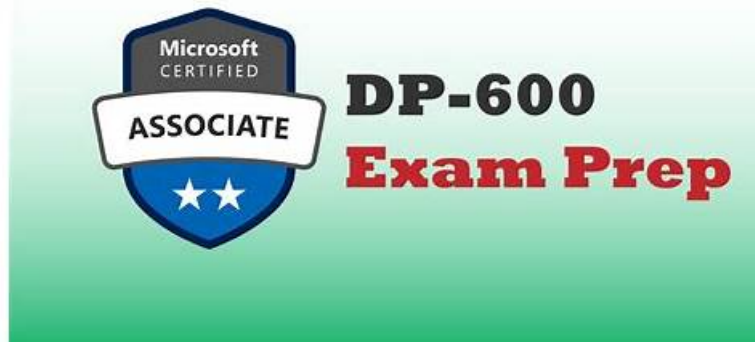


DP-600 Prüfungsvorbereitung - DP-600 Zertifizierungsfragen



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https://drive.google.com/open?id=1jWHHWOQza9oCq8tTw_SSToXbqQ_snYhg

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Microsoft DP-600 Prüfungsplan:

Thema	Einzelheiten
Thema 1	<ul style="list-style-type: none"> • Prepare data: This section of the exam measures the skills of engineers and covers essential data preparation tasks. It includes establishing data connections and discovering sources through tools like the OneLake data hub and the real-time hub. Candidates must demonstrate knowledge of selecting the appropriate storage type—lakehouse, warehouse, or eventhouse—depending on the use case. It also includes implementing OneLake integrations with Eventhouse and semantic models. The transformation part involves creating views, stored procedures, and functions, as well as enriching, merging, denormalizing, and aggregating data. Engineers are also expected to handle data quality issues like duplicates, missing values, and nulls, along with converting data types and filtering. Furthermore, querying and analyzing data using tools like SQL, KQL, and the Visual Query Editor is tested in this domain.
Thema 2	<ul style="list-style-type: none"> • Implement and manage semantic models: This section of the exam measures the skills of architects and focuses on designing and optimizing semantic models to support enterprise-scale analytics. It evaluates understanding of storage modes and implementing star schemas and complex relationships, such as bridge tables and many-to-many joins. Architects must write DAX-based calculations using variables, iterators, and filtering techniques. The use of calculation groups, dynamic format strings, and field parameters is included. The section also includes configuring large semantic models and designing composite models. For optimization, candidates are expected to improve report visual and DAX performance, configure Direct Lake behaviors, and implement incremental refresh strategies effectively.
Thema 3	<ul style="list-style-type: none"> • Maintain a data analytics solution: This section of the exam measures the skills of administrators and covers tasks related to enforcing security and managing the Power BI environment. It involves setting up access controls at both workspace and item levels, ensuring appropriate permissions for users and groups. Row-level, column-level, object-level, and file-level access controls are also included, alongside the application of sensitivity labels to classify data securely. This section also tests the ability to endorse Power BI items for organizational use and oversee the complete development lifecycle of analytics assets by configuring version control, managing Power BI Desktop projects, setting up deployment pipelines, assessing downstream impacts from various data assets, and handling semantic model deployments using XMLA endpoint. Reusable asset management is also a part of this domain.

DP-600 Zertifizierungsfragen, DP-600 Deutsche Prüfungsfragen

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric DP-600 Prüfungsfragen mit Lösungen (Q141-Q146):

141. Frage

You are the administrator of a Fabric workspace that contains a lakehouse named Lakehouse1. Lakehouse1 contains the following tables:

- * Table1: A Delta table created by using a shortcut
- * Table2: An external table created by using Spark
- * Table3: A managed table

You plan to connect to Lakehouse1 by using its SQL endpoint. What will you be able to do after connecting to Lakehouse1?

- A. Update the data Table3.
- **B. Update the data in Table1.**
- C. ReadTable2.
- D. ReadTable3.

Antwort: B

142. Frage

You have a Fabric warehouse named Warehouse1 that contains a table named Table1. Table1 contains customer data.

You need to implement row-level security (RLS) for Table1. The solution must ensure that users can see only their respective data. Which two objects should you create? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. FUNCTION
- **B. SECURITY POLICY**
- C. STORED PROCEDURE
- D. CONSTRAINT
- **E. DATABASE ROLE**

Antwort: B,E

143. Frage

You need to ensure the data loading activities in the AnalyticsPOC workspace are executed in the appropriate sequence. The solution must meet the technical requirements.

What should you do?

- A. Create and schedule a Spark notebook.
- **B. Create a pipeline that has dependencies between activities and schedule the pipeline.**
- C. Create and schedule a Spark job definition.
- D. Create a dataflow that has multiple steps and schedule the dataflow.

Antwort: B

Begründung:

To meet the technical requirement that data loading activities must ensure the raw and cleansed data is updated completely before

populating the dimensional model, you would need a mechanism that allows for ordered execution. A pipeline in Microsoft Fabric with dependencies set between activities can ensure that activities are executed in a specific sequence. Once set up, the pipeline can be scheduled to run at the required intervals (hourly or daily depending on the data source).

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.

□ 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

144. Frage

You have the source data model shown in the following exhibit.

The primary keys of the tables are indicated by a key symbol beside the columns involved in each key.

You need to create a dimensional data model that will enable the analysis of order items by date, product, and customer.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Antwort:

Begründung:

Explanation:

* The relationship between OrderItem and Product must be based on: Both the CompanyID and the ProductID columns

* The Company entity must be: Denormalized into the Customer and Product entities In a dimensional model, the relationships are typically based on foreign key constraints between the fact table (OrderItem) and dimension tables (Product, Customer, Date).

Since CompanyID is present in both the OrderItem and Product tables, it acts as a foreign key in the relationship. Similarly, ProductID is a foreign key that relates these two tables. To enable analysis by date, product, and customer, the Company entity would need to be denormalized into the Customer and Product entities to ensure that the relevant company information is available within those dimensions for querying and reporting purposes.

References =

* Dimensional modeling

* Star schema design

145. Frage

You have a Fabric tenant that contains a lakehouse named LH1.

You need to deploy a new semantic model. The solution must meet the following requirements:

* Support complex calculated columns that include aggregate functions, calculated tables, and Multidimensional Expressions (MDX)

user hierarchies.

* Minimize page rendering times.

How should you configure the model? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Antwort:

Begründung:

Explanation:

Supports complex calculated columns (with aggregate functions, calculated tables, MDX hierarchies).

Minimizes page rendering times.

Step 1 - Choosing the Mode

Direct Lake # Best for near real-time queries, avoids duplication, but has limitations (e.g., some complex calculated columns, MDX user hierarchies are not fully supported).

DirectQuery # Sends queries to the source each time. It supports complex expressions but is slow (not optimal for minimizing page rendering times).

Import # Data is loaded into VertiPaq in-memory engine, supports full DAX capabilities, calculated tables, MDX hierarchies, and provides fastest query performance.

Correct choice: Import.

Step 2 - Choosing Query Caching

Capacity default # Relies on the workspace/capacity setting.

Off # Disables caching, which could slow down report rendering.

On # Ensures queries are cached for faster page rendering times.

Correct choice: On.

Final Answer:

Mode: Import

Query Caching: On

References:

Semantic model storage modes in Fabric

Query caching in Power BI / Fabric

146. Frage

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