

# Microsoft DP-600 Brain Dumps: Implementing Analytics Solutions Using Microsoft Fabric - Getcertkey 10 Years of Excellence



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## Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q55-Q60):

### NEW QUESTION # 55

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains the following data.

You need to create a T-SQL statement that will denormalize the tables and include the ContractType and StartDate attributes in the

results. The solution must meet the following requirements:

- \* Include attributes from matching rows in the Contract table.
- \* Ensure that all the rows from the Employee table are preserved.
- \* Return 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:**

Explanation:

Explanation:

## NEW QUESTION # 56

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 Fabric tenant that contains a semantic model named Modell1.

You discover that the following query performs slowly against Modell1.

You need to reduce the execution time of the query.

Solution: You replace line 4 by using the following code:

Does this meet the goal?

- **A. No**
- B. Yes

**Answer: A**

Explanation:

Topic 1, Litware. Inc. Case Study

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.

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

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 # 57

Drag and Drop Question

You are implementing two dimension tables named Customers and Products in a Fabric warehouse.

You need to use slowly changing dimension (SCD) to manage the versioning of data. The solution must meet the requirements shown in the following table.

Which type of SCD should you use for each table? To answer, drag the appropriate SCD types to the correct tables. Each SCD type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

Static table:

Type 0 - Fixed Dimension. No changes allowed, dimension never changes.

Commonly used SCD types:

Type 1 - No History. Update record directly, there is no record of historical values, only current state.

Type 2 - Row Versioning.

Type 3 - Previous Value column.

Rarely used:

Type 4 - History Table.

Type 6 - Hybrid SCD.

### NEW QUESTION # 58

You create a semantic model by using Microsoft Power BI Desktop. The model contains one security role named SalesRegionManager and the following tables:

\* Sales

\* SalesRegion

\* Sales Address

You need to modify the model to ensure that users assigned the SalesRegionManager role cannot see a column named Address in Sales Address.

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

**Answer:**

Explanation:

Explanation:

To ensure that users assigned the SalesRegionManager role cannot see the Address column in the SalesAddress table, follow these steps in sequence:

\* Open the model in Tabular Editor.

\* Select the Address column in SalesAddress.

\* Set Object Level Security to None for SalesRegionManager.

### NEW QUESTION # 59

You need to assign permissions for the data store in the AnalyticsPOC workspace. The solution must meet the security requirements.

Which additional permissions should you assign when you share the data store? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

\* Data Engineers: Read All SQL analytics endpoint data

\* Data Analysts: Read All Apache Spark

The permissions for the data store in the AnalyticsPOC workspace should align with the principle of least privilege:

\* Data Analysts require read access specifically to the dimensional model objects and the ability to create Power BI reports.

### NEW QUESTION # 60

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