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### Databricks Certified Data Engineer Professional Exam Sample Questions (Q78-Q83):

#### NEW QUESTION # 78

Which statement describes integration testing?

- A. Validates an application use case
- B. Validates behavior of individual elements of your application
- C. Validates interactions between subsystems of your application
- D. Requires an automated testing framework
- E. Requires manual intervention

**Answer: C**

Explanation:

Integration testing is a type of software testing where components of the software are gradually integrated and then tested as a unified group.

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#### NEW QUESTION # 79

A data engineer is building a customer data pipeline in Lakeflow Spark Declarative Pipelines. The source is a cloud-based event stream with limited retention containing inserts, updates, and deletes for customer records. These changes are being applied using the AUTO CDC INTO syntax to maintain an SCD Type 1 table as the target table, customer\_dim. How should the data engineer build a downstream job that streams from the customer\_dim table to only act on updates and delete events, processing data incrementally?

- A. Streaming from customer\_dim table would only be possible in the case of SCD 2 retention.
- B. Read change data feed from customer\_dim table and apply filters to incrementally act on the change events.
- C. When stored as SCD 1, the target of AUTO CDC INTO includes updates and deletes. Streaming from customer\_dim can fail due to these operations. Instead, build another stream from the original source.
- D. Use ignoreChanges flag while streaming from customer\_dim to avoid breaking the pipeline during updates and deletes.

**Answer: B**

Explanation:

Reading the change data feed from the customer\_dim table enables downstream processing to react specifically to update and delete events while operating incrementally. Change data feed exposes row-level change types and versions, making it the correct mechanism for streaming only the relevant changes from an SCD Type 1 table maintained with AUTO CDC INTO.

#### NEW QUESTION # 80

A data engineering team is collaborating on a Databricks project where each team member needs to develop and test code independently before merging changes into the main branch.

They want to avoid accidental overwrites or branch switching issues while ensuring that all work is version-controlled and can be integrated into their CI/CD pipeline.

How should the data engineer achieve collaboration?

- A. Team members use the Databricks CLI to clone the Git repository and perform Git operations from a cluster's web terminal.
- B. All team members work in the same Databricks Git folder and perform Git operations (pull, push, commit, branch switching) directly in that shared folder.
- C. Team members edit notebooks directly in the workspace's shared folder and periodically copy changes into a Git folder for version control.
- **D. Each team member creates their own Databricks Git folder, mapped to the same remote Git repository, and works in their own development branch within their personal folder.**

**Answer: D**

Explanation:

Using separate Databricks Git folders per user mapped to the same remote repository allows each team member to work independently on their own branch without interfering with others.

This prevents accidental overwrites or branch conflicts while ensuring all changes are version- controlled and easily integrated into CI/CD workflows.

### NEW QUESTION # 81

The Databricks workspace administrator has configured interactive clusters for each of the data engineering groups. To control costs, clusters are set to terminate after 30 minutes of inactivity.

Each user should be able to execute workloads against their assigned clusters at any time of the day.

Assuming users have been added to a workspace but not granted any permissions, which of the following describes the minimal permissions a user would need to start and attach to an already configured cluster.

- A. Cluster creation allowed. "Can Attach To" privileges on the required cluster
- B. "Can Manage" privileges on the required cluster
- **C. "Can Restart" privileges on the required cluster**
- D. Workspace Admin privileges, cluster creation allowed. "Can Attach To" privileges on the required cluster
- E. Cluster creation allowed. "Can Restart" privileges on the required cluster

**Answer: C**

Explanation:

<https://learn.microsoft.com/en-us/azure/databricks/security/authz/access-control/cluster-acl>

<https://docs.databricks.com/en/security/authz/access-control/cluster-acl.html>

### NEW QUESTION # 82

A data engineer is configuring a Lakeflow Declarative Pipeline to process CDC (Change Data Capture) data from a source. The source events sometimes arrive out of order, and multiple updates may occur with the same `update_timestamp` but with different `update_sequence_id`.

What should the data engineer do to ensure events are sequenced correctly?

- A. Use `dropDuplicates()` to remove out-of-order and duplicate records in LDP.
- B. Set `track_history_column_list` to `[event_timestamp, event_id]` in AUTO CDC APIs.
- **C. Use `SEQUENCE BY STRUCT(event_timestamp, update_sequence_id)` in AUTO CDC APIs.**
- D. Use a window function to sort `update_sequence_id` within the same partition, i.e., `update_timestamp` in the LDP pipeline.

**Answer: C**

Explanation:

When handling CDC data, sequencing is critical because updates may arrive out of order or multiple changes may occur for the same record at the same timestamp. Databricks' AUTO CDC APIs provide built-in constructs to handle ordering logic.

The correct mechanism is to use the `SEQUENCE BY` clause in the CDC configuration.

Specifically, when both `update_timestamp` and `update_sequence_id` exist, the recommended approach is:

`SEQUENCE BY STRUCT(event_timestamp, update_sequence_id)`

This ensures that within the same record key, the engine applies updates in the exact sequence they occurred, resolving conflicts where multiple updates share the same timestamp but differ in sequence ID.

Option A (`track_history_column_list`) is used for historical tracking and auditing changes, not for sequencing logic. It ensures lineage but does not enforce correct event order.

Option B (dropDuplicates()) only removes exact duplicates; it cannot guarantee sequencing correctness when multiple updates exist. Option C is correct: SEQUENCE BY STRUCT(event\_timestamp, update\_sequence\_id) explicitly enforces ordering, as recommended by the CDC pipeline guidelines.

Option D (window function) would be a manual approach in Spark Structured Streaming, but Lakeflow Declarative Pipelines already provide native CDC sequencing support, making this unnecessary.

Thus, the best practice per Databricks CDC documentation is to use Option C with SEQUENCE BY STRUCT.

## NEW QUESTION # 83

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