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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q306-Q311):

NEW QUESTION # 306

You have an Azure Synapse Analytics dedicated SQL pool that contains the users shown in the following table.

Name	Role
User1	Server admin
User2	db_datereader

User1 executes a query on the database, and the query returns the results shown in the following exhibit.

```

1 SELECT c.name,
2       tbl.name as table_name,
3       typ.name as datatype,
4       c.is_masked,
5       c.masking_function
6 FROM sys.masked_columns AS c
7 INNER JOIN sys.tables AS tbl ON c.[object_id] = tbl.[object_id]
8 INNER JOIN sys.types typ ON c.user_type_id = typ.user_type_id
9 WHERE is_masked = 1;
10

```

Results Messages

	name	table_name	datatype	is_masked	masking_function
1	BirthDate	DimCustomer	date	1	default()
2	Gender	DimCustomer	nvarchar	1	default()
3	EmailAddress	DimCustomer	nvarchar	1	email()
4	YearlyIncome	DimCustomer	money	1	default()

User1 is the only user who has access to the unmasked data.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

When User2 queries the YearlyIncome column, the values returned will be [answer choice].

▼

a random number
the values stored in the database
XXXX
0

When User1 queries the BirthDate column, the values returned will be [answer choice].

▼

a random date
the values stored in the database
XXXX
1900-01-01

Answer:

Explanation:

When User2 queries the YearlyIncome column, the values returned will be [answer choice].

Microsoft

a random number
the values stored in the database
XXXX
0

When User1 queries the BirthDate column, the values returned will be [answer choice].

a random date
the values stored in the database
XXXX
1900-01-01

Explanation:

Graphical user interface, text, application, email Description automatically generated

When User2 queries the YearlyIncome column, the values returned will be [answer choice].

When User1 queries the BirthDate column, the values returned will be [answer choice].

a random number
the values stored in the database
XXXX
0

a random date
the values stored in the database
XXXX
1900-01-01

Box 1: 0

The YearlyIncome column is of the money data type.

The Default masking function: Full masking according to the data types of the designated fields

* Use a zero value for numeric data types (bigint, bit, decimal, int, money, numeric, smallint, smallmoney, tinyint, float, real).

Box 2: the values stored in the database

Users with administrator privileges are always excluded from masking, and see the original data without any mask.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview>

NEW QUESTION # 307

You have an enterprise data warehouse in Azure Synapse Analytics named DW1 on a server named Server1.

You need to verify whether the size of the transaction log file for each distribution of DW1 is smaller than 160 GB.

What should you do?

- A. On DW1, execute a query against the sys.database_files dynamic management view.
- B. On the master database, execute a query against the sys.dm_pdw_nodes_os_performance_counters dynamic management view.
- C. From Azure Monitor in the Azure portal, execute a query against the logs of DW1.
- D. Execute a query against the logs of DW1 by using the Get-AzOperationalInsightSearchResult PowerShell cmdlet.

Answer: B

Explanation:

Explanation

The following query returns the transaction log size on each distribution. If one of the log files is reaching 160 GB, you should consider scaling up your instance or limiting your transaction size.

-- Transaction log size

SELECT

instance_name as distribution_db,

cntr_value*1.0/1048576 as log_file_size_used_GB,

pdw_node_id

FROM sys.dm_pdw_nodes_os_performance_counters

WHERE

instance_name like 'Distribution_%'

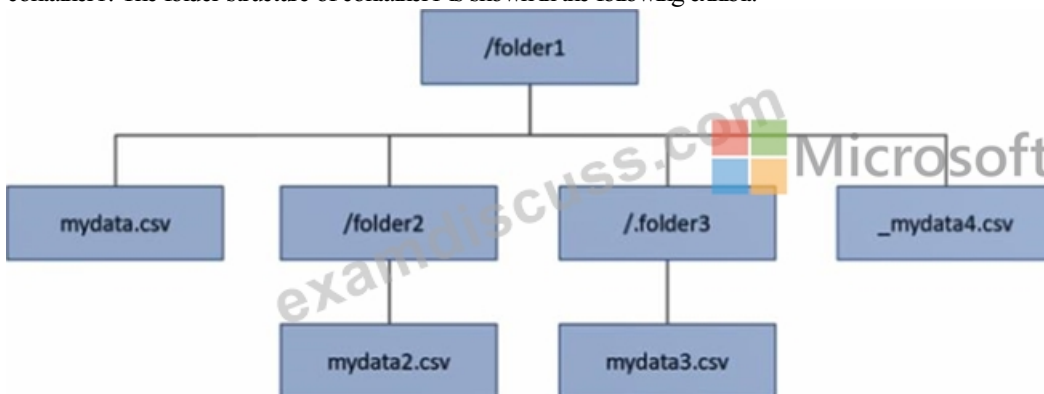
AND counter_name = 'Log File(s) Used Size (KB)'

References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-manage-monitor>

NEW QUESTION # 308

You have an Azure Data Lake Storage Gen2 account that contains a container named container1. You have an Azure Synapse Analytics serverless SQL pool that contains a native external table named dbo.Table1. The source data for dbo.Table1 is stored in container1. The folder structure of container1 is shown in the following exhibit.



The external data source is defined by using the following statement.

```
CREATE EXTERNAL DATA SOURCE DataLake
WITH
(
    LOCATION = 'https://mydatalake.dfs.core.windows.net/container1/folder1/**'
    , CREDENTIAL = DataLakeCred
);
```

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
When selecting all the rows in dbo.Table1, data from the mydata2.csv file will be returned.	<input type="radio"/>	<input type="radio"/>
When selecting all the rows in dbo.Table1, data from the mydata3.csv file will be returned.	<input type="radio"/>	<input type="radio"/>
When selecting all the rows in dbo.Table1, data from the _mydata4.csv file will be returned.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements

Yes No

When selecting all the rows in dbo.Table1, data from the mydata2.csv file will be returned.

