

# DP-600日本語pdf問題、DP-600一発合格

Q DP-600	
<p>You want to use Apache Spark to explore data interactively in Microsoft Fabric. What should you create?</p> <p>A. Spark job definition. B. Data Factory pipeline. C. Notebook.</p>	Notebook
<p>You need to use Spark to analyze data in a CSV file. What's the simplest way to accomplish this goal?</p> <p>A. Load the file into a dataframe. B. Import the data into a table in a warehouse. C. Convert the data to Parquet format.</p>	Load the file into a dataframe.
<p>Which method is used to split the data across folders when saving a dataframe?</p> <p>A. splitBy B. distributeBy C. partitionBy</p>	partitionBy
<p>Fill in the blank: "For each table, the lakehouse stores a folder containing Parquet data files and a (...) folder in which transaction details are logged in JSON format".</p> <p>A. _delta_Log B. log C. parquet</p>	_delta_Log
<p>What is atomicity in ACID transactions?</p> <p>A. transactions leave the database in a consistent state B. transactions complete as a single unit of work C. in-process transactions can't interfere with one another D. when a transaction completes, the changes it made are persisted</p>	transactions complete as a single unit of work
<p>What is consistency in ACID transactions?</p> <p>A. transactions leave the database in a consistent state B. transactions complete as a single unit of work C. in-process transactions can't interfere with one another D. when a transaction completes, the changes it made are persisted</p>	transactions leave the database in a consistent state
<p>What is durability in ACID transactions?</p> <p>A. when a transaction completes, the changes it made are persisted B. transactions complete as a single unit of work C. in-process transactions can't interfere with one another D. transactions leave the database in a consistent state</p>	when a transaction completes, the changes it made are persisted
<p>What is isolation in ACID transactions?</p> <p>A. when a transaction completes, the changes it made are persisted B. transactions complete as a single unit of work C. in-process transactions can't interfere with one another D. transactions leave the database in a consistent state</p>	in-process transactions can't interfere with one another
<p>Fill in the blank: "Dataframe that's saved as a (...) table means that the table definition in the metastore and the underlying data files are both managed by the Spark runtime for the Fabric lakehouse. Deleting the table will also delete the underlying files from the Tables storage location for the lakehouse".</p>	managed

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## Microsoft DP-600 認定試験の出題範囲:

トピック	出題範囲
トピック 1	<ul style="list-style-type: none"> <li>セマンティックモデルの実装と管理: このセクションでは、アーキテクトのスキルを評価し、エンタープライズ規模の分析をサポートするためのセマンティックモデルの設計と最適化に焦点を当てます。ストレージモードの理解度、スタースキーマ、ブリッジテーブルや多対多結合などの複雑なリレーションシップの実装能力を評価します。アーキテクトは、変数、反復子、フィルタリング技術を用いてDAXベースの計算を記述する必要があります。計算グループ、動的書式指定文字列、フィールドパラメータの使用も含まれます。また、このセクションでは、大規模なセマンティックモデルの構成と複合モデルの設計も含まれます。最適化においては、レポートのビジュアルとDAXパフォーマンスの向上、Direct Lakeの動作の設定、増分更新戦略の効果的な実装が求められます。</li> </ul>

