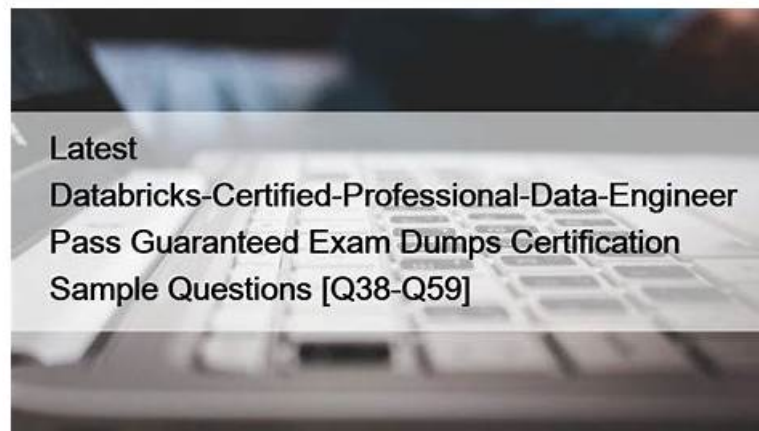


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The Databricks Certified Professional Data Engineer Exam (Databricks-Certified-Professional-Data-Engineer) certification exam is one of the hottest and most industrial-recognized credentials that has been inspiring beginners and experienced professionals since its beginning. With the Databricks-Certified-Professional-Data-Engineer certification exam successful candidates can gain a range of benefits which include career advancement, higher earning potential, industrial recognition of skills and job security, and more career personal and professional growth.

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## Training Databricks-Certified-Professional-Data-Engineer Materials | Databricks-Certified-Professional-Data-Engineer Exam Bible

Research indicates that the success of our highly-praised Databricks-Certified-Professional-Data-Engineer test questions owes to our endless efforts for the easily operated practice system. Most feedback received from our candidates tell the truth that our Databricks-Certified-Professional-Data-Engineer guide torrent implement good practices, systems as well as strengthen our ability to launch newer and more competitive products. In fact, you can totally believe in our Databricks-Certified-Professional-Data-Engineer Test Questions for us 100% guarantee you pass exam. If you unfortunately fail in the exam after using our Databricks-Certified-Professional-Data-Engineer test questions, you will also get a full refund from our company by virtue of the proof certificate.

Databricks is a cloud-based data analytics platform that provides solutions for data engineering, machine learning, and analytics. The Databricks-Certified-Professional-Data-Engineer (Databricks Certified Professional Data Engineer) Exam is a certification program designed to validate the skills and knowledge of data engineers working with the Databricks platform. Databricks-Certified-Professional-Data-Engineer exam is designed to assess the candidate's ability to design, implement, and manage data pipelines using Databricks.

Databricks is a leading cloud-based data platform that enables organizations to accelerate innovation and achieve their data-driven goals. To showcase their expertise in using the Databricks platform, data professionals can earn the Databricks-Certified-Professional-Data-Engineer (Databricks Certified Professional Data Engineer) certification. Databricks Certified Professional Data Engineer Exam certification is designed to validate the skills and knowledge required to design, build, and maintain data solutions on

the Databricks platform.

## Databricks Certified Professional Data Engineer Exam Sample Questions (Q182-Q187):

### NEW QUESTION # 182

Which of the following locations hosts the driver and worker nodes of a Databricks-managed cluster?

- **A. Data plane**
- B. Control plane
- C. Databricks Filesystem
- D. JDBC data source
- E. Databricks web application

**Answer: A**

Explanation:

Explanation

The answer is Data Plane, which is where compute(all-purpose, Job Cluster, DLT) are stored this is generally a customer cloud account, there is one exception SQL Warehouses, currently there are 3 types of SQL Warehouse compute available(classic, pro, serverless), in classic and pro compute is located in customer cloud account but serverless compute is located in Databricks cloud account.

Diagram, timeline Description automatically generated

□

### NEW QUESTION # 183

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

**Answer: E**

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 # 184

The business reporting team requires that data for their dashboards be updated every hour. The total processing time for the pipeline that extracts, transforms and loads the data for their pipeline runs in 10 minutes.

Assuming normal operating conditions, which configuration will meet their service-level agreement requirements with the lowest cost?

