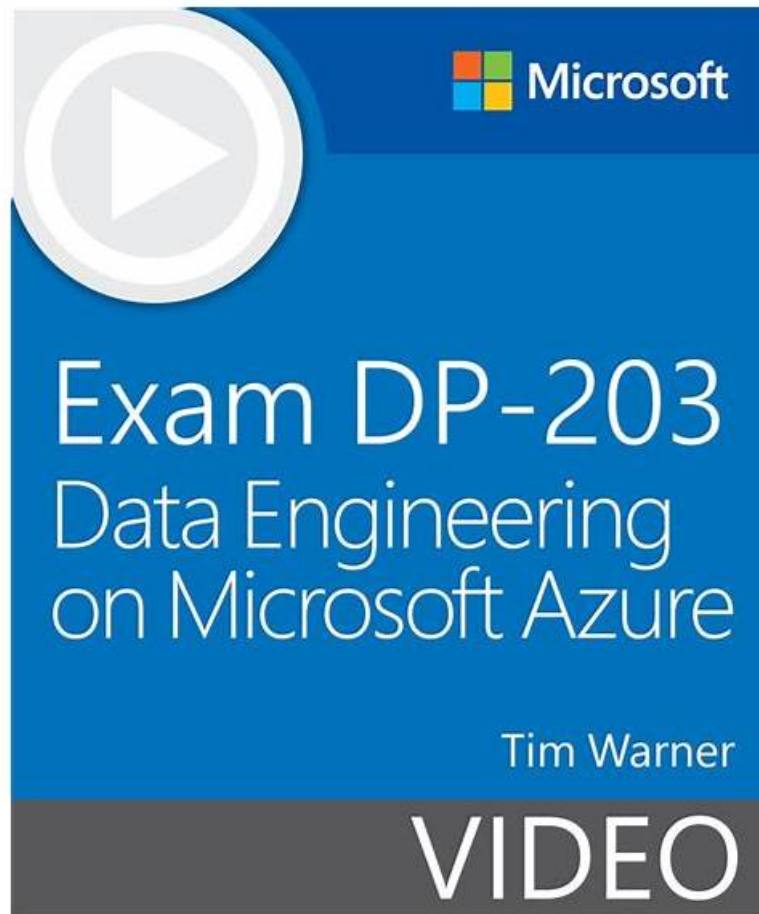


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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q95-Q100):

NEW QUESTION # 95

You have an Azure Synapse Analytics dedicated SQL pool named Pool1 that contains an external table named Sales. Sales contains sales data. Each row in Sales contains data on a single sale, including the name of the salesperson.

You need to implement row-level security (RLS). The solution must ensure that the salespeople can access only their respective sales.

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

NOTE: Each correct selection is worth one point.

The screenshot shows the 'Create' dropdown menu with three options: 'A materialized view in Pool1', 'A security policy for Sales', and 'Database scoped credentials in Pool1'. The 'Restrict row access by using' dropdown menu has three options: 'A masking rule', 'A table-valued function', and 'The CONTAINS predicate'. The 'A security policy for Sales' and 'A table-valued function' options are highlighted with green boxes.

Answer:

Explanation:

The screenshot shows the 'Create' dropdown menu with three options: 'A materialized view in Pool1', 'A security policy for Sales', and 'Database scoped credentials in Pool1'. The 'Restrict row access by using' dropdown menu has three options: 'A masking rule', 'A table-valued function', and 'The CONTAINS predicate'. The 'A security policy for Sales' and 'A table-valued function' options are highlighted with green boxes.

Explanation:

Box 1: A security policy for sale

Here are the steps to create a security policy for Sales:

Create a user-defined function that returns the name of the current user:

```
CREATE FUNCTION dbo.GetCurrentUser()
```

```
RETURNS NVARCHAR(128)
```

```
AS
```

```
BEGIN
```

```
RETURN SUSER_SNAME();
```

```
END;
```

Create a security predicate function that filters the Sales table based on the current user:

```
CREATE FUNCTION dbo.SalesPredicate(@salesperson NVARCHAR(128))
```

```
RETURNS TABLE
```

```
WITH SCHEMABINDING
```

```
AS
```

```
RETURN SELECT 1 AS access_result
```

```
WHERE @salesperson = SalespersonName;
```

Create a security policy on the Sales table that uses the SalesPredicate function to filter the data:

```
CREATE SECURITY POLICY SalesFilter
```

```
ADD FILTER PREDICATE dbo.SalesPredicate(dbo.GetCurrentUser()) ON dbo.Sales WITH (STATE = ON);
```

By creating a security policy for the Sales table, you ensure that each salesperson can only access their own sales data. The security policy uses a user-defined function to get the name of the current user and a security predicate function to filter the Sales table based on the current user.

Box 2: table-value function

to restrict row access by using row-level security, you need to create a table-valued function that returns a table of values that represent the rows that a user can access. You then use this function in a security policy that applies a predicate on the table.

NEW QUESTION # 96

You plan to create a table in an Azure Synapse Analytics dedicated SQL pool.

Data in the table will be retained for five years. Once a year, data that is older than five years will be deleted.

You need to ensure that the data is distributed evenly across partitions. The solution must minimize the amount of time required to delete old data.

