



MICROSOFT DP-600

Microsoft MCA Fabric Analytics Engineer Certification Questions & Answers

Exam Summary – Syllabus – Questions

DP-600

[Microsoft Certified - Fabric Analytics Engineer Associate](#)

40-60 Questions Exam - 700 / 1000 Cut Score - Duration of 120 minutes

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Know Your DP-600 Certification Well:

The DP-600 is best suitable for candidates who want to gain knowledge in the Microsoft Fabric. Before you start your DP-600 preparation you may struggle to get all the crucial MCA Fabric Analytics Engineer materials like DP-600 syllabus, sample questions, study guide.

But don't worry the DP-600 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the DP-600 syllabus?
- How many questions are there in the DP-600 exam?
- Which Practice test would help me to pass the DP-600 exam at the first attempt?

Passing the DP-600 exam makes you Microsoft Certified - Fabric Analytics Engineer Associate. Having the MCA Fabric Analytics Engineer certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Microsoft DP-600 MCA Fabric Analytics Engineer Certification Details:

Exam Name	Microsoft Certified - Fabric Analytics Engineer Associate
Exam Code	DP-600
Exam Price	\$165 (USD)
Duration	120 mins
Number of Questions	40-60
Passing Score	700 / 1000
Books / Training	DP-600T00-A: Microsoft Fabric Analytics Engineer
Schedule Exam	Pearson VUE
Sample Questions	Implementing Analytics Solutions Using Microsoft Fabric Sample Questions
Practice Exam	Microsoft DP-600 Certification Practice Exam

DP-600 Syllabus:

Topic	Details
Plan, implement, and manage a solution for data analytics (10-15%)	
Plan a data analytics environment	<ul style="list-style-type: none"> - Identify requirements for a solution, including components, features, performance, and capacity - Stock-keeping units (SKUs) - Recommend settings in the Fabric admin portal - Choose a data gateway type - Create a custom Power BI report theme
Implement and manage a data analytics environment	<ul style="list-style-type: none"> - Implement workspace and item-level access controls for Fabric items - Implement data sharing for workspaces, warehouses, and lakehouses - Manage sensitivity labels in semantic models and lakehouses - Configure Fabric-enabled workspace settings - Manage Fabric capacity
Manage the analytics development lifecycle	<ul style="list-style-type: none"> - Implement version control for a workspace - Create and manage a Power BI Desktop project (.pbip) - Plan and implement deployment solutions - Perform impact analysis of downstream dependencies from lakehouses, data warehouses, dataflows, and semantic models - Deploy and manage semantic models by using the XMLA endpoint - Create and update reusable assets, including Power BI template (.pbip) files, Power BI data source (.pbids) files, and shared semantic models
Prepare and serve data (40-45%)	
Create objects in a lakehouse or warehouse	<ul style="list-style-type: none"> - Ingest data by using a data pipeline, dataflow, or notebook - Create and manage shortcuts - Implement file partitioning for analytics workloads in a lakehouse - Create views, functions, and stored procedures - Enrich data by adding new columns or tables
Copy data	<ul style="list-style-type: none"> - Choose an appropriate method for copying data from a Fabric data source to a lakehouse or

Topic	Details
	warehouse - Copy data by using a data pipeline, dataflow, or notebook - Add stored procedures, notebooks, and dataflows to a data pipeline - Schedule data pipelines - Schedule dataflows and notebooks
Transform data	- Implement a data cleansing process - Implement a star schema for a lakehouse or warehouse, including Type 1 and Type 2 slowly changing dimensions - Implement bridge tables for a lakehouse or a warehouse - Denormalize data - Aggregate or de-aggregate data - Merge or join data - Identify and resolve duplicate data, missing data, or null values - Convert data types by using SQL or PySpark - Filter data
Optimize performance	- Identify and resolve data loading performance bottlenecks in dataflows, notebooks, and SQL queries - Implement performance improvements in dataflows, notebooks, and SQL queries - Identify and resolve issues with Delta table file sizes
Implement and manage semantic models (20-25%)	
Design and build semantic models	- Choose a storage mode, including Direct Lake - Identify use cases for DAX Studio and Tabular Editor 2 - Implement a star schema for a semantic model - Implement relationships, such as bridge tables and many-to-many relationships - Write calculations that use DAX variables and functions, such as iterators, table filtering, windowing, and information functions - Implement calculation groups, dynamic strings, and field parameters - Design and build a large format dataset - Design and build composite models that include

Topic	Details
	aggregations - Implement dynamic row-level security and object-level security - Validate row-level security and object-level security
Optimize enterprise-scale semantic models	- Implement performance improvements in queries and report visuals - Improve DAX performance by using DAX Studio - Optimize a semantic model by using Tabular Editor 2 - Implement incremental refresh
Explore and analyze data (20-25%)	
Perform exploratory analytics	- Implement descriptive and diagnostic analytics - Integrate prescriptive and predictive analytics into a visual or report - Profile data
Query data by using SQL	- Query a lakehouse in Fabric by using SQL queries or the visual query editor - Query a warehouse in Fabric by using SQL queries or the visual query editor - Connect to and query datasets by using the XMLA endpoint

Microsoft DP-600 Sample Questions:

Question: 1

You have a Fabric tenant that contains a lakehouse named Lakehouse1. You have forecast data stored in Azure Data Lake Storage Gen2. You plan to ingest the forecast data into Lakehouse1. The data is already formatted, and you do NOT need to apply any further data transformations. The solution must minimize development effort and costs.

