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## Databricks Certified Professional Data Engineer Exam Sample Questions (Q153-Q158):

### NEW QUESTION # 153

A data engineering manager has noticed that each of the queries in a Databricks SQL dashboard takes a few minutes to update when they manually click the "Refresh" button. They are curious why this might be occurring, so a team member provides a variety of reasons on why the delay might be occurring. Which of the following reasons fails to explain why the dashboard might be taking a few minutes to update?

- A. The queries attached to the dashboard might all be connected to their own, unstarted Databricks clusters
- B. The queries attached to the dashboard might first be checking to determine if new data is available
- **C. The Job associated with updating the dashboard might be using a non-pooled endpoint**
- D. The queries attached to the dashboard might take a few minutes to run under normal circumstances
- E. The SQL endpoint being used by each of the queries might need a few minutes to start up

**Answer: C**

### NEW QUESTION # 154

Review the following error traceback:

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. The code executed was PvSoark but was executed in a Scala notebook.
- **D. There is a syntax error because the heartrate column is not correctly identified as a column.**
- E. There is a type error because a column object cannot be multiplied.

**Answer: D**

Explanation:

Explanation

The error is a Py4JJavaError, which means that an exception was thrown in Java code called by Python code using Py4J. Py4J is a library that enables Python programs to dynamically access Java objects in a Java Virtual Machine (JVM). PySpark uses Py4J to communicate with Spark's JVM-based engine. The error message shows that the exception was thrown by `org.apache.spark.sql.AnalysisException`, which means that an error occurred during the analysis phase of Spark SQL query processing. The error message also shows that the cause of the exception was "cannot resolve 'heartrateheartrateheartrate' given input columns". This means that Spark could not find a column named `heartrateheartrateheartrate` in the input DataFrame or Dataset. The reason for this error is that there is a syntax error in the code that caused this exception. The code is:

```
df.withColumn("heartrate", heartrate * 3)
```

The code tries to create a new column called `heartrate` by multiplying an existing column called `heartrate` by 3.

However, the code does not correctly identify the `heartrate` column as a column object, but rather as a plain Python variable. This causes PySpark to concatenate the variable name with itself three times, resulting in `heartrateheartrateheartrate`, which is not a valid column name. To fix this error, the code should use one of the following ways to identify the `heartrate` column as a column object:

```
df.withColumn("heartrate", df["heartrate"] * 3) df.withColumn("heartrate", df.heartrate * 3) df.withColumn("heartrate",
```

```
col("heartrate") * 3) Verified References: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Py4J Documentation, under "What is Py4J?"; Databricks Documentation, under "Query plans - Analysis phase"; Databricks Documentation, under "Accessing columns".
```

### NEW QUESTION # 155

A data architect has designed a system in which two Structured Streaming jobs will concurrently write to a single bronze Delta table. Each job is subscribing to a different topic from an Apache Kafka source, but they will write data with the same schema. To keep the directory structure simple, a data engineer has decided to nest a checkpoint directory to be shared by both streams.

The proposed directory structure is displayed below:

Which statement describes whether this checkpoint directory structure is valid for the given scenario and why?

- A. Yes; both of the streams can share a single checkpoint directory.
- **B. No; each of the streams needs to have its own checkpoint directory.**
- C. Yes; Delta Lake supports infinite concurrent writers.
- D. No; only one stream can write to a Delta Lake table.
- E. No; Delta Lake manages streaming checkpoints in the transaction log.

**Answer: B**

Explanation:

This is the correct answer because checkpointing is a critical feature of Structured Streaming that provides fault tolerance and recovery in case of failures. Checkpointing stores the current state and progress of a streaming query in a reliable storage system, such as DBFS or S3. Each streaming query must have its own checkpoint directory that is unique and exclusive to that query. If two streaming queries share the same checkpoint directory, they will interfere with each other and cause unexpected errors or data loss. Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Checkpointing" section.

### NEW QUESTION # 156

A denote the event 'student is female' and let B denote the event 'student is French'. In a class of 100 students suppose 60 are French, and suppose that 10 of the French students are females. Find the probability that if I

pick a French student, it will be a girl, that is, find  $P(A|B)$ .

- A.  $2/6$
- B.  $1/3$
- C.  $1/6$
- D.  $2/3$

**Answer: C**

Explanation:

Explanation

Since 10 out of 100 students are both French and female, then

$$P(A \text{ and } B) = 10/100$$

Also, 60 out of the 100 students are French, so

$$P(B) = 60/100$$

So the required probability is:

$$P(A|B) = P(A \text{ and } B) / P(B) = 10/100 \cdot 60/100 = 1/6$$

### NEW QUESTION # 157

If  $E_1$  and  $E_2$  are two events, how do you represent the conditional probability given that  $E_2$  occurs given that  $E_1$  has occurred?

- A.  $P(E_1 + E_2) / P(E_1)$
- B.  $P(E_1) / P(E_2)$
- C.  $P(E_2) / (P(E_1 + E_2))$
- D.  $P(E_2) / P(E_1)$

**Answer: D**

### NEW QUESTION # 158

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