How should you complete the Transact-SQL statement? 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

CustomerKey

HASH

ROUND_ROBIN

REPLICATE

OrderDateKey

SalesOrderNumber

Answer Area

```
CREATE TABLE [dbo].[FactSales]
(
    [ProductKey]          int          NOT NULL
,   [OrderDateKey]       int          NOT NULL
,   [CustomerKey]        int          NOT NULL
,   [SalesOrderNumber]   nvarchar ( 20 ) NOT NULL
,   [OrderQuantity]      smallint     NOT NULL
,   [UnitPrice]          money        NOT NULL
)
WITH
(
    CLUSTERED COLUMNSTORE INDEX
,   DISTRIBUTION = Value ([ProductKey])
,   PARTITION ( [ Value ] RANGE RIGHT FOR VALUES
                (20170101,20180101,20190101,20200101,20210101)
              )
)
```

Answer:

Explanation:

Values

CustomerKey

HASH

ROUND_ROBIN

REPLICATE

OrderDateKey

SalesOrderNumber

Answer Area

```

CREATE TABLE [dbo].[FactSales]
(
    [ProductKey]      int      NOT NULL
,   [OrderDateKey]   int      NOT NULL
,   [CustomerKey]    int      NOT NULL
,   [SalesOrderNumber] nvarchar ( 20 ) NOT NULL
,   [OrderQuantity]  smallint NOT NULL
,   [UnitPrice]       money    NOT NULL
)
WITH (CLUSTERED COLUMNSTORE INDEX)
,   DISTRIBUTION = HASH ([ProductKey])
,   PARTITION ( [OrderDateKey] ] RANGE RIGHT FOR VALUES
              (20170101,20180101,20190101,20200101,20210101)
)

```

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse>

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-dedicated-sql-pool>

NEW QUESTION # 97

You have an Azure event hub named retailhub that has 16 partitions. Transactions are posted to retailhub.

Each transaction includes the transaction ID, the individual line items, and the payment details. The transaction ID is used as the partition key.

You are designing an Azure Stream Analytics job to identify potentially fraudulent transactions at a retail store. The job will use retailhub as the input. The job will output the transaction ID, the individual line items, the payment details, a fraud score, and a fraud indicator.

You plan to send the output to an Azure event hub named fraudhub.

You need to ensure that the fraud detection solution is highly scalable and processes transactions as quickly as possible.

How should you structure the output of the Stream Analytics job? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Number of partitions:

1

8

16

32

Partition key:

Fraud indicator

Fraud score

Individual line items

Payment details

Transaction ID

Answer:

Explanation:

Number of partitions: ▼

1
8
16
32

Partition key: ▼

Fraud indicator
Fraud score
Individual line items
Payment details
Transaction ID

Explanation

Number of partitions: ▼

1
8
16
32

Partition key: ▼

Fraud indicator
Fraud score
Individual line items
Payment details
Transaction ID

Box 1: 16

For Event Hubs you need to set the partition key explicitly.

An embarrassingly parallel job is the most scalable scenario in Azure Stream Analytics. It connects one partition of the input to one instance of the query to one partition of the output.

Box 2: Transaction ID

Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

NEW QUESTION # 98

You are implementing Azure Stream Analytics windowing functions.

Which windowing function should you use for each requirement? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

Segment the data stream into distinct time segments that repeat but do not overlap: ☐ Hopping ☐ Sliding ☐ Tumbling

Segment the data stream into distinct time segments that repeat and can overlap: ☐ Hopping ☐ Sliding ☐ Tumbling

Segment the data stream to produce an output only when an event occurs: ☐ Hopping ☐ Sliding ☐ Tumbling

Answer:

Explanation:

Answer Area

Segment the data stream into distinct time segments that repeat but do not overlap: ☐ Hopping ☒ Sliding ☐ Tumbling

Segment the data stream into distinct time segments that repeat and can overlap: ☐ Hopping ☒ Sliding ☐ Tumbling

Segment the data stream to produce an output only when an event occurs: ☐ Hopping ☒ Sliding ☐ Tumbling

NEW QUESTION # 99

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
```



Microsoft

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
)
WITH
(
    CLUSTERED COLUMNSTORE INDEX
,   CLUSTERED INDEX ([OrderDateKey])
,   HEAP
,   INDEX on [ProductKey]
,   DISTRIBUTION =
);
```

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

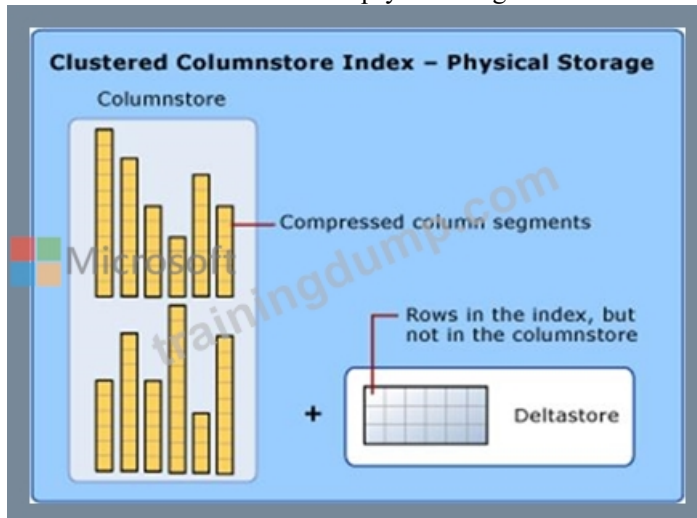
Explanation:

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.



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-distribute>

NEW QUESTION # 100

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