DP-500: Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI

Microsoft - Data & AI

Live Training (também disponível em presencial)

- **Localidade:** Imprimir Curso
- **Data:** 13 Nov 2023
- **Preço:** 1590 € (Os valores apresentados não incluem IVA. Oferta de IVA a particulares e estudantes.)
- **Horário:** Laboral das 09h00 - 17h00
- **Nível:**
- **Duração:** 28h

Sobre o curso

This course covers methods and practices for performing advanced data analytics at scale. Students will build on existing analytics experience and will learn to implement and manage a data analytics environment, query and transform data, implement and manage data models, and explore and visualize data. In this course, students will use Microsoft Purview, Azure Synapse Analytics, and Power BI to build analytics solutions.

Destinatários

Candidates for this course should have subject matter expertise in designing, creating, and deploying enterprise-scale data analytics solutions. Specifically, candidates should have advanced Power BI skills, including managing data repositories and data processing in the cloud and on-premises, along with using Power Query and Data Analysis Expressions (DAX). They should also be proficient in consuming data from Azure Synapse Analytics and should have experience querying relational databases, analyzing data by using Transact-SQL (T-SQL), and visualizing data.

Objetivos

- Prepare for Exam DP-500: Designing and Implementing Enterprise-Scale Analytics Solutions Using

Microsoft Azure and Microsoft Power BI
- Use Microsoft Purview to register and scan data, catalog data artifacts, find data for reporting, and manage Power BI artifacts to improve data governance in your organization
- Query and explore data in Azure Synapse Analytics. You'll learn how to query and visualize data in a data lake and a data warehouse
- Understand Power BI model frameworks and strategies for scalability and optimization are key to a successful enterprise implementation
- Introduce the foundational components of designing scalable tabular models using Power BI
- Use Power BI to visualize real-time data, and visualize data in paginated reports
- Introduce the foundational components of implementing lifecycle management techniques for Power BI assets

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Pré-requisitos

Before attending this course, it is recommended that students have:

- A foundational knowledge of core data concepts and how they're implemented using Azure data services. For more information see Azure Data Fundamentals.
- Experience designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value using Microsoft Power BI. For more information see Power BI Data Analyst.

Programa

- Introduction to data analytics on Azure
- Govern data across an enterprise
- Model, query, and explore data in Azure Synapse
- Prepare data for tabular models in Power BI
- Design and build tabular models
- Implement advanced data visualization techniques by using Power BI
- Implement and manage an analytics environment
- Manage the analytics development lifecycle

Introduction to data analytics on Azure

- Explore Azure data services for modern analytics
- Understand concepts of data analytics
- Explore data analytics at scale

Govern data across an enterprise

- Introduction to Microsoft Purview
- Discover trusted data using Microsoft Purview
- Catalog data artifacts by using Microsoft Purview
- Manage Power BI assets by using Microsoft Purview
- Integrate Microsoft Purview and Azure Synapse Analytics

Model, query, and explore data in Azure Synapse

- Introduction to Azure Synapse Analytics
- Use Azure Synapse serverless SQL pool to query files in a data lake
- Analyze data with Apache Spark in Azure Synapse Analytics
- Analyze data in a relational data warehouse

Prepare data for tabular models in Power BI

- Choose a Power BI model framework
- Understand scalability in Power BI
- Create and manage scalable Power BI dataflows

Design and build scalable tabular models

- Create Power BI model relationships
- Use DAX time intelligence functions in Power BI Desktop models
- Create calculation groups
- Enforce Power BI model security
- Use tools to optimize Power BI performance

Implement advanced data visualization techniques by using Power BI

- Understand advanced data visualization concepts
- Monitor data in real-time with Power BI
- Create paginated reports

Implement and manage an analytics environment

- Provide governance in a Power BI environment
- Facilitate collaboration and sharing in Power BI
- Monitor and audit usage
- Provision Premium capacity in Power BI
- Establish a data access infrastructure in Power BI
- Broaden the reach of Power BI

- Automate Power BI administration
- Build reports using Power BI within Azure Synapse Analytics

Manage the analytics development lifecycle

- Design a Power BI application lifecycle management strategy
- Create and manage a Power BI deployment pipeline
- Create and manage Power BI assets