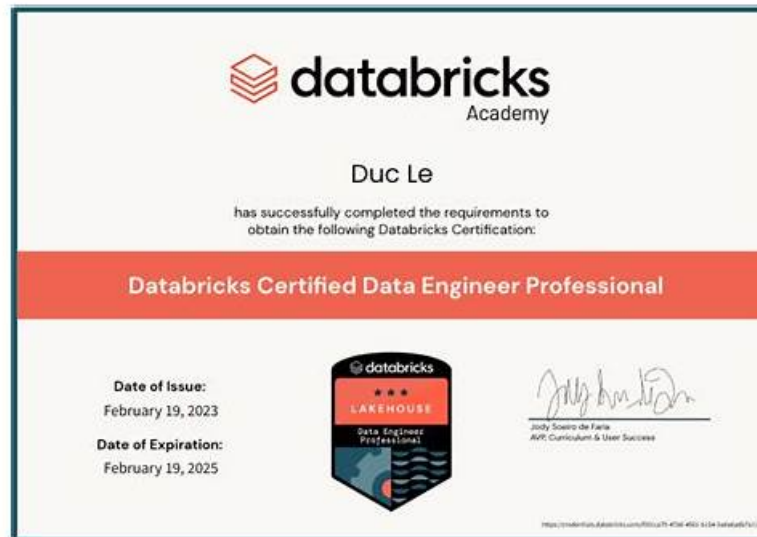


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

You are currently working to ingest millions of files that get uploaded to the cloud object storage for consumption, and you are

asked to build a process to ingest this data, the schema of the file is expected to change over time, and the ingestion process should be able to handle these changes automatically. Which of the following method can be used to ingest the data incrementally?

- A. Structured Streaming
- B. AUTO APPEND
- C. Checkpoint
- D. COPY INTO
- E. **AUTO LOADER**

Answer: E

Explanation:

Explanation

The answer is AUTO LOADER,

Use Auto Loader instead of the COPY INTO SQL command when:

*You want to load data from a file location that contains files in the order of millions or higher. Auto Loader can discover files more efficiently than the COPY INTO SQL command and can split file processing into multiple batches.

*COPY INTO only directory listing but AUTO LOADER supports File notification method where the Auto Loader continues to ingest files as they arrive in cloud object storage leveraging cloud provider (Queues and triggers) and Spark's structured streaming.

*Your data schema evolves frequently. Auto Loader provides better support for schema inference and evolution. See Configuring schema inference and evolution in Auto Loader.

NEW QUESTION # 70

Data science team has requested they are missing a column in the table called average price, this can be calculated using units sold and sales amt, which of the following SQL statements allow you to reload the data with additional column

- A. COPY INTO SALES AS SELECT *, salesAmt/unitsSold as avgPrice FROM sales
- B. **1.CREATE OR REPLACE TABLE sales**
2.AS SELECT *, salesAmt/unitsSold as avgPrice FROM sales
- C. 1.INSERT OVERWRITE sales
2.SELECT *, salesAmt/unitsSold as avgPrice FROM sales
- D. OVERWRITE sales AS SELECT *, salesAmt/unitsSold as avgPrice FROM sales
- E. MERGE INTO sales USING (SELECT *, salesAmt/unitsSold as avgPrice FROM sales)

Answer: B

Explanation:

Explanation

1.CREATE OR REPLACE TABLE sales

2.AS SELECT *, salesAmt/unitsSold as avgPrice FROM sales

The main difference between INSERT OVERWRITE and CREATE OR REPLACE TABLE (CRAS) is that CRAS can modify the schema of the table, i.e it can add new columns or change data types of existing columns. By default INSERT OVERWRITE only overwrites the data.

INSERT OVERWRITE can also be used to overwrite schema, only when

spark.databricks.delta.schema.autoMerge.enabled is set true if this option is not enabled and if there is a schema mismatch command will fail.

NEW QUESTION # 71

What is the top-level object in unity catalog?

- A. Database
- B. Catalog
- C. **Metastore**
- D. Workspace
- E. Table

Answer: C

Explanation:

Explanation

Key concepts - Azure Databricks | Microsoft Docs



Diagram Description automatically generated

NEW QUESTION # 72

Below table temp_data 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_data

Column: raw

Datatype: string

```
{
  "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]
    }
  ]
}
```

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

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Expected output: 58

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

Answer: C

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

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```

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

```

↓

convert string to array using from_json

```

[56,54,58]

```

```

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

```

↓

use array_max to calculate the max temp

```

58

```

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 # 73

The following code has been migrated to a Databricks notebook from a legacy workload:

```

$sh
git clone https://github.com/foo/data_loader;
python ./data_loader/run.py;
mv ./output s3://dbfs/mnt/new_data

```

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. %sh triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- B. Instead of cloning, the code should use %sh pip install so that the Python code can get executed in parallel across all nodes in a cluster.
- C. %sh executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.
- D. %sh does not distribute file moving operations; the final line of code should be updated to use %fs instead.
- E. Python will always execute slower than Scala on Databricks. The run.py script should be refactored to Scala.

Answer: C

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using %sh to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 74

.....

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