Quiz 2026 SPS-C01: Snowflake Certified SnowPro Specialty - Snowpark High Hit-Rate Reliable Test Objectives

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q89-Q94):

NEW QUESTION # 89
You have a Snowpark DataFrame 'products_df with columns 'product_id', 'category', and 'price'. You want to find the top 3 most expensive products within each category Which of the following Snowpark code snippets will accomplish this, using window functions?

- A.

```
from snowflake.snowpark.functions import row_number, rank, col, dense_rank, partition_by, desc from snowflake.snowpark.window import Window
window_spec = Window.partitionBy("category").orderBy(desc("price")) ranked_products = products_df.with_column("rank", row_number().over(window_spec))
top_products = ranked_products.filter(col("rank") < 3) top_products.show()
```

- B.
```
from snowflake.snowpark.functions import row_number, rank, col, dense_rank, partition_by, desc from snowflake.snowpark.window import Window
window_spec = Window.orderBy(col("price").desc()) ranked_products = products_df.with_column("rank", row_number().over(window_spec)) top_products =
ranked_products.filter(col("rank") <= 3) top_products.show()
```
- C.
```
from snowflake.snowpark.functions import row_number, rank, col, dense_rank, partition_by, desc from snowflake.snowpark.window import Window
window_spec = Window.partitionBy("category").orderBy(col("price").desc()) ranked_products = products_df.with_column("rank",
row_number().over(window_spec)) top_products = ranked_products.filter(col("rank") <= 3) top_products.show()
```
- D.
```
from snowflake.snowpark.functions import row_number, rank, col, dense_rank, partition_by, desc window_spec =
Window.partitionBy("category").orderBy(desc("price")) ranked_products = products_df.with_column("rank", row_number().over(window_spec)) top_products
= ranked_products.filter(col("rank") <= 3) top_products.show()
```
- E.
```
from snowflake.snowpark.functions import row_number, rank, col, dense_rank, partition_by, desc from snowflake.snowpark.window import Window
window_spec = Window.partitionBy("category").orderBy(col("price")) ranked_products = products_df.with_column("rank", rank().over(window_spec))
top_products = ranked_products.filter(col("rank") <= 3) top_products.show()
```

Answer: D

Explanation:
Option D correctly partitions the data by category, orders by price in descending order (most expensive first), assigns a rank using , and then filters for ranks less than or equal to 3. Option A misses the snowflake.snowpark.functions import, but functionally same as D. Option B orders by price in ascending order (cheapest first). Option C does not partition by category and Option E filters where rank < 3 instead of less than or equal to. D is most correct because of syntax and concept implementation, and will pass the code check

NEW QUESTION # 90
You need to perform a set difference operation between two DataFrames in Snowpark Python. 'df1' contains customer IDs from a marketing campaign, and 'df2 contains customer IDs from a recent purchase event. You want to identify customers who were targeted in the campaign but did not make a recent purchase. Both DataFrames have a column named 'customer id'. Which of the following approaches provides the most efficient way to accomplish this task in Snowpark?

- A.
```
missing_customers = df1.exceptAll(df2)
```
- B.
```
missing_customers = df1.subtract(df2)
```
- C.
```
missing_customers = df1.intersect(df2)
```
- D.
```
missing_customers = df1.filter(~df1['customer_id'].isin(df2.select('customer_id').collect()))
```
- E.
```
missing_customers = df1.filter(~df1['customer_id'].isin(df2.select('customer_id').collect()))
```

Answer: D

Explanation:
Option C, using a 'left_anti' join, is the most efficient way to perform a set difference operation between two DataFrames in Snowpark. A join returns only the rows from the left DataFrame Cdfl s) where the join condition is not met in the right DataFrame Cdf2). This leverages Snowflake's query optimizer for optimal performance. Option A, 'subtract(df2)' , is equivalent to 'exceptAll(df2)' (Option B) and removes duplicate rows. While functionally correct, join is often more performant, especially for larger datasets. Option D is highly inefficient as it collects the 'customer_id' from 'df2 to the driver, it should be avoided. Option E calculates intersection, not difference.

NEW QUESTION # 91
A data engineer is tasked with transforming a large dataset of customer transactions using Snowpark Python. The dataset contains personally identifiable information (PII) that needs to be masked before further analysis. They decide to use a UDF to perform the masking. Consider the following Python UDF:
```
def mask_pii(ssn_object):
  if ssn_object is None:
    return None
  return 'XXXXX'

mask_pii_udf = F.udf(func=mask_pii, return_type=StringType(), input_types=[StringType()], name='mask_pii_udf', replace=True,is_permanent=True, stage_location='@my_stage')
```
The engineer registers this UDF and attempts to apply it to a column named 'customer email' in a Snowpark DataFrame named 'customer data'. Which of the following code snippets is the MOST efficient and secure way to apply this UDF and replace the 'customer email' column with the masked values?

- A. `customer_data = customer_data.select(F.expr('mask_pii_udf(customer_email)').alias('masked_email'))`
- B.
```
customer_data = customer_data.select(mask_pii_udf(customer_data['customer_email']))
```
- C.
```
customer_data = customer_data.with_column('customer_email', mask_pii_udf(customer_data['customer_email']))
```
- D.
```
customer_data = customer_data.with_column('customer_email', F.call_udf('mask_pii_udf', customer_data['customer_email']))
```
- E.
```
customer_data = customer_data.with_column('masked_email', mask_pii_udf(customer_data['customer_email']))
```

Answer: C

Explanation:
The most efficient and secure way is to directly call the UDF on the DataFrame column using 'with_column'. This leverages Snowpark's lazy evaluation and avoids unnecessary data movement. It also modifies the original 'customer_email' column as requested. Option A requires the string name of the UDF instead of the function and option D adds a new column named 'masked_email' instead of replacing customer_email. Option B and E do not replace the current 'customer_email' column.

