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If you want to pass a high percentage of the Microsoft DP-203 Exam, you should consider studying for the actual exam. These practice tests are designed to help you prepare for the exam and ensure you know the syllabus content. It will also help you improve your time management skills, as these tests are designed like an actual exam. Moreover, they will help you learn to answer all questions in the time allowed.

One of the key benefits of the DP-203 Exam is that it is recognized by Microsoft as a valid certification for data engineers who work with Azure. This means that individuals who pass the exam can demonstrate to potential employers that they have the skills and knowledge needed to be successful in this role. Additionally, Microsoft Azure is one of the most widely used cloud platforms in the world, so having a certification in this area can open up new career opportunities.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q13-Q18):

NEW QUESTION # 13

You are designing a real-time dashboard solution that will visualize streaming data from remote sensors that connect to the internet. The streaming data must be aggregated to show the average value of each 10-second interval. The data will be discarded after being

displayed in the dashboard.

The solution will use Azure Stream Analytics and must meet the following requirements:

Minimize latency from an Azure Event hub to the dashboard.

Minimize the required storage.

Minimize development effort.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

Azure Stream Analytics input type:	<div><div></div><div>Azure Event Hub</div><div>Azure SQL Database</div><div>Azure Stream Analytics</div><div>Microsoft Power BI</div></div>
Azure Stream Analytics output type:	<div><div></div><div>Azure Event Hub</div><div>Azure SQL Database</div><div>Azure Stream Analytics</div><div>Microsoft Power BI</div></div>
Aggregation query location:	<div><div></div><div>Azure Event Hub</div><div>Azure SQL Database</div><div>Azure Stream Analytics</div><div>Microsoft Power BI</div></div>

Answer:

Explanation:

Azure Stream Analytics input type:

- Azure Event Hub
- Azure SQL Database
- Azure Stream Analytics
- Microsoft Power BI

Azure Stream Analytics output type:

- Azure Event Hub
- Azure SQL Database
- Azure Stream Analytics
- Microsoft Power BI

Aggregation query location:

- Azure Event Hub
- Azure SQL Database
- Azure Stream Analytics
- Microsoft Power BI

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-power-bi-dashboard>

NEW QUESTION # 14

You have an Azure subscription that contains an Azure Databricks workspace. The workspace contains a notebook named Notebook1. In Notebook1, you create an Apache Spark DataFrame named `df_sales` that contains the following columns:

- * Customer
- * Salesperson
- * Region
- * Amount

You need to identify the three top performing salespersons by amount for a region named HQ.

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Values

- `agg(col('SalesPerson'))`
- `filter(col('SalesPerson'))`
- `groupBy(col('SalesPerson'))`
- `groupBy(col('TotalAmount'))`
- `orderBy(col('TotalAmount'))`
- `orderBy(desc('TotalAmount'))`

Answer Area

```
df_sales.filter(col('Region')=='HQ').  
    .agg(sum('Amount').alias  
    ('TotalAmount')).  
    .limit(3)
```

Answer:

Explanation:

Values

agg(col('SalesPerson'))

filter(col('SalesPerson'))

groupBy(col('SalesPerson'))

groupBy(col('TotalAmount'))

orderBy(col('TotalAmount'))

orderBy(desc('TotalAmount'))

Answer Area

```
df_sales.filter(col('Region')== 'HQ').agg(sum('Amount'), alias('TotalAmount')).filter(col('SalesPerson')).orderBy(desc('TotalAmount')).limit(3)
```

NEW QUESTION # 15

You have an Azure subscription that contains an Azure Data Lake Storage Gen2 account named storage1 and an Azure Synapse Analytics workspace named Workspace1. Workspace1 has a serverless SQL pool.

You use the serverless SQL pool to query customer orders from the files in storage1.

