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Databricks Certified Professional Data Engineer exam is a comprehensive certification exam that assesses an individual's knowledge and skills in working with big data and cloud computing technologies. Databricks-Certified-Professional-Data-Engineer exam is designed for data professionals who are proficient in using Databricks Unified Analytics Platform for managing and analyzing large volumes of data. Databricks-Certified-Professional-Data-Engineer exam covers a broad range of topics such as data engineering, data transformation, data modeling, and machine learning.

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Databricks Certified Professional Data Engineer exam is a valuable certification for data professionals who work with the Databricks platform. By demonstrating their expertise in using Databricks for data engineering tasks, candidates can enhance their career prospects and contribute to the success of their organizations.

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## Databricks Databricks-Certified-Professional-Data-Engineer Exam Voucher - Databricks-Certified-Professional-Data-Engineer Actual Exam Dumps

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## Databricks Certified Professional Data Engineer Exam Sample Questions (Q76-Q81):

**NEW QUESTION # 76**
You would like to build a spark streaming process to read from a Kafka queue and write to a Delta table every 15 minutes, what is the correct trigger option

- A. trigger(process "15 minutes")
- B. trigger("15 minutes")
- C. trigger(processingTime = 15)
- D. trigger(processingTime = "15 Minutes")
- E. trigger(15)

**Answer: D**

Explanation:
Explanation
The answer is trigger(processingTime = "15 Minutes")
Triggers:
*Unspecified
This is the default. This is equivalent to using processingTime="500ms"
*Fixed interval micro-batches .trigger(processingTime="2 minutes")
The query will be executed in micro-batches and kicked off at the user-specified intervals
*One-time micro-batch .trigger(once=True)
The query will execute a single micro-batch to process all the available data and then stop on its own
*One-time micro-batch.trigger .trigger(availableNow=True) -- New feature a better version of (once=True) Databricks supports trigger(availableNow=True) in Databricks Runtime 10.2 and above for Delta Lake and Auto Loader sources. This functionality combines the batch processing approach of trigger once with the ability to configure batch size, resulting in multiple parallelized batches that give greater control for right-sizing batches and the resultant files.

**NEW QUESTION # 77**
A junior data engineer needs to create a Spark SQL table my_table for which Spark manages both the data and the metadata. The metadata and data should also be stored in the Databricks Filesystem (DBFS).
Which of the following commands should a senior data engineer share with the junior data engineer to complete this task?

- A. 1. CREATE TABLE my_table (id STRING, value STRING) USING DBFS;
- B. 1. CREATE TABLE my_table (id STRING, value STRING);
- C. 1. CREATE MANAGED TABLE my_table (id STRING, value STRING) USING
  2. org.apache.spark.sql.parquet OPTIONS (PATH "storage-path");
- D. 1. CREATE TABLE my_table (id STRING, value STRING) USING
  2. org.apache.spark.sql.parquet OPTIONS (PATH "storage-path")
- E. 1. CREATE MANAGED TABLE my_table (id STRING, value STRING);

**Answer: B**

**NEW QUESTION # 78**
Review the following error traceback:

```
AnalysisException                         Traceback (most recent call last)
<command-3293767849433948> in <module>
----> 1 display(df.select(3*"heartrate"))

/databricks/spark/python/pyspark/sql/dataframe.py in select(self, *cols)
   1690         [Row(name='Alice', age=12), Row(name='Bob', age=15)]
   1691         """
-> 1692         jdf = self._jdf.select(self._jcols(*cols))
   1693         return DataFrame(jdf, self.sql_ctx)
   1694

/databricks/spark/python/lib/py4j-0.10.9-src.zip/py4j/java_gateway.py in __call__(self, *args)
   1302
   1303         answer = self.gateway_client.send_command(command)
-> 1304         return_value = get_return_value(
   1305             answer, self.gateway_client, self.target_id, self.name)
   1306

/databricks/spark/python/pyspark/sql/utils.py in deco(*a, **kw)
    121                 # Hide where the exception came from that shows a non-Pythonic
    122                 # JVM exception message.
--> 123                 raise converted from None
    124             else:
    125                 raise

AnalysisException: cannot resolve '`heartrateheartrateheartrate`' given input columns:
[spark_catalog.database.table.device_id, spark_catalog.database.table.heartrate,
spark_catalog.database.table.mrn, spark_catalog.database.table.time];
'Project ['heartrateheartrateheartrate]
+- SubqueryAlias spark_catalog.database.table
   +- Relation[device_id#75L,heartrate#76,mrn#77L,time#78] parquet
```



