

# DP-600 Online Test & DP-600 Reliable Exam Tutorial



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## Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
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>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>

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### Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q127-Q132):

#### NEW QUESTION # 127

You have a Fabric tenant that contains a lakehouse named Lakehouse1. Lakehouse1 contains a subfolder named Subfolder1 that contains CSV files. You need to convert the CSV files into the delta format that has V-Order optimization enabled. What should you do from Lakehouse explorer?

- A. Use the Load to Tables feature.
- B. Create a new shortcut in the Tables section.
- C. Use the Optimize feature.
- D. Create a new shortcut in the Files section.

#### Answer: A

Explanation:

To convert CSV files into the delta format with Z-Order optimization enabled, you should use the Optimize feature (D) from Lakehouse Explorer. This will allow you to optimize the file organization for the most efficient querying. Reference = The process for converting and optimizing file formats within a lakehouse is discussed in the lakehouse management documentation.

#### NEW QUESTION # 128

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Fabric tenant that contains a semantic model named Model1.

You discover that the following query performs slowly against Model1.

```
1 EVALUATE
2 FILTER (
3   VALUES ( Customer[Customer Name] ),
4   CALCULATE ( COUNTROWS ( 'Order Item' ) ) > 0
5 )
6 ORDER BY Customer[Customer Name]
```

You need to reduce the execution time of the query.

Solution: You replace line 4 by using the following code:

NOT ( CALCULATE ( COUNTROWS ( 'Order Item' ) ) < 0 )

Does this meet the goal?

- A. No
- B. Yes

#### Answer: A

Explanation:

This change is logically equivalent to the original condition and does not optimize the performance.

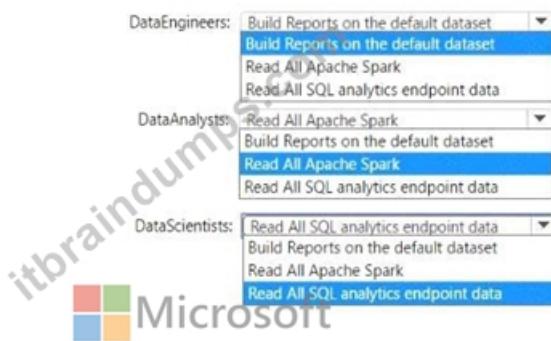
#### NEW QUESTION # 129

You need assign permissions for the data store in the AnalyticsPOC workspace. The solution must meet the security requirements.

Which additional permissions should you assign when you share the data store? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Answer:

Explanation:

The screenshot shows the same three dropdown menus with the correct permissions selected:

- DataEngineers:** "Build Reports on the default dataset" (selected), "Read All Apache Spark", and "Read All SQL analytics endpoint data".
- DataAnalysts:** "Read All Apache Spark" (selected), "Build Reports on the default dataset", "Read All Apache Spark", and "Read All SQL analytics endpoint data".
- DataScientists:** "Read All SQL analytics endpoint data", "Build Reports on the default dataset", "Read All Apache Spark" (selected), and "Read All SQL analytics endpoint data".

Explanation:

Comprehensive Detailed Explanation

When assigning permissions to roles in a Fabric workspace for analytics workloads, you must align permissions with the responsibilities and tools typically used by each persona:

### 1. Data Engineers

Their primary tasks include building and transforming data pipelines, as well as making datasets usable by others.

The appropriate permission is Build Reports on the default dataset, because this allows them to create and manage reports using the curated semantic model while preparing data for analysts and scientists.

### 2. Data Analysts

Analysts work heavily with Apache Spark for exploratory analysis, cleansing, and shaping data.

The correct permission is Read All Apache Spark, as this grants them the ability to query and analyze Spark- based data directly without elevated permissions that are unnecessary for their role.

### 3. Data Scientists

Data scientists often use SQL analytics endpoints to run queries, train models, and integrate data into machine learning workflows. The correct permission is Read All SQL analytics endpoint data, since it enables direct programmatic access to the SQL endpoint, which is needed for advanced modeling and experimentation.

Summary of Selections:

DataEngineers # Build Reports on the default dataset

DataAnalysts # Read All Apache Spark

DataScientists # Read All SQL analytics endpoint data

References (Microsoft Fabric - DP-600 exam scope):

Workspace roles and permissions in Microsoft Fabric

SQL analytics endpoint in Fabric

Apache Spark in Microsoft Fabric

### NEW QUESTION # 130

You have a Fabric tenant that contains a workspace named Workspace1!. You plan to deploy a semantic model named Model 1 by using the XMLA endpoint.

You need to optimize the deployment of Model1!. The solution must minimize how long it takes to deploy Model1!. What should you do in Workspace1?

- A. Select Large semantic model storage format
- B. Set Enable Cache for Shortcuts to On.
- C. Select Users can edit data models in the Power BI service.
- D. Select Small semantic model storage format.

**Answer: A**

### NEW QUESTION # 131

You have a Fabric tenant that contains a lakehouse named Lakehouse1. Lakehouse1 contains a table named Nyctaxi\_raw. Nyctaxi\_raw contains the following columns.

Name	Data type
pickupDateTime	Timestamp
passengerCount	Integer
fareAmount	Double
paymentType	String
tipAmount	Double

You create a Fabric notebook and attach it to lakehouse1.

You need to use PySpark code to transform the data. The solution must meet the following requirements:

- \* Add a column named pickupDate that will contain only the date portion of pickupDateTime.
- \* Filter the DataFrame to include only rows where fareAmount is a positive number that is less than 100.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
df = spark.read.format("delta").load("Tables/Nyctaxi_raw")
df2 = df.withColumn("pickupDate", F.col("pickupDateTime").cast("date"))
df2 = df2.filter("fareAmount > 0 AND fareAmount < 100")
```

**Answer:**

Explanation:

Answer Area

```
df = spark.read.format("delta").load("Tables/Nyctaxi_raw")
df2 = df.withColumn("pickupDate", F.col("pickupDateTime").cast("date"))
df2 = df2.filter("fareAmount > 0 AND fareAmount < 100")
```

Explanation:

Answer Area

```
df = spark.read.format("delta").load("Tables/nytaxi_delta")
df2 = df.withColumn("pickupDate", df["tpepPickupDateTime"].cast("date"))
        .filter("fareAmount > 0 AND fareAmount < 100")
```

\* Add the pickupDate column: .withColumn("pickupDate", df["pickupDateTime"].cast("date"))

\* Filter the DataFrame: `.filter("fareAmount > 0 AND fareAmount < 100")`

In PySpark, you can add a new column to a DataFrame using the `.withColumn` method, where the first argument is the new column name and the second argument is the expression to generate the content of the new column. Here, we use the `.cast("date")` function to extract only the date part from a timestamp. To filter the DataFrame, you use the `.filter` method with a condition that selects rows where `fareAmount` is greater than 0 and less than 100, thus ensuring only positive values less than 100 are included.

## NEW QUESTION # 132

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