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Databricks Certified Professional Data Engineer certification exam is a valuable credential for data engineers who work with Databricks. It demonstrates to potential employers and clients that the holder has the necessary skills and knowledge to work effectively with the platform. Additionally, the certification can enhance the holder's career prospects by providing opportunities for advancement and higher-paying positions.

>> **Databricks-Certified-Professional-Data-Engineer Exam Fee** <<

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Databricks Certified Professional Data Engineer exam covers a wide range of topics, such as data ingestion, transformation, storage, and processing. Databricks-Certified-Professional-Data-Engineer Exam Tests the candidates' ability to use Databricks tools and technologies to solve real-world problems and challenges. Candidates who pass Databricks-Certified-Professional-Data-Engineer exam demonstrate their proficiency in designing, building, and managing data pipelines with Databricks, which is a leading cloud-based platform for big data processing and analytics.

Databricks is a cloud-based platform that provides data engineering, machine learning, and analytics services. The Databricks Certified Professional Data Engineer (DCPDE) exam is designed to test the skills and knowledge of data engineers who are responsible for building data pipelines, managing data infrastructure, and optimizing data processing workflows on the Databricks platform.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

A junior data engineer seeks to leverage Delta Lake's Change Data Feed functionality to create a Type 1 table representing all of the values that have ever been valid for all rows in a bronze table created with the property `delta.enableChangeDataFeed = true`. They plan to execute the following code as a daily job:

Which statement describes the execution and results of running the above query multiple times?

- A. Each time the job is executed, only those records that have been inserted or updated since the last execution will be appended to the target table giving the desired result.
- **B. Each time the job is executed, the entire available history of inserted or updated records will be appended to the target table, resulting in many duplicate entries.**
- C. Each time the job is executed, newly updated records will be merged into the target table, overwriting previous values with the same primary keys.
- D. Each time the job is executed, the differences between the original and current versions are calculated; this may result in duplicate entries for some records.
- E. Each time the job is executed, the target table will be overwritten using the entire history of inserted or updated records, giving the desired result.

Answer: B

Explanation:

Reading table's changes, captured by CDF, using `spark.read` means that you are reading them as a static source. So, each time you run the query, all table's changes (starting from the specified `startingVersion`) will be read.

NEW QUESTION # 43

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. The orders table will contain only the most recent 2 hours of records and no duplicates will be present.
- B. All records will be held in the state store for 2 hours before being deduplicated and committed to the orders table.
- C. 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`.
- **D. The orders table will not contain duplicates, but records arriving more than 2 hours late will be ignored and missing from the table.**

Answer: D

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 # 44

The data analyst team had put together queries that identify items that are out of stock based on orders and replenishment but when they run all together for final output the team noticed it takes a really long time, you were asked to look at the reason why queries are running slow and identify steps to improve the performance and when you looked at it you noticed all the code queries are running sequentially and using a SQL endpoint cluster. Which of the following steps can be taken to resolve the issue?

Here is the example query

```
1.--- Get order summary
2.create or replace table orders_summary
3.as
4.select product_id, sum(order_count) order_count
5.from
6. (
7. select product_id,order_count from orders_instore
8. union all
9. select product_id,order_count from orders_online
10. )
11.group by product_id
12.-- get supply summary
13.create or repalce tabe supply_summary
14.as
15.select product_id, sum(supply_count) supply_count
16.from supply
17.group by product_id
18.
19.-- get on hand based on orders summary and supply summary
20.
21.with stock_cte
22.as (
23.select nvl(s.product_id,o.product_id) as product_id,
24. nvl(supply_count,0) - nvl(order_count,0) as on_hand
25.from supply_summary s
26.full outer join orders_summary o
27. on s.product_id = o.product_id
28.)
29.select *
30.from
31.stock_cte
32.where on_hand = 0
```

- A. Turn on the Auto Stop feature for the SQL endpoint.
- **B. Increase the cluster size of the SQL endpoint.**
- C. Turn on the Serverless feature for the SQL endpoint.
- D. Turn on the Serverless feature for the SQL endpoint and change the Spot Instance Policy to "Reliability Optimized."
- E. Increase the maximum bound of the SQL endpoint's scaling range.

Answer: B

Explanation:

Explanation

The answer is to increase the cluster size of the SQL Endpoint, here queries are running sequentially and since the single query can not span more than one cluster adding more clusters won't improve the query but rather increasing the cluster size will improve performance so it can use additional compute in a warehouse.

In the exam please note that additional context will not be given instead you have to look for cue words or need to understand if the queries are running sequentially or concurrently. if the queries are running sequentially then scale up (more nodes) if the queries are running concurrently (more users) then scale out (more clusters).

Below is the snippet from Azure, as you can see by increasing the cluster size you are able to add more worker nodes.

Cluster size	Instance type for driver(applys only to Classic Warehouses/SQL Endpoints)	Worker count
2X-Small	Standard_E8ds_v4	1
X-Small		2
Small	Standard_E16ds_v4	4
Medium	Standard_E32ds_v4	8
Large		16
X-Large		32
2X-Large	Standard_E64ds_v4	64
3X-Large		128
4X-Large		256

*The instance size of all workers is Standard_E8ds_v4.

SQL endpoint scales horizontally(scale-out) and vertically (scale-up), you have to understand when to use what.

Scale-up-> Increase the size of the cluster from x-small to small, to medium, X Large....

If you are trying to improve the performance of a single query having additional memory, additional nodes and cpu in the cluster will improve the performance.

Scale-out -> Add more clusters, change max number of clusters

If you are trying to improve the throughput, being able to run as many queries as possible then having an additional cluster(s) will improve the performance.

