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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q195-Q200):

NEW QUESTION # 195
A retail company is using Snowflake to store transaction data'. They want to create a derived feature called 'customer _ recency' to represent the number of days since a customer's last purchase. The transactions table 'TRANSACTIONS has columns 'customer_id' (INT) and 'transaction_date' (DATE). Which of the following SQL queries is the MOST efficient and scalable way to derive this feature as a materialized view in Snowflake?

○ ```sql CREATE MATERIALIZED VIEW customer_recency AS SELECT customer_id, datediff(day, MAX(transaction_date), CURRENT_DATE()) AS customer_recency FROM TRANSACTIONS GROUP BY customer_id; ```

○ ```sql CREATE MATERIALIZED VIEW customer_recency AS SELECT customer_id, DATEDIFF('day', MAX(transaction_date), CURRENT_DATE()) AS customer_recency FROM TRANSACTIONS GROUP BY customer_id; ```

○ ```sql CREATE OR REPLACE MATERIALIZED VIEW customer_recency AS SELECT customer_id, datediff(day, max(transaction_date), current_date()) AS customer_recency FROM TRANSACTIONS GROUP BY customer_id; ```

○ ```sql CREATE MATERIALIZED VIEW customer_recency AS SELECT customer_id, datediff(day, MIN(transaction_date), CURRENT_DATE()) AS customer_recency FROM TRANSACTIONS GROUP BY customer_id; ```

○ ```sql CREATE OR REPLACE MATERIALIZED VIEW customer_recency AS SELECT customer_id, MAX(datediff(day, transaction_date, current_date())) AS customer_recency FROM TRANSACTIONS GROUP BY customer_id; ```

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

Answer: C

Explanation:
Option C is the most efficient because it correctly calculates the number of days since the last transaction using and 'DATEDIFF. The 'OR REPLACE clause ensures that the materialized view can be updated if it already exists. Options A and B are syntactically identical but A is slightly more correct since it considers the MAX. Option D calculates recency from the first transaction, which is incorrect. Option E is similar to option C but less performant since we want datediff on max(transaction_date) and not calculate and take the max over it.

NEW QUESTION # 196
You are working with a dataset of customer transaction logs stored in Snowflake. Due to legal restrictions, you are unable to directly access or analyze the entire dataset. However, you can query aggregate statistics. You need to estimate the standard error of the mean transaction amount using bootstrapping. Knowing that you cannot retrieve the individual transaction amounts directly, which of the following approaches, while technically feasible within Snowflake and its stored procedure capabilities, is the least appropriate and potentially misleading application of bootstrapping?

- A. Attempt to apply the central limit theorem rather than bootstrapping.
- B. Use the available aggregate statistics to create many synthetic datasets, all adhering to the same mean, variance, and total sample size. Then, compute the statistic of interest (mean transaction amount) for each of these synthetic datasets, and use this collection to estimate the standard error. This is a valid approach.
- C. Develop a stored procedure that generates random samples from a normal distribution with the same mean and standard deviation as the aggregated transaction data available to you, then calculates the standard error of the mean from these synthetic resamples.
- D. Construct a stored procedure that uses the available aggregated statistics (e.g., mean, standard deviation, and sample size) to generate bootstrap samples based on an assumed parametric distribution (e.g., gamma or log-normal) fitted to the data, and then estimate the standard error from these resamples.
- E. Even without individual transaction data, bootstrapping is fundamentally impossible in this scenario, as bootstrapping requires resampling from the original data . All given options are therefore equally inappropriate.

Answer: C

Explanation:
Option A is the least appropriate. Generating random samples from a normal distribution with the same mean and standard deviation as the aggregated data, fundamentally violates the principle of bootstrapping. Bootstrapping relies on resampling from the original data to approximate the sampling distribution of a statistic. Creating data from a pre-defined distribution removes the inherent characteristics of the true data generating process and produces potentially very misleading results. Option B, using a parametric distribution, while still based on assumptions, is slightly better than A as it attempts to fit a distribution to the known data characteristics, but still relies on potentially incorrect distribution assumptions. Option C is not correct. Even the most inappropriate usage will give an answer. Option D is a valid approach, but it not Bootstrapping. Option E follows the basic idea of bootstrapping.

