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## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q11-Q16):

### NEW QUESTION # 11

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains a table named Customer. Customer contains the following data.

CustomerID	FirstName	LastName	Phone	CreditCard
1	John	Doe	555-123-4567	1234567812345670
2	Jane	Smith	555-987-6543	8765432187654320
3	Michael	Johnson	555-555-5555	1234987654321230
4	Emily	Davis	555-222-3333	4321123456789870
5	David	Brown	555-444-5555	5678123498761230

You have an internal Microsoft Entra user named User1 that has an email address of user1@contoso.com.

You need to provide User1 with access to the Customer table. The solution must prevent User1 from accessing the CreditCard column.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

GRANT

SELECT

ALTER

EXECUTE

READ

SELECT

VIEW

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

User1

[User1]

[user1@contoso.com]

Answer:

Explanation:

Answer Area



Microsoft

GRANT

SELECT

ALTER

EXECUTE

READ

SELECT

VIEW

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

User1

[User1]

[user1@contoso.com]

Explanation:

Answer Area

GRANT

SELECT

ALTER

EXECUTE

READ

SELECT

VIEW

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

## NEW QUESTION # 12

You need to create the product dimension.

How should you complete the Apache Spark SQL code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
SELECT ProductID, ProductNumber, ProductName, ModelName, SubCategoryName, CategoryName
FROM ContosoLake.Products p
```

ContosoLake.ProductSubCategories s ON p.SubCategoryID = s.SubCategoryID

FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

ContosoLake.ProductCategories c ON c.CategoryID = s.CategoryID

FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

WHERE

CategoryID = 1;
CategoryName is not null;
IsActive = 1;
IsActive is not null;
ProductNumber is not null;
SubCategoryID = 1;
SubCategoryName is not null;



**Answer:**

**Explanation:**

```
SELECT ProductID, ProductNumber, ProductName, ModelName, SubCategoryName, CategoryName
FROM ContosoLake.Products p
```

ContosoLake.ProductSubCategories s ON p.SubCategoryID = s.SubCategoryID

FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

ContosoLake.ProductCategories c ON c.CategoryID = s.CategoryID

FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

WHERE

CategoryID = 1;
CategoryName is not null;
IsActive = 1;
IsActive is not null;
ProductNumber is not null;
SubCategoryID = 1;
SubCategoryName is not null;

### NEW QUESTION # 13

#### HOTSPOT

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains the following tables and columns.

Table name	Column name	Data type
Employee	EmployeeID	Int
Employee	EmployeeName	Varchar(128)
Employee	EmployeePosition	Varchar(64)
Contract	EmployeeID	Int
Contract	ContractType	Varchar(64)
Contract	StartDate	Datetime2
Contract	EndDate	Datetime2

You need to denormalize the tables and include the ContractType and StartDate columns in the Employee table. The solution must meet the following requirements:

Ensure that the StartDate column is of the date data type.

Ensure that all the rows from the Employee table are preserved and include any matching rows from the Contract table.

Ensure that the result set displays the total number of employees per contract type for all the contract types that have more than two employees.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```

WITH result AS(
SELECT e.EmployeeID
    , e.EmployeeName
    , e.EmployeePosition
    , c.ContractType
    , (date, c.StartDate) as startdate
FROM Employee AS e
    Contract AS c on c.EmployeeID = e.EmployeeID
)
SELECT COUNT(DISTINCT EmployeeID) AS TotalEmployees
    , ContractType
FROM result
GROUP BY ContractType
    COUNT(DISTINCT EmployeeID) > 2

```

Options for the first dropdown (next to 'startdate'):

- CAST
- CONVERT
- REPLACE
- SUBSTRING

Options for the second dropdown (next to 'Contract AS c on c.EmployeeID = e.EmployeeID'):

- CROSS JOIN
- INNER JOIN
- LEFT OUTER JOIN
- RIGHT OUTER JOIN

Options for the third dropdown (next to 'COUNT(DISTINCT EmployeeID) > 2'):

- CONTAINS
- HAVING
- LIMIT
- WHERE

**Answer:**

Explanation:

**Answer Area**

```
WITH result AS(
SELECT e.EmployeeID
      , e.EmployeeName
      , e.EmployeePosition
      , c.ContractType
      , (date, c.StartDate) as StartDate
FROM Employee AS e
      Contract AS c on c.EmployeeID = e.EmployeeID
)
SELECT COUNT(DISTINCT EmployeeID) AS TotalEmployees
      , ContractType
FROM result
GROUP BY ContractType
      COUNT(DISTINCT EmployeeID) > 2
```

Microsoft

#### NEW QUESTION # 14

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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a KQL database that contains two tables named Stream and Reference. Stream contains streaming data in the following format.

Column name	Data type
Timestamp	Datetime
GeoLocation	Dynamic
Temperature	Decimal
DeviceId	Int

Reference contains reference data in the following format.

Column name	Data type
DeviceId	Int
DeviceName	String

Both tables contain millions of rows.

You have the following KQL queryset.

01 Stream

```
02 | extend lat = todecimal(GeoLocation.Latitude), long = todecimal(GeoLocation.Longitude)
03 | join kind=inner Reference on DeviceId
04 | project Timestamp, lat, long, Temperature, DeviceName
05 | filter Temperature >= 10
06 | render scatterchart with (kind = map)
```

You need to reduce how long it takes to run the KQL queryset.

Solution: You move the filter to line 02.

Does this meet the goal?

- A. No
- B. Yes

**Answer: B**

Explanation:

Moving the filter to line 02: Filtering the Stream table before performing the join operation reduces the number of rows that need to be processed during the join. This is an effective optimization technique for queries involving large datasets.

### NEW QUESTION # 15

You have an Azure event hub. Each event contains the following fields:

BikepointID

Street

Neighbourhood

Latitude

Longitude

No\_Bikes

No\_Empty\_Docks

You need to ingest the events. The solution must only retain events that have a Neighbourhood value of Chelsea, and then store the retained events in a Fabric lakehouse.

What should you use?

- A. an eventstream
- B. Apache Spark Structured Streaming
- C. a KQL queryset
- D. a streaming dataset

**Answer: A**

Explanation:

An eventstream is the best solution for ingesting data from Azure Event Hub into Fabric, while applying filtering logic such as retaining only the events that have a Neighbourhood value of "Chelsea." Eventstreams in Microsoft Fabric are designed for handling real-time data streams and can apply transformation logic directly on incoming events. In this case, the eventstream can filter events based on the Neighbourhood field before storing the retained events in a Fabric lakehouse.

Eventstreams are well-suited for stream processing, such as this case where you need to filter out only specific data (events with a Neighbourhood of "Chelsea") before storing it in the lakehouse.

### NEW QUESTION # 16

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