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# MICROSOFT DP-500

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**Microsoft Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI Certification Questions & Answers**

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Exam Summary – Syllabus – Questions

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**DP-500**

**[Microsoft Certified - Azure Enterprise Data Analyst Associate](#)**

**40-60 Questions Exam - 700 / 1000 Cut Score - Duration of 150 minutes**

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## Know Your DP-500 Certification Well:

The DP-500 is best suitable for candidates who want to gain knowledge in the Microsoft Azure. Before you start your DP-500 preparation you may struggle to get all the crucial Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI materials like DP-500 syllabus, sample questions, study guide.

But don't worry the DP-500 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-500 syllabus?
- How many questions are there in the DP-500 exam?
- Which Practice test would help me to pass the DP-500 exam at the first attempt?

Passing the DP-500 exam makes you Microsoft Certified - Azure Enterprise Data Analyst Associate. Having the Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI 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-500 Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI Certification Details:

Exam Name	Microsoft Certified - Azure Enterprise Data Analyst Associate
Exam Code	DP-500
Exam Price	\$165 (USD)
Duration	150 mins
Number of Questions	40-60
Passing Score	700 / 1000

Books / Training	<a href="#"><u>Course DP-500T00: Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI</u></a>
Schedule Exam	<a href="#"><u>Pearson VUE</u></a>
Sample Questions	<a href="#"><u>Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI Sample Questions</u></a>
Practice Exam	<a href="#"><u>Microsoft DP-500 Certification Practice Exam</u></a>

## DP-500 Syllabus:

Topic	Details
<b>Implement and manage a data analytics environment (25-30%)</b>	
Govern and administer a data analytics environment	<ul style="list-style-type: none"> <li>- Manage Power BI assets by using Azure Purview</li> <li>- Identify data sources in Azure by using Azure Purview</li> <li>- Recommend settings in the Power BI admin portal</li> <li>- Recommend a monitoring and auditing solution for a data analytics environment, including Power BI REST API and PowerShell cmdlets</li> </ul>
Integrate an analytics platform into an existing IT infrastructure	<ul style="list-style-type: none"> <li>- Identify requirements for a solution, including features, performance, and licensing strategy</li> <li>- Configure and manage Power BI capacity</li> <li>- Recommend and configure an on-premises gateway in Power BI</li> <li>- Recommend and configure a Power BI tenant or workspace to integrate with Azure Data Lake Storage Gen2</li> <li>- Integrate an existing Power BI workspace into Azure Synapse Analytics</li> </ul>
Manage the analytics development lifecycle	<ul style="list-style-type: none"> <li>- Commit code and artifacts to a source control repository in Azure Synapse Analytics</li> <li>- Recommend a deployment strategy for Power BI assets</li> <li>- Recommend a source control strategy for Power BI</li> </ul>

Topic	Details
	assets - Implement and manage deployment pipelines in Power BI - Perform impact analysis of downstream dependencies from dataflows and datasets - Recommend automation solutions for the analytics development lifecycle, including Power BI REST API and PowerShell cmdlets - Deploy and manage datasets by using the XMLA endpoint - Create reusable assets, including Power BI templates, Power BI data source (.pbids) files, and shared datasets
<b>Query and transform data (20-25%)</b>	
Query data by using Azure Synapse Analytics	- Identify an appropriate Azure Synapse pool when analyzing data - Recommend appropriate file types for querying serverless SQL pools - Query relational data sources in dedicated or serverless SQL pools, including querying partitioned data sources - Use a machine learning PREDICT function in a query
Ingest and transform data by using Power BI	- Identify data loading performance bottlenecks in Power Query or data sources - Implement performance improvements in Power Query and data sources - Create and manage scalable Power BI dataflows - Identify and manage privacy settings on data sources - Create queries, functions, and parameters by using the Power Query Advanced Editor - Query advanced data sources, including JSON, Parquet, APIs, and Azure Machine Learning models