NEW QUESTION # 197
You've created a Python UDF in Snowflake that uses the 'numpy' and libraries to perform complex statistical calculations on time-

series data'. The UDF is deployed successfully, but when you execute it on a large dataset, you observe significant performance bottlenecks. Analyzing the execution plan reveals that the UDF is being executed serially for each row of the input data, preventing Snowflake from leveraging its parallel processing capabilities. What strategies can you employ to improve the performance and enable parallel execution of the UDF in Snowflake?

- A. Use the 'snowflake.snowpark' library to create a distributed Pandas DataFrame and perform computations directly within the Snowflake engine in a parallel manner.
- B. Decompose the UDF into smaller, more manageable functions and register each as a separate UDF, hoping Snowflake will parallelize the execution of these smaller UDFs automatically.
- C. Rewrite the UDF using Snowflake's Java UDF functionality instead of Python, as Java is inherently faster for numerical computations.
- D. Modify the UDF to accept a Pandas DataFrame as input instead of individual row values. Ensure your UDF is vectorized to process the entire DataFrame at once.
- E. Increase the Snowflake warehouse size to provide more resources for serial execution.

Answer: A,D

Explanation:
Options B and D are correct. Option B: Vectorizing the UDF by accepting a Pandas DataFrame allows the 'numpy' and 'scipy' operations to be applied efficiently on batches of data, leveraging the underlying parallelism of these libraries and Snowflake's engine. Option D: Using Snowpark's distributed Pandas DataFrame allows computations to be pushed down and executed in parallel within Snowflake. Option A only provides more resources but doesn't address the serial execution. Option C is not always guaranteed to be faster and introduces complexity of learning a new API. Option E doesn't guarantee that the UDFs will run in Parallel and also it increases the complexity of maintance.

NEW QUESTION # 198
You've built a customer churn prediction model in Snowflake, and are using the AUC as your primary performance metric. You notice that your model consistently performs well (AUC > 0.85) on your validation set but significantly worse (AUC < 0.7) in production. What are the possible reasons for this discrepancy? (Select all that apply)

- A. Your model is overfitting to the validation data. This causes to give high performance on validation set but less accurate in the real world.
- B. Your training and validation sets are not representative of the real-world production data due to sampling bias.
- C. The production environment has significantly more missing data compared to the training and validation environments.
- D. The AUC metric is inherently unreliable and should not be used for model evaluation.
- E. There's a temporal bias: the customer behavior patterns have changed since the training data was collected.

Answer: A,B,C,E

Explanation:
A, B, C, and D are all valid reasons for performance degradation in production. Sampling bias (A) means the training/validation data doesn't accurately reflect the production data. Temporal bias (B) arises when customer behavior changes over time. Overfitting (C) leads to good performance on the training/validation set but poor generalization to new data. Missing data (D) can negatively impact the model's ability to make accurate predictions. AUC is a reliable metric, especially when combined with other metrics, so E is incorrect.

NEW QUESTION # 199
You are using Snowflake ML to predict housing prices. You've created a Gradient Boosting Regressor model and want to understand how the 'location' feature (which is categorical, representing different neighborhoods) influences predictions. You generate a Partial Dependence Plot (PDP) for 'location'. The PDP shows significantly different predicted prices for each neighborhood. Which of the following actions would be MOST appropriate to further investigate and improve the model's interpretability and performance?

- A. Generate ICE (Individual Conditional Expectation) plots alongside the PDP to assess the heterogeneity of the relationship between 'location' and predicted price.
- B. Remove the 'location' feature from the model, as categorical features are inherently difficult to interpret.
- C. Replace the 'location' feature with a numerical feature representing the average house price in each neighborhood, calculated from historical data.
- D. Combine the PDP for 'location' with a two-way PDP showing the interaction between 'location' and 'square_footage'.

- E. Use one-hot encoding for the 'location' feature and generate individual PDPs for each one-hot encoded column.

Answer: A,D,E

Explanation:
The correct answers are B, D, and E. B: One-hot encoding allows you to see the individual effect of each neighborhood. D: ICE plots reveal how the relationship between 'location' and predicted price varies for different individual instances, highlighting potential heterogeneity. E: A two-way PDP with 'location' and 'square_footage' helps understand if the effect of location is different for houses of different sizes. Removing 'location' (option A) might decrease performance if it's a relevant feature. Replacing it with average price (option C) introduces potential bias and data leakage if the historical data is used for both training and validation.

NEW QUESTION # 200
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