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## Reliable Databricks-Certified-Professional-Data-Engineer Exam Review - Databricks-Certified-Professional-Data-Engineer Free Sample

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The Databricks Certified Professional Data Engineer Exam certification verifies that the candidate has significant experience in implementing big data solutions that operate on the Databricks Delta Architecture. To earn the certification, a candidate must pass a 90-minute exam consisting of up to 50 multiple-choice and multiple-select questions. The Databricks-Certified-Professional-Data-Engineer Certification is valid for two years from the date of passing the exam.

## Databricks Certified Professional Data Engineer Exam Sample Questions

## (Q134-Q139):

### NEW QUESTION # 134

A data engineer needs to capture pipeline settings from an existing in the workspace, and use them to create and version a JSON file to create a new pipeline.

Which command should the data engineer enter in a web terminal configured with the Databricks CLI?

- A. Use the `clone` command to create a copy of an existing pipeline; use the `get JSON` command to get the pipeline definition; save this to git
- B. Use `list pipelines` to get the specs for all pipelines; get the pipeline spec from the return results parse and use this to create a pipeline
- C. Use the `get` command to capture the settings for the existing pipeline; remove the `pipeline_id` and rename the pipeline; use this in a `create` command
- D. Stop the existing pipeline; use the returned settings in a `reset` command

**Answer: C**

Explanation:

The Databricks CLI provides a way to automate interactions with Databricks services. When dealing with pipelines, you can use the `databricks pipelines get --pipeline-id` command to capture the settings of an existing pipeline in JSON format. This JSON can then be modified by removing the `pipeline_id` to prevent conflicts and renaming the pipeline to create a new pipeline. The modified JSON file can then be used with the `databricks pipelines create` command to create a new pipeline with those settings.

:

Databricks Documentation on CLI for Pipelines: Databricks CLI - Pipelines

### NEW QUESTION # 135

You are currently asked to work on building a data pipeline, you have noticed that you are currently working on a very large scale ETL many data dependencies, which of the following tools can be used to address this problem?

- A. JOBS and TASKS
- B. DELTA LIVE TABLES
- C. SQL Endpoints
- D. AUTO LOADER
- E. STRUCTURED STREAMING with MULTI HOP

**Answer: B**

Explanation:

Explanation

The answer is, DELTA LIVE TABLES

DLT simplifies data dependencies by building DAG-based joins between live tables. Here is a view of how the dag looks with data dependencies without additional meta data,

1.create or replace live view customers

2.select \* from customers;

3.

4.create or replace live view sales\_orders\_raw

5.select \* from sales\_orders;

6.

7.create or replace live view sales\_orders\_cleaned

8.as

9.select sales.\* from

10.live.sales\_orders\_raw s

11. join live.customers c

12.on c.customer\_id = s.customer\_id

13.where c.city = 'LA';

14.

15.create or replace live table sales\_orders\_in\_la

16.selects from sales\_orders\_cleaned;

Above code creates below dag

□ Documentation on DELTA LIVE TABLES,

<https://databricks.com/product/delta-live-tables>

<https://databricks.com/blog/2022/04/05/announcing-generally-availability-of-databricks-delta-live-tables-dlt.htm> DELTA LIVE TABLES, addresses below challenges when building ETL processes

1. Complexities of large scale ETL
  - a. Hard to build and maintain dependencies
  - b. Difficult to switch between batch and stream
2. Data quality and governance
  - a. Difficult to monitor and enforce data quality
  - b. Impossible to trace data lineage
3. Difficult pipeline operations
  - a. Poor observability at granular data level
  - b. Error handling and recovery is laborious

### NEW QUESTION # 136

The following table consists of items found in user carts within an e-commerce website.

- The following MERGE statement is used to update this table using an updates view, with schema evaluation enabled on this table.
- How would the following update be handled?

- A. The new restored field is added to the target schema, and dynamically read as NULL for existing unmatched records.
- **B. The new nested field is added to the target schema, and files underlying existing records are updated to include NULL values for the new field.**
- C. The update is moved to separate "restored" column because it is missing a column expected in the target schema.
- D. The update throws an error because changes to existing columns in the target schema are not supported.

**Answer: B**

Explanation:

With schema evolution enabled in Databricks Delta tables, when a new field is added to a record through a MERGE operation, Databricks automatically modifies the table schema to include the new field. In existing records where this new field is not present, Databricks will insert NULL values for that field. This ensures that the schema remains consistent across all records in the table, with the new field being present in every record, even if it is NULL for records that did not originally include it.

References:

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

### NEW QUESTION # 137

Which of the following commands can be used to query a delta table?

- A. 1.%sql  
2.Select \* from table\_name
- B. 1.%python  
2.delta.sql("select \* from table")
- C. 1.%python  
2.spark.sql("select \* from table\_name")
- **D. Both A & B**  
**(Correct)**
- E. 1.%python  
2.execute.sql("select \* from table")

**Answer: D**

Explanation:

Explanation

The answer is both options A and B

Options C and D are incorrect because there is no command in Spark called execute.sql or delta.sql

### NEW QUESTION # 138

Which of the following operations are not supported on a streaming dataset view?  
spark.readStream.format("delta").table("sales").createOrReplaceTempView("streaming\_view")

- A. SELECT id, sum(unitssold) FROM streaming\_view GROUP BY id ORDER BY id
- **B. SELECT \* FROM streaming\_view ORDER BY id**
- C. SELECT sum(unitssold) FROM streaming\_view
- D. SELECT max(unitssold) FROM streaming\_view
- E. SELECT id, count(\*) FROM streaming\_view GROUP BY id

**Answer: B**

Explanation:

Explanation

The answer is SELECT \* FROM streaming\_view order by id Please Note: Sorting with Group by will work without any issues see below explanation for each option of the options, Graphical user interface, text, application Description automatically generated

□ Certain operations are not allowed on streaming data, please see highlighted in bold.

<https://spark.apache.org/docs/latest/structured-streaming-programming-guide.html#unsupported-operations>

\* Multiple streaming aggregations (i.e. a chain of aggregations on a streaming DF) are not yet supported on streaming Datasets.

\* Limit and take the first N rows are not supported on streaming Datasets.

\* Distinct operations on streaming Datasets are not supported.

\* Deduplication operation is not supported after aggregation on a streaming Datasets.

\* Sorting operations are supported on streaming Datasets only after an aggregation and in Complete Output Mode.

Note: Sorting without aggregation function is not supported.

Here is the sample code to prove this,

Setup test stream

Graphical user interface, text, application, email Description automatically generated

□ Sum aggregation function has no issues on stream

Graphical user interface, application Description automatically generated

□ Max aggregation function has no issues on stream

Graphical user interface, application Description automatically generated

□ Group by with Order by has no issues on stream

□ Group by has no issues on stream

□ Table Description automatically generated

Order by without group by fails.

Graphical user interface, text, application Description automatically generated

## NEW QUESTION # 139

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