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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q58-Q63):

NEW QUESTION # 58

You have a Fabric tenant that contains a data pipeline.

You need to ensure that the pipeline runs every four hours on Mondays and Fridays.

To what should you set Repeat for the schedule?

- A. Daily
- B. By the minute
- C. Hourly
- D. Weekly

Answer: D

Explanation:

Topic 1, Litware. Inc.

Overview

Litware, Inc. is a manufacturing company that has offices throughout North America. The analytics team at Litware contains data engineers, analytics engineers, data analysts, and data scientists.

Existing Environment

litware has been using a Microsoft Power BI tenant for three years. Litware has NOT enabled any Fabric capacities and features.

Fabric Environment

Litware has data that must be analyzed as shown in the following table.

Description	Original source	Total size
Customer data	Customer relationship management (CRM) system	50 MB
Product data	Customer relationship management (CRM) system	200 MB
Customer satisfaction surveys	SurveyMonkey	500 GB

The Product data contains a single table and the following columns.

Name	Data type
ProductID	Integer
ProductName	String
ProductCategory	String
ListPrice	Decimal

The customer satisfaction data contains the following tables:

- * Survey
- * Question
- * Response

For each survey submitted, the following occurs:

- * One row is added to the Survey table.
- * One row is added to the Response table for each question in the survey.

The Question table contains the text of each survey question. The third question in each survey response is an overall satisfaction score. Customers can submit a survey after each purchase.

User Problems

The analytics team has large volumes of data, some of which is semi-structured. The team wants to use Fabric to create a new data store.

Product data is often classified into three pricing groups: high, medium, and low. This logic is implemented in several databases and semantic models, but the logic does NOT always match across implementations.

Planned Changes

Litware plans to enable Fabric features in the existing tenant. The analytics team will create a new data store as a proof of concept (PoC). The remaining Litware users will only get access to the Fabric features once the PoC is complete. The PoC will be completed by using a Fabric trial capacity.

The following three workspaces will be created:

- * AnalyticsPOC: Will contain the data store, semantic models, reports, pipelines, dataflows, and notebooks used to populate the data store

- * DataEngPOC: Will contain all the pipelines, dataflows, and notebooks used to populate OneLake

- * DataSciPOC: Will contain all the notebooks and reports created by the data scientists
- The following will be created in the AnalyticsPOC workspace:

- * A data store (type to be decided)
- * A custom semantic model
- * A default semantic model
- * Interactive reports

The data engineers will create data pipelines to load data to OneLake either hourly or daily depending on the data source. The analytics engineers will create processes to ingest transform, and load the data to the data store in the AnalyticsPOC workspace daily. Whenever possible, the data engineers will use low-code tools for data ingestion. The choice of which data cleansing and transformation tools to use will be at the data engineers' discretion.

All the semantic models and reports in the Analytics POC workspace will use the data store as the sole data source.

Technical Requirements

The data store must support the following:

- * Read access by using T-SQL or Python
- * Semi-structured and unstructured data
- * Row-level security (RLS) for users executing T-SQL queries

Files loaded by the data engineers to OneLake will be stored in the Parquet format and will meet Delta Lake specifications.

Data will be loaded without transformation in one area of the AnalyticsPOC data store. The data will then be cleansed, merged, and transformed into a dimensional model.

The data load process must ensure that the raw and cleansed data is updated completely before populating the dimensional model.

The dimensional model must contain a date dimension. There is no existing data source for the date dimension. The Litware fiscal year matches the calendar year. The date dimension must always contain dates from 2010 through the end of the current year. The product pricing group logic must be maintained by the analytics engineers in a single location. The pricing group data must be made available in the data store for T-SQL queries and in the default semantic model. The following logic must be used:

- * List prices that are less than or equal to 50 are in the low pricing group.
- * List prices that are greater than 50 and less than or equal to 1,000 are in the medium pricing group.
- * List prices that are greater than 1,000 are in the high pricing group.

Security Requirements

Only Fabric administrators and the analytics team must be able to see the Fabric items created as part of the PoC. Litware identifies the following security requirements for the Fabric items in the AnalyticsPOC workspace:

- * Fabric administrators will be the workspace administrators.
- * The data engineers must be able to read from and write to the data store. No access must be granted to datasets or reports.
- * The analytics engineers must be able to read from, write to, and create schemas in the data store. They also must be able to create and share semantic models with the data analysts and view and modify all reports in the workspace.
- * The data scientists must be able to read from the data store, but not write to it. They will access the data by using a Spark notebook.
- * The data analysts must have read access to only the dimensional model objects in the data store. They also must have access to create Power BI reports by using the semantic models created by the analytics engineers.
- * The date dimension must be available to all users of the data store.
- * The principle of least privilege must be followed.

