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### Databricks Certified Professional Data Engineer Exam Sample Questions (Q58-Q63):

#### NEW QUESTION # 58

A Spark job is taking longer than expected. Using the Spark UI, a data engineer notes that the Min, Median, and Max Durations for tasks in a particular stage show the minimum and median time to complete a task as roughly the same, but the max duration for a task to be roughly 100 times as long as the minimum.

Which situation is causing increased duration of the overall job?

- A. Credential validation errors while pulling data from an external system.
- B. Spill resulting from attached volume storage being too small.
- C. Skew caused by more data being assigned to a subset of spark-partitions.

- D. Task queueing resulting from improper thread pool assignment.
- E. Network latency due to some cluster nodes being in different regions from the source data

**Answer: C**

Explanation:

This is the correct answer because skew is a common situation that causes increased duration of the overall job. Skew occurs when some partitions have more data than others, resulting in uneven distribution of work among tasks and executors. Skew can be caused by various factors, such as skewed data distribution, improper partitioning strategy, or join operations with skewed keys. Skew can lead to performance issues such as long-running tasks, wasted resources, or even task failures due to memory or disk spills. Verified Reference: [Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Skew" section.

### NEW QUESTION # 59

When writing streaming data, Spark's structured stream supports the below write modes

- A. Delta, Complete, Continuous
- **B. Append, Complete, Update**
- C. Complete, Incremental, Update
- D. Append, Delta, Complete
- E. Append, overwrite, Continuous

**Answer: B**

Explanation:

Explanation

The answer is Append, Complete, Update

\*Append mode (default) - This is the default mode, where only the new rows added to the Result Table since the last trigger will be outputted to the sink. This is supported for only those queries where rows added to the Result Table is never going to change.

Hence, this mode guarantees that each row will be output only once (assuming fault-tolerant sink). For example, queries with only select, where, map, flatMap, filter, join, etc. will support Append mode.

\*Complete mode - The whole Result Table will be outputted to the sink after every trigger. This is supported for aggregation queries.

\*Update mode - (Available since Spark 2.1.1) Only the rows in the Result Table that were updated since the last trigger will be outputted to the sink. More information to be added in future releases.

### NEW QUESTION # 60

A data engineer needs to install the PyYAML Python package for YAML file processing within their Databricks environment. However, the Databricks workspace is air-gapped and does not have direct internet access to download packages from PyPI. The engineer has already downloaded the required PyYAML wheel ( .whl ) file onto their laptop. The data engineer wants to install the PyYAML package from the local wheel file so that it is automatically available whenever any new cluster is provisioned in their Databricks workspace. Which approach should the data engineer use?

- A. Add the PyYAML.whl file directly to Databricks Git Repos and assume that any cluster linked to the Repo will automatically have PyYAML installed from that file.
- B. Set up a private PyPI repository, register the wheel there, and create a cluster-scoped init script that executes `/databricks/python/bin/pip install --index-url=https://{repo-url} PyYAML` on the cluster.
- **C. Upload the PyYAML.whl file to a Unity Catalog volume. Add the path to the Unity Catalog allowlist if required. Then create a cluster-scoped init script that executes `pip install /path/to/PyYAML.whl`.**
- D. Upload the PyYAML.whl file under the data engineer's user home directory in the Workspace, and create a cluster-scoped init script that executes `%pip install /path/to/PyYAML.whl` on the shared cluster.

**Answer: C**

Explanation:

Databricks documents that libraries and init scripts can be sourced from Unity Catalog volumes, and for standard access mode, relevant paths can require Unity Catalog allowlist configuration. Databricks also documents that init scripts run on every cluster startup, which is the mechanism that makes a package automatically available whenever a new cluster is provisioned. ( Databricks Documentation ) Option A fits the air-gapped requirement because it does not depend on internet access and uses a startup-time

installation mechanism. Option B still depends on reachable repository infrastructure. Option C is incorrect because %pip is notebook magic, not the correct form inside an init script. Option D is unsupported because storing a wheel in Git Repos does not automatically install it on cluster creation. ( Databricks Documentation )

### NEW QUESTION # 61

Which of the statements are correct about lakehouse?

- A. In Lakehouse Storage and compute are coupled
- B. Lakehouse only supports Machine learning workloads and Data warehouses support BI workloads
- C. Lakehouse only supports end-to-end streaming workloads and Data warehouses support Batch workloads
- **D. Lakehouse supports schema enforcement and evolution**
- E. Lakehouse does not support ACID

**Answer: D**

Explanation:

Explanation

The answer is Lakehouse supports schema enforcement and evolution,

Lakehouse using Delta lake can not only enforce a schema on write which is contrary to traditional big data systems that can only enforce a schema on read, it also supports evolving schema over time with the ability to control the evolution.

For example below is the Dataframe writer API and it supports three modes of enforcement and evolution, Default: Only enforcement, no changes are allowed and any schema drift/evolution will result in failure.

Merge: Flexible, supports enforcement and evolution

\* New columns are added

\* Evolves nested columns

\* Supports evolving data types, like Byte to Short to Integer to Bigint How to enable:

\* `DF.write.format("delta").option("mergeSchema", "true").saveAsTable("table_name")`

\* or

\* `spark.databricks.delta.schema.autoMerge = True` ## Spark session

Overwrite: No enforcement

\* Dropping columns

\* Change string to integer

\* Rename columns

How to enable:

\* `DF.write.format("delta").option("overwriteSchema", "True").saveAsTable("table_name")` What Is a Lakehouse? - The Databricks Blog Graphical user interface, text, application Description automatically generated

### NEW QUESTION # 62

A user wants to use DLT expectations to validate that a derived table report contains all records from the source, included in the table validation\_copy.

The user attempts and fails to accomplish this by adding an expectation to the report table definition.

Which approach would allow using DLT expectations to validate all expected records are present in this table?

- A. Define a SQL UDF that performs a left outer join on two tables, and check if this returns null values for report key values in a DLT expectation for the report table.
- **B. Define a view that performs a left outer join on validation\_copy and report, and reference this view in DLT expectations for the report table**
- C. Define a temporary table that perform a left outer join on validation\_copy and report, and define an expectation that no report key values are null
- D. Define a function that performs a left outer join on validation\_copy and report and report, and check against the result in a DLT expectation for the report table

**Answer: B**

Explanation:

To validate that all records from the source are included in the derived table, creating a view that performs a left outer join between the validation\_copy table and the report table is effective. The view can highlight any discrepancies, such as null values in the report table's key columns, indicating missing records. This view can then be referenced in DLT (Delta Live Tables) expectations for the

report table to ensure data integrity. This approach allows for a comprehensive comparison between the source and the derived table.

References:

\* Databricks Documentation on Delta Live Tables and Expectations: [Delta Live Tables Expectations](#)

## NEW QUESTION # 63

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