

Databricks-Certified-Professional-Data-Engineer Real Dump, Hot Databricks-Certified-Professional-Data-Engineer Spot Questions



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The Databricks Databricks-Certified-Professional-Data-Engineer exam consists of multiple-choice questions and hands-on exercises designed to test the candidate's knowledge and skills in working with Databricks. Candidates who pass the exam will be awarded the Databricks Certified Professional Data Engineer certification, which is recognized by employers worldwide as a validation of the candidate's expertise and proficiency in building and maintaining data pipelines using Databricks. Overall, the Databricks Certified Professional Data Engineer certification exam is a valuable credential for anyone looking to advance their career in big data engineering and analytics.

Databricks Certified Professional Data Engineer (Databricks-Certified-Professional-Data-Engineer) Exam is a certification program designed for individuals who want to demonstrate their expertise in building, deploying, and maintaining data engineering solutions using Databricks. Databricks-Certified-Professional-Data-Engineer Exam is intended for data engineers, data architects, and other data professionals who work with large-scale data processing systems and want to validate their skills and knowledge in this area.

>> **Databricks-Certified-Professional-Data-Engineer Real Dump** <<

Databricks-Certified-Professional-Data-Engineer Real Dump - 100% Pass Quiz 2025 Databricks-Certified-Professional-Data-Engineer: Databricks Certified Professional Data Engineer Exam First-grade Hot Spot Questions

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q149-Q154):

NEW QUESTION # 149

What is the purpose of gold layer in Multi hop architecture?

- A. Optimizes ETL throughput and analytic query performance
- B. Eliminate duplicate records
- C. Optimized query performance for business-critical data
- D. Data quality checks and schema enforcement
- E. Preserves grain of original data, without any aggregations

Answer: C

Explanation:

Explanation

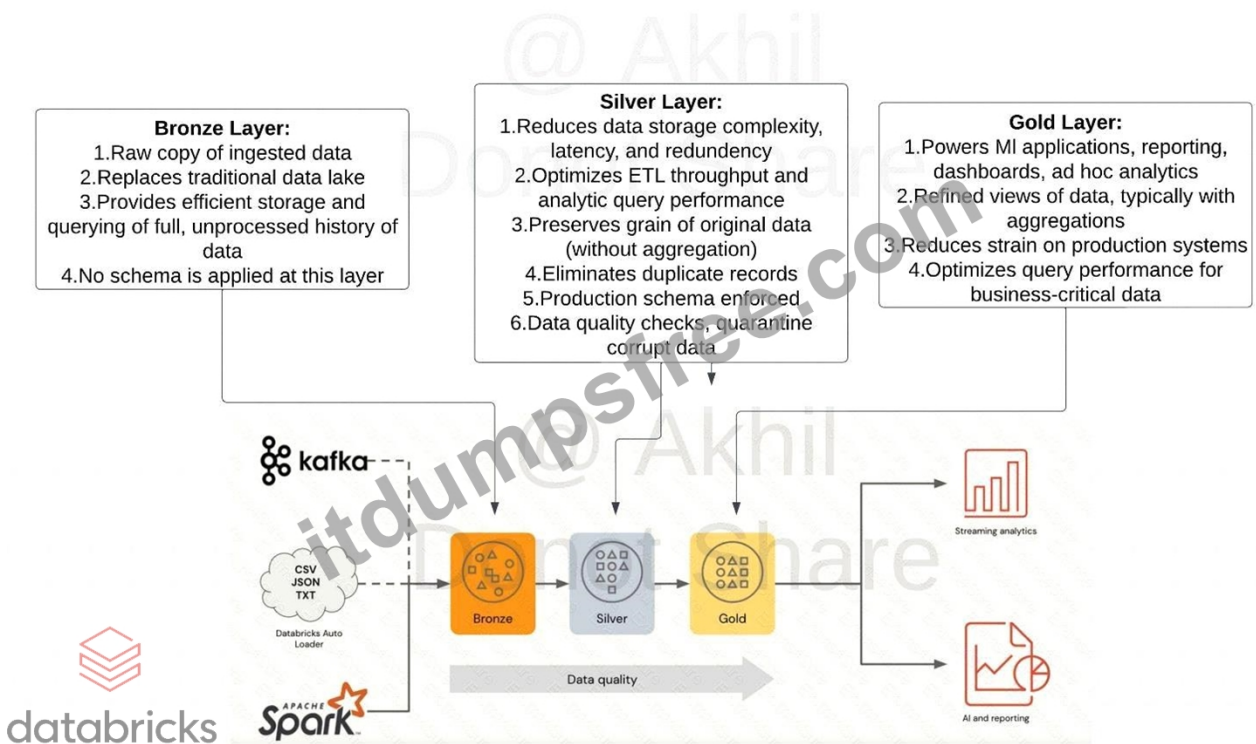
Medallion Architecture - Databricks

Gold Layer:

1. Powers ML applications, reporting, dashboards, ad hoc analytics
2. Refined views of data, typically with aggregations
3. Reduces strain on production systems
4. Optimizes query performance for business-critical data

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

Sorry I had to add the watermark some people in Udeny are copying my content.



