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Databricks Certified Professional Data Engineer Exam Sample Questions (Q88-Q93):

NEW QUESTION # 88

What is the purpose of a silver layer in Multi hop architecture?

- A. Replaces a traditional data lake
- B. Refined views with aggregated data
- C. Efficient storage and querying of full and unprocessed history of data
- D. Optimized query performance for business-critical data
- E. A schema is enforced, with data quality checks.

Answer: E

Explanation:

Explanation

The answer is, A schema is enforced, with data quality checks.

Medallion Architecture - Databricks

Silver Layer:

- 1.Reduces data storage complexity, latency, and redundancy
- 2.Optimizes ETL throughput and analytic query performance
- 3.Preserves grain of original data (without aggregation)
- 4.Eliminates duplicate records
- 5.production schema enforced
- 6.Data quality checks, quarantine corrupt data

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

Sorry I had to add the watermark some people in Udemy are copying my content.

NEW QUESTION # 89

The data engineering team has configured a Databricks SQL query and alert to monitor the values in a Delta Lake table. The recent_sensor_recordings table contains an identifying sensor_id alongside the timestamp and temperature for the most recent 5 minutes of recordings.

The below query is used to create the alert:

The query is set to refresh each minute and always completes in less than 10 seconds. The alert is set to trigger when mean (temperature) > 120. Notifications are triggered to be sent at most every 1 minute.

If this alert raises notifications for 3 consecutive minutes and then stops, which statement must be true?

- A. The source query failed to update properly for three consecutive minutes and then restarted
- B. The total average temperature across all sensors exceeded 120 on three consecutive executions of the query
- C. The average temperature recordings for at least one sensor exceeded 120 on three consecutive executions of the query
- D. The recent_sensor_recordingstable was unresponsive for three consecutive runs of the query
- E. The maximum temperature recording for at least one sensor exceeded 120 on three consecutive executions of the query

Answer: C

Explanation:

This is the correct answer because the query is using a GROUP BY clause on the sensor_id column, which means it will calculate the mean temperature for each sensor separately. The alert will trigger when the mean temperature for any sensor is greater than 120, which means at least one sensor had an average temperature above 120 for three consecutive minutes. The alert will stop when the mean temperature for all sensors drops below 120. Verified Reference: [Databricks Certified Data Engineer Professional], under "SQL Analytics" section; Databricks Documentation, under "Alerts" section.

NEW QUESTION # 90

The data governance team has instituted a requirement that all tables containing Personal Identifiable Information (PII) must be clearly annotated. This includes adding column comments, table comments, and setting the custom table property "contains_pii" = true.

The following SQL DDL statement is executed to create a new table:

Which command allows manual confirmation that these three requirements have been met?

- A. DESCRIBE HISTORY dev.pii test
- B. SHOW TBLPROPERTIES dev.pii test
- C. SHOW TABLES dev
- **D. DESCRIBE EXTENDED dev.pii test**
- E. DESCRIBE DETAIL dev.pii test

Answer: D

Explanation:

This is the correct answer because it allows manual confirmation that these three requirements have been met.

The requirements are that all tables containing Personal Identifiable Information (PII) must be clearly annotated, which includes adding column comments, table comments, and setting the custom table property

"contains_pii" = true. The DESCRIBE EXTENDED command is used to display detailed information about a table, such as its schema, location, properties, and comments. By using this command on the dev.pii_test table, one can verify that the table has been created with the correct column comments, table comment, and custom table property as specified in the SQL DDL statement.

Verified References: [Databricks Certified Data Engineer Professional], under "Lakehouse" section; Databricks Documentation, under "DESCRIBE EXTENDED" section.

NEW QUESTION # 91

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

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 # 92

A small company based in the United States has recently contracted a consulting firm in India to implement several new data engineering pipelines to power artificial intelligence applications. All the company's data is stored in regional cloud storage in the United States.

The workspace administrator at the company is uncertain about where the Databricks workspace used by the contractors should be deployed.

Assuming that all data governance considerations are accounted for, which statement accurately informs this decision?

- A. Databricks workspaces do not rely on any regional infrastructure; as such, the decision should be made based upon what is most convenient for the workspace administrator.
- B. Databricks notebooks send all executable code from the user's browser to virtual machines over the open internet; whenever possible, choosing a workspace region near the end users is the most secure.
- **C. Cross-region reads and writes can incur significant costs and latency; whenever possible, compute should be deployed in the same region the data is stored.**
- D. Databricks runs HDFS on cloud volume storage; as such, cloud virtual machines must be deployed in the region where the data is stored.
- E. Databricks leverages user workstations as the driver during interactive development; as such, users should always use a workspace deployed in a region they are physically near.

Answer: C

Explanation:

Explanation

This is the correct answer because it accurately informs this decision. The decision is about where the Databricks workspace used by the contractors should be deployed. The contractors are based in India, while all the company's data is stored in regional cloud storage in the United States. When choosing a region for deploying a Databricks workspace, one of the important factors to consider is the proximity to the data sources and sinks. Cross-region reads and writes can incur significant costs and latency due to network bandwidth and data transfer fees. Therefore, whenever possible, compute should be deployed in the same region the data is stored to optimize performance and reduce costs. Verified References: [Databricks Certified Data Engineer Professional], under "Databricks Workspace" section; Databricks Documentation, under "Choose a region" section.

NEW QUESTION # 93

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