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Databricks Certified Professional Data Engineer Exam Sample Questions (Q130-Q135):

NEW QUESTION # 130

Which statement characterizes the general programming model used by Spark Structured Streaming?

- A. Structured Streaming models new data arriving in a data stream as new rows appended to an unbounded table.

- B. Structured Streaming is implemented as a messaging bus and is derived from Apache Kafka.
- C. Structured Streaming leverages the parallel processing of GPUs to achieve highly parallel data throughput.
- D. Structured Streaming uses specialized hardware and I/O streams to achieve sub-second latency for data transfer.
- E. Structured Streaming relies on a distributed network of nodes that hold incremental state values for cached stages.

Answer: A

NEW QUESTION # 131

A Delta Lake table with Change Data Feed (CDF) enabled in the Lakehouse named `customer_churn_params` is used in churn prediction by the machine learning team. The table contains information about customers derived from a number of upstream sources. Currently, the data engineering team populates this table nightly by overwriting the table with the current valid values derived from upstream data sources. The churn prediction model used by the ML team is fairly stable in production. The team is only interested in making predictions on records that have changed in the past 24 hours. Which approach would simplify the identification of these changed records?

- A. Modify the overwrite logic to include a field populated by calling `current_timestamp()` as data are being written; use this field to identify records written on a particular date.
- B. Convert the batch job to a Structured Streaming job using the complete output mode; configure a Structured Streaming job to read from the `customer_churn_params` table and incrementally predict against the churn model.
- C. Apply the churn model to all rows in the `customer_churn_params` table, but implement logic to perform an upsert into the predictions table that ignores rows where predictions have not changed.
- D. Replace the current overwrite logic with a MERGE statement to modify only those records that have changed; write logic to make predictions on the changed records identified by the Change Data Feed.

Answer: D

Explanation:

* Exact extract: "Change data feed (CDF) provides row-level change information for Delta tables."

* Exact extract: "Use table `_changes` to query the set of rows that were inserted, updated, or deleted between two versions (or timestamps)." References: Delta Lake Change Data Feed; Delta Lake MERGE INTO.

NEW QUESTION # 132

The data science team has created and logged a production using MLflow. The model accepts a list of column names and returns a new column of type DOUBLE.

The following code correctly imports the production model, load the customer table containing the `customer_id` key column into a DataFrame, and defines the feature columns needed for the model.

```
model = mlflow.pyfunc.spark_udf(spark, model_uri="models:/churn/prod")
df = spark.table("customers")
columns = ["account_age", "time_since_last_seen", "app_rating"]
```

Which code block will output DataFrame with the schema '`customer_id LONG, predictions DOUBLE`' ?

- A. `Df.apply(model, columns). Select ('customer_id, prediction')`
- B. `Df, map (lambda k:midel (x [columns]),select ('customer_id predictions'))`
- C. `Df. Select ('customer_id' . Model ('columns) alias ('predictions'))`
- D. `Model, predict (df, columns)`

Answer: D

Explanation:

Given the information that the model is registered with MLflow and assuming `predict` is the method used to apply the model to a set of columns, we use the `model.predict()` function to apply the model to the DataFrame `df` using the specified columns . The `model.predict()` function is designed to take in a DataFrame and a list of column names as arguments, applying the trained model to these features to produce a predictions column. When working with PySpark, this predictions column needs to be selected alongside the `customer_id` to create a new DataFrame with the schema `customer_id LONG, predictions DOUBLE` .

References:

MLflow documentation on using Python function models: <https://www.mlflow.org/docs/latest/models>.

html#python-function-python

PySpark MLlib documentation on model prediction: <https://spark.apache.org/docs/latest/ml-pipeline>.

html#pipeline

NEW QUESTION # 133

Which of the following is correct for the global temporary view?

- A. global temporary views can be still accessed even if the cluster is restarted
- B. global temporary views cannot be accessed once the notebook is detached and attached
- C. global temporary views are created in a database called temp database
- D. global temporary views can be accessed across many clusters
- E. global temporary views can be still accessed even if the notebook is detached and at-tached

Answer: E

Explanation:

Explanation

The answer is global temporary views can be still accessed even if the notebook is detached and attached There are two types of temporary views that can be created Local and Global

* A local temporary view is only available with a spark session, so another notebook in the same cluster can not access it. if a notebook is detached and reattached local temporary view is lost.

* A global temporary view is available to all the notebooks in the cluster, even if the notebook is detached and reattached it can still be accessible but if a cluster is restarted the global temporary view is lost.

NEW QUESTION # 134

A data engineer is attempting to execute the following PySpark code:

```
df = spark.read.table("sales")
```

```
result = df.groupBy("region").agg(sum("revenue"))
```

However, upon inspecting the execution plan and profiling the Spark job, they observe excessive data shuffling during the aggregation phase.

Which technique should be applied to reduce shuffling during the groupBy aggregation operation?

- A. Caching the DataFrame df.
- B. Use coalesce() after the aggregation.
- C. Repartition by region before aggregation.
- D. Use broadcast join.

Answer: C

Explanation:

Databricks documents that shuffle occurs when Spark redistributes data across partitions for grouping or joining. To optimize aggregation performance, repartitioning by the grouping key (region) ensures rows with the same key are co-located in the same partition, thus minimizing shuffle movement. Caching improves reuse of DataFrames but does not reduce shuffle volume. coalesce() reduces the number of partitions after computation and cannot prevent shuffle. Broadcast joins are unrelated to single-table aggregations. The recommended practice for reducing shuffle in aggregation is explicit repartitioning by the grouping column.

NEW QUESTION # 135

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