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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q160-Q165):

NEW QUESTION # 160
You are building a predictive model for customer churn using linear regression in Snowflake. You have identified several features, including 'CUSTOMER AGE', 'MONTHLY SPEND', and 'NUM CALLS'. After performing an initial linear regression, you suspect that the relationship between 'CUSTOMER AGE and churn is not linear and that older customers might churn at a different rate than younger customers. You want to introduce a polynomial feature of ''CUSTOMER AGE (specifically, 'CUSTOMER AGE SQUARED') to your regression model within Snowflake SQL before further analysis with python and Snowpark. How can you

BEST create this new feature in a robust and maintainable way directly within Snowflake?

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

Answer: E

Explanation:
Creating a VIEW (option C) is the BEST approach for several reasons. It doesn't modify the underlying data, which is crucial for data governance and prevents unintended side effects. The feature is calculated on-the-fly whenever the view is queried, ensuring that the feature is always up-to-date if the underlying changes. Options A, D, and E permanently alter the table, potentially leading to data redundancy and requiring manual updates if the column changes. Option B creates a temporary table, which is suitable for short-lived experiments but not ideal for a feature that will be used repeatedly. Using 2) is equivalent to CUSTOMER_AGE CUSTOMER_AGE. Views are efficient because Snowflake's query optimizer can often push down computations into the underlying table. Option C also avoids needing to manage the lifecycle of updated calculated columns.

NEW QUESTION # 161
You've deployed a fraud detection model in Snowflake. The model is implemented as a Python UDF that uses a pre-trained scikit-learn model stored as a stage file. Your goal is to enable near real-time fraud detection on incoming transactions. Due to regulatory requirements, you need to maintain a detailed audit trail of all predictions, including the input features, model version, prediction scores, and any errors encountered during the prediction process. Which of the following approaches are valid and efficient for storing these audit logs and predictions in Snowflake?

- A. Use Snowflake's 'SYSTEM$QUERY LOG' table to extract information about the UDF execution and join it with the transaction data to reconstruct the audit trail.
- B. Log the audit information to an external logging service (e.g., Splunk) using an external function called from within the UDF.
- C. Utilize Snowflake's Streams and Tasks to automatically capture changes to the transaction table and trigger the prediction UDF, storing the audit logs in a separate table with similar structure as described in option A.
- D. Create a dedicated table with columns for transaction ID, input features (as a JSON VARIANT), model version, prediction score, error message (if any), and prediction timestamp. Use a Snowflake Sequence to generate unique log IDs.
- E. Store the audit logs as unstructured text files in an external stage (e.g., AWS S3) and periodically load them into a Snowflake table using COPY INTO command.

Answer: C,D

Explanation:
Options A and C are the most valid and efficient approaches. Option A provides a structured and readily queryable format for the audit logs, making it easy to analyze and report on fraud detection performance. Using a SEQUENCE ensures unique and ordered log IDs. Option C leverages Snowflake's Streams and Tasks to automate the prediction process and audit logging, ensuring that all transactions are processed and logged in near real-time. This is particularly suitable for continuous fraud detection. Option B is less efficient due to the overhead of loading unstructured data and parsing it. It lacks real-time processing capabilities. Option D introduces external dependencies and potential latency. While external logging services can be valuable, storing the audit data natively in Snowflake provides better integration and performance. Option E is not reliable for recreating the full audit trail, as primarily captures query execution metadata and may not contain all the necessary information (e.g., input features, model version). Also SYSTEM$QUERY LOG data availability can be delayed.

NEW QUESTION # 162
You are building a fraud detection model for an e-commerce platform. One of the features is 'purchase_amount', which ranges from $1 to $10,000. The data has a skewed distribution with many small purchases and a few very large ones. You need to normalize this feature for your model, which uses gradient descent. Which normalization technique(s) would be most suitable in Snowflake, considering the data characteristics and the need to handle potential future outliers?

- A. Power Transformer (e.g., Yeo-Johnson) implemented with Snowpark Python:
- B. Min-Max scaling using the following SQL:

- C. Robust scaling using interquartile range (IQR) in a stored procedure with Python:
- D. Unit Vector normalization (L2 Normalization) using SQL:
- E. Z-score standardization using the following SQL:

Answer: A,C

Explanation:
Options C and D are the most suitable. Robust scaling (C) is effective because it uses the IQR, making it less sensitive to outliers compared to Min-Max scaling (A) or Z-score standardization (B). The Snowflake UDF handles potential outliers by not being dramatically influenced by them. Power Transformer (D) addresses the skewness of the data, also mitigating the impact of outliers. Min-Max scaling (A) is highly sensitive to outliers, making it a poor choice. Z-score standardization (B) can be affected by extreme values in skewed distributions. Unit Vector normalization (E) changes the meaning of the purchase amounts by making the total magnitude 1 , which isn't desirable here.

NEW QUESTION # 163
You've built a regression model in Snowflake to predict customer churn. You've calculated the R-squared score on your test data and found it to be 0.65. However, after deploying the model to production and monitoring its performance over several weeks, you notice the model's predictive accuracy has significantly decreased. Which of the following factors could contribute to this performance degradation?
Select all that apply.

- A. Increased data volume: The production data volume has increased significantly, causing resource contention and impacting model performance in Snowflake.
- B. Overfitting: The model learned the training data too well, capturing noise and specific patterns that do not generalize to new data.
- C. Feature engineering inconsistencies: The feature engineering steps applied to the production data are different from those applied during training.
- D. Data drift: The distribution of the input features in the production data has changed significantly compared to the training data.
- E. Bias Variance trade off : Model is having high bias.

Answer: B,C,D

Explanation:
Options A, B, and C are all potential causes of performance degradation in a deployed regression model. Data drift (A) means the characteristics of the input data have changed, invalidating the model's assumptions. Overfitting (B) causes the model to perform poorly on unseen data. Feature engineering inconsistencies (C) introduce errors because the model expects features transformed in a specific way. Option D is less likely to be a direct cause of predictive degradation. Increased data volume might impact query performance or resource utilization but would not directly impact the model accuracy, if infrastructure has allocated adequetly. Option E would affect performance both during training and testing. Since R-squared is already low so model is already suffering from high bias

NEW QUESTION # 164
You're working on a fraud detection system for an e-commerce platform. You have a table 'TRANSACTIONS with a 'TRANSACTION AMOUNT column. You want to bin the transaction amounts into several risk categories ('Low', 'Medium', 'High', 'Very High') using explicit boundaries. You want the bins to be inclusive of the lower boundary and exclusive of the upper boundary (e.g., [0, 100), [100, 500), etc.). Which of the following SQL statements using the 'WIDTH BUCKET function correctly bins the transaction amounts into these categories, assuming these boundaries: 0, 100, 500, 1000, and infinity, and assigns appropriate labels?

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

Answer: E

Explanation:
Option E correctly uses with an array of bin boundaries (0, 100, 500, 1000). 'WIDTH_BUCKET returns the bucket number the value falls into. The CASE statement then assigns labels based on the bucket number. Other options either do not correctly use 'WIDTH_BUCKET with an array, use hardcoded values, or do not handle the 'Very High' category properly. Note that WIDTH BUCKET(value, array) is a Snowflake extension and is the preferred, and potentially most efficient, method for binning into distinct intervals with explicit boundaries. Option C is incorrect as it doesn't implement width_bucket function. Option A is correct as it handles very high transactions by including a maximum value , but the width is equal for all buckets.

NEW QUESTION # 165
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