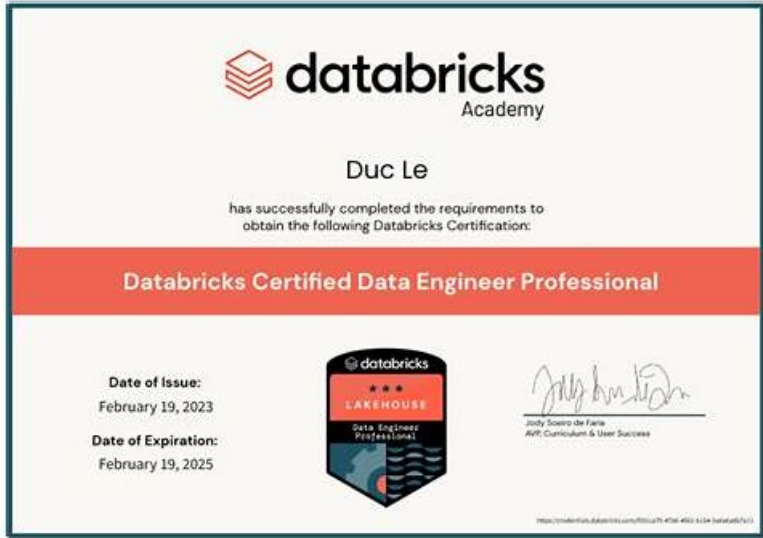


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13

A table named `user_ltv` is being used to create a view that will be used by data analysts on various teams. Users in the workspace are configured into groups, which are used for setting up data access using ACLs.

The `user_ltv` table has the following schema:

`email` STRING, `age` INT, `ltv` INT

The following view definition is executed:

```
CREATE VIEW email_ltv AS
SELECT
CASE WHEN
  is_member('marketing') THEN email
ELSE 'REDACTED'
END AS email,
ltv
FROM user_ltv
```

An analyst who is not a member of the marketing group executes the following query:

```
SELECT * FROM email_ltv
```

Which statement describes the results returned by this query?

- A. The `email`, `age`, and `ltv` columns will be returned with the values in `user_ltv`.
- B. Three columns will be returned, but one column will be named "redacted" and contain only null values.
- C. The `email` and `ltv` columns will be returned with the values in `user_ltv`.
- **D. Only the `email` and `ltv` columns will be returned; the `email` column will contain the string "REDACTED" in each row.**
- E. Only the `email` and `ltv` columns will be returned; the `email` column will contain all null values.

Answer: D

Explanation:

Explanation

The code creates a view called `email_ltv` that selects the `email` and `ltv` columns from a table called `user_ltv`, which has the following schema: `email` STRING, `age` INT, `ltv` INT. The code also uses the CASE WHEN expression to replace the `email` values with the string "REDACTED" if the user is not a member of the marketing group. The user who executes the query is not a member of the marketing group, so they will only see the `email` and `ltv` columns, and the `email` column will contain the string "REDACTED" in each row.

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

NEW QUESTION # 14

Which method is used to solve for coefficients b_0, b_1, \dots, b_n in your linear regression model:

$$Y = b_0 + b_1x_1 + b_2x_2 + \dots + b_nx_n$$

- **A. Ordinary Least squares**
- B. Integer programming
- C. Ridge and Lasso
- D. Apriori Algorithm

Answer: A

Explanation:

Explanation: $RY = b_0 + b_1x_1 + b_2x_2 + \dots + b_nx_n$

In the linear model, the b_i 's represent the unknown parameters. The estimates for these unknown parameters

are chosen so that, on average, the model provides a reasonable estimate of a person's income based on age and education. In other words, the fitted model should minimize the overall error between the linear model and the actual observations. Ordinary Least Squares (OLS) is a common technique to estimate the parameters

NEW QUESTION # 15

Which statement describes Delta Lake Auto Compaction?

- A. Before a Jobs cluster terminates, optimize is executed on all tables modified during the most recent job.
- B. An asynchronous job runs after the write completes to detect if files could be further compacted; if yes, an optimize job is executed toward a default of 1 GB.
- C. Optimized writes use logical partitions instead of directory partitions; because partition boundaries are only represented in metadata, fewer small files are written.
- D. Data is queued in a messaging bus instead of committing data directly to memory; all data is committed from the messaging bus in one batch once the job is complete.
- E. An asynchronous job runs after the write completes to detect if files could be further compacted; if yes, an optimize job is executed toward a default of 128 MB.

Answer: E

Explanation:

This is the correct answer because it describes the behavior of Delta Lake Auto Compaction, which is a feature that automatically optimizes the layout of Delta Lake tables by coalescing small files into larger ones.

Auto Compaction runs as an asynchronous job after a write to a table has succeeded and checks if files within a partition can be further compacted. If yes, it runs an optimize job with a default target file size of 128 MB.

Auto Compaction only compacts files that have not been compacted previously. Verified References:

[Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Auto Compaction for Delta Lake on Databricks" section.

"Auto compaction occurs after a write to a table has succeeded and runs synchronously on the cluster that has performed the write.

Auto compaction only compacts files that haven't been compacted previously."

<https://learn.microsoft.com/en-us/azure/databricks/delta/tune-file-size>

NEW QUESTION # 16

A table is registered with the following code:

```
CREATE TABLE recent_orders AS (  
  SELECT a.user_id, a.email, b.order_id, b.order_date  
  FROM  
    (SELECT user_id, email  
     FROM users) a  
  INNER JOIN  
    (SELECT user_id, order_id, order_date  
     FROM orders  
     WHERE order_date >= (current_date() - 7)) b  
  ON a.user_id = b.user_id  
)
```

Both users and orders are Delta Lake tables. Which statement describes the results of querying recent_orders?

- A. All logic will execute at query time and return the result of joining the valid versions of the source tables at the time the query finishes.
- B. All logic will execute at query time and return the result of joining the valid versions of the source tables at the time the query began.
- C. The versions of each source table will be stored in the table transaction log; query results will be saved to DBFS with each query.
- D. All logic will execute when the table is defined and store the result of joining tables to the DBFS; this stored data will be returned when the table is queried.
- E. Results will be computed and cached when the table is defined; these cached results will incrementally update as new records are inserted into source tables.

Answer: D

NEW QUESTION # 17

When scheduling Structured Streaming jobs for production, which configuration automatically recovers from query failures and keeps costs low?

- A. Cluster: Existing All-Purpose Cluster;
Retries: None;
Maximum Concurrent Runs: 1
- B. Cluster: Existing All-Purpose Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: 1
- C. Cluster: New Job Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: Unlimited
- D. Cluster: Existing All-Purpose Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: 1
- **E. Cluster: New Job Cluster;
Retries: None;
Maximum Concurrent Runs: 1**

Answer: E

Explanation:

Explanation

This is the best configuration for scheduling Structured Streaming jobs for production, as it automatically recovers from query failures and keeps costs low. A new job cluster is created for each run of the job and terminated when the job completes, which saves costs and avoids resource contention. Retries are not needed for Structured Streaming jobs, as they can automatically recover from failures using checkpointing and write-ahead logs. Maximum concurrent runs should be set to 1 to avoid duplicate output or data loss. Verified References: Databricks Certified Data Engineer Professional, under "Monitoring & Logging" section; Databricks Documentation, under "Schedule streaming jobs" section.

NEW QUESTION # 18

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