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Databricks Certified Professional Data Engineer Exam Sample Questions (Q82-Q87):

NEW QUESTION # 82

Below table temp_date has one column called raw contains JSON data that records temperature for every four hours in the day for the city of Chicago, you are asked to calculate the maximum temperature that was ever recorded for 12:00 PM hour across all the days. Parse the JSON data and use the necessary array function to calculate the max temp.

Table: temp_date

Column: raw

Datatype: string



```
{  
  "chicago": [  
    {"date": "01-01-2021",  
     "temp": [25, 28, 46, 56, 39, 25]},  
    {"date": "01-02-2021",  
     "temp": [25, 28, 49, 54, 38, 25]},  
    {"date": "01-03-2021",  
     "temp": [25, 28, 49, 58, 38, 25]}  
  ]  
}
```

[12AM, 4AM, 8AM, 12PM, 4PM, 8PM]

Expected output: 58

- A. 1.select array_max(raw.chicago[*].temp[3]) from temp_data
- B. 1.select array_max(from_json(raw.chicago[*].temp[3],'array<int>')) from temp_data
- C. 1.select max(raw.chicago.temp[3]) from temp_data
- D. 1.select max(from_json(raw.chicago[3].temp[3],'array<int>')) from temp_data
- E. 1.select array_max(from_json(raw['chicago'].temp[3],'array<int>')) from temp_data

Answer: B

Explanation:

Explanation

Note: This is a difficult question, more likely you may see easier questions similar to this but the more you are prepared for the exam easier it is to pass the exam.

Use this below link to look for more examples, this will definitely help you,

<https://docs.databricks.com/optimizations/semi-structured.html>

Here is the solution, step by step

Text Description automatically generated

```

select raw:chicago[*] from temp_data
↓
Select Chicago and all elements inside Chicago

[

  {
    "date": "01-01-2021",
    "temp": [25, 28, 45, 56, 39, 25]
  },
  {
    "date": "01-02-2021",
    "temp": [25, 28, 49, 54, 38, 25]
  },
  {"date": "01-03-2021",
    "temp": [25, 28, 49, 58, 38, 25]
  }
]

```



```

select raw:chicago[*].temp[3] from temp_data
↓
select 4th element in the temp array, index starts from 0,1,2,3
[56, 54, 58]

```



```

select from_json(raw:chicago[*].temp[3], 'array<int>') from temp_data
↓
[56, 54, 58]

```

convert string to array using from_json



```

select array_max(from_json(raw:chicago[*].temp[3], 'array<int>')) from temp_data
↓
58

```

use array_max to calculate the max temp

Use this below link to look for more examples, this will definitely help you,
<https://docs.databricks.com/optimizations/semi-structured.html>

If you want to try this solution use below DDL,

1. create or replace table temp_data
2. as select ' {
3. "chicago":[
4. {"date":"01-01-2021",
5. "temp": [25,28,45,56,39,25]
6. },
7. {"date":"01-02-2021",
8. "temp": [25,28,49,54,38,25]
9. },
10. {"date":"01-03-2021",
11. "temp": [25,28,49,58,38,25]
12. }]
13. }
14. ' as raw
- 15.
16. select array_max(from_json(raw:chicago[*].temp[3], 'array<int>')) from temp_data
- 17.

NEW QUESTION # 83

A data engineer wants to enforce the principle of least privilege when configuring ACLs for Databricks jobs in a collaborative workspace.

Which approach should the data engineer use?

- A. Grant all users CAN MANAGE permission on all jobs to avoid access issues.
- B. Assign users only the minimum permission level (e.g., CAN RUN or CAN VIEW) required for their role on each job.

- C. Use only folder-level permissions and avoid setting permissions on individual jobs.
- D. Grant CAN RUN permission to everyone and CAN MANAGE to a single admin group.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Databricks follows the principle of least privilege (PoLP) to ensure users and groups have only the permissions required for their specific role.

For Databricks Jobs, three primary permission levels exist:

CAN VIEW - Allows viewing job configurations and runs.

CAN RUN - Allows triggering job runs.

CAN MANAGE - Allows full control, including editing and deletion.

To enforce PoLP, each user should be assigned only the specific permission required for their task. This approach prevents unauthorized edits and limits the risk of accidental deletions or job misconfigurations.

Granting broad permissions such as "ALL" or "CAN MANAGE to everyone" violates Databricks security best practices. Thus, the correct answer is D.

NEW QUESTION # 84

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#76L,mrn#77L,time#78L]emet
```

Which statement describes the error being raised?

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

Answer: B

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'. Reference: `AnalysisException`

NEW QUESTION # 85

While reviewing a query's execution in the Databricks Query Profiler, a data engineer observes that the Top Operators panel shows a Sort operator with high Time Spent and Memory Peak metrics. The Spark UI also reports frequent data spilling. How should the data engineer address this issue?

- A. Convert the sort operation to a filter operation.
- B. Switch to a broadcast join to reduce memory usage.
- C. Repartition the DataFrame to a single partition before sorting.
- D. **Increase the number of shuffle partitions to better distribute data.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

When Spark performs wide transformations such as `sortBy` or `orderBy`, large data volumes can exceed memory limits, causing disk spilling. The official Databricks performance tuning guide recommends increasing the shuffle partition count to distribute the data more evenly across executors. By default, Spark uses a fixed number of shuffle partitions (e.g., 200), which can lead to memory imbalance and spill if some partitions are too large. Increasing this number (via `spark.sql.shuffle.partitions`) results in smaller partitions, reduced in-memory pressure, and improved sort performance. Other options like broadcast joins or single partition sorts do not apply to single-table sorts, and converting to filters changes query logic. Thus, option D is the correct remedy.

NEW QUESTION # 86

Which statement characterizes the general programming model used by Spark Structured Streaming?

- A. Structured Streaming is implemented as a messaging bus and is derived from Apache Kafka.
- B. **Structured Streaming models new data arriving in a data stream as new rows appended to an unbounded table.**
- C. Structured Streaming relies on a distributed network of nodes that hold incremental state values for cached stages.
- D. Structured Streaming uses specialized hardware and I/O streams to achieve sub-second latency for data transfer.
- E. Structured Streaming leverages the parallel processing of GPUs to achieve highly parallel data throughput.

Answer: B

Explanation:

Explanation

This is the correct answer because it characterizes the general programming model used by Spark Structured Streaming, which is to treat a live data stream as a table that is being continuously appended. This leads to a new stream processing model that is very similar to a batch processing model, where users can express their streaming computation using the same `Dataset`/`DataFrame` API as they would use for static data. The Spark SQL engine will take care of running the streaming query incrementally and continuously and updating the final result as streaming data continues to arrive. Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Overview" section.

NEW QUESTION # 87

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