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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q61-Q66):

NEW QUESTION # 61

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

```

Answer:

Explanation:

TH result AS(
 SELECT e.EmployeeID
 , e.EmployeeName
 , e.EmployeePosition
 , c.ContractType
 , (date, c.StartDate) as StartDate
 FROM Employee AS e
 JOIN Contract AS c ON c.EmployeeID = e.EmployeeID
 SELECT COUNT(DISTINCT EmployeeID) AS TotalEmployees
 ContractType
 FROM result
 GROUP BY ContractType
 HAVING COUNT(DISTINCT EmployeeID) > 2
 ORDER BY
 LIMIT

Explanation:



Answer Area



Microsoft

WITH result AS(

SELECT e.EmployeeID

, e.EmployeeName

, e.EmployeePosition

, c.ContractType

, (date, c.StartDate) as StartDate

CAST

CONVERT

REPLACE

SUBSTRING

FROM Employee AS e

Contract AS c on c.EmployeeID = e.EmployeeID

CROSS JOIN
INNER JOIN
LEFT OUTER JOIN
RIGHT OUTER JOIN

)

SELECT COUNT(DISTINCT EmployeeID) AS TotalEmployees

, ContractType

FROM result

GROUP BY ContractType

COUNT(DISTINCT EmployeeID) > 2

CONTAINS
HAVING
UNIT
WHERE

NEW QUESTION # 62

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains a table named DimCustomers. DimCustomers contains the following columns:

- * CustomerName
- * CustomerID
- * BirthDate
- * Email

You need to configure security to meet the following requirements:

* BirthDate in DimCustomer must be masked and display 1900-01-01.

* Email in DimCustomer must be masked and display only the first leading character and the last five characters.

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

```
ALTER TABLE DimCustomer
ALTER COLUMN BirthDate
ADD MASKED WITH (FUNCTION =
```

'default()'

'default()'

'partial(1900-01-01)'

'random(1900-01-01, 1900-01-01)'

```
)

ALTER TABLE DimCustomer
ALTER COLUMN EmailAddress
ADD MASKED WITH (FUNCTION =
```

'random(1, "@", 5)'

'default()'

'email()'

'partial(1, "@", 5)'

'random(1, "@", 5)'

Microsoft

Answer:

Explanation:

Answer Area

```
ALTER TABLE DimCustomer
ALTER COLUMN BirthDate
ADD MASKED WITH (FUNCTION =
```

'default()'

'default()'

'partial(1900-01-01)'

'random(1900-01-01, 1900-01-01)'