You run the following query.

```
SELECT *
```

```
FROM OPENROWSET(BULK 'https://storage1.blob.core.windows.net/data/orders/year=* /month=* / *.*', FORMAT = 'parquet') AS customerorders WHERE customerorders.filepath(1) = '2024' AND customerorders.filepath(2) IN ('3','4');
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements

storage1 provides a hierarchical namespace.

Files from March 2025 will be included.

Only files that have a Parquet file extension will be included.

Yes

No

Answer:

Explanation:

Answer Area

Statements

storage1 provides a hierarchical namespace.

Files from March 2025 will be included.

Only files that have a Parquet file extension will be included.

Yes

No

Explanation:

Storage1 provides a hierarchical namespace: Yes

Files from March 2025 will be included: No

Only files that have a Parquet file extension will be included: Yes

Query Breakdown

* Data Source:

* The OPENROWSET function queries data stored in Azure Data Lake Storage Gen2 (storage1) using the serverless SQL pool in Synapse Analytics.

* The data is stored in Parquet files in the folder structure data/orders/year=YYYY/month=MM/.

* Query Filter:

* The filter conditions in the query are:

* customerorders.filepath(1) = '2024': Limits the query to files in the folder year=2024.

* customerorders.filepath(2) IN ('3', '4'): Limits the query to files in the subfolders month=3 or month=4.

* File Format:

* The FORMAT = 'parquet' clause specifies that only Parquet files will be queried.

Statements Analysis

* Storage1 provides a hierarchical namespace. answer: Yes

- * Azure Data Lake Storage Gen2 supports a hierarchical namespace, which enables folder-based organization.
- * The folder structure (e.g., data/orders/year=2024/month=3/) demonstrates the use of a hierarchical namespace.
- * Files from March 2025 will be included.answer: No
- * The query explicitly filters for year=2024, so files from 2025 will not be included in the results.
- * Only files that have a Parquet file extension will be included.answer: Yes
- * The FORMAT = 'parquet' clause in the query ensures that only Parquet files are queried. Files with other extensions (e.g., .csv or .json) will not be included.

NEW QUESTION # 16

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Storage account that contains 100 GB of files. The files contain text and numerical values. 75% of the rows contain description data that has an average length of 1.1 MB.

You plan to copy the data from the storage account to an Azure SQL data warehouse.

You need to prepare the files to ensure that the data copies quickly.

Solution: You modify the files to ensure that each row is more than 1 MB.

Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:

Instead modify the files to ensure that each row is less than 1 MB.

References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/guidance-for-loading-data>

NEW QUESTION # 17

You have an Apache Spark DataFrame named temperatures. A sample of the data is shown in the following table.

Date	Temp
...	...
18-01-2021	3
19-01-2021	4
20-01-2021	2
21-01-2021	2
...	...

You need to produce the following table by using a Spark SQL query.

Year	JAN	FEB	MAR	APR	MAY
2019	2.3	4.1	5.2	7.6	9.2
2020	2.4	4.2	4.9	7.8	9.1
2021	2.6	5.3	3.4	7.9	9.5

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values

Answer Area

CAST

COLLATE

CONVERT

FLATTEN

PIVOT

UNPIVOT

```

SELECT * FROM (
  SELECT YEAR(Date) Year, MONTH(Date) Month, Temp
  FROM temperatures
  WHERE date BETWEEN DATE '2019-01-01' AND DATE '2021-08-31'
)
  (
    AVG ( (Temp AS DECIMAL(4, 1)))
  FOR Month in (
    1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,
    7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC
  )
)
ORDER BY Year ASC

```

Answer:

Explanation:

Values

Answer Area

CAST

COLLATE

CONVERT

FLATTEN

PIVOT

UNPIVOT

```

SELECT * FROM (
  SELECT YEAR(Date) Year, MONTH(Date) Month, Temp
  FROM temperatures
  WHERE date BETWEEN DATE '2019-01-01' AND DATE '2021-08-31'
)
  PIVOT (
    AVG ( CAST (Temp AS DECIMAL(4, 1)))
  FOR Month in (
    1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,
    7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC
  )
)
ORDER BY Year ASC

```

Explanation

Text Description automatically generated

```

SELECT * FROM (
    SELECT YEAR(Date) Year, MONTH(Date) Month, Temp
    FROM temperatures
    WHERE date BETWEEN DATE '2019-01-01' AND DATE '2021-08-31'
)
PIVOT (
    AVG ( CAST (Temp AS DECIMAL(4, 1)))
    FOR Month in (
        1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,
        7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC
    )
)
ORDER BY Year ASC

```

Box 1: PIVOT

PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output. And PIVOT runs aggregations where they're required on any remaining column values that are wanted in the final output.

Reference:

<https://learnsql.com/cookbook/how-to-convert-an-integer-to-a-decimal-in-sql-server/>

<https://docs.microsoft.com/en-us/sql/t-sql/queries/from-using-pivot-and-unpivot>

NEW QUESTION # 18

.....

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