Both the default and custom semantic models must include only tables or views from the dimensional model in the data store. Litware already has the following Microsoft Entra security groups:

- * FabricAdmins: Fabric administrators
- * AnalyticsTeam: All the members of the analytics team
- * DataAnalysts: The data analysts on the analytics team
- * DataScientists: The data scientists on the analytics team
- * Data Engineers: The data engineers on the analytics team
- * Analytics Engineers: The analytics engineers on the analytics team

Report Requirements

The data analysis must create a customer satisfaction report that meets the following requirements:

- * Enables a user to select a product to filter customer survey responses to only those who have purchased that product
- * Displays the average overall satisfaction score of all the surveys submitted during the last 12 months up to a selected date
- * Shows data as soon as the data is updated in the data store
- * Ensures that the report and the semantic model only contain data from the current and previous year
- * Ensures that the report respects any table-level security specified in the source data store
- * Minimizes the execution time of report queries

NEW QUESTION # 59

You have source data in a CSV file that has the following fields:

- * SalesTransactionID
- * SaleDate
- * CustomerCode
- * CustomerName
- * CustomerAddress
- * ProductCode
- * ProductName
- * Quantity
- * UnitPrice

You plan to implement a star schema for the tables in WH1. The dimension tables in WH1 will implement Type 2 slowly changing dimension (SCD) logic.

You need to design the tables that will be used for sales transaction analysis and load the source data.

Which type of target table should you specify for the CustomerName, CustomerCode, and SaleDate fields?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



CustomerCode:
Dimension
Fact
Factless fact
Junk dimension

CustomerName:
Dimension
Fact
Factless fact
Junk dimension

SaleDate:
Dimension
Fact
Factless fact
Junk dimension

Answer:

Explanation:

Explanation:

NEW QUESTION # 60

You have a Fabric tenant that contains two lakehouses.

You are building a dataflow that will combine data from the lakehouses. The applied steps from one of the queries in the dataflow is shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Folding in Power Query refers to operations that can be translated into source queries. In this case, "some" of the steps can be folded, which means that some transformations will be executed at the data source level. The steps that cannot be folded will be executed within the Power Query engine. Custom steps, especially those that are not standard query operations, are usually executed within Power Query engine rather than being pushed down to the source system.

References =

* Query folding in Power Query

* Power Query M formula language

NEW QUESTION # 61

You have a Fabric tenant that contains a Microsoft Power BI report.

You are exploring a new semantic model.

You need to display the following column statistics:

* Count

- * Average
- * Null count
- * Distinct count
- * Standard deviation

Which Power Query function should you run?

- A. Table.View
- B. Table.FuzzyGroup
- **C. Table.Profile**
- D. Table.Schema

Answer: C

Explanation:

The Table.Profile function in Power Query is used to generate column statistics such as count, average, null count, distinct count, and standard deviation. You can use this function as follows:

Invoke the Power Query Editor.

Apply the Table.Profile function to your table.

The result will be a table where each row represents a column from the original table, and each column in the result represents a different statistic such as those listed in the requirement.

NEW QUESTION # 62

You have a Fabric tenant that contains a lakehouse.

You are using a Fabric notebook to save a large DataFrame by using the following code.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

- * The results will form a hierarchy of folders for each partition key. - Yes
- * The resulting file partitions can be read in parallel across multiple nodes. - Yes
- * The resulting file partitions will use file compression. - No

Partitioning data by columns such as year, month, and day, as shown in the DataFrame write operation, organizes the output into a directory hierarchy that reflects the partitioning structure. This organization can improve the performance of read operations, as queries that filter by the partitioned columns can scan only the relevant directories. Moreover, partitioning facilitates parallelism because each partition can be processed independently across different nodes in a distributed system like Spark. However, the code snippet provided does not explicitly specify that file compression should be used, so we cannot assume that the output will be compressed without additional context.

References =

- * DataFrame write partitionBy
- * Apache Spark optimization with partitioning

NEW QUESTION # 63

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