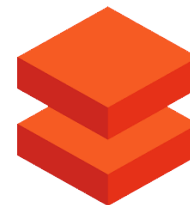


AZURE DATABRICKS



Kategoria	Czas trwania	Termin	Cena
Data	24h / 3 dni	ustalamy indywidualnie	ustalamy indywidualnie

Program szkolenia:

Poniżej przedstawiamy przykładowy program szkolenia, który może zostać zmodyfikowany zgodnie z oczekiwaniami oraz poziomem grupy szkoleniowej. Przed przygotowaniem docelowego programu szkolenia, przeprowadzamy rozmowę techniczną, w której bierze udział trener oraz osoba techniczna lub cały zespół developerów reprezentujący klienta, w celu ustalenia szczegółów szkolenia.

Dzień 1 [8h]

Module 1 – Databricks Lakehouse Fundamentals

1. What is the Databricks Lakehouse Platform

- Describe what the Databricks Lakehouse Platform is.
- Explain the origin of the Lakehouse data management paradigm.
- Outline fundamental challenges related to managing and using data.
- Describe security features of the Databricks Lakehouse Platform.
- Give examples of organizations that have benefited from using the Databricks Lakehouse Platform

2. What is Databricks SQL

- Summarize fundamental concepts for using Databricks SQL effectively
- Identify tools and features in Databricks SQL for querying data and sharing insights
- Explain how Databricks SQL supports data analysis workflows that allow users to extract and share business insights

3. What is Databricks Machine Learning

- Describe the basic overview of Databricks Machine Learning.
- Identify how using Databricks Machine Learning benefits data science and machine learning teams
- Summarize the fundamental components and functionalities of Databricks Machine Learning
- Exemplify successful use cases of Databricks Machine Learning by real Databricks customers

Dzień 1 [8h] c.d.

4. What is Databricks Data Science and Data Engineering Workspace

- Describe the basic overview of Databricks Data Science and Engineering Workspace
- Identify assets provided by the workspace
- Describe a simple development workflow that queries and aggregates data

Dzień 2 [8h]

Module 2 – Data Engineering with Databricks

1. Databricks Workspaces And Services

- Databricks Architecture and Services
- Data Science and Engineering Workspace
- Create and Manage Interactive Clusters
- Notebook Basics
- Git Versioning with Databricks Repos
- Using Databricks Repos
- Getting Started with the Databricks Platform

2. Delta Lakehouse

- What is Delta Lake
- Managing Delta Tables
- Manipulating Tables with Delta Lake
- Advanced Delta

3. Relational entities on Databricks

- Databases and Views
- Views and CTEs

4. ETL with Spark Sql

- Query Files Directly
- Providing Options

Module 3 – Data Analysis with Databricks Sql

1. Getting Started with Databricks Sql

- Getting Started with Databricks Sql
- Navigating Databricks SQL
- Unity Catalog on Databricks Sql
- Schemas, Tables and Views on Databricks SQL

2. Basic SQL on Databricks Sql

- Ingesting Data for Databricks Sql
- Ingesting Data
- Joins
- Delta Commands in Databricks Sql

Dzień 2 [8h] c.d.

3. Presenting Data Visually

- Data Visualization
- Data Visualizations on Databricks Sql
- Dashboards on Databricks Sql
- Notifying Stakeholders

Dzień 3 [8h]

Module 4 – Apache Spark Programming with Databricks

1. Apache Spark Programming – Dataframes

- Databricks platform
 - Databricks Ecosystem
- Spark Sql
 - Spark Sql
 - Dataframes
 - SparkSession
- Reader and writer
 - Data Sources
- Dataframe and column
 - Column and Expression
 - Transformation ACtions and Rows

Module 4 – Apache Spark Programming with Databricks

2. Apache Spark Programming – Transformations

- Aggregation
 - Aggregation Functions
- Datetimes
 - Dates and Timestamps
- Complex Types
 - Complex Types
- Additional Functions
 - Additional Functions
- UDFS
 - UDFs Vectorized Functions

Dzień 3 [8h] c.d.

3. Apache Spark Programming – Spark Internals

- Spark Architecture
 - Spark Cluster, Spark Execution
 - Shuffling and Caching
- Query Optimization
 - Query Optimization
- Partitioning
 - Partitioning

4. Apache Spark Programming – Structured Streaming

- Apache Spark Programming
 - Streaming Concepts

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