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## Exam DP-600 Study Guide | Reliable DP-600 Exam Test

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## Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

## Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q15-Q20):

### NEW QUESTION # 15

You have a Fabric tenant.

You need to configure OneLake security for users shown in the following table.

Name	Required access
User1	Read all the Spark data.
User2	Read all the SQL endpoint data.

The solution must follow the principle of least privilege.

Which permission should you assign to each user? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

ANSWER AREA



**Microsoft**

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User1:

ReadAll  
 Read  
 **ReadAll**  
 ReadData

User2:

ReadData  
 **Read**  
 ReadAll  
 ReadData

**Answer:**

Explanation:

Answer Area

Microsoft

User1: ReadAll  
Read  
**ReadAll**  
ReadData

User2: ReadData  
Read  
ReadAll  
**ReadData**

### NEW QUESTION # 16

You have a Fabric tenant that contains two workspaces named Workspace1 and Workspace2 and a user named User1.

You need to ensure that User1 can perform the following tasks:

- Create a new domain.
- Create two subdomains named subdomain1 and subdomain2.
- Assign Workspace1 to subdomain1.
- Assign Workspace2 to subdomain2.

The solution must follow the principle of least privilege.

Which role should you assign to User1?

- A. domain contributor
- B. workspace Admin
- C. domain admin
- **D. Fabric admin**

**Answer: D**

Explanation:

<https://learn.microsoft.com/en-us/fabric/governance/domains#create-a-domain>

### NEW QUESTION # 17

Case Study 2 - 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

Fabric Environment

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

Available Data

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.

#### Requirements

##### 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, dataflow, 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
- DataEngineers: The data engineers on the analytics team
- AnalyticsEngineers: The analytics engineers on the analytics team

Report Requirements

The data analysts 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.

You need to recommend a solution to prepare the tenant for the PoC.

Which two actions should you recommend performing from the Fabric Admin portal? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. Enable the Users can create Fabric items option and exclude specific security groups.
- B. Enable the Allow Azure Active Directory guest users to access Microsoft Fabric option for specific security groups.
- C. **Enable the Users can try Microsoft Fabric paid features option for specific security groups.**
- D. Enable the Users can try Microsoft Fabric paid features option for the entire organization.
- E. **Enable the Users can create Fabric items option for specific security groups.**

**Answer: C,E**

### NEW QUESTION # 18

You have a Fabric tenant that contains a semantic model. The model contains data about retail stores.

You need to write a DAX query that will be executed by using the XMLA endpoint. The query must return the total amount of sales from the same period last year.

How should you complete the DAX expression? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

Answer Area

```

EVALUATE
VAR _LYSales =
    SUMMARIZE
    CALCULATE
    CALCULATETABLE
    FILTER
    SUMMARIZE
    SUMMARIZECOLUMNS
RETURN
    LYSales
    [Total Sales]
    _LYSales
    ( _LYSales )
    VAR

```

**Answer:**

Explanation:

## Answer Area



```

EVALUATE
VAR _LYSales =
    SUMMARIZE
    CALCULATE
    CALCULATETABLE
    FILTER
    SUMMARIZE
    SUMMARIZECOLUMNS
RETURN
LYSales
[Total Sales]
_LYSales
{ _LYSales }
VAR

```

The screenshot shows a Power BI DAX editor. The 'EVALUATE' block contains a 'SUMMARIZE' function. The 'RETURN' block contains a variable named 'LYSales' which is a table with one column, '[Total Sales]'. The variable 'VAR' is also defined.

## NEW QUESTION # 19

You have a Fabric warehouse that contains a table named SalesOrderDetail. SalesOrderDetail contains three columns named OrderQty, ProductID and SalesOrderID. SalesOrderDetail contains one row per combination of SalesOrderID and ProductID. You need to calculate the proportion of the total quantity of each sales order represented by each product within the sales order. Which T-SQL statement should you run?

```

SELECT SalesOrderID, ProductID, OrderQty
    ,CAST(1. * OrderQty / SUM(OrderQty) OVER(ORDER BY ProductID) * 100
    AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail

```

- A.

```

SELECT SalesOrderID, ProductID, OrderQty
    ,CAST(1. * OrderQty / SUM(OrderQty) OVER(PARTITION BY ProductID) * 100
    AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;

```

- B.

```

SELECT SalesOrderID, ProductID, OrderQty
    ,CAST(1. * OrderQty / SUM(OrderQty) OVER(PARTITION BY SalesOrderID) * 100
    AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;

```

- C.

```

SELECT SalesOrderID, ProductID, OrderQty
    ,CAST(1. * OrderQty / SUM(OrderQty) OVER(ORDER BY SalesOrderID) * 100
    AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;

```

- D.

## Answer: C

## Explanation:

## Comprehensive Detailed Explanation

We need to calculate the proportion of the total quantity of each sales order represented by each product within the sales order.

Step 1: Analyze the requirement

Table: SalesOrderDetail

Columns: OrderQty, ProductID, SalesOrderID

Each row = one product in a sales order.

Requirement: For each SalesOrderID, calculate what percentage each product contributes to the total order quantity.

This means we must:

Calculate the total order quantity per SalesOrderID.

Divide each product's OrderQty by that total.

Express it as a percentage.

Step 2: Evaluate the options

A). Uses OVER(ORDER BY ProductID)

Wrong: ORDER BY does not segment data, it only defines sequence. We need grouping by sales order.

B). Uses OVER(PARTITION BY ProductID)

Wrong: This would calculate percentages per product across all sales orders, not per sales order.

C). Uses OVER(PARTITION BY SalesOrderID)

Correct: This computes the total OrderQty per SalesOrderID and divides each product's quantity by that total.

Exactly what the requirement asks.

D). Uses OVER(ORDER BY SalesOrderID)

Wrong: Again, ORDER BY just sequences rows, does not group them.

Step 3: Correct Query

```
SELECT
SalesOrderID,
ProductID,
OrderQty,
CAST(1. * OrderQty / SUM(OrderQty)
OVER(PARTITION BY SalesOrderID) * 100 AS DECIMAL(5,2))
AS PercentByProductID
```

```
FROM Sales.SalesOrderDetail;
```

Why Option C is Correct

PARTITION BY SalesOrderID ensures the denominator is the total quantity for the current order.

This produces the correct percentage breakdown of each product inside its sales order.

References

T-SQL Window Functions

Aggregate Functions with PARTITION BY

Microsoft Fabric Warehouse T-SQL Support

## NEW QUESTION # 20

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