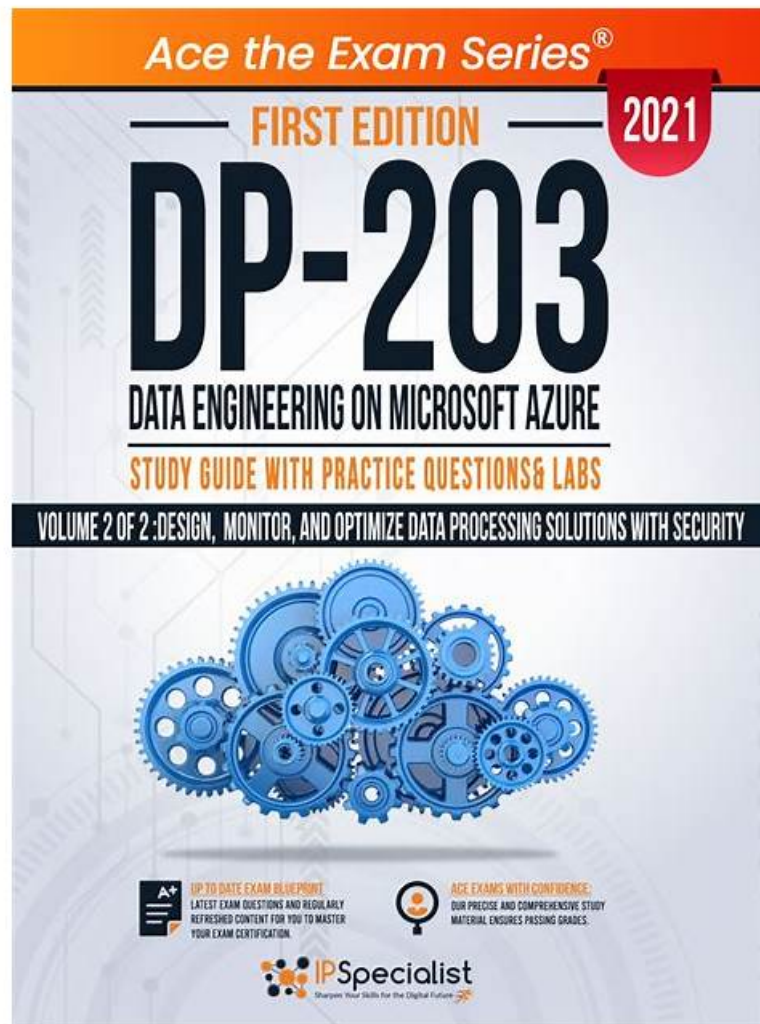# Trustable Microsoft DP-203 Reliable Practice Materials and the Best Accurate DP-203 Reliable Test Book

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q314-Q319):

NEW QUESTION # 314
You have two fact tables named Flight and Weather. Queries targeting the tables will be based on the join between the following columns.

Table	Column
Flight	ArrivalAirportID ArrivalDateTime
Weather	AirportID ReportDateTime

You need to recommend a solution that maximum query performance.
What should you include in the recommendation?

- A. In the tables, use a hash distribution of ArriveDateTime and ReportDateTime.
- B. In each table, create an IDENTITY column.
- C. In the tables, use a hash distribution of ArriveAirPortID and AirportID.
- D. In each table, create a column as a composite of the other two columns in the table.

Answer: C

NEW QUESTION # 315
You have an Azure Stream Analytics job named Job1.
The metrics of Job1 from the last hour are shown in the following table.

Metric	Time aggregation	Value
SU (Memory) % Utilization	Average	70
CPU % Utilization	Average	20
Runtime Errors	Total	0
Watermark Delay	Average	20
Input Deserialization Errors	Total	0

The late arrival tolerance for Job1 is set to the five seconds.
You need to optimize Job1.
Which two actions achieve the goal? Each correct answer presents a complete solution.
NOTE: Each correct answer is worth one point.

- A. Parallelize the query
- B. Increase the number of SUs.
- C. Resolution errors in output processing
- D. Resolution errors in inputs processing.

Answer: A,B

NEW QUESTION # 316
You have an Azure Synapse Analytics dedicated SQL pool.
You need to create a table named FactInternetSales that will be a large fact table in a dimensional model.
FactInternetSales will contain 100 million rows and two columns named SalesAmount and OrderQuantity.
Queries executed on FactInternetSales will aggregate the values in SalesAmount and OrderQuantity from the last year for a specific product. The solution must minimize the data size and query execution time.
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
CREATE TABLE [dbo].[FactInternetSales]

( [ProductKey] int NOT NULL

, [OrderDateKey] int NOT NULL

, [CustomerKey] int NOT NULL

, [PromotionKey] int NOT NULL

, [SalesOrderNumber] nvarchar(20) NOT NULL

, [OrderQuantity] smallint NOT NULL

, [UnitPrice] money NOT NULL

, [SalesAmount] money NOT NULL

)

WITH
```

(CLUSTERED COLUMNSTORE INDEX
(CLUSTERED INDEX ([OrderDateKey])
(HEAP
(INDEX on [ProductKey]

```
, DISTRIBUTION =
```

Hash([OrderDateKey])
Hash([ProductKey])
REPLICATE
ROUND_ROBIN

```
);
```

Answer:

Explanation:

Answer Area

```
                    CREATE TABLE [dbo].[FactInternetSales]

