Data Azure

60 Hours

Azure is the cloud service of Microsoft. This is one of the primary three cloud services in the industry. Azure has many unique data tools that can structure and improve our data engineering processes. During the course, you will learn the relevant services, and by the end, you will have all the knowledge pertinent to be an Azure data engineer.

Topic	Description
Azure cloud computing sync (3 hours)	
Introduction to Azure cloud computing	- Azure services - Managed and unmanaged service - Resource groups - Resource provider - tagging - Access control - Basic database introduction
Introduction to data engineering concepts	- Data engineering introduction - Big data introduction 3 V's theorem
Azure databases (40 hours)	
Azure SQL database	- SQL introduction - SQL in Azure - IaaS vs PaaS - Data warehouse - Elastic database - Managed instance database - Security - Monitoring - Optimizations
Azure SQL data warehouse	- Data warehouse introduction - Synapse analytics service - Loading methods - Security - Monitoring - Optimizations

Azure data lake	● Data lake introduction ● Data lake vs Hadoop ● Data flow in Data lake ● Data analysis in Data lake ● Provisioning ● Security ● Monitoring ● Optimizations
Azure NoSQL database	● SQL vs NoSQL ● different types ● cosmo DB introduction ● Security ● Monitoring ● Optimizations
Azure streaming and analytics tools (10 hours)	
Streaming introduction	● Streaming analytics introduction ● Streaming analytics tools
Azure databricks	● Spark vs databricks ● Provisioning ● Data lake with data bricks ● Monitoring ● Optimizations
Data integration (7 hours)	
Data factory	● Data factory introduction ● Pipelines creation ● Linked services ● Working concepts ● Data flow ● Monitoring ● Optimizations

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