Which method should you recommend to efficiently ingest the data?

- a) First, download the data to your computer, and then use Lakehouse explorer to upload it to Lakehouse1.
- b) Use a Spark notebook.
- c) Use Dataflow Gen2.
- d) Use the Copy activity in a pipeline.

Answer: d

Question: 2

You have a Fabric workspace that contains a lakehouse named Lakehouse1. Lakehouse1 contains a Delta Parquet table named FactSales. You use a Describe command to review the history of FactSales and notice that you have over 1000 versions of the table, and the retention policy is six months.

You need to reduce the size of the FactSales table and the number of files in the table. What should you configure on the table?

- a) Apply V-Order under Maintenance.
- b) Delete the FactSales table from Lakehouse1.
- c) Run the OPTIMIZE command under Maintenance.
- d) Run the VACUUM command under Maintenance.

Answer: d

Question: 3

You have a Fabric workspace that contains a Microsoft Power BI report named Report1. Your organization does not currently have an enterprise data warehouse. You need to leverage dataflows to bring data into a Power BI semantic model. You notice that access to one of the data sources is restricted to narrow time windows.

What should you do?

- a) Create a linked table that will reference the data from another dataflow.
- b) Create a shared dataset that can be reused by multiple Power BI reports.
- c) Create a staging dataflow that will only copy the data from the source as-is.
- d) Create a transformation dataflow that will apply all the necessary data transformations.

Answer: c

Question: 4

You have a Fabric tenant that contains a lakehouse named Lakehouse1. You have an external Snowflake database that contains a table with 200 million rows. You need to use a data pipeline to migrate the database to Lakehouse1.

What is the most performant (fastest) method for ingesting data this large (200 million rows) by using a data pipeline?

- a) Data Pipeline (Copy data)
- b) Data Pipeline (Dataflow Gen2)
- c) Data Pipeline (Lookup)
- d) Data Pipeline Spark (Notebook)

Answer: a

Question: 5

You are managing a set of Dataflow Gen2 queries that are currently ingesting tables into a Fabric lakehouse. You need to ensure that the tables are optimized for Direct Lake connections that will be used by connected semantic models. What should you do?

- a) Apply an incremental refresh policy to the semantic model refreshes.
- b) Run the VACUUM command.
- c) Use OPTIMIZE to apply V-Order.
- d) Use shortcuts to the lakehouse tables from the semantic models.

Answer: c

Question: 6

You have a Fabric workspace that contains a complex semantic model for a Microsoft Power BI report. You need to optimize the semantic model for analytical queries and use denormalization to reduce the model complexity and the number of joins between tables.

Which tables should you denormalize?

- a) dimension tables on the same level of granularity
- b) fact tables on the same level of granularity
- c) role-playing dimension tables
- d) Snowflaked dimension tables

Answer: d

Question: 7

You have a Fabric tenant that contains a warehouse named Warehouse1. You have a large 1 TB dataset in an external data source. You need to recommend a method to ingest the dataset into Warehouse1. The solution must provide the highest throughput and support a low-code/no-code development model.

What should you recommend?

- a) Copy data activity
- b) Dataflow Gen2
- c) Spark notebook
- d) Shortcut

Answer: a

Question: 8

You are developing a complex semantic model that contains more than 20 date columns. You need to conform the date format for all the columns as quickly as possible. What should you use?

- a) ALM Toolkit
- b) DAX Studio
- c) Tabular Editor
- d) VertiPaq Analyzer

Answer: c

Question: 9

You have a Fabric tenant that contains a lakehouse named Lakehouse1. You plan to use Dataflow Gen2 to ingest and transform data from an Azure SQL Database into Lakehouse1. Which language should you use to transform the data in the dataflow?

- a) DAX
- b) M
- c) SQL
- d) XML

Answer: b

Question: 10

You are developing a Microsoft Power BI semantic model. Two tables in the data model are not connected in a physical relationship. You need to establish a virtual relationship between the tables. Which DAX function should you use?

- a) USERELATIONSHIP()
- b) TREATAS()
- c) PATH()
- d) CROSSFILTER()

Answer: b

Study Guide to Crack Microsoft MCA Fabric Analytics Engineer DP-600 Exam:

- Getting details of the DP-600 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the DP-600 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Microsoft provided training for DP-600 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the DP-600 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on DP-600 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for DP-600 Certification

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