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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q313-Q318):

NEW QUESTION # 313
A Snowflake Data Engineer is tasked with identifying all downstream dependencies of a view named 'CUSTOMER SUMMARY. This view is used by multiple dashboards and reports. They want to use SQL to efficiently find all tables and views that directly depend on 'CUSTOMER SUMMARY. Which of the following SQL queries against the ACCOUNT USAGE schema is the MOST efficient and accurate way to achieve this?

```
SELECT DISTINCT DIRECT_REFERENCED_OBJECT_NAME FROM SNOWFLAKE.ACCOUNT_USAGE.ACCESS_HISTORY WHERE QUERY_TEXT LIKE '%CUSTOMER_SUMMARY%' AND DIRECT_REFERENCED_OBJECT_DOMAIN = 'Table';
SELECT DISTINCT OBJECT_NAME FROM SNOWFLAKE.ACCOUNT_USAGE.OBJECT_DEPENDENCIES WHERE REFERENCED_OBJECT_NAME = 'CUSTOMER_SUMMARY' AND REFERENCED_OBJECT_TYPE = 'VIEW';
SELECT DISTINCT QUERY_ID FROM SNOWFLAKE.ACCOUNT_USAGE.QUERY_HISTORY WHERE QUERY_TEXT LIKE '%CUSTOMER_SUMMARY%';
SELECT DISTINCT DIRECT_REFERENCED_OBJECT_NAME FROM SNOWFLAKE.ACCOUNT_USAGE.ACCESS_HISTORY WHERE BASE_OBJECT_NAME = 'CUSTOMER_SUMMARY' AND BASE_OBJECT_DOMAIN = 'View';
SELECT DISTINCT OBJECT_NAME FROM SNOWFLAKE.ACCOUNT_USAGE.OBJECT_DEPENDENCIES WHERE REFERENCED_OBJECT_ID = (SELECT OBJECT_ID FROM SNOWFLAKE.ACCOUNT_USAGE.OBJECTS WHERE OBJECT_NAME = 'CUSTOMER_SUMMARY' AND OBJECT_TYPE = 'VIEW');
```

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

Answer: D

Explanation:
The view in the ACCOUNT_USAGE schema is specifically designed to track object dependencies. option B directly queries this view using the and to find objects that depend on the 'CUSTOMER_SUMMARY view. Options A and C rely on parsing 'QUERY_TEXT , which is less reliable and can lead to false positives or misses. Option D looks for base object which has the opposite meaning of finding dependancies on a target view. Option E finds the OBJECT_ID for the view and is unnecessary and introduces an extra step.

NEW QUESTION # 314
A data engineer notices that a daily ETL job loading data into a Snowflake table 'TRANSACTIONS' is consistently taking longer than expected. The table is append-only and partitioned by 'TRANSACTION DATE. The engineer observes high 'Remote Spill' during the load process and suspect that micro-partition pruning isn't working effectively. Which of the following approaches would BEST address the performance issue, assuming you have already considered increasing warehouse size?

- A. Enable automatic clustering on the 'TRANSACTION_DATE column of the 'TRANSACTIONS table.
- B. Examine the data load process to ensure the data is loaded in 'TRANSACTION_DATE order. If not, sort the data by 'TRANSACTION_DATE before loading.
- C. Implement data skipping by creating a masking policy on the 'TRANSACTION_DATE column.
- D. Re-create the 'TRANSACTIONS' table with a larger virtual warehouse and re-load the entire dataset.
- E. Partition the data in the source system by 'TRANSACTION DATE' and load data in parallel corresponding to each partition.

Answer: A,B

Explanation:
Options A and E are the most appropriate. Automatic clustering (A) will reorganize the data to improve micro-partition pruning on 'TRANSACTION DATE', reducing the amount of data scanned and therefore reducing spillover. Loading the data in 'TRANSACTION DATE' order (E) ensures that data is naturally clustered as it is loaded, minimizing fragmentation and maximizing micro-partition pruning efficiency. Re-creating the table (B) is an extreme and unnecessary measure. Masking policies (C) are for data security, not performance optimization. Partitioning in the source system (D) might improve the data extraction process but won't directly address the micro-partition pruning issue within Snowflake if data isn't loaded in a sorted manner.

NEW QUESTION # 315
You have a directory table 'my_directory_table' pointing to a stage containing CSV files with headers. You need to query the directory table to find all files modified in the last 24 hours and load those CSV files using COPY INTO into a target table Assume the target table exists and has appropriate schema'. Which of the following SQL statements, or set of statements, will accomplish this efficiently? Note: Consider efficient file loading.

