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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.

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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q10-Q15):

NEW QUESTION # 10

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.

LECT

```
item_id as ItemId
```

The screenshot shows a SQL query editor with two dropdown menus. The first dropdown is for the 'item_name' column and contains the following options: `,convert(varchar(20), item_name)`, `,convert(varchar(max), item_name)`, and `,try_cast(item_name as varchar(20))`. The second dropdown is for the 'PurchaseDate' column and contains the following options: `,convert(varchar, purchase_date, 7)`, `,convert(varchar, purchase_date, 109)`, and `,convert(varchar, purchase_date, 112)`. The Microsoft logo is visible in the background.

DM

Table1

ERC

```
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



Explanation:

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)
FROM
    Table1
WHERE
    item_type = @itemtype_parameter

```

as ItemName

as PurchaseDate

Topic 1, Litware, Inc Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a publishing company that has an online bookstore and several retail bookstores worldwide.

Litware also manages an online advertising business for the authors it represents.

Existing Environment. Fabric Environment

Litware has a Fabric workspace named Workspace1. High concurrency is enabled for Workspace1.

The company has a data engineering team that uses Python for data processing.

Existing Environment. Data Processing

The retail bookstores send sales data at the end of each business day, while the online bookstore constantly provides logs and sales data to a central enterprise resource planning (ERP) system.

Litware implements a medallion architecture by using the following three layers: bronze, silver, and gold. The sales data is ingested from the ERP system as Parquet files that land in the Files folder in a lakehouse.

Notebooks are used to transform the files in a Delta table for the bronze and silver layers. The gold layer is in a warehouse that has

V-Order disabled.

Litware has image files of book covers in Azure Blob Storage. The files are loaded into the Files folder.

Existing Environment. Sales Data

Month-end sales data is processed on the first calendar day of each month. Data that is older than one month never changes.

In the source system, the sales data refreshes every six hours starting at midnight each day.

The sales data is captured in a Dataflow Gen1 dataflow. When the dataflow runs, new and historical data is captured. The dataflow captures the following fields of the source:

Sales Date

Author

Price

Units

SKU

A table named AuthorSales stores the sales data that relates to each author. The table contains a column named AuthorEmail.

Authors authenticate to a guest Fabric tenant by using their email address.

Existing Environment. Security Groups

Litware has the following security groups:

Sales

Fabric Admins

Streaming Admins

Existing Environment. Performance Issues

Business users perform ad-hoc queries against the warehouse. The business users indicate that reports against the warehouse sometimes run for two hours and fail to load as expected. Upon further investigation, the data engineering team receives the following error message when the reports fail to load: "The SQL query failed while running." The data engineering team wants to debug the issue and find queries that cause more than one failure.

When the authors have new book releases, there is often an increase in sales activity. This increase slows the data ingestion process. The company's sales team reports that during the last month, the sales data has NOT been up-to-date when they arrive at work in the morning.

Requirements. Planned Changes

Litware recently signed a contract to receive book reviews. The provider of the reviews exposes the data in Amazon Simple Storage Service (Amazon S3) buckets.

Litware plans to manage Search Engine Optimization (SEO) for the authors. The SEO data will be streamed from a REST API.

Requirements. Version Control

Litware plans to implement a version control solution in Fabric that will use GitHub integration and follow the principle of least privilege.

Requirements. Governance Requirements

To control data platform costs, the data platform must use only Fabric services and items. Additional Azure resources must NOT be provisioned.

Requirements. Data Requirements

Litware identifies the following data requirements:

Process the SEO data in near-real-time (NRT).

Make the book reviews available in the lakehouse without making a copy of the data.

When a new book cover image arrives in the Files folder, process the image as soon as possible.

NEW QUESTION # 11

You have a Fabric .

In Warehouse1, you create a table named DimCustomer by running the following statement.

```
CREATE TABLE dbo.DimCustomer (
  CustomerKey VARCHAR(255) NOT NULL,
  Name VARCHAR(255) NOT NULL,
  Email VARCHAR(255) NOT NULL
);
```

You need to set the Customerkey column as a primary key of the DimCustomer table.

Which three code segments should you run in sequence? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

Code Segments	Answer Area
<pre>0 DROP CONSTRAINT PK_DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY NONCLUSTERED (CustomerKey)</pre>	
<pre>0 NOT ENFORCED</pre>	
<pre>0 ALTER TABLE dbo.DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY CLUSTERED (CustomerKey)</pre>	
<pre>0 ENFORCED</pre>	

Answer:

Explanation:

Code Segments	Answer Area
<pre>0 DROP CONSTRAINT PK_DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY NONCLUSTERED (CustomerKey)</pre>	
<pre>0 NOT ENFORCED</pre>	
<pre>0 ALTER TABLE dbo.DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY CLUSTERED (CustomerKey)</pre>	
<pre>0 ENFORCED</pre>	

Explanation:

Code Segments	Answer Area
<pre>0 DROP CONSTRAINT PK_DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY NONCLUSTERED (CustomerKey)</pre>	
<pre>0 NOT ENFORCED</pre>	
<pre>0 ALTER TABLE dbo.DimCustomer</pre>	
<pre>0 ADD CONSTRAINT PK_DimCustomer PRIMARY KEY CLUSTERED (CustomerKey)</pre>	
<pre>0 ENFORCED</pre>	

NEW QUESTION # 12

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. Yes
- B. No

Answer: A

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 # 13

You have two Fabric workspaces named Workspace1 and Workspace2.

You have a Fabric deployment pipeline named deployPipeline1 that deploys items from Workspace1 to Workspace2.

DeployPipeline1 contains all the items in Workspace1.

You recently modified the items in Workspaces1.

The workspaces currently contain the items shown in the following table.

Workspace	Items
Workspace1	Model1 Notebook1 Report1 Lakehouse1 Pipeline1
Workspace2	Model1 Notebook2 Report1 Lakehouse2

Items in Workspace1 that have the same name as items in Workspace2 are currently paired.

You need to ensure that the items in Workspace1 overwrite the corresponding items in Workspace2. The solution must minimize effort.

What should you do?

- A. Rename each item in Workspace2 to have the same name as the items in Workspace1.
- B. Back up the items in Workspace2, and then run deployPipeline1.
- C. Delete all the items in Workspace2, and then run deployPipeline1.

- D. Run deployPipeline1 without modifying the items in Workspace2.

Answer: D

Explanation:

When running a deployment pipeline in Fabric, if the items in Workspace1 are paired with the corresponding items in Workspace2 (based on the same name), the deployment pipeline will automatically overwrite the existing items in Workspace2 with the modified items from Workspace1. There's no need to delete, rename, or back up items manually unless you need to keep versions. By simply running deployPipeline1, the pipeline will handle overwriting the existing items in Workspace2 based on the pairing, ensuring the latest version of the items is deployed with minimal effort.

NEW QUESTION # 14

You have a Fabric workspace named Workspace1. Your company acquires GitHub licenses.

You need to configure source control for Workspace1 to use GitHub. The solution must follow the principle of least privilege. Which permissions do you require to ensure that you can commit code to GitHub?

- A. Actions (Read and write) and Contents (Read and write)
- B. Contents (Read and write) only
- C. Contents (Read) and Commit statuses (Read and write)
- D. Actions (Read and write) only

Answer: B

NEW QUESTION # 15

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