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Reliable Databricks-Certified-Professional-Data-Engineer Exam Papers - Accurate Databricks-Certified-Professional-Data-Engineer Answers

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q199-Q204):

NEW QUESTION # 199

A junior data engineer has been asked to develop a streaming data pipeline with a grouped aggregation using DataFrame df. The pipeline needs to calculate the average humidity and average temperature for each non-overlapping five-minute interval. Incremental state information should be maintained for 10 minutes for late-arriving data.

Streaming DataFrame df has the following schema:

```
"device_id INT, event_time TIMESTAMP, temp FLOAT, humidity FLOAT"
```

Code block:

```

11. _____
    .groupBy(
        window("event_time", "5 minutes").alias("time")
        "device_id"
    )
    .agg(
        avg("temp").alias("avg_temp"),
        avg("humidity").alias("avg_humidity")
    )
    .writeStream
    .format("delta")
    .saveAsTable("sensor_avg")

```

Choose the response that correctly fills in the blank within the code block to complete this task.

- A. awaitArrival("event_time", "10 minutes")
- B. await("event_time + '10 minutes'")
- C. slidingWindow("event_time", "10 minutes")
- **D. withWatermark("event_time", "10 minutes")**
- E. delayWrite("event_time", "10 minutes")

Answer: D

Explanation:

The correct answer is A. withWatermark("event_time", "10 minutes"). This is because the question asks for incremental state information to be maintained for 10 minutes for late-arriving data. The withWatermark method is used to define the watermark for late data. The watermark is a timestamp column and a threshold that tells the system how long to wait for late data. In this case, the watermark is set to 10 minutes. The other options are incorrect because they are not valid methods or syntax for watermarking in Structured Streaming. References:

* Watermarking: <https://docs.databricks.com/spark/latest/structured-streaming/watermarks.html>

* Windowed aggregations: <https://docs.databricks.com/spark/latest/structured-streaming/window-operations.html>

NEW QUESTION # 200

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

Answer: C

Explanation:

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 error. 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 # 201

The business reporting team requires that data for their dashboards be updated every hour. The total processing time for the pipeline that extracts, transforms, and loads the data for their pipeline runs in 10 minutes. Assuming normal operating conditions, which configuration will meet their service-level agreement requirements with the lowest cost?

- A. Configure a job that executes every time new data lands in a given directory.
- B. Schedule a Structured Streaming job with a trigger interval of 60 minutes.
- C. Schedule a job to execute the pipeline once an hour on a dedicated interactive cluster.
- D. Schedule a job to execute the pipeline once an hour on a new job cluster.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Exact extract: "Job clusters are created for a job run and terminate when the job completes." References: Cluster types (job vs all-purpose); Databricks Jobs scheduling

NEW QUESTION # 202

A data engineering team needs to query a Delta table to extract rows that all meet the same condition. However, the team has noticed that the query is running slowly. The team has already tuned the size of the data files. Upon investigating, the team has concluded that the rows meeting the condition are sparsely located throughout each of the data files.

Based on the scenario, which of the following optimization techniques could speed up the query?

- A. Data skipping
- B. Tuning the file size
- C. Write as a Parquet file
- D. Bin-packing
- E. Z-Ordering

Answer: E

NEW QUESTION # 203

Given the following error traceback (from `display(df.select(3* "heartrate"))`) which shows `AnalysisException: cannot resolve 'heartrateheartrateheartrate'`, which statement describes the error being raised?

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

Answer: C

Explanation:

* Exact extract: "select() expects column names or Column expressions." References: PySpark DataFrame select; Column expressions and col().

NEW QUESTION # 204

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