

Quiz Fantastic Snowflake - Best DSA-C03 Practice



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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

A data scientist is building a churn prediction model using Snowflake data'. They want to load a large dataset (50 million rows) from a Snowflake table 'customer_data' into a Pandas DataFrame for feature engineering. They are using the Snowflake Python connector. Given the code snippet below and considering performance and memory usage, which approach would be the most efficient for loading the data into the Pandas DataFrame? Assume you have a properly configured connection and cursor 'cur'. Furthermore, assume that the 'customer id' column is the primary key and uniquely identifies each customer. You are also aware that network bandwidth limitations exist within your environment. ``python import snowflake.connector import pandas as pd # Assume conn and cur are already initialized # conn = snowflake.connector.connect(...) # cur = conn.cursor() query = "SELECT FROM customer data"``

- A. `python import snowflake.connector import pandas as pd import pyarrow import pyarrow.parquet # Enable Arrow result format conn.cursor().execute("ALTER SESSION SET PYTHON USE ARROW RESULT FORMAT=TRUE") cur.execute(query) df=`
- B. `python cur.execute(query) df= pd.DataFrame(cur.fetchall(), columns=[col[0] for col in cur.description])`
- C. `python cur.execute(query) results = cur.fetchmany(size=1000000) df_list = [] while results: df_list.append(pd.DataFrame(results, for col in cur.description))) results = cur.fetchmany(size=1000000) df= pd.concat(df_list, ignore_index=True)`
- D. `python with conn.cursor(snowflake.connector.DictCursor) as cur: cur.execute(query) df= pd.DataFrame(cur.fetchall())`
- E. `python cur.execute(query) df= pd.read_sql(query, conn)`

Answer: A

Explanation:

Option E, utilizing Arrow result format and `pd.read_sql`, is the most efficient for large datasets. Snowflake's Arrow integration leverages columnar data transfer, significantly speeding up data retrieval compared to row-based methods (`fetchall`, `fetchmany`). Also its optimized for Pandas. Options A, B, C, and D retrieve data row by row (or in chunks) and construct the DataFrame iteratively, which is slower and consumes more memory. The DictCursor in D, while useful, doesn't fundamentally change the data transfer efficiency compared to using the Arrow format.

NEW QUESTION # 60

You are tasked with automating the retraining of a Snowpark ML model based on the performance metrics of the deployed model. You have a table 'MODEL PERFORMANCE' that stores daily metrics like accuracy, precision, and recall. You want to automatically trigger retraining when the accuracy drops below a certain threshold (e.g., 0.8). Which of the following approaches using Snowflake features and Snowpark ML is the MOST robust and cost-effective way to implement this automated retraining pipeline?

- A. Use a Snowflake stream on the 'MODEL_PERFORMANCE' table to detect changes in accuracy, and trigger a Snowpark ML model training function using a PIPE whenever the accuracy drops below the threshold.
- B. Create a Dynamic Table that depends on the 'MODEL_PERFORMANCE' table and materializes when the accuracy is below the threshold. This Dynamic Table refresh triggers a Snowpark ML model training stored procedure. This stored procedure saves the new model with a timestamp and updates a metadata table with the model's details.
- C. Create a Snowflake task that runs every hour, queries the 'MODEL_PERFORMANCE' table, and triggers a Snowpark ML model training script if the accuracy threshold is breached. The training script will overwrite the existing model.
- D. Implement an external service (e.g., AWS Lambda or Azure Function) that periodically queries the 'MODEL_PERFORMANCE' table using the Snowflake Connector and triggers a Snowpark ML model training script via the Snowflake API.
- E. Implement a Snowpark ML model training script that automatically retrains the model every day, regardless of the performance metrics. This script will overwrite the previous model.

Answer: B

Explanation:

Option D is the most robust and cost-effective solution. Using a Dynamic Table ensures that retraining is triggered only when necessary (when accuracy drops below the threshold). The Dynamic Table's materialization event then kicks off a Snowpark ML model training stored procedure that automatically retrains the model. This stored procedure saves the new model with a timestamp and updates a metadata table, allowing for version control. This eliminates unnecessary retraining runs (cost savings) and provides full lineage of models. Option A can be wasteful as it retrains even if it's not required. Option B using Stream & Pipes doesn't trigger model re-training after data accuracy breach. Option C doesn't account for model performance leading to unnecessary retrains. Option E introduces external dependencies and complexity that are best avoided within the Snowflake ecosystem.

NEW QUESTION # 61

Which of the following statements are TRUE regarding the 'Data Understanding' and 'Data Preparation' steps within the Machine Learning lifecycle, specifically concerning handling data directly within Snowflake for a large, complex dataset?

- A. Data Preparation should always be performed outside of Snowflake using external tools to avoid impacting Snowflake performance.
- B. Data Preparation in Snowflake can involve feature engineering using SQL functions, creating aggregated features with window functions, and handling missing values using 'NVL' or 'COALESCE'. Furthermore, Snowpark Python provides richer data manipulation using DataFrame APIs directly on Snowflake data.

