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Databricks Certified Professional Data Engineer (Databricks-Certified-Professional-Data-Engineer) Certification Exam is a highly valued industry certification that validates the skills and expertise of data engineers in using Databricks to build and manage data pipelines. Databricks is a cloud-based data platform that offers a unified analytics engine for big data and machine learning. Databricks Certified Professional Data Engineer Exam certification exam is designed to test the candidate's knowledge of Databricks architecture, data engineering best practices, and data pipeline design and implementation.

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## Databricks Certified Professional Data Engineer Exam Sample Questions (Q89-Q94):

### NEW QUESTION # 89

A junior data engineer on your team has implemented the following code block.

The view `new_events` contains a batch of records with the same schema as the `eventsDelta` table.

The `event_id` field serves as a unique key for this table.

When this query is executed, what will happen with new records that have the same `event_id` as an existing record?

- A. They are updated.
- B. They are deleted.
- C. They are ignored.
- D. They are inserted.
- E. They are merged.

**Answer: C**

Explanation:

Explanation

This is the correct answer because it describes what will happen with new records that have the same `event_id` as an existing record when the query is executed. The query uses the `INSERT INTO` command to append new records from the view `new_events` to the table `events`. However, the `INSERT INTO` command does not check for duplicate values in the primary key column (`event_id`) and does not perform any update or delete operations on existing records. Therefore, if there are new records that have the same `event_id` as an existing record, they will be ignored and not inserted into the table `events`. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Append data using `INSERT INTO`" section.

"If none of the `WHEN MATCHED` conditions evaluate to true for a source and target row pair that matches the `merge_condition`, then the target row is left unchanged." <https://docs.databricks.com/en/sql/language-manual/delta-merge-into.html#:~:text=If%20none%20>

### NEW QUESTION # 90

What is the best way to describe a data lakehouse compared to a data warehouse?

- A. A data lakehouse utilizes proprietary storage formats for data.
- B. A data lakehouse couples storage and compute for complete control.
- C. A data lakehouse enables both batch and streaming analytics.
- D. A data lakehouse captures snapshots of data for version control purposes.
- E. A data lakehouse provides a relational system of data management

**Answer: C**

Explanation:

Explanation

Answer is A data lakehouse enables both batch and streaming analytics.

A lakehouse has the following key features:

\*Transaction support: In an enterprise lakehouse many data pipelines will often be reading and writing data concurrently. Support for ACID transactions ensures consistency as multiple parties concurrently read or write data, typically using SQL.

\*Schema enforcement and governance: The Lakehouse should have a way to support schema enforcement and evolution, supporting DW schema architectures such as star/snowflake-schemas. The system should be able to reason about data integrity, and it should have robust governance and auditing mechanisms.

\*BI support: Lakehouses enable using BI tools directly on the source data. This reduces staleness and improves recency, reduces latency, and lowers the cost of having to operationalize two copies of the data in both a data lake and a warehouse.

- \*Storage is decoupled from compute: In practice this means storage and compute use separate clusters, thus these systems are able to scale to many more concurrent users and larger data sizes. Some modern data warehouses also have this property.
- \*Openness: The storage formats they use are open and standardized, such as Parquet, and they provide an API so a variety of tools and engines, including machine learning and Python/R libraries, can efficiently access the data directly.
- \*Support for diverse data types ranging from unstructured to structured data: The lakehouse can be used to store, refine, analyze, and access data types needed for many new data applications, including images, video, audio, semi-structured data, and text.
- \*Support for diverse workloads: including data science, machine learning, and SQL and analytics. Multiple tools might be needed to support all these workloads but they all rely on the same data repository.
- \*End-to-end streaming: Real-time reports are the norm in many enterprises. Support for streaming eliminates the need for separate systems dedicated to serving real-time data applications.

### NEW QUESTION # 91

A CHECK constraint has been successfully added to the Delta table named activity\_details using the following logic:

A batch job is attempting to insert new records to the table, including a record where latitude = 45.50 and longitude = 212.67. Which statement describes the outcome of this batch insert?

