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The diagram illustrates a Microsoft Fabric architecture for data engineering practice. It features a 'dev workspace' containing four notebooks (notebook04, notebook03, notebook02, notebook01) and two lakehouses (lakehouse02, lakehouse01). A 'test workspace' contains a notebook (notebook05). Two clients, 'client one' and 'client two', are connected to the system. A 'High concurrency Spark session' is shown with arrows pointing from the notebooks to the lakehouses. A 'contributor access' arrow points from the dev workspace to the test workspace. A 'master to slave' arrow points from the dev workspace to the test workspace.

**Official Tests Part 1**

## DP-700 Fabric Data Engineer Practice Tests

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## Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.</li></ul>

**Topic 3**

- Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.

## **Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q71-Q76):**

### **NEW QUESTION # 71**

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:

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
    LEFT OUTER 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
```

**Answer:**

Explanation:

**Answer Area**

```
WITH result AS(
    SELECT e.EmployeeID
        , e.EmployeeName
        , e.EmployeePosition
        , c.ContractType
        , CASE (date, c.startdate) as startdate
        , CONVERT
        , REPLACE
        , SUBSTRING
    FROM Employee AS e
    CROSS JOIN Contract AS c ON c.EmployeeID = e.EmployeeID
    LEFT OUTER JOIN
    RIGHT OUTER JOIN
)
SELECT COUNT(DISTINCT EmployeeID) AS TotalEmployees
    , ContractType
    FROM result
    GROUP BY ContractType
    HAVING COUNT(DISTINCT EmployeeID) > 2
    CONTAINING
    LIMIT
    WHERE
```

**NEW QUESTION # 72**

You have a Fabric workspace.

You are debugging a statement and discover the following issues:

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.

## Answer Area

```
SELECT
    item_id as ItemID
    ,convert(varchar(20),item_name)
    ,convert(varchar(max),item_name)
    ,try_cast(item_name as varchar(20))
    ,item_description as ItemDescription
    ,convert(varchar,purchase_date,7)
    ,convert(varchar,purchase_date,109)
    ,convert(varchar,purchase_date,112)
    as PurchaseDate
FROM
    Table1
WHERE
    item_type = @itemtype_parameter
```

Answer:

Explanation:

```
LECT
item_id as ItemID
    ,convert(varchar(20),item_name)
    ,convert(varchar(max),item_name)
    try_cast(item_name as varchar(20))
    ,item_description as ItemDescription
    ,convert(varchar,purchase_date,7)
    ,convert(varchar,purchase_date,109)
    ,convert(varchar,purchase_date,112)
    as PurchaseDate
FROM
    Table1
WHERE
    item_type = @itemtype_parameter
```

## NEW QUESTION # 73

### 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.

```
SELECT
    orderlineid order_line_id
    ,orderdate order_date
    ,r.customer_key
    ,r.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
```

**Answer:**

Explanation:

Answer Area

```
SELECT
    orderlineid order_line_id
    ,orderdate order_date
    ,r.customer_key
    ,r.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
    Microsoft

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 t

AND

c.is_current = 1
o.OrderDate < c.valid_to_datetime
o.OrderDate <= c.valid_from_datetime

**NEW QUESTION # 74**

You have a Fabric workspace named Workspace1 that contains a warehouse named Warehouse1.

You plan to deploy Warehouse1 to a new workspace named Workspace2.

As part of the deployment process, you need to verify whether Warehouse1 contains invalid references. The solution must minimize development effort.

What should you use?

- A. a Python script
- B. a database project
- C. a deployment pipeline
- D. a T-SQL script

**Answer: A**

Explanation:

A deployment pipeline in Fabric allows you to deploy assets like warehouses, datasets, and reports between different workspaces (such as from Workspace1 to Workspace2). One of the key features of a deployment pipeline is the ability to check for invalid references before deployment. This can help identify issues with assets, such as broken links or dependencies, ensuring the deployment is successful without introducing errors. This is the most efficient way to verify references and manage the deployment with minimal development effort.

## NEW QUESTION # 75

You have a Fabric workspace that contains a data pipeline named Pipeline! as shown in the exhibit. (Click the Exhibit tab.) What will occur the next time Pipeline! runs?

Activity name	Activity status	Run start	Duration	Input
Copy_kdi	Succeeded	8/8/2024, 2:36:27 PM	33s	
Execute procedure1	Inactive	8/8/2024, 2:36:27 PM	Less than 1s	

- A. Both activities will run simultaneously.
- B. Execute procedure1 will run and Copy\_kdi will be skipped.
- C. Copy\_kdi will run and Execute procedure1 will be skipped.
- D. Copy\_kdi will run first, and then Execute procedure1 will run.
- E. Both activities will be skipped.**
- F. Execute procedure1 will run first, and then Copy\_kdi will run.

**Answer: E**

## NEW QUESTION # 76

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