflake, ensuring that all fields are accessible. Option A utilizes stages and is unrelated to nested structures. Option B enables schemas, which is useful for Avro, but does not inherently flatten nested structures. Option C allows for extraction but would require multiple transformations for each field and would be cumbersome. Option D will only load the full JSON but would not flatten it, failing the requirements.

**NEW QUESTION # 123**
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