NEW QUESTION # 150

A production workload incrementally applies updates from an external Change Data Capture feed to a Delta Lake table as an always-on Structured Stream job. When data was initially migrated for this table, OPTIMIZE was executed and most data files were resized to 1 GB. Auto Optimize and Auto Compaction were both turned on for the streaming production job. Recent review of data files shows that most data files are under 64 MB, although each partition in the table contains at least 1 GB of data and the total table size is over 10 TB.

Which of the following likely explains these smaller file sizes?

- A. Databricks has autotuned to a smaller target file size to reduce duration of MERGE operations
- B. Z-order indices calculated on the table are preventing file compaction
- C. Bloom filter indices calculated on the table are preventing file compaction
- D. Databricks has autotuned to a smaller target file size based on the overall size of data in the table
- E. Databricks has autotuned to a smaller target file size based on the amount of data in each partition

Answer: A

Explanation:

This is the correct answer because Databricks has a feature called Auto Optimize, which automatically optimizes the layout of Delta Lake tables by coalescing small files into larger ones and sorting data within each file by a specified column. However, Auto Optimize also considers the trade-off between file size and merge performance, and may choose a smaller target file size to reduce the duration of merge operations, especially for streaming workloads that frequently update existing records. Therefore, it is possible that Auto Optimize has autotuned to a smaller target file size based on the characteristics of the streaming production job. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Auto Optimize" section.

<https://docs.databricks.com/en/delta/tune-file-size.html#autotune-table> 'Autotune file size based on workload'

NEW QUESTION # 151

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

Answer: C

Explanation:

<https://docs.databricks.com/en/lakehouse/data-objects.html>

NEW QUESTION # 152

The view updates represents an incremental batch of all newly ingested data to be inserted or updated in the customers table.

The following logic is used to process these records.

Which statement describes this implementation?

- A. The customers table is implemented as a Type 1 table; old values are overwritten by new values and no history is maintained.
- B. The customers table is implemented as a Type 2 table; old values are maintained but marked as no longer current and new values are inserted.
- C. The customers table is implemented as a Type 3 table; old values are maintained as a new column alongside the current value.
- D. The customers table is implemented as a Type 0 table; all writes are append only with no changes to existing values.
- E. The customers table is implemented as a Type 2 table; old values are overwritten and new customers are appended.

Answer: C

Explanation:

The logic uses the MERGE INTO command to merge new records from the view updates into the table customers. The MERGE

INTO command takes two arguments: a target table and a source table or view. The command also specifies a condition to match records between the target and the source, and a set of actions to perform when there is a match or not. In this case, the condition is to match records by `customer_id`, which is the primary key of the customers table. The actions are to update the existing record in the target with the new values from the source, and set the `current_flag` to false to indicate that the record is no longer current; and to insert a new record in the target with the new values from the source, and set the `current_flag` to true to indicate that the record is current. This means that old values are maintained but marked as no longer current and new values are inserted, which is the definition of a Type 2 table. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Merge Into (Delta Lake on Databricks)" section.

NEW QUESTION # 153

The data science team has created and logged a production using MLflow. The model accepts a list of column names and returns a new column of type DOUBLE.

The following code correctly imports the production model, load the customer table containing the `customer_id` key column into a DataFrame, and defines the feature columns needed for the model.

```
model = mlflow.pyfunc.spark_udf(spark, model_uri="models:/churn/prod")
df = spark.table("customers")
columns = ["account_age", "time_since_last_seen", "app_rating"]
```

Which code block will output DataFrame with the schema "customer_id LONG, predictions DOUBLE"?

- A. `Df. Select ("customer_id". Model ("columns") alias ("predictions"))`
- B. `Df. map (lambda k:midel (x [columns]) ,select ("customer_id predictions"))`
- C. `Df.apply(model, columns). Select ("customer_id, prediction"`
- **D. `Model. predict (df, columns)`**

Answer: D

Explanation:

Given the information that the model is registered with MLflow and assuming `predict` is the method used to apply the model to a set of columns, we use the `model.predict()` function to apply the model to the DataFrame `df` using the specified columns. The `model.predict()` function is designed to take in a DataFrame and a list of column names as arguments, applying the trained model to these features to produce a predictions column. When working with PySpark, this predictions column needs to be selected alongside the `customer_id` to create a new DataFrame with the schema `customer_id LONG, predictions DOUBLE`.

Reference:

MLflow documentation on using Python function models: <https://www.mlflow.org/docs/latest/models.html#python-function-python>

PySpark MLlib documentation on model prediction: <https://spark.apache.org/docs/latest/ml-pipeline.html#pipeline>

NEW QUESTION # 154

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