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## Databricks Certified Professional Data Engineer Exam Sample Questions (Q18-Q23):

### NEW QUESTION # 18

A security analytics pipeline must enrich billions of raw connection logs with geolocation data. The join hinges on finding which IPv4 range each event's address falls into.

Table 1: network\_events ( $\approx 5$  billion rows)

```
event_id ip_int
42 3232235777
```

Table 2: ip\_ranges ( $\approx 2$  million rows)

```
start_ip_int end_ip_int country
3232235520 3232236031 US
```

The query is currently very slow:

```
SELECT n.event_id, n.ip_int, r.country
FROM network_events n
JOIN ip_ranges r
ON n.ip_int BETWEEN r.start_ip_int AND r.end_ip_int;
```

Which change will most dramatically accelerate the query while preserving its logic?

- A. Force a sort-merge join with `/*+ MERGE(r) */`.
- B. Add a broadcast hint: `/*+ BROADCAST(r) */` for `ip_ranges`.
- C. Increase `spark.sql.shuffle.partitions` from 200 to 10000.
- **D. Add a range-join hint `/*+ RANGE_JOIN(r, 65536) */`.**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation from Databricks Documentation:

The query joins billions of rows (`network_events`) with millions of rows (`ip_ranges`) using a range predicate (`BETWEEN`). Unlike equality joins (`=`), range joins are not efficiently handled by broadcast or sort-merge joins because:

Broadcast Join (D): Effective for small tables but only for equality joins. Since this query uses a range condition, broadcast will not reduce the complexity of scanning billions of records across non-equality conditions.

Sort-Merge Join (C): Works for ordered joins but is inefficient on range conditions. Sorting billions of records adds excessive overhead and will not resolve the bottleneck.

Increasing Shuffle Partitions (A): Only spreads out shuffle work but does not address the fundamental inefficiency of range-based lookups at scale.

Range Joins in Spark (`RANGE_JOIN` hint):

Databricks provides range join optimizations specifically for conditions such as `BETWEEN`. By applying a `RANGE_JOIN` hint, Spark can build optimized data structures (such as interval indexes or partition pruning strategies) that map billions of input rows to ranges much faster. This avoids brute-force scans and unnecessary shuffle costs.

Thus, Option B is the correct solution because:

It leverages range-join optimization, which is purpose-built for queries joining massive event logs to smaller lookup tables with IP ranges.

This ensures Spark can evaluate billions of rows against millions of ranges with optimized matching logic, drastically improving query performance while preserving correctness.

## NEW QUESTION # 19

A table named `user_itv` 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_itv` table has the following schema:

```
email STRING, age INT, itv INT
```

The following view definition is executed:

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

```
SELECT * FROM email_itv
```

Which statement describes the results returned by this query?

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

**Answer: B**

Explanation:

The code creates a view called `email_itv` that selects the email and itv columns from a table called `user_itv`, which has the following schema: `email STRING, age INT, itv 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 itv 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 # 20

Which of the following SQL commands are used to append rows to an existing delta table?

- A. UPDATE table\_name
- B. INSERT INTO table\_name
- C. APPEND INTO table\_name
- D. COPY DELTA INTO table\_name
- E. APPEND INTO DELTA table\_name

**Answer: B**

Explanation:

Explanation

The answer is INSERT INTO table\_name

Insert adds rows to an existing table, this is very similar to add rows a traditional Database or Data-warehouse.

### NEW QUESTION # 21

All records from an Apache Kafka producer are being ingested into a single Delta Lake table with the following schema: key BINARY, value BINARY, topic STRING, partition LONG, offset LONG, timestamp LONG There are 5 unique topics being ingested. Only the "registration" topic contains Personal Identifiable Information (PII). The company wishes to restrict access to PII. The company also wishes to only retain records containing PII in this table for 14 days after initial ingestion. However, for non-PII information, it would like to retain these records indefinitely.

Which of the following solutions meets the requirements?

- A. Data should be partitioned by the topic field, allowing ACLs and delete statements to leverage partition boundaries.
- B. Data should be partitioned by the registration field, allowing ACLs and delete statements to be set for the PII directory.
- C. Because the value field is stored as binary data, this information is not considered PII and no special precautions should be taken.
- D. Separate object storage containers should be specified based on the partition field, allowing isolation at the storage level.
- E. All data should be deleted biweekly; Delta Lake's time travel functionality should be leveraged to maintain a history of non-PII information.

**Answer: A**

Explanation:

Partitioning the data by the topic field allows the company to apply different access control policies and retention policies for different topics. For example, the company can use the Table Access Control feature to grant or revoke permissions to the registration topic based on user roles or groups. The company can also use the DELETE command to remove records from the registration topic that are older than 14 days, while keeping the records from other topics indefinitely. Partitioning by the topic field also improves the performance of queries that filter by the topic field, as they can skip reading irrelevant partitions. References:

\* Table Access Control: <https://docs.databricks.com/security/access-control/table-acls/index.html>

\* DELETE: <https://docs.databricks.com/delta/delta-update.html#delete-from-a-table>

### NEW QUESTION # 22

Which of the following is not a privilege in the Unity catalog?

- A. EXECUTE
- B. SELECT
- C. CREATE TABLE
- D. DELETE
- E. MODIFY

**Answer: D**

Explanation:

Explanation

The Answer is DELETE and UPDATE permissions do not exist, you have to use MODIFY which provides both Update and Delete permissions.

Please note: TABLE ACL privilege types are different from Unity Catalog privilege types, please read the question carefully.

Here is the list of all privileges in Unity Catalog:

□ Unity Catalog Privileges

<https://learn.microsoft.com/en-us/azure/databricks/spark/latest/spark-sql/language-manual/sql-ref-privileges#priv-table-acl-privileges>

<https://learn.microsoft.com/en-us/azure/databricks/security/access-control/table-acls/object-privileges#privileges>

## NEW QUESTION # 23

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