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Databricks Certified Professional Data Engineer is a certification exam that measures individuals' knowledge and skills in using Databricks to manipulate big data. Databricks is a cloud-based data processing platform that allows data engineers to build, deploy, and manage big data processing pipelines. Databricks Certified Professional Data Engineer Exam certification exam is designed to validate the expertise of data engineers who work with Databricks.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

Given the following error traceback:

```
AnalysisException: cannot resolve 'heartrateheartrateheartrate' given input columns:
[spark_catalog.database.table.device_id, spark_catalog.database.table.heartrate, spark_catalog.database.table.mrm,
spark_catalog.database.table.time] The code snippet was:
display(df.select(3*"heartrate"))
```

Which statement describes the error being raised?

- A. There is no column in the table named heartrateheartrateheartrate.
- B. There is a type error because a DataFrame object cannot be multiplied.
- C. There is a type error because a column object cannot be multiplied.
- D. There is a syntax error because the heartrate column is not correctly identified as a column.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "select() expects column names or Column expressions."

Exact extract: "When using strings directly, Spark SQL interprets them as literal column names." Exact extract: "Python string operations, such as 'colname'*3, return repeated strings, not column expressions." from pyspark.sql.functions import col
df.select((col("heartrate") * 3).alias("heartrate_x3")) This ensures Spark evaluates the arithmetic operation on the column instead of misinterpreting the string.

NEW QUESTION # 43

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:

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

Answer: C

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

NEW QUESTION # 44

A CHECK constraint has been successfully added to the Delta table named activity_details using the following logic:

□ A batch job is attempting to insert new records to the table, including a record where latitude = 45.50 and longitude = 212.67. Which statement describes the outcome of this batch insert?

- A. The write will include all records in the target table; any violations will be indicated in the boolean column named valid_coordinates.
- B. The write will fail when the violating record is reached; any records previously processed will be recorded to the target table.
- **C. The write will fail completely because of the constraint violation and no records will be inserted into the target table.**
- D. The write will insert all records except those that violate the table constraints; the violating records will be reported in a warning log.
- E. The write will insert all records except those that violate the table constraints; the violating records will be recorded to a quarantine table.

Answer: C

Explanation:

The CHECK constraint is used to ensure that the data inserted into the table meets the specified conditions. In this case, the CHECK constraint is used to ensure that the latitude and longitude values are within the specified range. If the data does not meet the specified conditions, the write operation will fail completely and no records will be inserted into the target table. This is because Delta Lake supports ACID transactions, which means that either all the data is written or none of it is written. Therefore, the batch insert will fail when it encounters a record that violates the constraint, and the target table will not be updated. References:

* Constraints: <https://docs.delta.io/latest/delta-constraints.html>

* ACID Transactions: <https://docs.delta.io/latest/delta-intro.html#acid-transactions>

NEW QUESTION # 45

A member of the data engineering team has submitted a short notebook that they wish to schedule as part of a larger data pipeline. Assume that the commands provided below produce the logically correct results when run as presented.

□ Which command should be removed from the notebook before scheduling it as a job?

- A. Cmd 2
- **B. Cmd 6**
- C. Cmd 4
- D. Cmd 3
- E. Cmd 5

Answer: B

Explanation:

Explanation

Cmd 6 is the command that should be removed from the notebook before scheduling it as a job. This command is selecting all the columns from the finalDF dataframe and displaying them in the notebook. This is not necessary for the job, as the finalDF dataframe is already written to a table in Cmd 7. Displaying the dataframe in the notebook will only consume resources and time, and it will not affect the output of the job.

Therefore, Cmd 6 is redundant and should be removed.

The other commands are essential for the job, as they perform the following tasks:

Cmd 1: Reads the raw_data table into a Spark dataframe called rawDF.

Cmd 2: Prints the schema of the rawDF dataframe, which is useful for debugging and understanding the data structure.

Cmd 3: Selects all the columns from the rawDF dataframe, as well as the nested columns from the values struct column, and creates a new dataframe called flattenedDF.

Cmd 4: Drops the values column from the flattenedDF dataframe, as it is no longer needed after flattening, and creates a new

dataframe called finalDF.

Cmd 5: Explains the physical plan of the finalDF dataframe, which is useful for optimizing and tuning the performance of the job.

Cmd 7: Writes the finalDF dataframe to a table called flat_data, using the append mode to add new data to the existing table.

NEW QUESTION # 46

A Databricks SQL dashboard has been configured to monitor the total number of records present in a collection of Delta Lake tables using the following query pattern:

SELECT COUNT (*) FROM table -

Which of the following describes how results are generated each time the dashboard is updated?

- A. The total count of records is calculated from the parquet file metadata
- B. The total count of records is calculated from the Hive metastore
- C. The total count of rows will be returned from cached results unless REFRESH is run
- **D. The total count of records is calculated from the Delta transaction logs**
- E. The total count of rows is calculated by scanning all data files

Answer: D

Explanation:

Explanation

<https://delta.io/blog/2023-04-19-faster-aggregations-metadata/#:~:text=You%20can%20get%20the%20number,a>

NEW QUESTION # 47

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