SQL endpoint

A picture containing diagram Description automatically generated

The screenshot shows the configuration for a Starter Endpoint. The 'Cluster size' is set to 'X-Small' (6 DBU / cluster), which is circled and labeled 'Scale up'. The 'Auto stop' feature is enabled, set to stop after 60 minutes of inactivity. The 'Scaling' section shows a minimum of 1 cluster and a maximum of 2 clusters (0 to 12 DBU), with the 'Max' field circled and labeled 'Scale out'. The Databricks logo is at the bottom.

NEW QUESTION # 45

What is the purpose of the bronze layer in a Multi-hop architecture?

- A. Used as a data source for Machine learning applications.
- **B. Provides efficient storage and querying of full unprocessed history of data**
- C. Contains aggregated data that is to be consumed into Silver
- D. Can be used to eliminate duplicate records
- E. Perform data quality checks, corrupt data quarantined

Answer: B

Explanation:

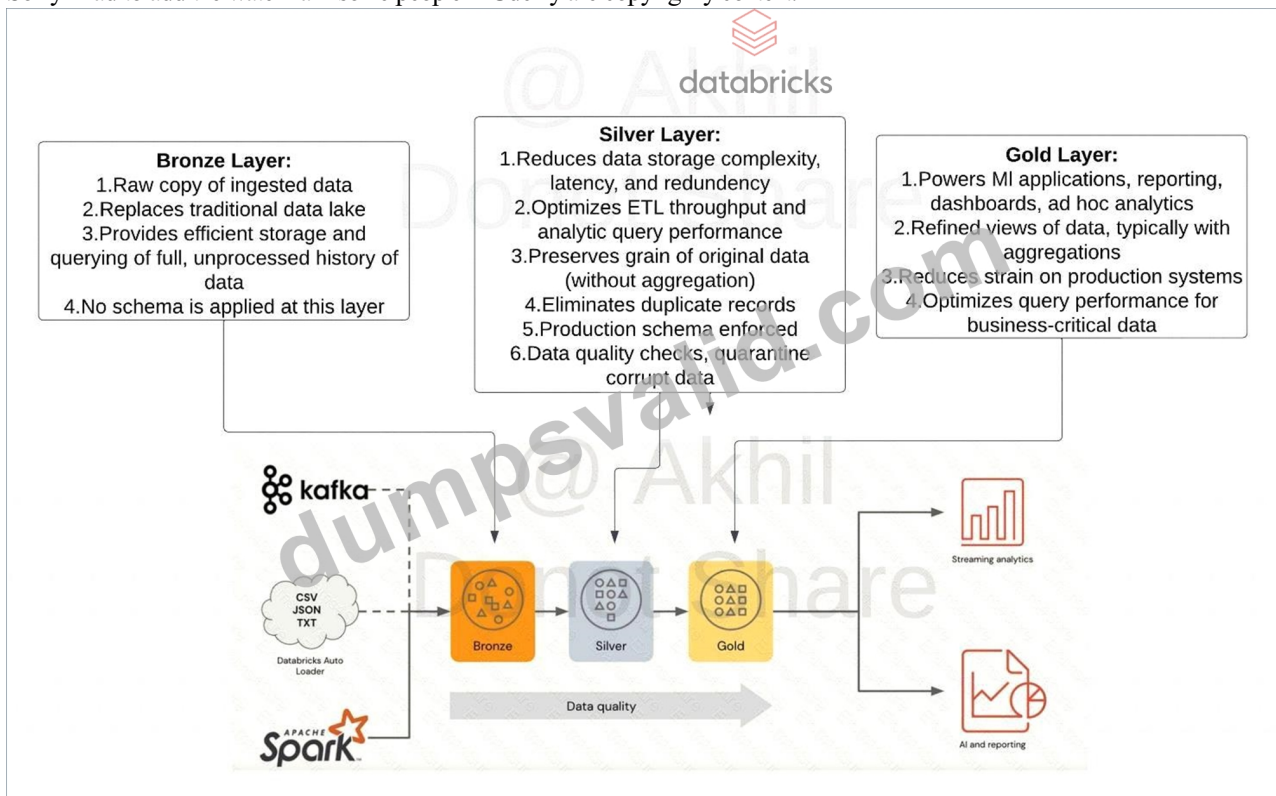
Explanation

The answer is Provides efficient storage and querying of full unprocessed history of data Medallion Architecture - Databricks Bronze Layer:

- 1.Raw copy of ingested data
- 2.Replaces traditional data lake
- 3.Provides efficient storage and querying of full, unprocessed history of data
- 4.No schema is applied at this layer

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

Sorry I had to add the watermark some people in Udemu are copying my content.



NEW QUESTION # 46

A data pipeline uses Structured Streaming to ingest data from kafka to Delta Lake. Data is being stored in a bronze table, and includes the Kafka_generated timestamp, key, and value. Three months after the pipeline is deployed the data engineering team has noticed some latency issued during certain times of the day.

A senior data engineer updates the Delta Table's schema and ingestion logic to include the current timestamp (as recoded by Apache Spark) as well the Kafka topic and partition. The team plans to use the additional metadata fields to diagnose the transient processing delays:

Which limitation will the team face while diagnosing this problem?

- **A. New fields not be computed for historic records.**
- B. Spark cannot capture the topic partition fields from the kafka source.
- C. Updating the table schema will invalidate the Delta transaction log metadata.

- D. Updating the table schema requires a default value provided for each file added.

Answer: A

Explanation:

When adding new fields to a Delta table's schema, these fields will not be retrospectively applied to historical records that were ingested before the schema change. Consequently, while the team can use the new metadata fields to investigate transient processing delays moving forward, they will be unable to apply this diagnostic approach to past data that lacks these fields.

References:

* Databricks documentation on Delta Lake schema management: <https://docs.databricks.com/delta/delta-batch.html#schema-management>

NEW QUESTION # 47

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