                    ( [ProductKey] int NOT NULL

                    , [OrderDateKey] int NOT NULL

                    , [CustomerKey] int NOT NULL

                    , [PromotionKey] int NOT NULL

                    , [SalesOrderNumber] nvarchar(20) NOT NULL

                    , [OrderQuantity] smallint NOT NULL

                    , [UnitPrice] money NOT NULL

                    , [SalesAmount] money NOT NULL

                    )

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(INDEX on [ProductKey]

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Hash([OrderDateKey])
Hash([ProductKey])
REPLICATE
ROUND_ROBIN

```
                    );
```
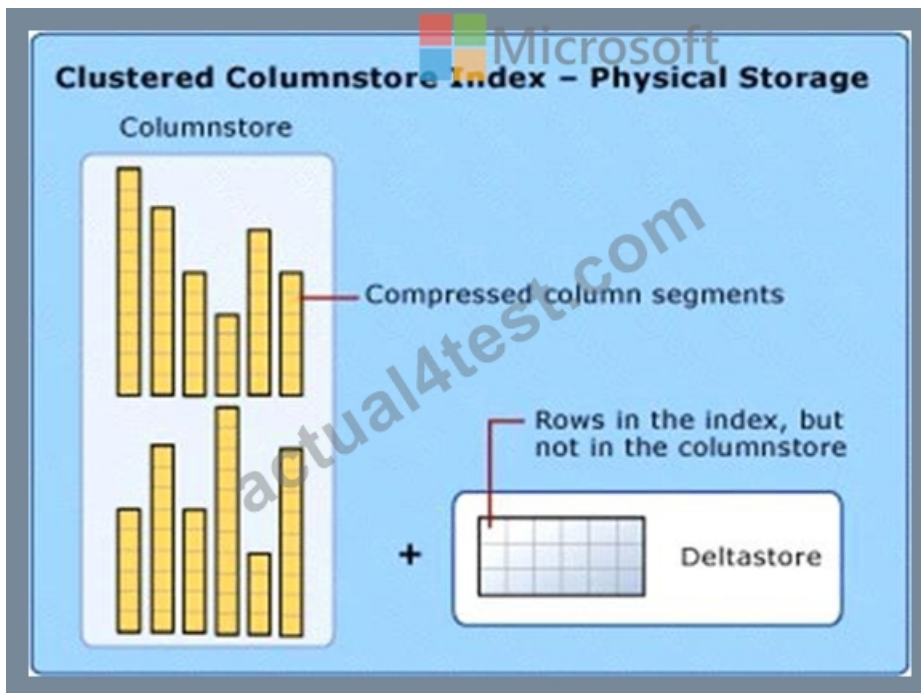
Explanation

Box 1: (CLUSTERED COLUMNSTORE INDEX

CLUSTERED COLUMNSTORE INDEX

Columnstore indexes are the standard for storing and querying large data warehousing fact tables. This index uses column-based data storage and query processing to achieve gains up to 10 times the query performance in your data warehouse over traditional row-oriented storage. You can also achieve gains up to 10 times the data compression over the uncompressed data size. Beginning with SQL Server 2016 (13.x) SP1, columnstore indexes enable operational analytics: the ability to run performant real-time analytics on a transactional workload.

Note: Clustered columnstore index

A clustered columnstore index is the physical storage for the entire table.

Diagram Description automatically generated

To reduce fragmentation of the column segments and improve performance, the columnstore index might store some data temporarily into a clustered index called a deltastore and a B-tree list of IDs for deleted rows. The deltastore operations are handled behind the scenes. To return the correct query results, the clustered columnstore index combines query results from both the columnstore and the deltastore.

Box 2: HASH([ProductKey])

A hash distributed table distributes rows based on the value in the distribution column. A hash distributed table is designed to achieve high performance for queries on large tables.

Choose a distribution column with data that distributes evenly

Reference: https://docs.microsoft.com/en-us/sql/relational-databases/indexes/columnstore-indexes-overview

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overview

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribu

NEW QUESTION # 317

You plan to create a real-time monitoring app that alerts users when a device travels more than 200 meters away from a designated location.

You need to design an Azure Stream Analytics job to process the data for the planned app. The solution must minimize the amount of code developed and the number of technologies used.

What should you include in the Stream Analytics job? To answer, select the appropriate options in the answer area.

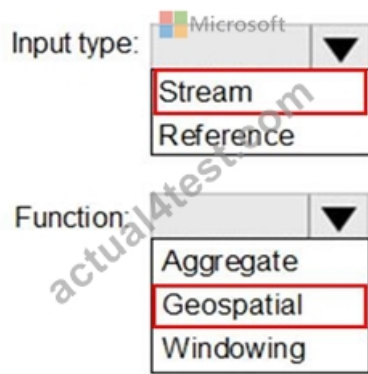NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-get-started-with-azure-stream-analytics-to-process-data-from-iot-devices

https://docs.microsoft.com/en-us/azure/stream-analytics/geospatial-scenarios

NEW QUESTION # 318

You have an Azure Factory instance named DF1 that contains a pipeline named PL1.PL1 includes a tumbling window trigger.
You create five clones of PL1. You configure each clone pipeline to use a different data source.
You need to ensure that the execution schedules of the clone pipeline match the execution schedule of PL1.
What should you do?

- A. Modify the Concurrency setting of each pipeline.
- B. Associate each cloned pipeline to an existing trigger.
- C. Create a tumbling window trigger dependency for the trigger of PL1.
- D. Add a new trigger to each cloned pipeline

Answer: B

NEW QUESTION # 319

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