- A.
```
CREATE TEMPORARY TABLE files_to_load AS SELECT relative_path FROM my_directory_table WHERE last_modified >= CURRENT_TIMESTAMP() - INTERVAL '1 day';
COPY INTO my_target_table FROM @my_stage/path_to_csv FILES = (SELECT relative_path FROM files_to_load);
```
- B.

```
SELECT $1 FROM @my_stage/path_to_csv WHERE metadata$filename IN (SELECT relative_path FROM my_directory_table WHERE last_modified >=
CURRENT_TIMESTAMP() - INTERVAL '1 day');
```

- C.

```
COPY INTO my_target_table FROM @my_stage/path_to_csv FILE_FORMAT = (TYPE = CSV, SKIP_HEADER = 1) FILES = (SELECT relative_path FROM
my_directory_table WHERE last_modified >= CURRENT_TIMESTAMP() - INTERVAL '1 day');
```

- D.

```
COPY INTO my_target_table FROM @my_stage/path_to_csv FILES = (SELECT relative_path FROM my_directory_table WHERE last_modified >=
CURRENT_TIMESTAMP() - INTERVAL '1 day');
```

- E.

```
COPY INTO my_target_table FROM @my_stage/path_to_csv FILE_FORMAT = (TYPE = CSV, SKIP_HEADER = 1) PATTERN = '. ' || (SELECT relative_path FROM
my_directory_table WHERE last_modified >= CURRENT_TIMESTAMP() - INTERVAL '1 day') || '. ';
```

Answer: C

Explanation:
Option E is the most efficient way to load the files using 'COPY INTO' and the 'FILES' parameter. The 'FILES' parameter accepts a list of filenames to load. Option D is incorrect because the 'PATTERN' parameter expects a regular expression, not a concatenation of filenames. Options A, B, and C require more complex processing. Using subquery expression in the copy command is the best approach for filtering files based on directory table data.

NEW QUESTION # 316
You have an external table in Snowflake pointing to data in Azure Blob Storage. The data consists of customer transactions, and new files are added to the Blob Storage daily You want to ensure that Snowflake automatically picks up these new files and reflects them in the external table without manual intervention. However, you are observing delays in Snowflake detecting the new files. What are the potential reasons for this delay and how can you troubleshoot them? (Choose two)

- A. The external table's 'AUTO_REFRESH' parameter is set to 'FALSE', which disables automatic metadata refresh.
- B. The storage integration associated with the external table does not have sufficient permissions to access the Blob Storage.
- C. The file format used for the external table is incompatible with the data files in Blob Storage.
- D. Snowflake's internal cache is not properly configured; increasing the cache size will solve the problem.
- E. The Azure Event Grid notification integration is not properly configured to notify Snowflake about new file arrivals in the Blob Storage.

Answer: A,E

Explanation:
The two primary reasons for delays in Snowflake detecting new files in an external table are: 1) Incorrect configuration of the cloud provider's notification service (Azure Event Grid in this case). Snowflake relies on these notifications to be informed about new file arrivals. If the integration isn't set up correctly, Snowflake won't know when to refresh the metadata. 2) The parameter must be set to ' TRUE' for automatic metadata refresh to occur. If it's set to FALSE , manual refreshes are required using 'ALTER EXTERNAL TABLE ... REFRESH''. Options D and E, although possible issues, won't directly cause a delay in detecting new files, but rather cause issues accessing files after detection. Option C is irrelevant as Snowflake's caching mechanism does not directly impact external table metadata refresh.

NEW QUESTION # 317
You are designing a data pipeline using Snowpipe to ingest data from multiple S3 buckets into a single Snowflake table. Each S3 bucket represents a different data source and contains files in JSON format. You want to use Snowpipe's auto-ingest feature and a single Snowpipe object for all buckets to simplify management and reduce overhead. However, each data source has a different JSON schem a. How can you best achieve this goal while ensuring data is loaded correctly and efficiently into the target table?

- A. Use a single Snowpipe and leverage Snowflake's ability to call a user-defined function (UDF) within the 'COPY INTO' statement to transform the data based on the S3 bucket path. The UDF can parse the bucket path and apply the appropriate JSON schema transformation.
- B. Create a separate Snowpipe for each S3 bucket. Although this creates more Snowpipe objects, it allows you to specify a different FILE FORMAT and transformation logic for each data source.
- C. Since Snowpipe cannot handle multiple schemas with a single pipe, pre-process the data in S3 using an AWS Lambda function to transform all files into a common schema before they are ingested by the Snowpipe.
- D. Use a single Snowpipe with a generic FILE FORMAT that can handle all possible JSON schemas. Implement a VIEW on top of the target table to transform and restructure the data based on the source bucket.
- E. Use a single Snowpipe and leverage Snowflake's VARIANT data type to store the raw JSON data. Create separate

external tables, each pointing to a specific S3 bucket, and use SQL queries to transform and load the data into the target table.

Answer: A

Explanation:
The most efficient and manageable approach is to use a single Snowpipe with a UDF to handle schema variations. The UDF can inspect the S3 bucket path (available as metadata within the 'COPY INTO' statement) and apply the correct transformation logic for each data source. Creating separate Snowpipes (A) adds unnecessary overhead. Using a generic 'FILE FORMAT and a VIEW (B) might work for simple transformations, but it becomes complex with significant schema differences. Using VARIANT and external tables (C) defeats the purpose of Snowpipe. Pre-processing in S3 (E) adds complexity outside of Snowflake. UDF provides schema flexibility during ingest and leverages Snowpipe's capabilities directly.

NEW QUESTION # 318
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