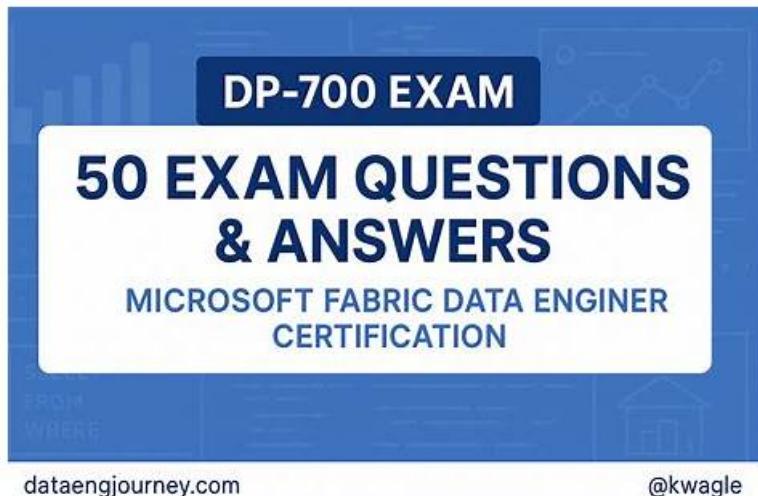


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Microsoft DP-700 Exam Syllabus Topics:

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 real exam. Once there are latest versions released, we will send it to your email immediately.

Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q88-Q93):

NEW QUESTION # 88

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 <code>bigint</code> 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: A streaming dataflow Apache Spark Structured Streaming An eventstream A data pipeline A streaming dataflow An eventstream

Source2: A data pipeline Apache Spark Structured Streaming An eventstream A data pipeline A streaming dataflow

Source3: An eventstream Apache Spark Structured Streaming An eventstream A data pipeline A streaming dataflow

Answer:

Explanation:

Answer Area

Source1: A streaming dataflow
Apache Spark Structured Streaming
An eventstream
A data pipeline
A streaming dataflow

Source2: A data pipeline
Apache Spark Structured Streaming
An eventstream
A data pipeline
A streaming dataflow

Source3: An eventstream
Apache Spark Structured Streaming
An eventstream
A data pipeline
A streaming dataflow

NEW QUESTION # 89

You have a Fabric workspace named Workspace1 that contains a warehouse named DW1 and a data pipeline named Pipeline1. You plan to add a user named User3 to Workspace1.

You need to ensure that User3 can perform the following actions:

View all the items in Workspace1.

Update the tables in DW1.

The solution must follow the principle of least privilege.

You already assigned the appropriate object-level permissions to DW1.

Which workspace role should you assign to User3?

- A. Member
- B. Viewer
- C. Admin
- **D. Contributor**

Answer: D

Explanation:

To ensure User3 can view all items in Workspace1 and update the tables in DW1, the most appropriate workspace role to assign is the Contributor role. This role allows User3 to:

View all items in Workspace1: The Contributor role provides the ability to view all objects within the workspace, such as data pipelines, warehouses, and other resources.

Update the tables in DW1: The Contributor role allows User3 to modify or update resources within the workspace, including the tables in DW1, assuming that appropriate object-level permissions are set for the warehouse.

This role adheres to the principle of least privilege, as it provides the necessary permissions without granting broader administrative rights.

NEW QUESTION # 90

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.

```
ELECT
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:

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

Explanation:

Answer Area

Microsoft

```

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

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 # 91

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`

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

`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`

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

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;

Explanation:

A screenshot of a computer Description automatically generated

```
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;

Join between Products and ProductSubCategories:

Use an INNER JOIN.

The goal is to include only products that are assigned to a subcategory. An INNER JOIN ensures that only matching records (i.e., products with a valid subcategory) are included.

Join between ProductSubCategories and ProductCategories:

Use an INNER JOIN.

Similar to the above logic, we want to include only subcategories assigned to a valid product category. An INNER JOIN ensures this condition is met.

WHERE Clause

Condition: IsActive = 1

Only active products (where IsActive equals 1) should be included in the gold layer. This filters out inactive products.

NEW QUESTION # 92

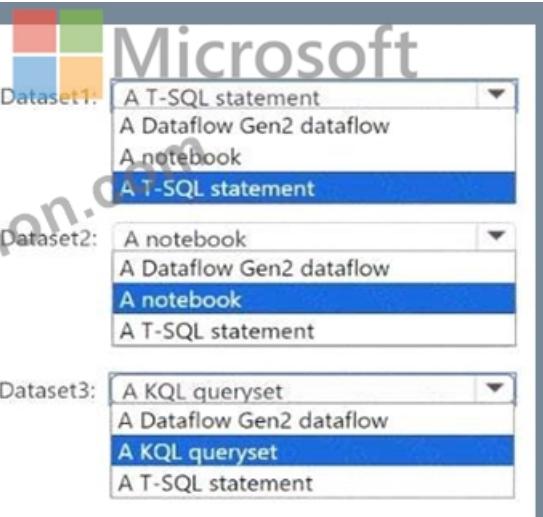
You plan to process the following three datasets by using Fabric:

- * Dataset1: This dataset will be added to Fabric and will have a unique primary key between the source and the destination. The unique primary key will be an integer and will start from 1 and have an increment of 1.
- * Dataset2: This dataset contains semi-structured data that uses bulk data transfer. The dataset must be handled in one process between the source and the destination. The data transformation process will include the use of custom visuals to understand and work with the dataset in development mode.
- * Dataset3. This dataset is in a takehouse. The data will be bulk loaded. The data transformation process will include row-based windowing functions during the loading process.

You need to identify which type of item to use for the datasets. The solution must minimize development effort and use built-in functionality, when possible. What should you identify for each dataset? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Dataset1: A T-SQL statement
A Dataflow Gen2 dataflow
A notebook
A T-SQL statement

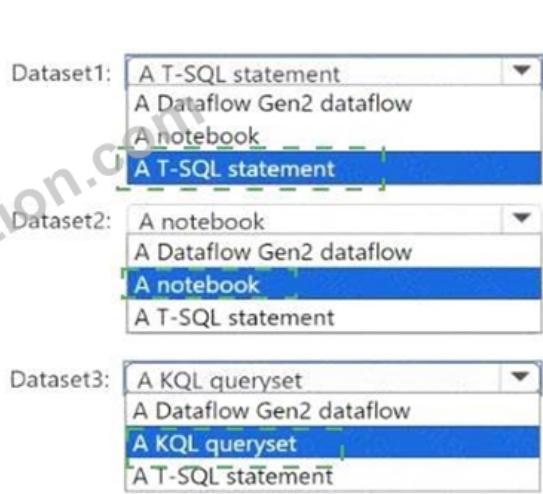
Dataset2: A notebook
A Dataflow Gen2 dataflow
A notebook
A T-SQL statement

Dataset3: A KQL queryset
A Dataflow Gen2 dataflow
A KQL queryset
A T-SQL statement

Answer:

Explanation:

Answer Area



Dataset1: A T-SQL statement
A Dataflow Gen2 dataflow
A notebook
A T-SQL statement

Dataset2: A notebook
A Dataflow Gen2 dataflow
A notebook
A T-SQL statement

Dataset3: A KQL queryset
A Dataflow Gen2 dataflow
A KQL queryset
A T-SQL statement

Explanation:



NEW QUESTION # 93

.....

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