Which statement describes the error being raised?

- A. There is a type error because a column object cannot be multiplied.
- B. The code executed was PvSoark but was executed in a Scala notebook.
- C. There is a type error because a DataFrame object cannot be multiplied.
- D. There is a syntax error because the heartrate column is not correctly identified as a column.
- E. There is no column in the table named heartrateheartrateheartrate

**Answer: D**

Explanation:
The error being raised is an AnalysisException, which is a type of exception that occurs when Spark SQL cannot analyze or execute a query due to some logical or semantic error1. In this case, the error message indicates that the query cannot resolve the column name 'heartrateheartrateheartrate' given the input columns
'heartrate' and 'age'. This means that there is no column in the table named 'heartrateheartrateheartrate', and the query is invalid. A possible cause of this error is a typo or a copy-paste mistake in the query. To fix this error, the query should use a valid column name that exists in the table, such as
'heartrate'. References: AnalysisException

**NEW QUESTION # 79**
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.mrn,
spark_catalog.database.table.time] The code snippet was:
display(df.select(3*"heartrate"))
Which statement describes the error being raised?

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

**Answer: B**

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." The expression 3*"heartrate" is Python string multiplication, which evaluates to "heartrateheartrateheartrate".
The select() method interprets this as a literal column name. Since there is no column with that name in the DataFrame schema, Spark raises AnalysisException saying it cannot resolve that column. To correctly multiply a column by a scalar, one must use the column expression form:
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.
References: PySpark DataFrame select; PySpark Column expressions with col().

**NEW QUESTION # 80**
A data architect has heard about lake's built-in versioning and time travel capabilities. For auditing purposes they have a requirement to maintain a full of all valid street addresses as they appear in the customers table.
The architect is interested in implementing a Type 1 table, overwriting existing records with new values and relying on Delta Lake time travel to support long-term auditing. A data engineer on the project feels that a Type 2 table will provide better performance and scalability.
Which piece of information is critical to this decision?

- A. Delta Lake time travel cannot be used to query previous versions of these tables because Type 1 changes modify data files in place.
- B. Shallow clones can be combined with Type 1 tables to accelerate historic queries for long-term versioning.
- C. Delta Lake time travel does not scale well in cost or latency to provide a long-term versioning solution.
- D. Data corruption can occur if a query fails in a partially completed state because Type 2 tables requires Setting multiple fields in a single update.

**Answer: C**

Explanation:
Delta Lake's time travel feature allows users to access previous versions of a table, providing a powerful tool for auditing and versioning. However, using time travel as a long-term versioning solution for auditing purposes can be less optimal in terms of cost and performance, especially as the volume of data and the number of versions grow. For maintaining a full history of valid street addresses as they appear in a customers table, using a Type 2 table (where each update creates a new record with versioning) might provide better scalability and performance by avoiding the overhead associated with accessing older versions of a large table.
While Type 1 tables, where existing records are overwritten with new values, seem simpler and can leverage time travel for auditing, the critical piece of information is that time travel might not scale well in cost or latency for long-term versioning needs, making a Type 2 approach more viable for performance and scalability.References:
* Databricks Documentation on Delta Lake's Time Travel: Delta Lake Time Travel
* Databricks Blog on Managing Slowly Changing Dimensions in Delta Lake: Managing SCDs in Delta Lake

**NEW QUESTION # 81**
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