☒ ☐

When selecting all the rows in dbo.Table1, data from the mydata3.csv file will be returned.

☒ ☐

When selecting all the rows in dbo.Table1, data from the _mydata4.csv file will be returned.

☐ ☒

Explanation

Box 1: Yes

In the serverless SQL pool you can also use recursive wildcards /logs/** to reference Parquet or CSV files in any sub-folder beneath the referenced folder.

Box 2: Yes

Box 3: No

Reference: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables>

NEW QUESTION # 309

You are planning the deployment of Azure Data Lake Storage Gen2.

You have the following two reports that will access the data lake:

* Report1: Reads three columns from a file that contains 50 columns.

* Report2: Queries a single record based on a timestamp.

You need to recommend in which format to store the data in the data lake to support the reports. The solution must minimize read times.

What should you recommend for each report? To answer, select the appropriate options in the answer area.

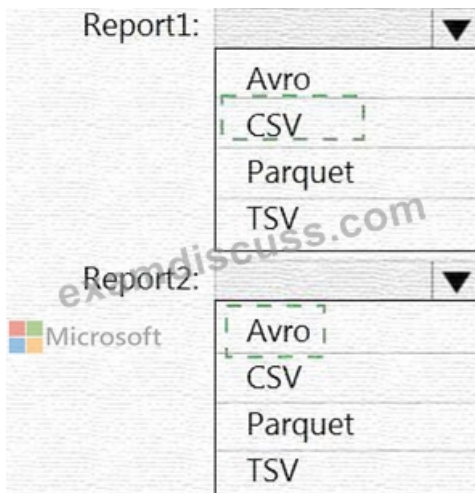
NOTE: Each correct selection is worth one point.

Report1:  

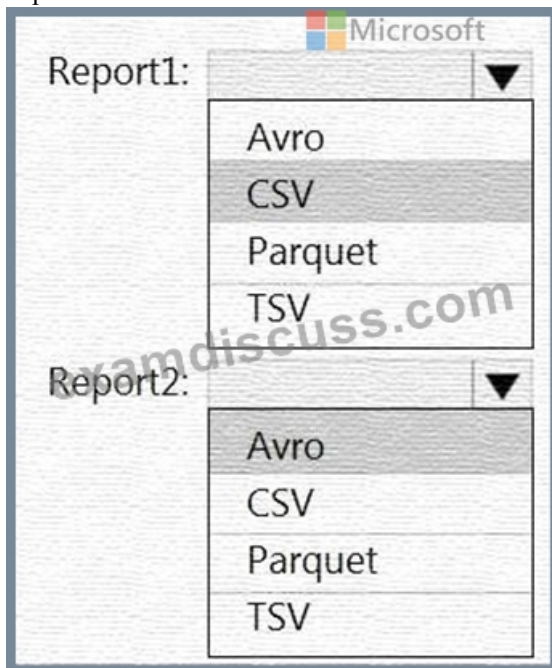
Report2: 

Answer:

Explanation:



Explanation:



Report1: CSV

CSV: The destination writes records as delimited data.

Report2: AVRO

AVRO supports timestamps.

Not Parquet, TSV: Not options for Azure Data Lake Storage Gen2.

Reference:

<https://streamsets.com/documentation/datacollector/latest/help/datacollector/UserGuide/Destinations/ADLS- G2-D.html>

NEW QUESTION # 310

You have an Azure Synapse Analytics dedicated SQL pool that contains the users shown in the following table.

Name	Role
User1	Server admin
User2	db_datereader

User1 executes a query on the database, and the query returns the results shown in the following exhibit.

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3       typ.name as datatype,
4       c.is_masked,
5       c.masking_function
6 FROM sys.masked_columns AS c
7 INNER JOIN sys.tables AS tbl ON c.[object_id] = tbl.[object_id]
8 INNER JOIN sys.types typ ON c.user_type_id = typ.user_type_id
9 WHERE is_masked = 1;
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```

Results Messages

	name	table_name	datatype	is_masked	masking_function
1	BirthDate	DimCustomer	date	1	default()
2	Gender	DimCustomer	nvarchar	1	default()
3	EmailAddress	DimCustomer	nvarchar	1	email()
4	YearlyIncome	DimCustomer	money	1	default()

User1 is the only user who has access to the unmasked data.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

When User2 queries the YearlyIncome column,
the values returned will be **[answer choice]**.

▼

- a random number
- the values stored in the database
- XXXX
- 0

When User1 queries the BirthDate column, the
values returned will be **[answer choice]**.

▼

- a random date
- the values stored in the database
- XXXX
- 1900-01-01

Answer:

Explanation:

When User2 queries the YearlyIncome column, the values returned will be [answer choice].

a random number
the values stored in the database
XXXX
0

When User1 queries the BirthDate column, the values returned will be [answer choice].

a random date
the values stored in the database
XXXX
1900-01-01

Explanation:

When User2 queries the YearlyIncome column, the values returned will be [answer choice].

a random number
the values stored in the database
XXXX
0

When User1 queries the BirthDate column, the values returned will be [answer choice].

a random date
the values stored in the database
XXXX
1900-01-01

Box 1: 0

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Box 2: the values stored in the database

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Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview>

NEW QUESTION # 311

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