NEW QUESTION # 92
You are setting up a VS Code development environment for Snowpark with the Snowflake extension. You want to ensure that you can securely authenticate to Snowflake and execute Snowpark code. Which of the following steps are essential to configure secure authentication within VS Code for Snowpark?

- A. Install the Snowflake VS Code extension and configure the Snowflake connection settings to use Snowflake Native Authentication. Ensure that the user has the required permissions to authenticate using this method.
- B. Install the Snowflake VS Code extension and configure the Snowflake connection settings to use MFA. Ensure the username and password is provided with a valid MFA token.
- C. Install the Snowflake VS Code extension and configure the Snowflake connection settings to use Key Pair authentication. Ensure the private key is securely stored and referenced in the connection settings.
- D. Install the Snowflake VS Code extension and configure the connection settings to use OAuth. Ensure the OAuth client and secret are properly configured in Snowflake and referenced in the connection settings.
- E. Install the Snowflake VS Code extension and configure the Snowflake connection settings in the extension's configuration file using username and password.

Answer: A,C,D

Explanation:
Options B, C, and E are the secure methods for authenticating to Snowflake. Key Pair authentication (B) uses a private key, OAuth (C) uses tokens, and Snowflake Native Authentication (E) uses other Snowflake supported authentications like Okta. Username and password (A) is not recommended and MFA (D) is not specifically managed through extension settings.

NEW QUESTION # 93
You are tasked with processing a Snowpark DataFrame named 'orders df that contains order information. The DataFrame includes the following columns: 'order _ id' (INTEGER), 'customer_id' (INTEGER), 'order_date' (DATE), 'order_total' (STRING), and 'discount_code' (STRING). The 'order_total' column contains values with leading dollar signs and commas (e.g., '$1 ,234.56'). The column can contain codes like 'SAVEIO', 'SAVE20', or be NULL. Your goal is to create a new DataFrame 'transformed_df that includes the following transformations: 1 . Convert the 'order_total' column to a numeric value (DOUBLE) after removing the dollar signs and commas. 2. Apply a discount based on the 'discount_code'. If the 'discount_code' is 'SAVEIO', apply a 10% discount; if it's 'SAVE20', apply a 20% discount. If the 'discount_code' is NULL or any other value, apply no discount (0%). 3. Calculate the 'final_total' after applying the discount. Which of the following code snippets correctly and efficiently implements these transformations using Snowpark?

- A.
  ```python from snowflake.snowpark.functions import when, col, to_double, regexp_replace,lit transformed_df = orders_df.with_column('order_total_numeric', to_double(regexp_replace(col('order_total'), '[$,]', '')),).with_column('discount', when(col('discount_code') == 'SAVE10', lit(0.1)).when(col('discount_code') == 'SAVE20', lit(0.2)).otherwise(lit(0.0)),).with_column('final_total', col('order_total_numeric') (1 - col('discount'))) ```
- B.
  ```

- ```python from snowflake.snowpark.functions import when, col, to_double, regexp_replace transformed_df = orders_df.with_column('order_total_numeric', to_double(regexp_replace(col('order_total'), '[$,]', '')),).with_column('discount', when(col('discount_code') == 'SAVE10', col('order_total_numeric') 0.1).when(col('discount_code') == 'SAVE20', col('order_total_numeric') 0.2).otherwise(0.0),).with_column('final_total', col('order_total_numeric') - col('discount')) ```
- C.
```python from snowflake.snowpark.functions import when, col, to_double, regexp_replace def calculate_final_total(row): order_total = float(row['order_total'].replace('$', '').replace(',', '')) if row['discount_code'] == 'SAVE10': return order_total 0.9 elif row['discount_code'] == 'SAVE20': return order_total 0.8 else: return order_total transformed_df = orders_df.with_column('final_total', orders_df.select(arrays_zip(col('order_total'), col('discount_code'))).rdd.map(calculate_final_total)) ```
- D.
```python from snowflake.snowpark.functions import when, col, to_number, regexp_replace def apply_discount(discount_code, order_total): if discount_code == 'SAVE10': return order_total 0.9 elif discount_code == 'SAVE20': return order_total 0.8 else: return order_total apply_discount_udf = udf(apply_discount, return_type=DoubleType(), input_types=[StringType(), DoubleType()]) transformed_df = orders_df.with_column('order_total_numeric', to_number(regexp_replace(col('order_total'), '[$,]', ''), 10, 2)).with_column('final_total', apply_discount_udf(col('discount_code'), col('order_total_numeric'))) ```
- E.
```python from snowflake.snowpark.functions import when, col, to_double, regexp_replace transformed_df = orders_df.with_column('order_total_numeric', to_double(regexp_replace(col('order_total'), '[$,]', '')),).with_column('discount', when(col('discount_code') == 'SAVE10', 0.1).when(col('discount_code') == 'SAVE20', 0.2).otherwise(0.0),).with_column('final_total', col('order_total_numeric') (1 - col('discount'))) ```

Answer: E

Explanation:
Option A correctly implements all transformations efficiently using Snowpark functions. It converts 'order_totar to a numeric value, applies the discount based on the using 'when' , and calculates the 'final_totar. It avoids using IJDFs or 'collect' operations, which can be less efficient. Using 'lit' with numeric values isn't necessary or best practice, so option B is less preferable. Option C attempts to use a IJDF, which is less efficient than using built-in Snowpark functions. Also 'to_number' and for IJDF is not required. Option D calculates the discount amount directly instead of the discount rate. Option E attempts to use 'rdd.map' which is not available and it's generally advised against as it removes parallelism.

NEW QUESTION # 94
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