```
ALTER TABLE DimCustomer
ALTER COLUMN EmailAddress
ADD MASKED WITH (FUNCTION =
```

'random(1, "@", 5)'

'default()'

'email()'

'partial(1, "@", 5)'

'random(1, "@", 5)'

NEW QUESTION # 63

HOTSPOT

You have a Fabric workspace.

You are debugging a statement and discover the following issues:

Sometimes, the statement fails to return all the expected rows.

The PurchaseDate output column is NOT in the expected format of mmm dd, yy.

You need to resolve the issues. The solution must ensure that the data types of the results are retained. The results can contain blank cells.

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

NOTE: Each correct selection is worth one point.

FROM

SELECT

item_id as ItemId

as ItemName
,convert(varchar(20), item_name)
,convert(varchar(max), item_name)
,try_cast(item_name as varchar(20))
,item_description as ItemDescription

as PurchaseDate
,convert(varchar, purchase_date, 7)
,convert(varchar, purchase_date, 109)
,convert(varchar, purchase_date, 112)

FROM

Table1

WHERE

item_type = @itemtype_parameter

Answer:

Explanation:

Answer Area

SELECT

item_id as ItemId

as ItemName
,convert(varchar(20), item_name)
,convert(varchar(max), item_name)
,try_cast(item_name as varchar(20))
,item_description as ItemDescription
as PurchaseDate
,convert(varchar, purchase_date, 7)
,convert(varchar, purchase_date, 109)
,convert(varchar, purchase_date, 112)

FROM

Table1

WHERE

item_type = @itemtype_parameter

NEW QUESTION # 64

You need to recommend a Fabric streaming solution that will use the sources shown in the following table.

Name	Message size	Description
Source1	10 MB	Contains semi-structured data that has a bigint column in the messages
Source2	25 MB	Contains structured data that has 19 columns
Source3	5 MB	Contains unstructured data that has images in the messages

The solution must minimize development effort.

What should you include in the recommendation for each source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Source1:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline
- A streaming dataflow**
- An eventstream

Source2:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline**
- A streaming dataflow

Source3:

- Apache Spark Structured Streaming
- An eventstream**
- A data pipeline
- A streaming dataflow

Answer:

Explanation:

Answer Area

Source1:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline
- A streaming dataflow**
- An eventstream

Source2:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline**
- A streaming dataflow

Source3:

- Apache Spark Structured Streaming
- An eventstream**
- A data pipeline
- A streaming dataflow

Explanation:

Answer Area

Source1: A streaming dataflow

Source2: A data pipeline

Source3: An eventstream

NEW QUESTION # 65

HOTSPOT

You have a Fabric workspace that contains two lakehouses named Lakehouse1 and Lakehouse2. Lakehouse1 contains staging data in a Delta table named Orderlines. Lakehouse2 contains a Type 2 slowly changing dimension (SCD) dimension table named Dim_Customer.

You need to build a query that will combine data from Orderlines and Dim_Customer to create a new fact table named Fact_Orders. The new table must meet the following requirements:

Enable the analysis of customer orders based on historical attributes.

Enable the analysis of customer orders based on the current attributes.

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

NOTE: Each correct selection is worth one point.

```

ELECT
  orderlineid order_line_id
  ,orderdate order_date
  ,c.customer_key
  ,c.customer_id
  ,quantity order_quantity
  ,unitprice unit_price
  ,taxrate tax_rate
FROM
  Lakehouse1.orderlines o
  INNER JOIN
  Lakehouse2.dim_customer c
    ON o.customer_id = c.customer_id
  AND
    c.is_current = 1
    o.OrderDate >= c.valid_to_datetime
    o.OrderDate >= c.valid_from_datetime
  AND
    c.is_current = 1
    o.OrderDate <= c.valid_to_datetime
    o.OrderDate <= c.valid_from_datetime

```

Answer:

Explanation:

```

ELECT
  orderlineid order_line_id
  ,orderdate order_date
  ,c.customer_key
  ,c.customer_id
  ,quantity order_quantity
  ,unitprice unit_price
  ,taxrate tax_rate
FROM
  Lakehouse1.orderlines o
  INNER JOIN
  Lakehouse2.dim_customer c
    ON o.customer_id = c.customer_id
  AND
    c.is_current = 1
    o.OrderDate >= c.valid_to_datetime
    o.OrderDate >= c.valid_from_datetime
  AND
    c.is_current = 1
    o.OrderDate <= c.valid_to_datetime
    o.OrderDate <= c.valid_from_datetime

```

Explanation:

Answer Area

```

SELECT
  OrderLineID order_line_id
  ,OrderDate order_date
  ,c.customer_key
  ,c.customer_id
  ,Quantity order_quantity
  ,UnitPrice unit_price
  ,TaxRate tax_rate
FROM
  Lakehouse1.orderlines o
INNER JOIN
  Lakehouse2.dim_customer c
  ON o.customerId = c.customer_id
AND
  c.is_current = 1
  o.OrderDate > c.valid_to_datetime
  o.OrderDate >= c.valid_from_datetime
AND
  c.is_current = 1
  o.OrderDate < c.valid_to_datetime
  o.OrderDate <= c.valid_from_datetime

```

Microsoft

NEW QUESTION # 66

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