トピック 2	<ul style="list-style-type: none"> <li>データ分析ソリューションの維持: このセクションでは、管理者のスキルを測定し、Power BI 環境のセキュリティ強化と管理に関連するタスクを網羅します。ワークスペースレベルとアイテムレベルの両方でアクセス制御を設定し、ユーザーとグループに適切な権限を確保することが求められます。行レベル、列レベル、オブジェクトレベル、ファイルレベルのアクセス制御に加え、機密ラベルを適用してデータを安全に分類する方法も含まれます。また、このセクションでは、バージョン管理の構成、Power BI Desktop プロジェクトの管理、展開パイプラインの設定、さまざまなデータ資産からの下流への影響の評価、XMLA エンドポイントを使用したセマンティックモデルの展開の処理などを通じて、組織での使用を目的とした Power BI アイテムの承認と、分析資産の開発ライフサイクル全体の監視能力もテストされます。再利用可能な資産管理もこの分野に含まれます。</li> </ul>
トピック 3	<ul style="list-style-type: none"> <li>データ準備: このセクションでは、エンジニアのスキルを評価し、基本的なデータ準備タスクを網羅します。OneLake データハブやリアルタイムハブなどのツールを介したデータ接続の確立とソースの検出が含まれます。受験者は、ユースケースに応じて適切なストレージタイプ（レイクハウス、ウェアハウス、イベントハウス）を選択する知識を証明する必要があります。また、OneLake と Eventhouse の統合およびセマンティックモデルの実装も含まれます。変換パートでは、ビュー、ストアドプロシージャ、関数の作成に加え、データのエンリッチメント、マージ、非正規化、集計を行います。エンジニアは、重複、欠損値、NULL などのデータ品質の問題への対応、データ型の変換、フィルタリングも求められます。さらに、SQL、KQL、ビジュアルクエリエディターなどのツールを使用したデータのクエリと分析もこのドメインでテストされます。</li> </ul>

>> DP-600日本語pdf問題 <<

## DP-600一発合格、DP-600日本語版問題集

経済の急速な発展に伴い、私たちに対する社会の要求はますます高くなっています。DP-600認定を取得できれば、社会での競争力が高まります。DP-600学習資料は、適切な認定を取得するのに役立ちます。信じてください。DP-600学習教材を使用すると、作業効率が向上します。DP-600の無料のトレーニング資料は、他の人よりも労働市場で目立つようにし、より多くの機会があなたを見つけるためのイニシアチブを取ります。

## Microsoft Implementing Analytics Solutions Using Microsoft Fabric 認定 DP-600 試験問題 (Q46-Q51):

### 質問 # 46

What should you recommend using to ingest the customer data into the data store in the AnalyticsPOC workspace?

- A. a stored procedure
- B. a Spark notebook
- C. a dataflow
- D. a pipeline that contains a KQL activity

正解: C

解説:

For ingesting customer data into the data store in the AnalyticsPOC workspace, a dataflow (D) should be recommended. Dataflows are designed within the Power BI service to ingest, cleanse, transform, and load data into the Power BI environment. They allow for the low-code ingestion and transformation of data as needed by Litware's technical requirements. References = You can learn more about dataflows and their use in Power BI environments in Microsoft's Power BI documentation.

### 質問 # 47

You have a Fabric tenant that contains a warehouse.

You are designing a star schema model that will contain a customer dimension. The customer dimension table will be a Type 2 slowly changing dimension (SCD).

You need to recommend which columns to add to the table. The columns must NOT already exist in the source.

Which three types of columns should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. a surrogate key
- B. a natural key
- C. a foreign key
- D. an effective end date and time
- E. an effective start date and time

正解: A、D、E

解説:

To create SCD type 2 one needs to add a surrogate key + start/end date beside the other technical attributes.

<https://learn.microsoft.com/en-us/training/modules/populate-slowly-changing-dimensions-azure-synapse-analytics-pipelines/3-choose-between-dimension-types>

#### 質問 # 48

Hotspot Question

You have a Fabric lakehouse named Lakehouse1 that contains the following data.

You need build a T-SQL statement that will return the total sales amount by OrderDate only for the days that are holidays in Australia. The total sales amount must sum the quantity multiplied by the price on each row in the dbo.sales table.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

正解:

解説:

#### 質問 # 49

You have a Fabric tenant that contains a warehouse named WH1. You run the following T-SQL query against WH1.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

正解:

解説:

Explanation:

#### 質問 # 50

You have a Fabric workspace named Workspacel that contains a lakehouse named Lakehouse1. Lakehouse1 contains a table named Table1. Table 1 contains the following data.

You need to perform the following actions:

\* Load the data from Table1 into a star schema.

\* Create a product dimension table named DimProduct and a fact table named FactSales.

Which three columns should you include in DimProduct?

- A. ProductID, ProductName, and SalesAmount
- B. ProductColor, ProductID, and ProductName.
- C. ProductName, SalesAmount, and TransactionID
- D. Date, ProductID, and TransactionID.

正解: B

解説:

Topic 2, 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

## 質問 # 51

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