Topic	Details
<b>Implement and manage data models (25-30%)</b>	
Design and build tabular models	<ul style="list-style-type: none"> <li>- Choose when to use DirectQuery for Power BI datasets</li> <li>- Choose when to use external tools, including DAX Studio and Tabular Editor 2</li> <li>- Create calculation groups</li> <li>- Write calculations that use DAX variables and functions, for example handling blanks or errors, creating virtual relationships, and working with iterators</li> <li>- Design and build a large format dataset</li> <li>- Design and build composite models, including aggregations</li> <li>- Design and implement enterprise-scale row-level security and object-level security</li> </ul>
Optimize enterprise-scale data models	<ul style="list-style-type: none"> <li>- Identify and implement performance improvements in queries and report visuals</li> <li>- Troubleshoot DAX performance by using DAX Studio</li> <li>- Optimize a data model by using Tabular Editor 2</li> <li>- Analyze data model efficiency by using VertiPaq Analyzer</li> <li>- Implement incremental refresh</li> <li>- Optimize a data model by using denormalization</li> </ul>
<b>Explore and visualize data (20-25%)</b>	
Explore data by using Azure Synapse Analytics	<ul style="list-style-type: none"> <li>- Explore data by using native visuals in Spark notebooks</li> <li>- Explore and visualize data by using the Azure Synapse SQL results pane</li> </ul>
Visualize data by using Power BI	<ul style="list-style-type: none"> <li>- Create and import a custom report theme</li> <li>- Create R or Python visuals in Power BI</li> <li>- Connect to and query datasets by using the XMLA endpoint</li> <li>- Design and configure Power BI reports for accessibility</li> <li>- Enable personalized visuals in a report</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Configure automatic page refresh</li> <li>- Create and distribute paginated reports in Power BI Report Builder</li> </ul>

## Microsoft DP-500 Sample Questions:

### Question: 1

You are using GitHub as a source control solution for an Azure Synapse Studio workspace. You need to modify the source control solution to use an Azure DevOps Git repository. What should you do first?

- a) Disconnect from the GitHub repository.
- b) Create a new pull request.
- c) Change the workspace to live mode.
- d) Change the active branch.

**Answer: a**

### Question: 2

You are using DAX Studio to analyze a slow-running report query. You need to identify inefficient join operations in the query. What should you review?

- a) the query plan
- b) the query statistics
- c) the query history
- d) the server timings

**Answer: a**

### Question: 3

You are optimizing a Power BI data model by using DAX Studio. You need to capture the query events generated by a Power BI Desktop report. What should you use?

- a) the DMV list
- b) a Query Plan trace
- c) an All Queries trace
- d) a Server Timings trace

**Answer: d**

**Question: 4**

You develop a solution that uses a Power BI Premium capacity. The capacity contains a dataset that is expected to consume 50 GB of memory. Which two actions should you perform to ensure that you can publish the model successfully to the Power BI service?

(Choose two.)

- a) Increase the Max Offline Dataset Size setting.
- b) Invoke a refresh to load historical data based on the incremental refresh policy.
- c) Restart the capacity.
- d) Publish an initial dataset that is less than 10 GB.
- e) Publish the complete dataset.

**Answer: c, e**

**Question: 5**

You have a Power BI dataset that has only the necessary fields visible for report development. You need to ensure that end users see only 25 specific fields that they can use to personalize visuals. What should you do?

- a) From Tabular Editor, create a new role.
- b) Configure object-level security (OLS).
- c) Hide all the fields in the dataset.
- d) From Tabular Editor, create a new perspective.

**Answer: c**

**Question: 6**

You are creating a Power BI single-page report. Some users will navigate the report by using a keyboard, and some users will navigate the report by using a screen reader. You need to ensure that the users can consume content on a report page in a logical order. What should you configure on the report page?

- a) the bookmark order
- b) the X position
- c) the layer order
- d) the tab order

**Answer: b**



**Question: 7**

You have a Power BI data model. You need to refresh the data from the source every 15 minutes. What should you do first?

- a) Change the storage mode of the dataset.
- b) Define an incremental refresh policy.
- c) Enable the XMLA endpoint.
- d) Configure a scheduled refresh.

**Answer: c**

**Question: 8**

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics. You need to present the data distribution statistics from a DataFrame in a tabular view. Which method should you invoke on the DataFrame?

- a) freqItems
- b) explain
- c) rollup
- d) summary

**Answer: d**

**Question: 9**

Which two possible tools can you use to identify what causes the report to render slowly? (Choose two.)

- a) Synapse Studio
- b) DAX Studio
- c) Azure Data Studio
- d) Performance analyzer in Power BI Desktop

**Answer: b, d**

**Question: 10**

What should you configure in the deployment pipeline?

- a) a selective deployment
- b) auto-binding
- c) a backward deployment
- d) a data source rule

**Answer: b**

## Study Guide to Crack Microsoft Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI DP-500 Exam:

- Getting details of the DP-500 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-500 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-500 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-500 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-500 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

### Reliable Online Practice Test for DP-500 Certification

Make EduSum.com your best friend during your Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI exam preparation. We provide authentic practice tests for the DP-500 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual DP-500 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the DP-500 exam.

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