



Implementing a Data Analytics Solution with Azure Synapse Analytics (DP-3012)

Description

Complete Training on Azure Synapse Analytics: “**Implementing a Data Analytics Solution with Azure Synapse Analytics (DP-3012)**“. Whether you are a beginner or an experienced professional in the field of data analysis, this training will guide you through the various applications and features of **Azure Synapse** to transform data into actionable insights.

Learn how to query files in a data lake with the **serverless SQL pool**, analyze data with **Apache Spark**, and optimize data workflows with **Delta Lake** in our detailed modules. You will also learn how to design data warehouse schemas and build efficient data pipelines in Azure Synapse Analytics. Join the course ‘Implementing a Data Analytics Solution with Azure Synapse Analytics (DP-3012)’ to master these essential skills and propel your career in the field of Big Data and data analytics.

Course Content

Module 1 - Introduction to Azure Synapse Analytics

- What is Azure Synapse Analytics
- How Azure Synapse Analytics works
- When to use Azure Synapse Analytics

Module 2 - Using Azure Synapse's serverless SQL pool to query files in a data lake

- Understand the capabilities and use cases of the serverless SQL pool in Azure Synapse
- Query files using a serverless SQL pool
- Create external database objects

Module 3 - Analyzing data with Apache Spark in Azure Synapse Analytics

- Get acquainted with Apache Spark
- Use Spark in Azure Synapse Analytics
- Analyze data with Spark
- Visualize data with Spark

Module 4 - Using Delta Lake in Azure Synapse Analytics

- Understand Delta Lake
- Create Delta Lake tables
- Create catalog tables
- Use Delta Lake with streaming data
- Use Delta Lake in a SQL pool

Module 5 - Analyzing data in a relational data warehouse

- Design a data warehouse schema
- Create data warehouse tables
- Load data warehouse tables
- Query a data warehouse

Module 6 - Building a data pipeline in Azure Synapse Analytics

- Understand pipelines in Azure Synapse Analytics
- Create a pipeline in Azure Synapse Studio
- Define data flows
- Execute a pipeline

Documentation

- Digital course material included

Participant profiles

- Administrators
- Data specialists

Prerequisites

- Familiarity with notebooks using various languages and a Spark engine
- Experience with SQL and Python
- Skills in Azure tools, including Data Factory

Objectives

- Provide a complete understanding of Azure Synapse Analytics
- Teach the use of serverless and dedicated SQL pools
- Train on data analysis with Apache Spark
- Integrate Delta Lake for advanced data management
- Design and implement a relational data warehouse
- Build and execute data pipelines

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Niveau

Intermédiaire

Classroom Registration Price (CHF)

900

Virtual Classroom Registration Price (CHF)

850

Duration (in Days)

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Reference
DP-3012