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Databricks is a cloud-based data engineering platform that allows organizations to process large amounts of data quickly and efficiently. The platform leverages Apache Spark to perform data processing tasks and offers a wide range of tools and services to support data engineering workflows. Databricks also provides certification programs for data professionals who want to demonstrate their expertise in using the platform. One of these certifications is the Databricks Certified Professional Data Engineer exam.

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## **Databricks Certified Professional Data Engineer Exam Sample Questions (Q171-Q176):**

### **NEW QUESTION # 171**

A member of the data engineering team has submitted a short notebook that they wish to schedule as part of a larger data pipeline. Assume that the commands provided below produce the logically correct results when run as presented.

Which command should be removed from the notebook before scheduling it as a job?

- A. Cmd 4
- B. Cmd 3
- **C. Cmd 6**
- D. Cmd 5
- E. Cmd 2

**Answer: C**

Explanation:

Cmd 6 is the command that should be removed from the notebook before scheduling it as a job. This command is selecting all the columns from the finalDF dataframe and displaying them in the notebook. This is not necessary for the job, as the finalDF dataframe is already written to a table in Cmd 7. Displaying the dataframe in the notebook will only consume resources and time, and it will not affect the output of the job. Therefore, Cmd 6 is redundant and should be removed.

The other commands are essential for the job, as they perform the following tasks:

Cmd 1: Reads the raw\_data table into a Spark dataframe called rawDF.

Cmd 2: Prints the schema of the rawDF dataframe, which is useful for debugging and understanding the data structure.

Cmd 3: Selects all the columns from the rawDF dataframe, as well as the nested columns from the values struct column, and creates a new dataframe called flattenedDF.

Cmd 4: Drops the values column from the flattenedDF dataframe, as it is no longer needed after flattening, and creates a new dataframe called finalDF.

Cmd 5: Explains the physical plan of the finalDF dataframe, which is useful for optimizing and tuning the performance of the job.

Cmd 7: Writes the finalDF dataframe to a table called flat\_data, using the append mode to add new data to the existing table.

#### NEW QUESTION # 172

What is a method of installing a Python package scoped at the notebook level to all nodes in the currently active cluster?

- A. Use &sh install in a notebook cell
- B. Run source env/bin/activate in a notebook setup script
- C. Use &Pip install in a notebook cell
- **D. Install libraries from PyPi using the cluster UI**

**Answer: D**

Explanation:

Installing a Python package scoped at the notebook level to all nodes in the currently active cluster in Databricks can be achieved by using the Libraries tab in the cluster UI. This interface allows you to install libraries across all nodes in the cluster. While the %pip command in a notebook cell would only affect the driver node, using the cluster UI ensures that the package is installed on all nodes.

References:

\* Databricks Documentation on Libraries: Libraries

#### NEW QUESTION # 173

A data engineering team is setting up deployment automation. To deploy workspace assets remotely using the Databricks CLI command, they must configure it with proper authentication.

Which authentication approach will provide the highest level of security?

- A. Use a service principal and its Personal Access Token.
- **B. Use a service principal with OAuth token federation.**
- C. Use a service principal ID and its OAuth client secret.
- D. Use a shared user account and its OAuth client secret.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

The most secure and enterprise-recommended authentication method for Databricks automation is OAuth token federation with service principals.

This configuration allows service principals (non-human identities) to authenticate using temporary OAuth access tokens from a trusted identity provider (such as Azure AD or AWS IAM federation). These tokens are short-lived and scoped, significantly

reducing credential exposure risks.

By contrast, static client secrets (B) or PATs (C) are long-lived and require periodic manual rotation, increasing security vulnerability. Shared user accounts (D) violate least-privilege and auditability principles. Therefore, A provides the strongest, most compliant authentication model for automated CLI and CI/CD workflows.

#### NEW QUESTION # 174

A nightly job ingests data into a Delta Lake table using the following code:

□ The next step in the pipeline requires a function that returns an object that can be used to manipulate new records that have not yet been processed to the next table in the pipeline.

Which code snippet completes this function definition?

def new\_records():

A . return spark.readStream.table("bronze")

B . return spark.readStream.load("bronze")

C .

□ D .

return spark.read.option("readChangeFeed", "true").table ("bronze")

E .

□

- A. Option E
- B. Option C
- C. Option A
- D. Option D
- E. Option B

**Answer: A**

Explanation:

<https://docs.databricks.com/en/delta/delta-change-data-feed.html>

#### NEW QUESTION # 175

A data engineering team is configuring access controls in Databricks Unity Catalog. They grant the SELECT privilege on the sales catalog to the analyst\_group, expecting that members of this group will automatically have SELECT access to all current and future schemas, tables, and views within the catalog.

What describes the privilege inheritance behavior in Unity Catalog?

- A. Privileges in Unity Catalog do not cascade; SELECT must be explicitly granted on each schema and table, even if granted at the catalog level.
- B. Granting SELECT on a catalog automatically applies SELECT to all current and future schemas, tables, and views within that catalog.
- C. Granting SELECT at the catalog level applies to existing schemas and tables but not to those created in the future.
- D. Privileges granted at the schema level override any catalog-level privileges and prevent access unless explicitly revoked.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

In Unity Catalog, privileges are non-cascading—meaning that granting a privilege (like SELECT) on a catalog does not automatically grant the same privilege on contained objects (schemas, tables, or views). Each object type has its own independent access control hierarchy.

According to the Databricks access control documentation: "Privileges do not automatically cascade from catalog to schema or table levels." Administrators must explicitly grant privileges on each level if users need access across objects. This design ensures tighter governance and least-privilege enforcement. Therefore, option B correctly describes Unity Catalog's privilege model, while A and D incorrectly imply automatic inheritance.

#### NEW QUESTION # 176

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