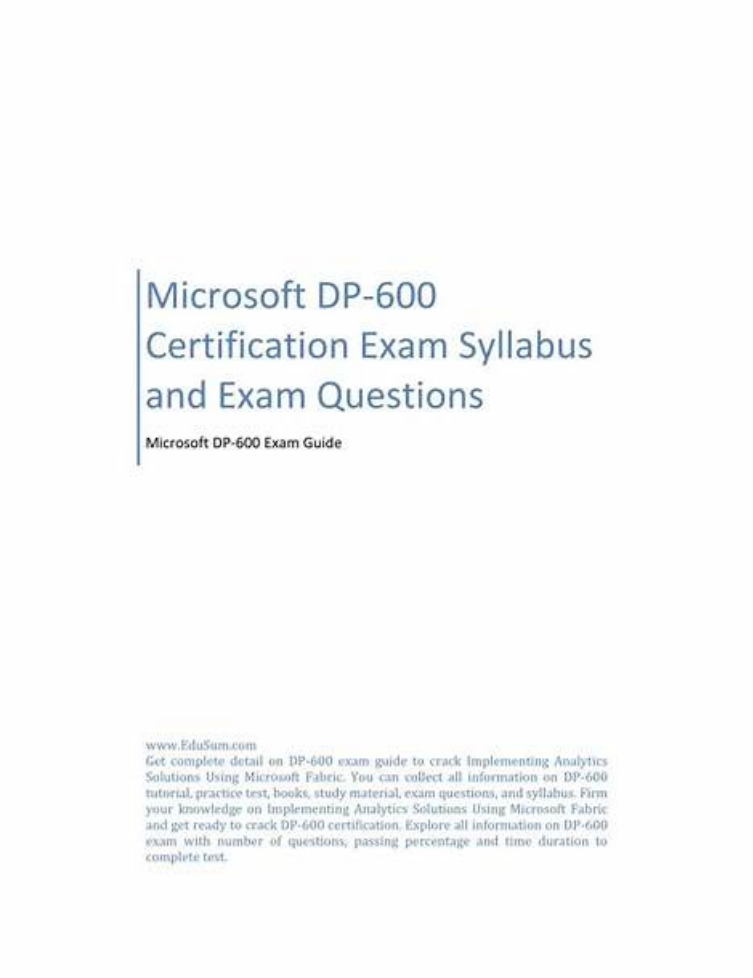
DP-600 Exam Syllabus - Exam DP-600 Simulator Online



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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.

Topic 2	• 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.
Topic 3	• 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.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q144-Q149):

NEW QUESTION # 144
Case Study 1 - Contoso
Overview
Contoso, Ltd. is a US-based health supplements company. Contoso has two divisions named Sales and Research. The Sales division contains two departments named Online Sales and Retail Sales. The Research division assigns internally developed product lines to individual teams of researchers and analysts.
Existing Environment
Identity Environment
Contoso has a Microsoft Entra tenant named contoso.com. The tenant contains two groups named ResearchReviewersGroup1 and ResearchReviewersGroup2.
Data Environment
Contoso has the following data environment:
- The Sales division uses a Microsoft Power BI Premium capacity.
- The semantic model of the Online Sales department includes a fact table named Orders that uses Import made. In the system of origin, the OrderID value represents the sequence in which orders are created.
- The Research department uses an on-premises, third-party data warehousing product.
- Fabric is enabled for contoso.com.
- An Azure Data Lake Storage Gen2 storage account named storage1 contains Research division data for a product line named Productline1. - The data is in the delta format.
- A Data Lake Storage Gen2 storage account named storage2 contains Research division data for a product line named Productline2. The data is in the CSV format.
Requirements
Planned Changes
Contoso plans to make the following changes:
- Enable support for Fabric in the Power BI Premium capacity used by the Sales division.
- Make all the data for the Sales division and the Research division available in Fabric.

- For the Research division, create two Fabric workspaces named Productline1ws and Productine2ws.
- In Productline1ws, create a lakehouse named Lakehouse1.
- In Lakehouse1, create a shortcut to storage1 named ResearchProduct.

