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Databricks Certified Professional Data Engineer Exam is an online exam that can be taken from anywhere in the world. Databricks-Certified-Professional-Data-Engineer exam is timed and consists of multiple-choice questions and hands-on tasks that require the candidate to demonstrate their ability to perform specific tasks using Databricks. Databricks-Certified-Professional-Data-Engineer Exam is designed to be challenging and requires a thorough understanding of Databricks data engineering concepts and techniques.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q62-Q67):

NEW QUESTION # 62

A task orchestrator has been configured to run two hourly tasks. First, an outside system writes Parquet data to a directory mounted at /mnt/raw_orders/. After this data is written, a Databricks job containing the following code is executed:

```
(spark.readStream
  .format("parquet")
  .load("/mnt/raw_orders/")
  .withWatermark("time", "2 hours")
  .dropDuplicates(["customer_id", "order_id"])
  .writeStream
  .trigger(once=True)
  .table("orders")
)
```

Assume that the fields customer_id and order_id serve as a composite key to uniquely identify each order, and that the time field indicates when the record was queued in the source system. If the upstream system is known to occasionally enqueue duplicate entries for a single order hours apart, which statement is correct?

- A. Duplicate records enqueued more than 2 hours apart may be retained and the orders table may contain duplicate records with the same customer_id and order_id.
- B. The orders table will contain only the most recent 2 hours of records and no duplicates will be present.
- C. The orders table will not contain duplicates, but records arriving more than 2 hours late will be ignored and missing from the table.
- D. All records will be held in the state store for 2 hours before being deduplicated and committed to the orders table.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "dropDuplicates with watermark performs stateful deduplication on the keys within the watermark delay." Exact extract: "Records older than the event-time watermark are considered late and may be dropped." Exact extract: "trigger(once) processes all available data once and then stops." The watermark of 2 hours bounds the deduplication state. Duplicate orders within the 2-hour window are removed; duplicates arriving later than 2 hours behind the corresponding first event are considered late and are ignored, so they won't appear, but any orders that themselves arrive later than the watermark will be dropped and thus be missing.

Reference:

NEW QUESTION # 63

Which of the below SQL commands creates a session scoped temporary view?

- A. 1.CREATE OR REPLACE LOCAL TEMPORARY VIEW view_name
2.AS SELECT * FROM table_name
- B. 1.CREATE OR REPLACE TEMPORARY VIEW view_name
2.AS SELECT * FROM table_name
(Correct)
- C. 1.CREATE OR REPLACE VIEW view_name
2.AS SELECT * FROM table_name

- D. 1.CREATE OR REPLACE GLOBAL TEMPORARY VIEW view_name
2.AS SELECT * FROM table_name
- E. 1.CREATE OR REPLACE LOCAL VIEW view_name
2.AS SELECT * FROM table_name

Answer: B

Explanation:

Explanation

The answer is

1.CREATE OR REPLACE TEMPORARY VIEW view_name

2.AS SELECT * FROM table_name

The default temporary view is session scoped, as soon as the session ends or if a notebook is de-tached session scoped temporary view is dropped.

NEW QUESTION # 64

What type of table is created when you create delta table with below command?

CREATE TABLE transactions USING DELTA LOCATION "DBFS:/mnt/bronze/transactions"

- A. Temp table
- B. Managed table
- C. Delta Lake table
- D. External table
- E. Managed delta table

Answer: D

Explanation:

Explanation

Anytime a table is created using the LOCATION keyword it is considered an external table, below is the current syntax.

Syntax

CREATE TABLE table_name (column column_data_type...) USING format LOCATION "dbfs://" format -> DELTA, JSON, CSV, PARQUET, TEXT I created the table command based on the above question, you can see it created an external table,

```
%sql
CREATE TABLE transactions(transactionId int, transactionDate timestamp,unitsSold int)
USING DELTA LOCATION "dbfs:/mnt/bronze/transactions"
```

```
▶ [sql] _sqlDf: pyspark.sql.dataframe.DataFrame
K
command took 1.78 seconds -- by akhil
at 10/10/2022, 5:02:40 PM on Akhil Vangala's Cluster
```

```
2
%sql
DESCRIBE EXTENDED transactions
```

▶ [sql] _sqlDf: pyspark.sql.dataframe.DataFrame = [col_name: string, data_type: string ... 1 more field]

| row | col_name | data_type | comment |
|-----|------------------|---|---------|
| 10 | Database | default | |
| 11 | Table | transactions | |
| 12 | Location | dbfs:/mnt/bronze/transactions | |
| 13 | Provider | delta | |
| 14 | Owner | root | |
| 15 | Type | EXTERNAL | |
| 16 | Table Properties | [delta.minReaderVersion=1,delta.minWriterVersion=2,external=true] | |

NEW QUESTION # 65

A data engineer is running a groupBy aggregation on a massive user activity log grouped by user_id. A few users have millions of records, causing task skew and long runtimes.

Which technique will fix the skew in this aggregation?

- A. Increase the Spark driver memory and retry.
- B. Filter out the skewed users before the aggregation.
- C. Use reduceByKey instead of groupBy to avoid shuffles.
- D. Use salting by adding a random prefix to skewed keys before aggregation, then aggregate again after removing the prefix.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Task skew occurs when a small subset of keys holds a disproportionate amount of data, causing certain tasks to process significantly more records than others. Databricks documentation recommends salting as an effective mitigation technique.

Salting introduces a random or calculated prefix to skewed keys, distributing records across multiple partitions and balancing the workload during the shuffle stage. After aggregation, a second pass re-aggregates results by removing the prefix to restore key integrity.

Increasing memory (B) does not resolve distribution imbalance; reduceByKey (C) still triggers shuffles; and filtering (D) would remove valid business data. Hence, salting is the correct and officially recommended approach to address skew in Spark aggregations.

NEW QUESTION # 66

You have noticed the Data scientist team is using the notebook versioning feature with git integration, you have recommended them to switch to using Databricks Repos, which of the below reasons could be the reason the why the team needs to switch to Databricks Repos.

- A. Databricks Repos automatically saves changes
- B. Databricks Repos allows merge and conflict resolution
- C. Databricks Repos allow you to add comments and select the changes you want to commit.
- D. Databricks Repos allows multiple users to make changes
- E. Databricks Repos has a built-in version control system

Answer: C

Explanation:

Explanation

The answer is Databricks Repos allow you to add comments and select the changes you want to commit.

NEW QUESTION # 67

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