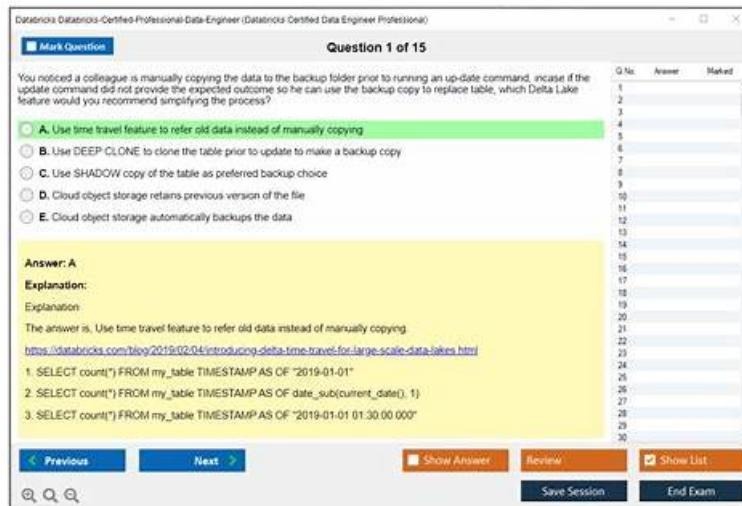


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41

Newly joined data analyst requested read-only access to tables, assuming you are owner/admin which section of Databricks platform is going to facilitate granting select access to the user

- A. Data explorer
- B. Azure Databricks control pane IAM
- C. Admin console
- D. Azure RBAC
- E. User settings

Answer: A

Explanation:

Explanation

Answer is Data Explorer

<https://docs.databricks.com/sql/user/data/index.html>

Data explorer lets you easily explore and manage permissions on databases and tables. Users can view schema details, preview sample data, and see table details and properties. Administrators can view and change owners, and admins and data object owners can grant and revoke permissions.

To open data explorer, click Data in the sidebar.

NEW QUESTION # 42

The marketing team is launching a new campaign to monitor the performance of the new campaign for the first two weeks, they would like to set up a dashboard with a refresh schedule to run every 5 minutes, which of the below steps can be taken to reduce of the cost of this refresh over time?

- A. Setup the dashboard refresh schedule to end in two weeks
- B. Reduce the max size of auto scaling from 10 to 5
- C. Reduce the size of the SQL Cluster size
- D. Change the spot instance policy from reliability optimized to cost optimized
- E. Always use X-small cluster

Answer: A

Explanation:

Explanation

The answer is Setup the dashboard refresh schedule to end in two weeks

NEW QUESTION # 43

The data governance team has instituted a requirement that all tables containing Personal Identifiable Information (PII) must be clearly annotated. This includes adding column comments, table comments, and setting the custom table property "contains_pii" = true.

The following SQL DDL statement is executed to create a new table:

Which command allows manual confirmation that these three requirements have been met?

- A. DESCRIBE EXTENDED dev.pii test
- B. SHOW TABLES dev
- C. DESCRIBE DETAIL dev.pii test
- D. DESCRIBE HISTORY dev.pii test
- E. SHOW TBLPROPERTIES dev.pii test

Answer: A

Explanation:

This is the correct answer because it allows manual confirmation that these three requirements have been met.

The requirements are that all tables containing Personal Identifiable Information (PII) must be clearly annotated, which includes adding column comments, table comments, and setting the custom table property

"contains_pii" = true. The DESCRIBE EXTENDED command is used to display detailed information about a table, such as its schema, location, properties, and comments. By using this command on the dev.pii_test table, one can verify that the table has been created with the correct column comments, table comment, and custom table property as specified in the SQL DDL statement.

Verified References: [Databricks Certified Data Engineer Professional], under "Lakehouse" section; Databricks Documentation, under "DESCRIBE EXTENDED" section.

NEW QUESTION # 44

A junior data engineer has been asked to develop a streaming data pipeline with a grouped aggregation using DataFrame df. The pipeline needs to calculate the average humidity and average temperature for each non-overlapping five-minute interval. Incremental state information should be maintained for 10 minutes for late-arriving data.

Streaming DataFrame df has the following schema:

"device_id INT, event_time TIMESTAMP, temp FLOAT, humidity FLOAT"

Code block:

Choose the response that correctly fills in the blank within the code block to complete this task.

- A. slidingWindow("event_time", "10 minutes")
- B. **withWatermark("event_time", "10 minutes")**
- C. awaitArrival("event_time", "10 minutes")
- D. await("event_time + '10 minutes'")
- E. delayWrite("event_time", "10 minutes")

Answer: B

Explanation:

The correct answer is A. withWatermark("event_time", "10 minutes"). This is because the question asks for incremental state information to be maintained for 10 minutes for late-arriving data. The withWatermark method is used to define the watermark for late data. The watermark is a timestamp column and a threshold that tells the system how long to wait for late data. In this case, the watermark is set to 10 minutes. The other options are incorrect because they are not valid methods or syntax for watermarking in Structured Streaming. References:

* Watermarking: <https://docs.databricks.com/spark/latest/structured-streaming/watermarks.html>

* Windowed aggregations: <https://docs.databricks.com/spark/latest/structured-streaming/window-operations.html>

NEW QUESTION # 45

An analytics team wants to run a short-term experiment in Databricks SQL on the customer transactions Delta table (about 20 billion records) created by the data engineering team. Which strategy should the data engineering team use to ensure minimal downtime and no impact on the ongoing ETL processes?

- **A. Shallow clone the table for the analytics team.**
- B. Give the analytics team direct access to the production table.
- C. Create a new table for the analytics team using a CTAS statement.
- D. Deep clone the table for the analytics team.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "A shallow clone creates a copy of the metadata that references the source data files; it is fast and inexpensive." Exact extract: "A deep clone copies the data." Exact extract: "Clones provide a point-in-time snapshot for experimentation without impacting the source." A shallow clone of the production Delta table creates an instantaneous snapshot that references the same data files, so it introduces virtually no downtime or storage overhead and avoids interfering with the ongoing ETL. A deep clone would copy all data (very expensive and slow for 20B rows). CTAS rewrites data and is unnecessary; direct access to prod risks contention and accidental changes.

NEW QUESTION # 46

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