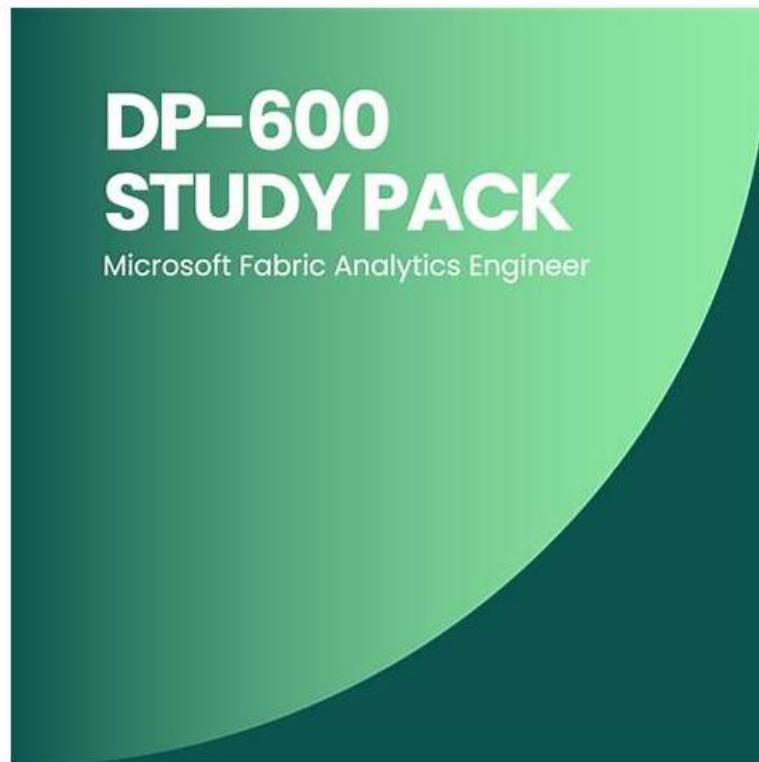


# DP-600 Study Materials Review - DP-600 Reliable Exam Simulator



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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>
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## >> DP-600 Study Materials Review <<

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### Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q165-Q170):

#### NEW QUESTION # 165

You have a Fabric tenant that contains a new semantic model in OneLake.

You use a Fabric notebook to read the data into a Spark DataFrame.

You need to evaluate the data to calculate the min, max, mean, and standard deviation values for all the string and numeric columns.

Solution: You use the following PySpark expression:

```
df.show()
```

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### NEW QUESTION # 166

You have a Microsoft Power BI project that contains a file named definition.pbir. definition.pbir contains the following JSON.

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

**Answer:**

Explanation:

Explanation:

We are analyzing the JSON for definition.pbir in a Power BI Project:

```
{
  "version": "1.0",
  "datasetReference": {
    "byPath": {
      "path": "../Sales.Dataset"
    },
    "byConnection": null
  }
}
```

Statement 1:

"definition.pbir is in the PBIR-Legacy format."

No # The legacy PBIR format references datasets by byConnection (pointing to the Power BI service).

Here, it uses byPath, which is the new project format, not legacy.

Statement 2:

"The semantic model referenced by definition.pbir is located in the Power BI service." No # The JSON shows byPath:

"../Sales.Dataset", meaning the semantic model is referenced locally within the project folder (Sales.Dataset), not in the Power BI service.

Statement 3:

"When the related report is opened, Power BI Desktop will open the semantic model in full edit mode." Yes # Since the semantic model is referenced by path (local PBIP project files), Power BI Desktop will open the model in full edit mode. If it had been byConnection, it would open in live connect mode to the service instead.

Final Answer:

PBIR-Legacy format # No

Semantic model in Power BI service # No

Opens in full edit mode # Yes

References:

Power BI Project (PBIP) structure

PBIR formats: byPath vs byConnection

### NEW QUESTION # 167

You have a Fabric tenant that contains a lakehouse.

You plan to query sales data files by using the SQL endpoint. The files will be in an Amazon Simple Storage Service (Amazon S3) storage bucket.

You need to recommend which file format to use and where to create a shortcut.

Which two actions should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. Use the delta format.
- B. Create a shortcut in the Tables section.
- C. Use the Parquet format
- D. Create a shortcut in the Files section.
- E. Use the CSV format.

**Answer: B,C**

Explanation:

You should use a columnar file format such as Parquet or ORC (Optimized Row Columnar).

These formats are highly optimized for analytical queries and provide efficient storage and query performance.

In the Tables section of your lakehouse, you define virtual tables that represent external data sources. These virtual tables can be backed by data stored externally in formats such as Parquet or ORC in Amazon S3.

### NEW QUESTION # 168

You have the following KQL query.

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

**Answer:**

Explanation:

Explanation:

### NEW QUESTION # 169

You need to design a semantic model for the customer satisfaction report.

Which data source authentication method and mode should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

**Explanation:**

**Explanation:**

For the semantic model design required for the customer satisfaction report, the choices for data source authentication method and mode should be made based on security and performance considerations as per the case study provided.

Authentication method: The data should be accessed securely, and given that row-level security (RLS) is required for users executing T-SQL queries, you should use an authentication method that supports RLS.

Service principal authentication is suitable for automated and secure access to the data, especially when the access needs to be controlled programmatically and is not tied to a specific user's credentials.

Mode: The report needs to show data as soon as it is updated in the data store, and it should only contain data from the current and previous year. DirectQuery mode allows for real-time reporting without importing data into the model, thus meeting the need for up-to-date data. It also allows for RLS to be implemented and enforced at the data source level, providing the necessary security measures.

Based on these considerations, the selections should be:

\* Authentication method: Service principal authentication

\* Mode: DirectQuery

### NEW QUESTION # 170

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