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Databricks Certified Data Engineer Professional Exam Sample Questions (Q71-Q76):

NEW QUESTION # 71

A small company based in the United States has recently contracted a consulting firm in India to implement several new data engineering pipelines to power artificial intelligence applications. All the company's data is stored in regional cloud storage in the United States.

The workspace administrator at the company is uncertain about where the Databricks workspace used by the contractors should be deployed.

Assuming that all data governance considerations are accounted for, which statement accurately informs this decision?

- A. Databricks runs HDFS on cloud volume storage; as such, cloud virtual machines must be deployed in the region where the data is stored.

- B. Databricks workspaces do not rely on any regional infrastructure; as such, the decision should be Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from made based upon what is most convenient for the workspace administrator.
- **C. Cross-region reads and writes can incur significant costs and latency; whenever possible, compute should be deployed in the same region the data is stored.**
- D. Databricks leverages user workstations as the driver during interactive development; as such, users should always use a workspace deployed in a region they are physically near.
- E. Databricks notebooks send all executable code from the user's browser to virtual machines over the open internet; whenever possible, choosing a workspace region near the end users is the most secure.

Answer: C

Explanation:

This is the correct answer because it accurately informs this decision. The decision is about where the Databricks workspace used by the contractors should be deployed. The contractors are based in India, while all the company's data is stored in regional cloud storage in the United States. When choosing a region for deploying a Databricks workspace, one of the important factors to consider is the proximity to the data sources and sinks. Cross-region reads and writes can incur significant costs and latency due to network bandwidth and data transfer fees.

Therefore, whenever possible, compute should be deployed in the same region the data is stored to optimize performance and reduce costs.

NEW QUESTION # 72

An external object storage container has been mounted to the location /mnt/finance_eda_bucket.
The following logic was executed to create a database for the finance team:

```
CREATE DATABASE finance_eda_db
LOCATION '/mnt/finance_eda_bucket';
GRANT USAGE ON DATABASE finance_eda_db TO finance;
GRANT CREATE ON DATABASE finance_eda_db TO finance;
```

After the database was successfully created and permissions configured, a member of the finance team runs the following code:

```
CREATE TABLE finance_eda_db.tx_sales AS
SELECT *
FROM sales
WHERE status = "TX";
```

If all users on the finance team are members of the finance group, which statement describes how the tx_sales table will be created?

- A. A logical table will persist the physical plan to the Hive Metastore in the Databricks control plane.
- B. A managed table will be created in the DBFS root storage container.
- C. A logical table will persist the query plan to the Hive Metastore in the Databricks control plane.
- **D. An managed table will be created in the storage container mounted to /mnt/finance_eda_bucket.**
- E. An external table will be created in the storage container mounted to /mnt/finance_eda_bucket.

Answer: D

Explanation:

<https://docs.databricks.com/en/data-governance/unity-catalog/create-schemas.html#language-SQL>

NEW QUESTION # 73

Which statement describes Delta Lake optimized writes?

- A. Before a job cluster terminates, OPTIMIZE is executed on all tables modified during the most recent job.
- **B. A shuffle occurs prior to writing to try to group data together resulting in fewer files instead of each executor writing multiple files based on directory partitions.**
- C. Optimized writes logical partitions instead of directory partitions partition boundaries are only represented in metadata fewer small files are written.
- D. An asynchronous job runs after the write completes to detect if files could be further compacted; yes, an OPTIMIZE job is executed toward a default of 1 GB.

Answer: B

Explanation:

Delta Lake optimized writes involve a shuffle operation before writing out data to the Delta table.

The shuffle operation groups data by partition keys, which can lead to a reduction in the number of output files and potentially larger files, instead of multiple smaller files. This approach can significantly reduce the total number of files in the table, improve read performance by reducing the metadata overhead, and optimize the table storage layout, especially for workloads with many small files.

NEW QUESTION # 74

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

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

Answer: C

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.

NEW QUESTION # 75

A Databricks SQL dashboard has been configured to monitor the total number of records present in a collection of Delta Lake tables using the following query pattern:

```
SELECT COUNT (*) FROM table
```

Which of the following describes how results are generated each time the dashboard is updated?

- A. The total count of records is calculated from the Hive metastore
- B. The total count of rows is calculated by scanning all data files
- C. The total count of records is calculated from the parquet file metadata
- D. The total count of records is calculated from the Delta transaction logs
- E. The total count of rows will be returned from cached results unless REFRESH is run

Answer: D

Explanation:

Delta Lake maintains a transaction log that records details about every change made to a table.

When you execute a count operation on a Delta table, Delta Lake can use the information in the transaction log to calculate the total number of records without having to scan all the data files.

This is because the transaction log includes information about the number of records in each file, allowing for an efficient aggregation of these counts to get the total number of records in the table.

NEW QUESTION # 76

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