- A. Schedule a Structured Streaming job with a trigger interval of 60 minutes.
- B. Configure a job that executes every time new data lands in a given directory.
- C. Schedule a job to execute the pipeline once an hour on a dedicated interactive cluster.
- **D. Schedule a job to execute the pipeline once an hour on a new job cluster.**

**Answer: D**

Explanation:

Scheduling a job to execute the data processing pipeline once an hour on a new job cluster is the most cost-effective solution given the scenario. Job clusters are ephemeral in nature; they are spun up just before the job execution and terminated upon completion, which means you only incur costs for the time the cluster is active. Since the total processing time is only 10 minutes, a new job cluster created for each hourly execution minimizes the running time and thus the cost, while also fulfilling the requirement for hourly data updates for the business reporting team's dashboards.

References:

\* Databricks documentation on jobs and job clusters: <https://docs.databricks.com/jobs.html>

#### NEW QUESTION # 185

A data architect has heard about Delta Lake's built-in versioning and time travel capabilities. For auditing purposes they have a requirement to maintain a full history of all valid street addresses as they appear in the customers table.

The architect is interested in implementing a Type 1 table, overwriting existing records with new values and relying on Delta Lake time travel to support long-term auditing. A data engineer on the project feels that a Type 2 table will provide better performance and scalability.

Which piece of information is critical to this decision?

- A. Delta Lake time travel cannot be used to query previous versions of these tables because Type 1 changes modify data files in place.
- B. Data corruption can occur if a query fails in a partially completed state because Type 2 tables require setting multiple fields in a single update.
- C. Shallow clones can be combined with Type 1 tables to accelerate historic queries for long-term versioning.
- **D. Delta Lake time travel does not scale well in cost or latency to provide a long-term versioning solution.**

**Answer: D**

Explanation:

Delta Lake's time travel feature allows users to access previous versions of a table, providing a powerful tool for auditing and versioning. However, using time travel as a long-term versioning solution for auditing purposes can be less optimal in terms of cost and performance, especially as the volume of data and the number of versions grow. For maintaining a full history of valid street addresses as they appear in a customers table, using a Type 2 table (where each update creates a new record with versioning) might provide better scalability and performance by avoiding the overhead associated with accessing older versions of a large table. While Type 1 tables, where existing records are overwritten with new values, seem simpler and can leverage time travel for auditing, the critical piece of information is that time travel might not scale well in cost or latency for long-term versioning needs, making a Type 2

approach more viable for performance and scalability. References:

\* Databricks Documentation on Delta Lake's Time Travel: Delta Lake Time Travel

\* Databricks Blog on Managing Slowly Changing Dimensions in Delta Lake: Managing SCDs in Delta Lake

### NEW QUESTION # 186

The Delta Live Tables Pipeline is configured to run in Development mode using the Triggered Pipeline Mode. what is the expected outcome after clicking Start to update the pipeline?

- A. All datasets will be updated once and the pipeline will shut down. The compute resources will be terminated
- **B. All datasets will be updated continuously and the pipeline will not shut down. The compute resources will persist with the pipeline**
- C. All datasets will be updated once and the pipeline will shut down. The compute resources will persist to allow for additional development and testing
- D. All datasets will be updated at set intervals until the pipeline is shut down. The compute resources will be deployed for the update and terminated when the pipeline is stopped
- E. All datasets will be updated at set intervals until the pipeline is shut down. The compute resources will persist after the pipeline is stopped to allow for additional development and testing

**Answer: B**

Explanation:

Explanation

The answer is All datasets will be updated once and the pipeline will shut down. The compute re-sources will persist to allow for additional testing.

DLT pipeline supports two modes Development and Production, you can switch between the two based on the stage of your development and deployment lifecycle.

Development and production modes

When you run your pipeline in development mode, the Delta Live Tables system:

\*Reuses a cluster to avoid the overhead of restarts.

\*Disables pipeline retries so you can immediately detect and fix errors.

In production mode, the Delta Live Tables system:

\*Restarts the cluster for specific recoverable errors, including memory leaks and stale credentials.

\*Retries execution in the event of specific errors, for example, a failure to start a cluster.

Use the buttons in the Pipelines UI to switch between development and production modes. By default, pipelines run in development mode.

Switching between development and production modes only controls cluster and pipeline execution behavior.

Storage locations must be configured as part of pipeline settings and are not affected when switching between modes.

Please review additional DLT concepts using below link

<https://docs.databricks.com/data-engineering/delta-live-tables/delta-live-tables-concepts.html#delta-live-tables-c>

### NEW QUESTION # 187

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