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Databricks Certified Professional Data Engineer Exam Sample Questions (Q166-Q171):

NEW QUESTION # 166

Which of the statement is correct about the cluster pools?

- A. Cluster pools allow you to save time when starting a new cluster
- B. Cluster pools allow you to have all the nodes in the cluster from single physical server rack
- C. Cluster pools allow you to create a cluster
- D. Cluster pools allow you to perform load balancing
- E. Cluster pools are used to share resources among multiple teams

Answer: A

NEW QUESTION # 167

A junior data engineer is working to implement logic for a Lakehouse table named `silver_device_recordings`.

The source data contains 100 unique fields in a highly nested JSON structure.

The `silver_device_recordings` table will be used downstream for highly selective joins on a number of fields, and will also be leveraged by the machine learning team to filter on a handful of relevant fields, in total, 15 fields have been identified that will often be used for filter and join logic.

The data engineer is trying to determine the best approach for dealing with these nested fields before declaring the table schema.

Which of the following accurately presents information about Delta Lake and Databricks that may impact their decision-making process?

- A. By default Delta Lake collects statistics on the first 32 columns in a table; these statistics are leveraged for data skipping when executing selective queries.
- B. Tungsten encoding used by Databricks is optimized for storing string data: newly-added native support for querying JSON strings means that string types are always most efficient.
- C. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- D. Because Delta Lake uses Parquet for data storage, Dremel encoding information for nesting can be directly referenced by the Delta transaction log.

Answer: A

Explanation:

Delta Lake, built on top of Parquet, enhances query performance through data skipping, which is based on the statistics collected for each file in a table. For tables with a large number of columns, Delta Lake by default collects and stores statistics only for the first 32 columns. These statistics include min/max values and null counts, which are used to optimize query execution by skipping irrelevant data files. When dealing with highly nested JSON structures, understanding this behavior is crucial for schema design, especially when determining which fields should be flattened or prioritized in the table structure to leverage data skipping efficiently for performance optimization. References: Databricks documentation on Delta Lake optimization techniques, including data skipping and statistics collection (<https://docs.databricks.com/delta/optimizations/index.html>).

NEW QUESTION # 168

A streaming video analytics team ingests billions of events daily into a Unity Catalog-managed Delta table `video_events`. Analysts run ad-hoc point-lookup queries on columns like `user_id`, `campaign_id`, and `region`.

The team manually runs `OPTIMIZE video_events ZORDER BY (user_id, campaign_id, region)`, but still sees poor performance on recent data and dislikes the operational overhead. The team wants a hands-off way to keep hot columns co-located as query patterns evolve.

- A. Enable Delta caching.
- B. Schedule `OPTIMIZE/ZORDER` to run after each job to improve recent file performance.
- C. Utilize Liquid Clustering (`CLUSTER BY AUTO`) and Predictive Optimization.
- D. Enable auto-compaction (`optimizeWrite` and `autoCompact`).

Answer: C

Explanation:

According to Databricks Delta Lake optimization documentation, Liquid Clustering is a next-generation file organization capability that automatically manages file co-location without requiring explicit partitioning or manual Z-ORDERing. When combined with Predictive Optimization, Databricks automatically maintains clustering across frequently filtered or queried columns, adapting dynamically as query workloads evolve.

This approach eliminates the need for manual maintenance (such as periodic `OPTIMIZE` or `Z-ORDER` commands) while improving query performance on large tables-particularly for high-ingest streaming workloads.

Delta caching (B) only improves performance for cached queries and does not address file layout issues, and (D) handles file size optimization but not clustering. Thus, C is the most efficient, modern, and low-maintenance solution recommended by Databricks.

NEW QUESTION # 169

While investigating a performance issue, you realized that you have too many small files for a given table, which command are you going to run to fix this issue

- A. `MERGE table_name`

- B. SHRINK table_name
- C. COMPACT table_name
- D. VACUUM table_name
- E. OPTIMIZE table_name

Answer: E

Explanation:

Explanation

The answer is OPTIMIZE table_name,

Optimize compacts small parquet files into a bigger file, by default the size of the files are determined based on the table size at the time of OPTIMIZE, the file size can also be set manually or adjusted based on the workload.

<https://docs.databricks.com/delta/optimizations/file-mgmt.html>

Tune file size based on Table size

To minimize the need for manual tuning, Databricks automatically tunes the file size of Delta tables based on the size of the table.

Databricks will use smaller file sizes for smaller tables and larger file sizes for larger tables so that the number of files in the table does not grow too large.

Table Description automatically generated

Bottom of Form

Top of Form

NEW QUESTION # 170

The data engineering team maintains the following code:

```

accountDF = spark.table("accounts")
orderDF = spark.table("orders")
itemDF = spark.table("items")

orderWithItemDF = (orderDF.join(
    itemDF,
    orderDF.itemID == itemDF.itemID)
    .select(
        orderDF.accountID,
        orderDF.itemID,

        itemDF.itemName))

finalDF = (accountDF.join(
    orderWithItemDF,
    accountDF.accountID == orderWithItemDF.accountID)
    .select(
        orderWithItemDF["*"],

        accountDF.city))

(finalDF.write
    .mode("overwrite")
    .table("enriched_itemized_orders_by_account"))

```

Assuming that this code produces logically correct results and the data in the source tables has been de-duplicated and validated, which statement describes what will occur when this code is executed?

- A. The enriched_itemized_orders_by_account table will be overwritten using the current valid version of data in each of the three tables referenced in the join logic.
- B. countDistinct("order_id").alias("total_orders"): Counts the number of unique orders placed by the customer.
- C. max("sale_date").alias("last_transaction_date"): Determines the latest sale date for the customer.
- D. mean("sale_total").alias("average_sales"): Calculates the average sale amount for the customer.
- E. sum("sale_total").alias("lifetime_value"): Calculates the total sales amount (lifetime value) for the customer.
- F. A batch job will update the enriched_itemized_orders_by_account table, replacing only those rows that have different values than the current version of the table, using accountID as the primary key.
- G. An incremental job will detect if new rows have been written to any of the source tables; if new rows are detected, all results will be recalculated and used to overwrite the enriched_itemized_orders_by_account table.
- H. An incremental job will leverage information in the state store to identify unjoined rows in the source tables and write these rows to the enriched_itemized_orders_by_account table.
- I. No computation will occur until enriched_itemized_orders_by_account is queried; upon query materialization, results will be calculated using the current valid version of data in each of the three tables referenced in the join logic.
- J. min("sale_date").alias("first_transaction_date"): Determines the earliest sale date for the customer.

Answer: A

Explanation:

Writes Data to gold_customer_lifetime_sales_summary Table:

The .write.mode("overwrite").table("gold_customer_lifetime_sales_summary") command writes the aggregated data to the

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