- C. Data Understanding primarily involves identifying potential data quality issues like missing values, outliers, and inconsistencies, and Snowflake features like 'QUALIFY' and 'APPROX TOP' can aid in this process.
- D. The 'Data Understanding' step is unnecessary when working with data stored in Snowflake because Snowflake automatically validates and cleans the data during ingestion.
- E. During Data Preparation, you should always prioritize creating a single, wide table containing all possible features to simplify the modeling process.

Answer: B,C

Explanation:

Data Understanding is crucial for identifying data quality issues using tools such as 'QUALIFY' and 'APPROX TOP'. Data Preparation within Snowflake using SQL and Snowpark Python enables efficient feature engineering and data cleaning. Option C is incorrect because Snowflake doesn't automatically validate and clean your data. Option D is incorrect as leveraging Snowflake's compute for data preparation alongside Snowpark can drastically increase speed. Option E is not desirable, feature selection is important, and feature stores help in organization.

NEW QUESTION # 62

A marketing analyst is building a propensity model to predict customer response to a new product launch. The dataset contains a 'City' column with a large number of unique city names. Applying one-hot encoding to this feature would result in a very high-dimensional dataset, potentially leading to the curse of dimensionality. To mitigate this, the analyst decides to combine Label Encoding followed by binarization techniques. Which of the following statements are TRUE regarding the benefits and challenges of this combined approach in Snowflake compared to simply label encoding?

- A. Binarizing a label encoded column using a simple threshold (e.g., creating a 'high_city_id' flag) addresses the curse of dimensionality by reducing the number of features to one, but it loses significant information about the individual cities.
- B. While label encoding itself adds an ordinal relationship, applying binarization techniques like binary encoding (converting the label to binary representation and splitting into multiple columns) after label encoding will remove the arbitrary ordinal relationship.
- C. Binarization following label encoding may enhance model performance if a specific split based on a defined threshold is meaningful for the target variable (e.g., distinguishing between cities above/below a certain average income level related to marketing success).
- D. Label encoding followed by binarization will reduce the memory required to store the 'City' feature compared to one-hot encoding, and Snowflake's columnar storage optimizes storage for integer data types used in label encoding.
- E. Label encoding introduces an arbitrary ordinal relationship between the cities, which may not be appropriate. Binarization alone cannot remove this artifact.

Answer: A,C,D,E

Explanation:

Option A is true because label encoding converts strings into integers, which are more memory-efficient than storing numerous one-hot encoded columns. Snowflake's columnar storage further optimizes integer storage. Option B is also true; label encoding inherently creates an ordinal relationship that might not be valid for nominal features like city names. Option C is incorrect; simple binarization (e.g., > threshold) of label encoded data doesn't remove the arbitrary ordinal relationship; more complex binarization techniques would be needed. Option D is accurate; binarization reduces dimensionality but sacrifices granularity, leading to information loss. Option E is correct because carefully chosen thresholds might correlate with the target variable and improve predictive power.

NEW QUESTION # 63

You are working with a dataset containing customer reviews for various products. The dataset includes a 'REVIEW TEXT' column with the raw review text and a 'PRODUCT ID' column. You want to perform sentiment analysis on the reviews and create a new feature called 'SENTIMENT SCORE' for each product. You plan to use a UDF to perform the sentiment analysis. Which of the following steps and SQL code snippets are essential for implementing this feature engineering task in Snowflake, ensuring optimal performance and scalability? Select all that apply:

- A. Apply the sentiment analysis UDF to the 'REVIEW TEXT' column within a 'SELECT' statement, grouping by 'PRODUCT ID' and calculating the average 'SENTIMENT_SCORE' using
- B. Cache the results of the sentiment analysis UDF in a temporary table to avoid recomputing the scores for the same reviews in subsequent queries. Use 'CREATE TEMPORARY TABLE' to create a temporary table.
- C. Create a Python UDF that takes the 'REVIEW_TEXT' as input and returns a sentiment score (e.g., between -1 and 1).

Then, use 'CREATE OR REPLACE FUNCTION' statement to register the UDF.

- D. Use the 'SNOWFLAKE.ML' package to train a sentiment analysis model directly within Snowflake, eliminating the need for a separate UDF.
- E. Ensure the UDF is vectorized to process batches of reviews at once, improving performance. This can be achieved using decorator on top of the python function.

Answer: A,C,E

Explanation:

Options A, C and E are correct. Option A is essential for performing sentiment analysis. Option C correctly integrates the UDF into a SQL query to generate the 'SENTIMENT SCORE'. Option E is crucial for performance since vectorized UDFs are much faster and more efficient for large datasets. Option B is not a correct usage pattern for sentiment analysis as Snowflake ML is in early stages to cater this. Option D, while seeming logical is not ideal for the task because this review data changes continuously and the model would be outdated, also temporary table is for the scope of session it is created.

NEW QUESTION # 64

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