- A. The write will insert all records except those that violate the table constraints; the violating records will be recorded to a quarantine table.
- B. The write will insert all records except those that violate the table constraints; the violating records will be reported in a warning log.
- C. The write will fail when the violating record is reached; any records previously processed will be recorded to the target table.
- **D. The write will fail completely because of the constraint violation and no records will be inserted into the target table.**
- E. The write will include all records in the target table; any violations will be indicated in the boolean column named valid\_coordinates.

**Answer: D**

Explanation:

The CHECK constraint is used to ensure that the data inserted into the table meets the specified conditions. In this case, the CHECK constraint is used to ensure that the latitude and longitude values are within the specified range. If the data does not meet the specified conditions, the write operation will fail completely and no records will be inserted into the target table. This is because Delta Lake supports ACID transactions, which means that either all the data is written or none of it is written. Therefore, the batch insert will fail when it encounters a record that violates the constraint, and the target table will not be updated. References:

\* Constraints: <https://docs.delta.io/latest/delta-constraints.html>

\* ACID Transactions: <https://docs.delta.io/latest/delta-intro.html#acid-transactions>

### NEW QUESTION # 92

The data engineering team is migrating an enterprise system with thousands of tables and views into the Lakehouse. They plan to implement the target architecture using a series of bronze, silver, and gold tables.

Bronze tables will almost exclusively be used by production data engineering workloads, while silver tables will be used to support both data engineering and machine learning workloads. Gold tables will largely serve business intelligence and reporting purposes. While personal identifying information (PII) exists in all tiers of data, pseudonymization and anonymization rules are in place for all data at the silver and gold levels.

The organization is interested in reducing security concerns while maximizing the ability to collaborate across diverse teams.

Which statement exemplifies best practices for implementing this system?

- A. Because databases on Databricks are merely a logical construct, choices around database organization do not impact security or discoverability in the Lakehouse.
- B. Because all tables must live in the same storage containers used for the database they're created in, organizations should be prepared to create between dozens and thousands of databases depending on their data isolation requirements.
- C. Storing all production tables in a single database provides a unified view of all data assets available throughout the Lakehouse, simplifying discoverability by granting all users view privileges on this database.
- **D. Isolating tables in separate databases based on data quality tiers allows for easy permissions management through database ACLs and allows physical separation of default storage locations for managed tables.**
- E. Working in the default Databricks database provides the greatest security when working with managed tables, as these will be created in the DBFS root.

**Answer: D**

Explanation:

This is the correct answer because it exemplifies best practices for implementing this system. By isolating tables in separate databases based on data quality tiers, such as bronze, silver, and gold, the data engineering team can achieve several benefits. First, they can easily manage permissions for different users and groups through database ACLs, which allow granting or revoking access to databases, tables, or views. Second, they can physically separate the default storage locations for managed tables in each database, which can improve performance and reduce costs. Third, they can provide a clear and consistent naming convention for the tables in each database, which can improve discoverability and usability. Verified References: [Databricks Certified Data Engineer Professional], under "Lakehouse" section; Databricks Documentation, under "Database object privileges" section.

### NEW QUESTION # 93

As a Data Engineer, you were asked to create a delta table to store below transaction data?

- A. 1.CREATE TABLE USING DELTA transactions (  
2.transactionId int,  
3.transactionDate timestamp,  
4.unitsSold int)
- B. 1.CREATE DELTA TABLE transactions (  
2. transactionId int,  
3. transactionDate timestamp,  
4. unitsSold int)
- C. 1.CREATE TABLE transactions (  
2.transactionId int,  
3.transactionDate timestamp,  
4.unitsSold int)  
(Correct)
- D. 1.CREATE TABLE transactions (  
2.transactionId int,  
3.transactionDate timestamp,  
4.unitsSold int)  
5.FORMAT DELTA
- E. 1.CREATE TABLE transactions (  
2.transactionId int,  
3.transactionDate timestamp,  
4.unitsSold int)  
5.LOCATION DELTA

**Answer: A**

Explanation:

Explanation

Answer is

- 1.CREATE TABLE transactions (  
2.transactionId int,  
3.transactionDate timestamp,  
4.unitsSold int)

When creating a table in Databricks by default the table is stored in DELTA format.

### NEW QUESTION # 94

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