Data Analytics Requirements

Contoso identifies the following data analytics requirements:
- All the workspaces for the Sales division and the Research division must support all Fabric experiences.
- The Research division workspaces must use a dedicated, on-demand capacity that has per- minute billing.
- The Research division workspaces must be grouped together logically to support OneLake data hub filtering based on the department name.
- For the Research division workspaces, the members of ResearchReviewersGroup1 must be able to read lakehouse and warehouse data and shortcuts by using SQL endpoints.
- For the Research division workspaces, the members of ResearchReviewersGroup2 must be able to read lakehouse data by using Lakehouse explorer.
- All the semantic models and reports for the Research division must use version control that supports branching.

Data Preparation Requirements

Contoso identifies the following data preparation requirements:
- The Research division data for Productline1 must be retrieved from Lakehouse1 by using Fabric notebooks.
- All the Research division data in the lakehouses must be presented as managed tables in Lakehouse explorer.

Semantic Model Requirements

Contoso identifies the following requirements for implementing and managing semantic models:
- The number of rows added to the Orders table during refreshes must be minimized.
- The semantic models in the Research division workspaces must use Direct Lake mode.

General Requirements

Contoso identifies the following high-level requirements that must be considered for all solutions:
- Follow the principle of least privilege when applicable.
- Minimize implementation and maintenance effort when possible.

You need to recommend which type of Fabric capacity SKU meets the data analytics requirements for the Research division.
What should you recommend?

- A. A
- B. P
- C. EM
- D. F

Answer: D

Explanation:
The Research division workspaces must use a dedicated, on-demand capacity that has per- minute billing.

NEW QUESTION # 145
You have a Fabric tenant that contains 30 CSV files in OneLake. The files are updated daily.
You create a Microsoft Power Bl semantic model named Modell that uses the CSV files as a data source. You configure incremental refresh for Model 1 and publish the model to a Premium capacity in the Fabric tenant.
When you initiate a refresh of Model1, the refresh fails after running out of resources.
What is a possible cause of the failure?

- A. The data type of the column used to partition the data has changed.
- B. Only refresh complete days is selected.
- C. XMLA Endpoint is set to Read Only.
- D. Query folding is NOT occurring.
- E. Query folding is occurring.

Answer: A

Explanation:
A possible cause for the failure is that query folding is NOT occurring (D). Query folding helps optimize refresh by pushing down the query logic to the source system, reducing the amount of data processed and transferred, hence conserving resources. References = The Power BI documentation on incremental refresh and query folding provides detailed information on this topic.

NEW QUESTION # 146
You have a Fabric tenant that contains a workspace named Workspace1. Workspace1 contains a single semantic model that has two Microsoft Power BI reports.
You have a Microsoft 365 subscription that contains a data loss prevention (DLP) policy named DLP1.
You need to apply DLP1 to the items in Workspace1.
What should you do?

- A. Apply a master data endorsement to the semantic model.
- B. Create a workspace identity.
- C. Apply a certified endorsement to the semantic model.
- D. Apply sensitivity labels to the semantic model and reports.

Answer: D

Explanation:
Step 1: Understand the scenario
Workspace1 contains a semantic model and two Power BI reports.
A Microsoft 365 Data Loss Prevention (DLP) policy (DLP1) already exists.
Requirement: Apply DLP1 to the workspace items.
In Microsoft Fabric and Power BI, DLP policies are enforced through Microsoft Purview Information Protection (MIP) sensitivity labels.
Step 2: Evaluate each option
A). Apply a master data endorsement to the semantic model.
Endorsements (promoted, certified) help users find and trust datasets but do not enforce DLP policies.
Not correct.
B). Apply a certified endorsement to the semantic model.
Certification improves discoverability and trust, but again, it does not trigger DLP policy enforcement.
Not correct.
C). Create a workspace identity.
Workspace identity (service principal) is used for connecting to external resources with managed identity.
It does not relate to DLP policy application.
Not correct.
D). Apply sensitivity labels to the semantic model and reports.
Sensitivity labels (from Microsoft Purview) integrate with Microsoft 365 DLP policies.
When sensitivity labels are applied to Power BI datasets, reports, dashboards, and workspaces, DLP1 can enforce protections such as preventing sharing or exporting sensitive data.
This is the correct answer.
Step 3: Correct Action
To apply DLP1 to Workspace1 items, you must:
Configure sensitivity labels in Microsoft Purview.
Apply those sensitivity labels to the semantic model and reports inside Workspace1.
The existing DLP1 policy will then govern data handling for those items.
References
Sensitivity labels in Power BI
Apply sensitivity labels to Power BI items
DLP policies in Microsoft Purview

NEW QUESTION # 147
You have a Fabric tenant that contains a workspace named Workspace